



# Environmental and Social Monitoring Report

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Annual Report  
Project Number: 47929-001  
February 2015 to December 2015

## PAK: Gulpur Hydropower Project

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Prepared by Mira Power Limited for the Asian Development Bank.

Asian Development Bank



*Gulpur Hydropower Project*

# **Environmental and Social Compliance Report**

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**Pre-Construction Progress Report**

**February, 2015 – December 2015**

**Mira Power Limited**

**Islamabad**

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## A. Project Summary Information

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**a) Location of Project**

Village Barali, Tehsil and District Kotli, Azad Jammu and Kashmir

**b) Nature**

Run-of-River Hydropower Project

**c) Capacity**

102 MW with average annual generation capability of 460GWh

**d) Date of Construction Commencement**

Pre-construction activities formally commenced: February, 2015

## **B. Project's Environmental & Social Calendar and Permits**

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### **a) Environmental & Social Calendar**

Various activities were undertaken to fulfill the project's environmental & social obligations in accordance with both applicable laws and lenders' requirements. Key environmental & social milestones of the project are listed below:

<b>01</b>	Agreement for Preparation and Development of ESIA & RAP	04/30/2013
<b>02</b>	Finalization of ESIA & RAP	
<b>03</b>	Recognition of Project Location in National Park	05/03/2013
<b>04</b>	Agreement for Carrying out Studies of CHA & BAP	09/13/2013
<b>05</b>	Peer Review Meeting with ADB in Manila	09/30/2013
<b>06</b>	Additional Agreement with Hagler Bailly for Climate Change Assessment Report and Updating the ESIA	02/27/2014
<b>07</b>	Reviews and Objection of ESIA by EPA	02/28/2014
<b>08</b>	Submission of Revised ESIA	03/31/2014
<b>09</b>	Acceptance of ESIA by EPA	04/09/2014
<b>10</b>	Public Hearing	05/15/2014
<b>11</b>	Approval for Construction in National Park	05/21/2014
<b>12</b>	Issuance of Environmental NOC	06/18/2014
<b>13</b>	Baseline Biodiversity Assessment	09/23/2014
<b>14</b>	Biodiversity Action Plan Draft Report	09/23/2014
<b>15</b>	Ecohydraulics Specialist Report	09/23/2014
<b>16</b>	Environmental Flow Assessment	09/23/2014
<b>17</b>	Environmental and Social Management System (ESMS) Framework	09/23/2014
<b>18</b>	Frameworks for Management Plans	09/23/2014
<b>19</b>	Geomorphology Specialist Report	09/23/2014
<b>20</b>	Mitigation Strategies with Respect to the Impact of Sand and Gravel Mining in the Poonch Basin	09/23/2014
<b>21</b>	Physical Baseline	09/23/2014
<b>22</b>	Finalization of Road Map for National Park Management Plan	09/25/2014
<b>23</b>	Finalization of ESIA	09/25/2014
<b>24</b>	Cumulative Impact Assessment	11/01/2014
<b>25</b>	Approval of Wildlife & Fisheries Department, GoAJK for BAP	01/02/2015
<b>26</b>	Agreement for Carrying out Additional Studies for Updating BAP	01/13/2015
<b>27</b>	Agreement for Carrying out Security Risk Assessment, Developing a Security Management Plan and Related Procedures	01/27/2015
<b>28</b>	Security Risk Assessment	02/15/2015
<b>29</b>	ESIA Submission to EPA	02/20/2014
<b>30</b>	Approval of Wildlife & Fisheries Department, GoAJK for updated BAP	03/11/2015

31	Land Acquisition and Resettlement Plan (LARP)	06/15/2015
32	Construction Environmental and Social Management Plan	09/15/2015
33	Emergency Response and Contingency Plan	09/15/2015
34	Biodiversity Action Plan	10/01/2015
35	Stakeholders Engagement Plan	10/06/2015
36	Environmental and Social Management System (ESMS)	10/06/2015
37	EHS Plan for Diversion Tunnels	10/15/2015
38	Fire Emergency Response Plan	10/15/2015
39	Environment, Occupational Health and Safety Program	10/15/2015
40	Muck Disposal Plan	10/15/2015
41	Malaria Management Plan	10/15/2015
42	Spill Contingency Plan	10/15/2015
43	Traffic Management Plan	10/15/2015
44	Waste Management Plan	10/15/2015
45	Agreement for Development of Detailed Livelihood Restoration Plan (DLRP)	11/17/2015
46	Stakeholders Consultation	Ongoing
47	Finalization of Site Specific Plans	Ongoing
48	CSR Plan	In Progress
49	Finalization of Climate Change Assessment Report	
50	Finalization of Glacier Lake Outburst Floods (GLOF) Assessment	
51	Approval of Wildlife & Fisheries Department for Execution of BAP Implementation Agreement	02/19/2016
52	Execution of BAP Implementation Agreement	02/22/2016

#### **b) Issued by Government Agencies**

Environmental Protection Agency Azad Jammu and Kashmir (EPA-AJ&K).

#### **c) Issuance Dates and Duration of Validity**

June 18, 2014 for the Project term (the "Original NOC").

#### **d) Permit conditions and renewal requirements**

1. Honoring, in letter and spirit, all the commitments made in the Environmental Management Plan of EIA report, latest indication of investments by the CEO after the Public hearing dated May 12, 2014 and assurances given in the Addendum to EIA dated June 03, 2014 make the minimal requirement for this environmental approval.
2. The proponent will develop detailed Biodiversity Action Plan (BAP) in consultation with the Forest, Wildlife & Fisheries Department for the betterment of the National Park, clearly indicating the roles and responsibilities of all the stakeholders and also defining the implementation mechanism of the BAP along with its cost

estimates for different activities at the earliest in the first quarter of proper commencement of the project and 'fill submit to EPA-AJK and other stakeholders for review and comments and its approval.

3. Under Corporate Social Responsibility (CSR) obligation, the proponent will follow the Security and Exchange Commission of Pakistan's Voluntary CSR guidelines to develop the long term partnership with the stakeholders and the local community and will develop the CSR plan with mutual consultation of local community and EPA-AJK within 03 months to make it more effective and viable.
4. The amount for CSR by, the Proponent should be at least Rs. 20 million during construction period and for operational period it has to be Rs. 3.00 Million per annum.
5. The proponent shall strictly adhere to take all the Mitigation measures suggested in the EIA Report & Environmental Management Plan (EMP) to ensure that there is no negative impact on soil, roads, ground water, ambient air quality, noise level, natural drainage, flooding, hill torrents, and livelihood of local communities and biological resources of the project area. Institutional arrangements for implementation of Environmental Management Plan (EMP) should be finalized well before the commencement of the project so that proposed mechanism of environmental Protection should be operative well in time.
6. The proponent will undertake the acquisition of the land through a standard legal process by District revenue department and compensation shall be paid to inhabitants in case of loss of agriculture land, crops, property, usage right etc. in accordance with the rates / broader packages that were agreed upon by the affectees. All conflicting issues regarding compensation should be settled amicably sooner than later.
7. The proponent will develop detailed Land acquisition and resettlement plan after completing all legal process before the commencement on the project as committed in the Public Hearing.
8. Proponent shall ensure the adequate arrangements for addressing public grievance(s) and implementation of Resettlement Action Plan (RAP) through Public Grievances Redress and Settlement Committee (-PGRSC) without any delay.
9. The proponent will also develop the Watershed Management Plan of immediate and upstream catchment areas to control the siltation of the reservoir in consultation with the Forest Department and will take all possible efforts to utilize all the excavated material in the nearby watershed degraded area for land reclamation instead of dumping it along the river.
10. It will be ensured that no dumping is made along the river. However, whenever it is unavoidable the proponent will take all the protective measures to ensure no spoilage/excavated material reaches in the river.

11. The proponent will restrict removal of trees at project site to bare minimum; and if unavoidable, the cash compensation will be paid to the owners and Forest Department along with planting of trees five times of removed on nearby available blank areas in collaboration with AJK-Forest Department.
12. The Proponent shall ensure compliance to National Environmental Quality Standards (NEQS) during construction and operation of the project.
13. Proponent shall constitute Environmental Monitoring Committee (EMC) having the representatives of all concerned stakeholders as mentioned in EIA. The reporting mechanism and ToRs of the Committee shall be finalized in consultation with EPAAJK.
14. Monitoring shall cover the entire period of the Project, construction and operation. Monitoring reports shall be submitted to AJK-EPA on quarterly basis.
15. The proponent shall provide the copy of this approval and EIA report to the contractor(s) for compliance and any negligence on contractors' part will be considered proponent's negligence.
16. Blasting shall be avoided; if it is inevitable, the controlled techniques in accordance with Pakistan Explosive Act should be adopted in sliding and perspective sliding prone areas.
17. In case independent Environmental Specialist firms/organizations are to be hired as a compulsory arrangement to undertake measurements of different parameters critically important in determining water & air quality and assessing noise emission level either during construction phase or in both construction and operation phases of the project, the finding of quality analysis on regular basis should positively be shared with EPA-AJK.
18. The proponent shall ensure that strict and efficient health and safety measure are in place for the protection of workers and passers-by backed by a comprehensive emergency response mechanism plan.
19. The proponent will ensure the employment opportunities to the local community on priority if eligible and will incorporate it in EPC and O&M agreements. As far as possible, employment should be provided to local people for all unskilled jobs. Preference may also be given to local people for all semi-skilled and skilled jobs as committed in Public Hearing. Employment record for all positions shall be provided to EPA-AJK positively.
20. In the case of precious stones/ semi-precious stones/ minerals discovery during tunneling or any other excavation activity the proponent should immediately stop the work and the concerned department or agency should be consulted for taking appropriate action.
21. In the case the articles of Archeological importance like artifacts, coins rock-art and other archeological relics are discovered, the work at the site should immediately

- be stopped and the concerned department or agency should be consulted for the appropriate action.
22. Proponent shall take special safety measures while working close to settlements, towns, schools and hospitals etc. for safety of the general public and livestock.
  23. Proponent/contractor shall make sure the safety & security of wildlife and their habitats at the project site and in its environs with the prior consultation and adhering strictly to the guidelines of Forestry & Wildlife Department.
  24. During the excavation of tunnel; the dug material and spoil should be utilized as per para 9, 10. Free roll down of excavated material shall be prohibited to avert damage to green vegetation cover, water bodies, perennial & non-perennial drains, irrigation channels, . Communication routes and productive lands. Littering would be avoided strictly during transportation of materials.
  25. The mechanized plants, machinery and other equipment's must be fitted with noise abatement devices and should have the conformity to NEQs. The sites to install the asphalt plant and other machinery would be selected in consultation with the Agency (EPA-AJK). Special consideration must be given to critical installations like school hospitals, mosques, community hall etc. while selecting temporary utility sites.
  26. The proponent shall not setup labor camps close to the settlements and will develop independent services utilities to avoid intruding into local population privacy.
  27. The proponent shall manage scientifically all waste generated by construction activities and machinery, chemicals' spill, and no damage to flora fauna and overall ecology etc.
  28. The proponent shall rehabilitate all sites to their natural conditions affected by temporary use during the construction phase at the end of the construction period.
  29. The proponent shall be liable for the correctness and validity of the information furnished by them or their consultants and will provide periodic monitoring reports to the Department as specified in the report.
  30. Proponent shall be liable for compliance of regulations 13, 14, 17 & 18 of IEE/ EIA Regulations 2009, which enunciate the conditions for approval, confirmation of compliance, entry, inspection and monitoring of the proposed project.
  31. Proponent would be responsible to facilitate EPA-AJK teams for any visit for inspection/ monitoring etc.
  32. Any change in the approved project shall be communicated to EPA-AJK and shall be commenced after obtaining the approval.
  33. The approval shall stand null and void if any of the conditions, mentioned herein before, are not fully complied with.

34. This approval does not absolve the proponent of the duty to obtain any other approval or clearance that may be required under any law in force or by any competent forum/ court of law.
35. The proponent should be bound to submit undertaking for acknowledgement that you (proponent) completely understand and will implement the conditions of approval on judicial stamp paper in accordance with the requirements of Clause (2) of Regulation 13 and Schedule VI of "Azad Jammu and Kashmir Environmental Protection Agency Review of Initial Environmental Examination and Environmental impact Assessment Regulations 2009".
36. This approval shall be valid for a period of three years from the date of its issuance under Section 16 of IEE/EIA Regulations, 2009.
37. This Approval can be withdrawn at any time without any prior notice if deemed necessary in the public interest.

## C. Health, Safety & Environmental Incidents

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### a) Summary:

1. The following information regarding incidents of violations or non-compliances has been recorded in the corrective action register. The ESOHS Corrective Action Plan (ESOHS CAP) is updated on daily basis with unsafe acts and conditions having impacts to environment, persons, property, community and reputation.
  - (i) Reported by Department
  - (ii) Hazard Description
  - (iii) Source of finding
  - (iv) Priority
  - (v) Consequence
  - (vi) Unsafe Act/ Unsafe Condition
  - (vii) Description of finding
  - (viii) Action required
  - (ix) Responsibility
  - (x) Target date
  
2. Status of Incidents of violation and non-compliance along with its corrective actions in the form of ESOHS Corrective Action Plan (ESOHS CAP) are attached as “**Exhibit-01**”. The following is the status of ESOHS CAP as of December 31, 2015.

• Total number of observations	895
• Number of Issues closed	880
• Number of Issues In Progress	04
• Number of Issues open	11
• Number of issues on-going	0

The detailed records are presented in **Exhibit-01**.

### b) Environmental Accidents and Mitigation

1. No Environmental major accident has been reported in this quarter. However total of 59 non-compliances in the field of environment were reported and recorded in CAP register attached **Exhibit-01**. The EPC Contractor prepared emergency plan for spill contingency and inducted to the staff for any incident of spill. The EPC Contractor prepared Waste Management Plan for managing waste effectively which are generated by its activities, products and services (collection, handling, transportation, storage, treatment, disposal, records keeping, auditing) and within the requirements of the applicable waste Laws and Regulations. The EPC Contractor also delivered waste management session to camp management staff on the general practices. The EPC contractor prepared Muck Disposal Plan (MDP) for managing safe disposal of the muck generated from Gulpur Hydropower Project.

The plan deals with the wastes identification of the options available for the disposal of the much generated during the project activities. The EPC Contractor according to the plan reused the materials as fill at various activities of the project area in order to ensure compliance to the waste minimization strategy.

2. The EPC Contractor conducted site visual inspections regularly in relevant areas of the Project. The inspections focused on compliance with the ESMP. The inspections played an important role in increasing awareness of ESMP.
3. Minor non-conformances were discussed during the inspection and recorded in CAP. Major non-conformances will be reported as incidents. Inspection results will be disclosed at management meetings

### c) Health and Safety Accidents and Mitigation

1. The summary of accidents encountered from February to December 2015, are as follows;
2. Routine medical examinations were conducted for the newly hired restaurant staff.

Type of incident	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Fatality (FAT)	0	0	0	0	0	0	0	0	0	0	0	0
Loss Time Injury (LTI)	0	0	0	0	0	0	0	0	0	0	0	0
Restricted Work Day Case (RWDC)	0	0	0	0	0	0	0	0	0	0	0	0
Medical Treatment Case (MTC)	0	0	0	0	0	0	0	0	1	0	0	1
First Aid Case (FAC)	1	0	1	0	1	0	0	1	1	1	1	7
Environmental Incident (EI)	0	0	1	0	1	0	0	0	0	1	1	4
Material Lost (ML)	0	0	0	0	0	0	0	0	0	0	0	0
Near Miss Incident (NMI)	3	1	3	2	0	0	1	4	1	1	1	17
Security Incident (SI)	0	0	0	0	0	0	0	0	0	0	0	0
Road Traffic Incident (RTA)	0	0	1	1	1	1	0	0	0	0	0	4
Fire Incident	0	0	0	0	1	0	0	0	0	0	0	1
Unsafe Acts/ Unsafe Condition (UA/UC)	45	103	100	102	74	66	95	87	102	70	51	895

The detailed records are presented in **Exhibit-01**.

### d) Fatality (FAT)

No case of Fatality is reported so far during this reporting period.

**e) Loss Time Injury (LTI)**

There was no loss time injury during the reporting period from February to December 2015. The following is the summary of LTI's during this period:

**f) Restricted Work Day Case (RWDC)**

There was no loss time injury during the reporting period from February to December 2015. The following is the summary of RWDC's during this period:

**g) Medical Treatment Case (MTC)**

Three medical treatment cases were reported during the reporting period in October and December 2015. The following is the summary of MTC's reported during this period:

<b>Date</b>	<b>Description</b>	<b>Status</b>
23-Oct-2015	On 23rd October 2015 after a routine blast inside tunnels at 18:45 hrs shotcrete work was being carried out by Sub-Contractor Sambu workers in tunnel-2. The shotcrete work was delayed because gasket was ruptured between steel pipes junction and the air pressure was not sufficient for shotcrete work. Foreman instructed Helper to open the joint of rubber hose (to connect it directly with shotcrete machine with addition of other rubber hoses) the one end of which was connected with compressor and other with steel pipeline. Helper after turning off the compressor opened the joint between rubber hose and steel pipeline without release of stored air pressure with which the rubber hose hit his upper lip and chin. He was provided emergency rescue in ambulance at site and rushed to District Hospital at Kotli for Medical treatment.	Closed
12-Dec-2016	On 12th December 2016, during a violence activity between workers on issue of using bed and arguments had fight which resulted in the injury of worker. One of the worker was injured who was rushed to the project clinic for first aid and then to DHQ for medical treatment further. Luckily the patient recovered to normal condition & started working when returned back to site.	Closed
13-Dec-2016	On 13 December 2016 three labors manually tried to pick up diesel fuel drums while loading them onto dozer. During the manual loading activity one of the labor finger came under the fuel drum which injured his finger. He was given first aid on the spot using the first aid kit of one of the vehicles there. The injured was quickly shifted to the project clinic. The Paramedic Mr. Hannan Rasheed attended the patient. He gave him basic first aid & referred him to the District Head Quarter Hospital, Kotli, for getting his hand examined with X-rays & further treatment.	Closed

The detailed records are presented in **Exhibit-02**.

**h) First Aid Case (FAC)**

Total number of Seven First Aid Cases were reported during the period from February to December 2015. The following is the summary of FAC's reported during this period:

<b>Date</b>	<b>Description</b>	<b>Status</b>
02-Feb-2015	A workers finger was minor injured where initial medical treatment was done. The worker continued worker was declared fit to work after first aid by Medical Officer	Closed
20-Apr-2015	A worker finger was injured during fall of scaffolds. After complete medical checkup, the patient was declared to be clear of serious injuries. He had bruises and lacerations on the fingers and on shoulder. Patient was stable and conscious during and after treatment. The worker continued worker was declared fit to work after first aid by Medical Officer	Closed
21-Jun-2015	A patient was brought to project clinic where his foot was bruised by using faulty safety shoes. He was given first aid and shoes were declared as not good quality in addition as cause of injury. The worker continued worker was declared fit to work after first aid by Medical Officer	Closed
-Sep-2015	A patient received first aid after a pipe hit his foot. He had swelling on foot for which first aid was given in clinic. He was referred to DHQ Hospital For X Ra. After examination worker was declared fit to work.	Closed
17-Oct-2015	A patient was brought to project clinic. According to patients statement they were doing Routine work at Gulpur Hydro power project .His finger was injured. Medical officer washed his finger with spirit and provided him first aid.	Closed
13-Dec-2015	A patient was brought to project clinic with minor hand injury. His fingers were bruised and swell. He was given medical treatment. Later he was referred to District headquarter hospital for X-ray and Surgical consultation.	Closed

The detailed records are presented in **Exhibit-03**.

#### **i) Environmental Incident (EI)**

The following is the summary of EI's reported during this period:

<b>Date</b>	<b>Description</b>	<b>Status</b>
13th April 2015	Sub-Contractor crawler machine operator during improper refueling spilled oil on soil.	Closed-Spilled cleaned up.
22nd June 2015	Sub-Contractor disposed soil during excavation improperly leading with risk of going into River.	Closed-Soil collected after completion of access tracks and reused during construction.
11th October 2015	Sub-Contractor disposed soil during excavation improperly leading with risk of going into River.	Closed-Soil collected after completion of access tracks and reused during construction.
21st November 2015	Improper and damaged sedimentation ponds leading to contamination of soil near diversion tunnels	Closed-Sedimentation ponds prepared as per design and Good Industrial Practices.

The detailed records are presented in **Exhibit-04**.

**j) Material Lost (ML)**

No such incident reported by Security Department.

**k) Near Miss Incident (NMI)**

The following is the summary of NMI's reported during this period:

<b>Date</b>	<b>Description</b>	<b>Status</b>
02-Feb-2015	The Laborers were working on installing the concrete slabs of boundary wall behind the restaurant area. 3 Laborers, were working on placement of 80Kg concrete slab into the Columns manually. During loading the slabs a hand of worker came in slabs and got injured.	Closed.
05-Feb-2015	Electric power supply line was disconnected when excavator boom touched the electric cable. The incident of 220V electric power supply line disconnection occurred at the construction site of Gulpur Hydropower Project (near Box Culvert Area E: 3288150.15 N: 1035073.62 See-attached pictures) .At time of incident Sub-Contractors were working on the pre-cast concrete pipes movement and relocation between Camp-A and Camp-B.	Closed.
05-Feb-2015	Incident of vehicle slipping after rain reported and investigated.	Closed
10-Mar-2015	After heavy rains, the main access track was reported to have	Closed.
14-Apr-2015	During bridge concrete activity, Sub-Contractors trolley pulley failed which was transporting material to other side and fell in water.	Closed.
20-Apr-2015	Pipes and loaded material fell down and slide after unloading activity in improper way without supervision and instructions. Third party supplier hand was injured minor	Closed
20-Apr-2015	During construction works of building scaffolding pipes came down on worker which were already opened by another worker without informing workers under them. Upon investigation it was found, the scaffolding pipes which fell on worker was already opened by other workers during the day. The persons who were working on the scaffolding were unaware of the pipe being already opened. During the course of opening the already opened pipe fell down on worker. Luckily no serious injuries except first aid.	Closed
05-May-2015	During material disposal activity, local goat came under the disposal point inside the project, which was missed by supervisor and thus got injured. The animals entered into project due to no secure boundaries.	Closed- Proper compensation was done by involving CLO.
10-May-2015	A vehicle with empty fuel drums was following an alternate way when the main road was closed due to blasting activity therein. The vehicle in the narrow way had to slow down due to a water tanker on the same road. Instead of pulling over, the driver unfortunately accelerated the vehicle to hit the right side track where aggregate was stocked. The vehicle turned on its right door. The driver was safe with no injuries. The driver was sent to clinic for inspection, where he was declared medically fit with no injuries.	Closed.
01-Aug-2015	A dumper after unloading the muck at spoil tip "C" was travelling back to the project site. On the Pindi-Kotli road the driver found that his brakes were not working. He tried to stop the dumper, but he	Closed.

	was unsuccessful & finally in order to save other vehicles and a few visitors, he hit the mountain ditch on his right side to stop the dumper movement. It caused damage to the dumper parts but luckily the helper remained safe during the incident.	
09-Sep-2015	Two separate working teams, one at a position above the other, were involved in mucking and excavation during construction of roads, CR-02 and CR-05. A dozer working on CR-05 above the other working dozer at CR-02, was stacking the muck on the edge at height which unfortunately hit the other dozer working down at CR-02. The dozer operator luckily survived the falling muck but the dozer was hit. There was no injuries reported except the material damage to the Dozer.	Closed.
10-Sep-2015	There were fly-rocks generated from a blast at the outlet portal of diversion tunnels, when the sub-contractor company used insufficient number of rubber mats to fully cover all the charged holes.	Closed.
11-Sep-2015	Two excavators were removing the muck material at night when in the absence of site supervisor, the operators started to drop the material directly into river which was polluting the water. The supervisor violated the HSE rules and regulations conveyed to him about his role in the conservation of environment.	Corrective Action was taken by issuing warning notice for violation.
11-Sep-2015	A dumper driven by Helper & not a licensed driver, slowly touched an employee of EPC Contractor, when the employee was walking from office towards his accommodation on the side of the road near the box culvert area. Fortunately, the helper survived without any injuries or pain.	Closed.
13-Oct-2015	A tractor with a toed compressor was driven by a helper. When tractor was in incursion, suddenly it stopped, driver applied break and tried his best to stop tractor but failed in this effort. The tractor and compressor reversed in full speed. Due to stone placed behind the compressor, during reversing, the compressor turned over. Tractor and driver both were safe.	Closed.
11-Nov-2015	One of the camp assistants got minor electrocuted by current in a valve inside laundry room at the Engineer's accommodation. He was trying to turn the valve off as the water was spread all around on the floor.	Closed.
13-Dec-2015	The sub-contractor company's Project Manager was using cellular phone near the blasting area. He was about 35 meters away from the nearest hole being charged. He was quickly forbade from using the Phone & was asked to move outside the charging area, as it was against the safety protocols of blasting.	Closed.

The detailed records for near misses are provided in **Exhibit-05**.

### l) Security Incident (SI)

No security incident occurred during the reporting period.

### m) Road Traffic Accident (RTA)

Total number of four road traffic incidents were reported during the period from February to December 2015. The following is the summary of RTA's reported during this period:

<b>Date</b>	<b>Description</b>	<b>Status</b>
10-May-2015	A third party vehicle after refueling the generator started journey back to petrol pump. Due to blasting activity the vehicle was diverted towards another track which involved turn and slope. During its path the driver avoided hindrance by applying brakes but accelerator was pushed and vehicle turned over on road edge. The driver was safe with no injuries	Closed
01-Aug-2015	A dumper truck driving at speed of 20 while disposing material at spoil tip-C and returning back faced mechanical problems with brakes and thus to avoid further collision with three vehicles parked the vehicle was bumped into side wall of mountain. No serious injuries were reported except first aid was provided at site.	Closed
25-Nov-2015	A project vehicle dumped into stationary dumper during fast reversing. No injuries, except minor damage to vehicle mirrors and body.	Closed

The detailed record for road traffic incidents are provided in **Exhibit-06**.

#### **n) Fire Incident (FI)**

The following is the summary of FI's reported during this period:

<b>Date</b>	<b>Description</b>	<b>Status</b>
29-Jun-2015	During excavation and earth works on Ridge top an excavator caught fire at 23:30hrs. The onsite supervisor and excavator operators extinguished the flames on advice of HS Manager by disposing loose soil on the excavator fire at 23:45hrs. No injuries occurred.	Closed

The detailed record for fire incidents are provided in **Exhibit-07**.

#### **o) Unsafe Acts/ Unsafe Condition (UA/UC)**

The following is the summary of UA/UC's reported during this period:

<b>Date</b>	<b>Description</b>	<b>Status</b>
3-Jun-15	Sub-Contractor (TTC) machines pushed loose excavated material on slope edge which could cause river water contamination.	Closed (Preventive Action has been taken by collecting the disposed material by preparation of access tracks to areas.)
21-Jun-15	Sub-Contractor (SAMBU) machines pushed loose excavated material on slope edge which could cause river water contamination.	Do
13-Jul-15	Sub-Contractor (TTC) machines pushed loose excavated	Do

	material on slope edge which could cause river water contamination.	
10-Sep-15	Sub-Contractor (TTC) machines including excavators on instruction of operators were throwing material on slope area of weir access road which was directly going in the river water.	Do
7-Nov-15	Dumper trucks are parking on the narrow tracks from main gate leading to box culvert which could create blind spots for drivers and passengers creating possibilities for accidents.	The platform for machinery parking shall be in operation from 15th Feb 2016 onwards.
8-Nov-15	Sub-Contractor (Pir & Co) dozer working on the maintenance road was throwing the excavated material down into the river making the water polluted with soil.	Closed (Preventive Action has been taken by collecting the disposed material by preparation of access tracks to areas.)
11-Nov-15	The camp assistant while cleaning the floor of Block L, got minor electrocution by the faulty geyser.	Closed
14-Nov-15	Loose boulders were found on the edge at the ridge point while work was in progress right under them which could cause the falling material and injuring workers	Open (EPC Contractor is working on removing the accessible material stuck on slopes from time to time to reduce the hazard, maximum care safety standards for safety of workers are adopted)
26-Nov-15	Sub-Contractor (TTC) machines were pushing loose excavated material on slope edge that could cause river water contamination.	Closed (Preventive Action has been taken by collecting the disposed material by preparation of access tracks to areas.)
4-Dec-15	EHS officer near the coffer dam construction observed disposal of loose material by machines towards river.	Do
5-Dec-15	A boulder slide down and small material along with it caused increased risk to workers near it.	Open (EPC Contractor is working on removing the accessible material stuck on slopes from time to time to reduce the hazard, maximum care safety standards for safety of workers are adopted)
7-Dec-15	It was observed by HS officer EPC that sub-contractor Sambu welders are not using flash back arrestors with gas cylinders	Open

	and torches.	
17-Dec-15	Electrical cables at CR-0 5 for electrical supply need improvement.	Closed
20-Dec-15	HS officer EPC observed that workers are complaining from peptic disorders.	Open
27-Dec-15	HS officer EPC observed that waste water at diversion tunnels was disposed off without end treatment which could result in River Poonch contamination	Closed

The detailed record Unsafe Acts and Unsafe Conditions are provided in **Exhibit-01**.

## D. Labor Relations and Working Conditions

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### a) Labor relations and Living Conditions for Construction Labor Force

1. As per Company's observation, the Contractor has conducted medical examinations of all appointed for Food handlers. The examination has been conducted based on following parameters; HIV, Hepatitis B&C, Chest X-Ray, blood and Erythrocyte Sedimentation Rate (ESR) test. The results showed absence of any contagious diseases in food handlers.
2. The Contractor has already developed a Social Complaint Register and its availability at the main gate as per ESIA.
3. Keeping in view the Security of the staff, the Contractor issued service cards to its employees.
4. Guard house has been constructed on entrance gate of the Project Site and deputed security guards maintain records of incoming staff, visitors and vehicles.
5. To collect safe drinking water from installed water treatment plant (Reverse Osmosis Plant), workers and vehicles have been deputed to supply chill drinking water to whole Project Site.
6. The Contractor conducted spraying in labor camp and offices, in order to avoid mosquito breeding.
7. The EPC Contractor has ensure that drinking water meets national/local or WHO drinking water standards.
8. The EPC Contractor has ensured that all tanks used for the storage of drinking water are constructed and covered as to prevent water stored therein from becoming polluted or contaminated
9. The EPC Contractor via EHS department has ensured that drinking water quality is regularly monitored
10. The EPC Contractor ensured that specific containers for rubbish collection are provided and emptied on a regular basis
11. The EPC Contractor ensured that Rooms/dormitories are aired and cleaned at regular intervals
12. The EPC Contractor ensured that sanitary facilities are located within the same buildings and provided separately for men and women.
13. The EPC Contractor ensured that Canteens have a reasonable amount of space per worker

14. The EPC Contractor ensured canteens will be adequately furnished. Standards range from providing tables, benches, individual drinking cups and plates to providing special drinking fountains
15. The EPC Contractor ensured that Kitchens are provided with facilities to maintain adequate personal hygiene including a sufficient number of washbasins designated for cleaning hands with clean, running water and materials for hygienic drying.
16. The EPC Contractor ensured that a number of first aid kits adequate to the number of residents are available.
17. The EPC Contractor ensured that First aid kits are adequately stocked. Where possible a 24/7 first aid service/facility is available
18. The EPC Contractor ensured that an adequate number of staff/workers is trained to provide first aid.
19. The EPC Contractor ensured that an appointed person (Camp Officer) with the adequate background and experience is in charge of managing the workers' accommodation
20. The EPC Contractor ensured that Lighting is essential for safe movement through a workplace and lights will therefore be routinely inspected and replaced/repared as necessary. Noise levels were kept as low as possible to enable pedestrians to hear any communications. Special care is taken during maintenance activities to ensure that the required standards relating to environmental considerations (lighting, noise, dust) are maintained

*Figure D-1 Gents Toilet in Offices*



*Figure D-2 Females separate toilets in offices*



**b) Labour Grievances:**

The EPC Contractor EHS department received complaints from the labors and workers and forwarded them to concerned departments for action. The issues related to labor relations and working conditions and other relevant grievances recorded during this period is presented in table.

*Figure D-3 The Table presents details of grievance received to EHS department EPC from workforce*

Ref-No	Date	Name	Grievance	Concerned Department	Action	Status
S-No-1	1-Dec-15	Mr. Niaz Mund	Complain regarding difficulty during sand extraction from project	MPL EHS	Worker was advised to provide alternate job and temporary provided access to gravel site during special timing by EPC Contractor	Closed
S-No-2	7-Dec-15	Mr. Hussan Jhangir	Mis-behave with labor by Engineer	EPC Administration	The issue discussed with Administration and future incidents of similar nature	Closed
S-No-3	13-Nov-15	Mr. Muhammad Azeem	Dismissal from job due to accident occurred during disposal of spoil	EPC Contractor EHS	The Contractor EHS Advisor discussed the issue with Sub-Contractor management and emphasize on retention and training of workers rather than firing from jobs on accidents.	Closed
S-No-4	30-Sep-15	Mr. Inayat Khan	Complaint regarding threat from neighbor local	EPC Contractor Security dept	Security Department was informed on complaint of Mr. Inayat for personal protection which was provided in due time.	Closed
S-No-5	6-Aug-15	Mr. Muhammad Faraan	Dismissal from job without any solid reason	EPC Administration	The Contractor EHS Advisor discussed the issue with Administration Sub-Contractor.	Closed
S-No-6	7-Aug-15	Mr. Idrees	Behavior issue from seniors towards junior	EPC Administration	The Contractor EHS Advisor discussed the issue with EPC Administration Manager on receipt of complaint.	Closed
S-No-7	22-Jun-15	Mr. Engr Abdul Raziq	Hiring issue	EPC Administration & Sub-Contractor PM	The Contractor EHS Advisor discussed the issue with Management and advised for giving priority as per ESIA	Closed
S-No-8	25-Jun-15	Mr. Tanveer Mansoor	No issuance of attendance card	EPC Administration	The Contractor EHS Advisor discussed with Restaurant Owner for complaint.	Closed

S-No-9	28-Jun-15	Mr. Muhammad Ayaz	Ignorance in job.	EPC Administration & Sub-Contractors PM	The Contractor EHS Advisor discussed the issue with Management and advised for giving priority as per ESIA	Closed
S-No-10	27-Jul-15	Mr. Shoukat Iqbal	Pipe line agreement contract	EPC Management	During pipeline laying for water supply Mr. Shoukat an immediate local presented interest in business opportunity which was granted in shape of restaurant contract to AP(Affected Person)	Closed
S-No-11	29-Jul-15	Mr. Jaffir Hussain	Driving in community	EPC Contractor HSE / Administration	Complain was received and timely action was taken by EPC Contractor for prevention of similar situations.	Closed
S-No-12	9-Apr-15	Mr. Younas	Security violation	EPC Contractor HSE / Administration	An EPC Contractor driver on violating the rules of security was advised to care in future.	Closed

The detailed record for Labor complaints are provided in **Exhibit-08**.

## E. Training & Capacity

### a) Environmental & Social Trainings

The EPC Contractor ensured that Personnel undergo basic environmental, social, safety, and health and safety trainings according to the specific job requirements. They shall be trained and qualified in the key elements of the job including documentation requirements such as, policies, plans, procedures and instructions etc. For every function, a job description with a specific training requirement is available with EPC Contractor. Training topics were updated at regular intervals whenever required or if new training was required e.g. new processes, new methods arises. Personnel carrying out training were qualified for the purpose and had the relevant skills and experience.

The database of trainings conducted during this period is presented in **Exhibit-09**.

S-No	Date	Topic	Attendees	Duration	Notes
1.	3-Jan-15	Blasting initiation ,charging and blasting	19	60	
2.	29-Jan-15	Blasting Safe Operating Procedures	9	30	
3.	1-Feb-15	Deep cleaning of Restaurant	7	45	
4.	2-Feb-15	Environmental Awareness and Sensitivity of Project	6	30	
5.	14-Feb-15	Explosive loading procedure, priming and handling	16	45	
6.	15-Feb-15	Use of Personal Protective Equipment	12	30	
7.	15-Feb-15	Environmental awareness	10	35	
8.	15-Feb-15	Manual handling , Personal Protective Equipment, and environmental awareness	12	60	
9.	15-Feb-15	Personal Protective Equipment training	18	30	
10.	19-Feb-15	Electrical hazards	7	30	
11.	19-Feb-15	Manual handling , common injuries , and Personal Protective Equipment requirements	9	105	
12.	19-Feb-15	Charging & blasting	9	45	
13.	28-Feb-15	Proper use of Personal Protective Equipment	24	45	
14.	28-Feb-15	Housekeeping proper place of material		30	
15.	28-Feb-15	Manual handling how to carry weight and how handle it	23	45	
16.	2-Mar-15	Induction training	13	30	
17.	15-Mar-15	House keeping	10	30	
18.	31-Mar-15	Permit to work & incident reporting	13	45	
19.	10-Apr-15	Training on tunnels HSE Plan	29	30	
20.	10-May-15	Confined space hazards, prevention and controls	5	80	
21.	14 Apr 15	Environmental awareness	10	30	
22.	31-May-15	How to do hot work activities	25	45	
23.	13-Jun-15	Blasting activities	1	35	
24.	4-Jul-15	Welding & lifting	16	60	
25.	31-Jul-15	Training of dumper drivers about over speed	15	30	

26.	15-Aug-15	Health & hygiene housekeeping floors , glasses water	19	60	
27.	4-Oct-15	Blasting & charging technical and safe operating procedures	5	30	
28.	10-Oct-15	Health & Hygiene	3	45	
29.	11-Oct-15	Manual Handling	222	30	
30.	2-Nov-15	Manual handling	16	25	
31.	2-Nov-15	Scaffold Erection	3	45	
32.	9-Nov-15	Dressing , housekeeping , no smoking & cleaning	22	30	
33.	10-Nov-15	Charging and blasting	7	20	
34.	23-Nov-15	Health & Hygiene	20	45	
35.	24-Nov-15	Above driving safety "Use seat belt"	13	45	
36.	25-Nov-15	About welding cutting hazards. How to use fire extinguisher. Electric cables.	9	30	
37.	25-Nov-15	Unsafe acts and unsafe condition reporting , National Park importance , Toolbox Importance	14	40	
38.	25-Nov-15	Food waste management	16	25	
39.	26-Nov-15	Deep cleaning	16	45	
40.	27-Nov-15	Welding & cutting	9	60	
41.	27-Nov-15	Manual Handling	15	30	
42.	28-Nov-15	Cooking, food safety	17	20	
43.	29-Nov-15	First Aid Training-1	24	45	
44.	29-Nov-15	First Aid Training-2	6	30	
45.	29-Nov-15	Fire Fighting i.e. Use of fire Extinguisher	33	40	
46.	29-Nov-15	Hot work permit, firefighting, blasting activity manual handling, work at height.	7	60	
47.	29-Nov-15	Blasting activity firefighting use of extinguisher	11	45	
48.	29-Nov-15	Work at height	33	30	
49.	2-Dec-15	Third party training about explosive & blasting	22	90	
50.	2-Dec-15	Environment awareness	16	30	

Some photographic record of trainings conducted during the reporting period are presented below and training agenda is attached as **"Exhibit-09"**.



Figure E-1 Pragmatic session on use of oil spill kit for workers



Figure E-2 Toolbox discussion at Diversion Tunnels



Figure E-3 Practical training session on Fire Fighting



Figure E-5 Training on " Safe Use of slings during lifting work"



Figure E-4 Group discussion on Job Safety Analysis for Construction work



Figure E-6 Training session on " Tunnel Safety on Diversion Tunnels HSE Plan"



Figure E-7 Induction Session for new employees



Figure E-8 Training session on First Aid to workers



Figure E-9 Training session on "Lesson learn from accidents"



Figure E-10 Training session on dumper tip over safety protocols



Figure E-11 Training session to Restaurant staff on "Health and Hygiene topic"



Figure E-12 Training on Medical First Aid to Restaurant staff



Figure E-13 Training session on Job Safety Analysis of Tunnels



Figure E-14 Training session to EHS staff on ESMS and Plans



Figure E-15 Training session to blasting staff on "Blasting Protocols" by Third Party



Figure E-16 View of Management commitment in daily toolbox meeting



Figure E-17 Training session for safe lifting operation

Figure E-18 World Environment Day Celebrations and Motivational movement by EPC Contractor Management



**b) HSE Briefing/Toolbox Talk:**

1. The EPC Contractor and their Sub-Contractors conducted weekly Toolbox Talks with the workforce. EHS Advisor EPC Contractor required a written record for the Toolbox Talks held from project staff who conducted them along with the safety topics given on every session. The implementation of toolbox talks was performed via immediate supervisors and engineers. The EPC Contractor above the requirements conducted daily toolboxes for day and night shift workforce.
2. Tool Box Talks consist of a 10-20 minutes safety session on site, held early morning. Sub-contractors and immediate front line supervisors of the workers concerned shall actively participate in the toolbox talks. The EPC Contractor provided the topics for tool box talks in their weekly and monthly EHS reports. The purpose of the Toolbox Talk is to ensure:
  - All personnel on site receive regular safety induction and instruction of the hazard exposed to them while performing their task.
  - To educate and inform all workers on the current safety and health issues at the workplace.
  - Front line supervisors are made to learn the contents of talks and appreciate their own responsibility for safety and health.
  - To seek feedback from the workforce about safety hazards faced during their activities.
  - Meeting should provide employees with the opportunity to ask questions and suggestions for improvements shall be encouraged
3. The EPC Contractor delivered total of 1329 toolbox talks to staff during the reporting period. The distribution is described below.

- i. The Contractor conducted 78 tool box talks in February, 60 in March, 99 April, 98 May, 109 June, 103 July, 122 August, 113 September, 147 October, 183 November and 217 in December 2015. The toolbox talk manual is attached as **“Exhibit-06”**.
- ii. Keeping in view the established procedures of Environmental and Social Management System (ESMS), the Employer has placed UA/UC Card in Site Office for creating awareness about Health and Safety inside the office employees.

The photographic section shows toolbox event at various toolbox grounds at Gulpur Hydropower Project.

*Figure E-19 View of EPC Contractor Higher management during Toolbox meeting*



*Figure E-20 View of daily toolbox meeting at Batching Plant Area*



*Figure E-21 Project Manager EPC Contractor briefing and distributing awards on EHS*



*Figure E-22 Job Specific Training before blasting Toolbox*



Figure E-23 View of Daily Toolbox November 2015



Figure E-24 Chanting daily slogans for Environment & Safety



View of toolbox meeting at Diversion Tunnels

View of EHS briefing during toolbox talks

The database of toolbox talks conducted during this reporting period is presented in **Exhibit- 10.**

S-No	Month	Topic	Attendees (Average)	Duration	Notes
1	February 2015	<ul style="list-style-type: none"> <li>• No Interaction Message with Communities</li> <li>• Work at Height Safety</li> <li>• Welding Safety</li> <li>• Excavation Safety</li> <li>• PPE Use and Importance Of PPE</li> <li>• Restricted Areas</li> <li>• Smoking Hazard</li> <li>• How to Clean Hands</li> <li>• Health &amp; Hygiene</li> <li>• Housekeeping at Site</li> <li>• Cleaning</li> </ul>	78	10-15 Min each Toolbox	



		<ul style="list-style-type: none"> <li>• Slip, Trip Hazards</li> <li>• Emergency Response</li> <li>• Fire Fighting</li> <li>• Traffic Safety During Rain</li> <li>• Don't Use the Local Routes Without Community Permission</li> <li>• Refueling Methods, Usage Of Dip Trays</li> <li>• Waste Management Practices</li> <li>• Electrical Hazard During Rain</li> <li>• Usage Of PPE And Importance Of PPE</li> <li>• Walking on The Pedestrians Tracks</li> <li>• Traffic Control Specially Reversing</li> <li>• Importance and Information Of Permit To Work</li> <li>• Speed Limits in Community Areas</li> <li>• Safe and Clean Drinking Water</li> <li>• Food Safety and Hygiene</li> <li>• Hand Wash before Meal</li> <li>• Safe Driving Procedure in Rainy and Muddy Conditions</li> <li>• Manual Handling</li> <li>• Carefully Walk</li> <li>• Slip Trip Hazard During Rain</li> <li>• Emergency Situation and Consequences</li> <li>• Excavation Safety</li> </ul>			
2	March 2015	<ul style="list-style-type: none"> <li>• Respect and Care</li> <li>• Avoidance of Violence</li> <li>• Scaffolding Hazard</li> <li>• Falling objects</li> <li>• Slip Hazard during Rain</li> <li>• Trip Hazard due to Poor Housekeeping</li> <li>• T- Card System</li> <li>• Health And Hygiene</li> <li>• Slow Driving</li> <li>• Scaffolding Installation as per OSHA Standards</li> <li>• Safe Behavior Management Techniques</li> <li>• Sliding</li> <li>• Respected and Tolerance to Effected Communities</li> <li>• Hand Wash for Killing Germs</li> <li>• Manual Handling Techniques</li> <li>• Proper Usage of PPE</li> <li>• Seasonal Dieses</li> <li>• Community Care</li> <li>• Blasting Protocols</li> <li>• Unauthorized Personnel In Blasting Area</li> <li>• Smoking At Designated Places</li> <li>• Manual Handling Technique</li> <li>• Prohibition of Passing Through Short Cut</li> <li>• No Interaction with Local Community</li> </ul>		10-15 Min each Toolbox	



		<ul style="list-style-type: none"> <li>• Health and Hygiene , Clean Drinking Water</li> <li>• Restricted Areas And PPE</li> <li>• Waste Management Plan, Scaffold And PPE</li> <li>• Environmental Awareness</li> <li>• Waste Management</li> <li>• Malaria Awareness</li> <li>• Manual Handling Techniques</li> <li>• Proper Usage Of PPE</li> <li>• No Interaction with Local Communities</li> <li>• Restricted Areas and Associate Hazard</li> <li>• Health and Hygiene</li> <li>• Safety Precautions</li> <li>• Awareness about Safety Signs</li> <li>• Traffic Management</li> <li>• Dust Hazard and Prevention</li> <li>• Trip Hazard Due to Poor Housekeeping</li> <li>• Risk Assessments and How to Implementing Control Measure</li> <li>• Signal Man with Dumpers and Roads</li> <li>• Safe Procedure of Lifting Operation</li> <li>• HSE Manager Educate all Labors to Correct Use of Gloves</li> <li>• Welding and Cutting Safety</li> <li>• Coordination Among all Teams</li> </ul>			
3	April 2015	<ul style="list-style-type: none"> <li>• Housekeeping</li> <li>• Health and Hygiene</li> <li>• Proper Use of Gloves and Their Importance</li> <li>• Manual Handling Techniques</li> <li>• Hazards Related to Improper Lifting Methods</li> <li>• Scaffolding Safety.</li> <li>• Parking of Machinery Outside of Sliding Area</li> <li>• Use of PPE To Avoid Snake Bite</li> <li>• Identification of Underground Power Cables During Excavation</li> <li>• Provision of JSA</li> <li>• Traffic Control</li> <li>• Overhead Power Lines</li> <li>• Signalmen</li> <li>• Use of Fire Extinguishers</li> <li>• Safe Procedure</li> <li>• Waste Management System</li> <li>• Noise Effect</li> <li>• Overloading</li> <li>• Use of Toilets</li> <li>• Slip Hazards</li> <li>• Harmful Insects And Animals</li> </ul>		10-15 Min each Toolbox	



		<ul style="list-style-type: none"> <li>• Install Lifeline to Make Abutment Concrete</li> <li>• Exposed Parts Should Be Covered With Safe Guard</li> <li>• Sliding Area</li> <li>• Falling Objects</li> <li>• PPE Especially Dust Masks And Safety Shoes To Avoid Skin And Eye Irritation Caused By Cement Dust</li> <li>• Drinking Water At Site</li> <li>• Safe Distance From Excavator</li> <li>• Housekeeping</li> <li>• Speed Limit</li> <li>• PPE In Toolbox Meeting</li> <li>• Permit Before Carrying Out Any Critical Activity</li> <li>• Make Proper Platform By Installing Planks</li> <li>• Collect Spilled Soil From Workshop Area</li> <li>• Clean Drinking Water Provided</li> <li>• Install a Ladder Inside Trench</li> <li>• Falling Object Hazard</li> <li>• PPE to Avoid Struck By Hazard of Machinery</li> <li>• Hazard of Falling Material</li> <li>• Terrorists Attack on Hydropower</li> <li>• Behavior Safety and Respect</li> <li>• Blasting Protocols</li> <li>• Landslide Hazards</li> <li>• Non Compliances</li> <li>• Overloading</li> <li>• Traffic Safety</li> <li>• Water Sprinkling</li> <li>• Welding Safety</li> <li>• Safety Equipment</li> <li>• Signalmen</li> <li>• Keep the Working Site Clean and Tidy</li> <li>• Sliding</li> <li>• Toolbox Meeting Timing</li> <li>• Barricading of Areas and Its Importance</li> <li>• Educate The Workers</li> <li>• Housekeeping and Keeping The Environment Clean</li> <li>• Accidents In other Hydropower Projects</li> <li>• Proper Use of Toilets Was Shown</li> <li>• Over Speeding</li> <li>• Timing of Toolbox and Its Importance</li> <li>• Safety Concerns Regarding the Scaffolding</li> <li>• HSE Rules and Regulations</li> <li>• Watchman during Welding Job</li> <li>• Usage of Personal Protective Equipment</li> </ul>			
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		<ul style="list-style-type: none"> <li>• Aware of the Activities at Night</li> <li>• Good Leadership and role in safety</li> <li>• Snake And Scorpions Presence</li> <li>• Good Coordination Among Workers</li> <li>• Medical And Health</li> <li>• Falling Hazards</li> <li>• Environmental Awareness</li> <li>• Hazards Working Without Proper PPE</li> <li>• Hazards of Rash Driving</li> <li>• Security Emergency Situation Handling Measures</li> </ul>			
4	May 2015	<ul style="list-style-type: none"> <li>• Incident Investigation, Photographs are Not Allowed After Incident</li> <li>• Waste Management</li> <li>• Under Age Workers are Not Allowed</li> <li>• Behavior Safety</li> <li>• Signal Man, Helper With Heavy Equipment, Driving License Is Necessary</li> <li>• Supervisor/ Site Engineers Are Responsible</li> <li>• Good Behavior With Local Community</li> <li>• Helper And Drivers PPE</li> <li>• Mechanical Inspection of Vehicles Before The Entry At Project Site</li> <li>• Welding Cutting Safety</li> <li>• Blasting Safety</li> <li>• Usage of Gloves During Electric Work</li> <li>• Helpers And Signal Man Presence In Toolbox Meeting</li> <li>• Mobile Phone is Not Allowed Within 100 Meters During Blasting Activity</li> <li>• Importance of National Park</li> <li>• Housekeeping at Work Site</li> <li>• Usage of Life Jackets Near River</li> <li>• Strictly Prohibited to Cross River With Rope</li> <li>• Waste Material From Bridge Area</li> <li>• Material Should Be Proper Stacked for Avoid Trip Hazard</li> <li>• Usage of Full Body Harness Near River</li> <li>• Avoid Hanging Community Houses</li> <li>• Speed Limit 20 KMPH</li> <li>• Supervisor Should Bring All People for Trainings</li> <li>• Workers Are Not Allowed Without Slippers</li> <li>• Unsafe Conditions</li> <li>• Snakes</li> <li>• Sub-Contractor TTC Should Provide PPE To All Workers</li> <li>• Proper Platform As Per Standards</li> </ul>		10-15 Min each Toolbox	



		<ul style="list-style-type: none"> <li>• Supervisor is equally Responsible for safety</li> <li>• Importance Of Safety</li> <li>• All Subcontractors Should Provide PPE To All Workers</li> <li>• Walkways</li> <li>• Distance Between Loaded Dumpers</li> <li>• Smoking is Not Allowed, Smoking Stands</li> <li>• Drinking Water from Mess</li> <li>• Dehydration</li> <li>• Waste Management</li> <li>• Using Life Jackets Near River</li> <li>• Dumper Drivers and Helper</li> <li>• Installation of Ice Plant For Cool Water</li> <li>• PPE Dumper Driver and Helpers</li> <li>• Work At Height</li> <li>• PPE ( Reflector Jacket, Safety Shoes, Gloves, Mask And Helmet)</li> <li>• Excavation Safety</li> <li>• Waste Collection</li> <li>• Crane Operation/Lifting Operation</li> <li>• PPE Are Mandatory</li> <li>• Slip Trip Hazard</li> <li>• Snake Bite</li> <li>• Work at Height</li> <li>• Blasting Protocols</li> <li>• Drinking Water at Site for Workers</li> <li>• Blame Culture</li> <li>• Care to Avoid Snake Bite Safety</li> <li>• Avoid the Swimming in The River</li> <li>• Nobody Should Stand Under the Slopes</li> <li>• Without PPE No One Is Allowed At Site</li> <li>• Work at Height, Scaffold</li> <li>• Importance Of Full Body Harness at Height</li> <li>• Hazard Identification by Smelling, Hearing, Seeing And Touching.</li> <li>• PPE During Grinding Activity</li> <li>• Safe Guards</li> <li>• Water Sprinkling for Controlling Dust</li> <li>• Killing of Animals Are Not Allowed</li> <li>• Housekeeping of All Site Areas</li> <li>• Bridge Construction Safety</li> <li>• Safety is Everyone Responsibility</li> <li>• Work at Height, Safety Harness</li> <li>• Usage Of PPE</li> <li>• Parking of Machinery</li> <li>• Drinking Water</li> <li>• Light Vehicles are Not Allowed At Construction Area</li> <li>• Restricted Area, No Entry of Unauthorized</li> </ul>			
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		<ul style="list-style-type: none"> <li>Personnel</li> <li>• Scaffold</li> <li>• Drainage System</li> <li>• Inspection of Dumpers</li> <li>• Signal Man</li> <li>• Waste Management</li> <li>• Health and Hygiene</li> <li>• Environment</li> <li>• Cleaning Of Accommodation</li> <li>• Hygienic Condition</li> <li>• Excavation Safety</li> <li>• Proper Platform</li> <li>• Electric Safety</li> <li>• Electric Panel</li> <li>• Traffic Control</li> <li>• Community Influence</li> </ul>			
5	June 2015	<ul style="list-style-type: none"> <li>• Awareness About Hazards</li> <li>• Falling Objects</li> <li>• Dust Issues</li> <li>• Driving Safety</li> <li>• Incident Reporting</li> <li>• Security Emergency Situations Handling Measures</li> <li>• Importance Of PPE</li> <li>• Proper Use Of Toilets</li> <li>• Good Leadership</li> <li>• Snake Bites</li> <li>• National Park</li> <li>• Waste Collection System</li> <li>• Environmental Pollution</li> <li>• Housekeeping Of Site Areas</li> <li>• Speed Limits</li> <li>• Reporting About Presence Of Animals</li> <li>• Platform For Work At Height</li> <li>• Health And Hygiene</li> <li>• Cleanness In Kitchen</li> <li>• Smoking Is Not Allowed Inside The Accommodation</li> <li>• Smoking Zone</li> <li>• Induction For New Workers</li> <li>• Waste Collection</li> <li>• TBM Is Importance For Everyone</li> <li>• Safety Harness At Height</li> <li>• Signal Man</li> <li>• Traffic Control, Speed Limit</li> <li>• Stones Falling From The Dumpers</li> <li>• Safety Gloves At Workshop</li> <li>• Reflector Jackets At Night</li> <li>• Health</li> <li>• Cleanliness Of Kitchen</li> <li>• Availability &amp; Donning Of PPE</li> </ul>		10-15 Min each Toolbox	



		<ul style="list-style-type: none"> <li>• Snake Bite Safety</li> <li>• First Aid</li> <li>• Heavy Equipment Safety</li> <li>• Blasting Protocols</li> <li>• Scaffold As Recommended by the OSHA.</li> <li>• PPE</li> <li>• Mechanical Inspection Of All Heavy Equipment</li> <li>• Detrimental Effect of Spelt Diesel Oil on Environment &amp; Health. They Were Asked To Rectify Such Leakages</li> <li>• Driving Safety</li> <li>• Don't Use Abusive Language</li> <li>• Respect</li> <li>• Sub-Contractor Sambu's Machinery safety</li> <li>• Don't Joke During Work</li> <li>• Mechanical And Electrical Inspection</li> <li>• Fire Extinguisher</li> <li>• Management ShOuld Do Mechanical And Electrical Inspection</li> <li>• Blasting Protocols</li> <li>• Don't Use Shortcuts</li> <li>• Don't Use Open Toilets</li> <li>• Over Speeding</li> <li>• Don't Use Wrong Turns</li> <li>• Traffic Safety</li> </ul>			
6	July 2015	<ul style="list-style-type: none"> <li>• Sub-Contractor Sambu's Excavator Accident lesson learn</li> <li>• Fire Extinguisher</li> <li>• Electrical Inspection</li> <li>• Mechanical And Electrical Inspection</li> <li>• Safe Blasting Procedure</li> <li>• Explosive And Blast Mats</li> <li>• Over Speeding</li> <li>• Traffic Safety</li> <li>• Blasting Protocols</li> <li>• Miss Hole Procedure</li> <li>• PPE</li> <li>• TBM Awareness</li> <li>• Dumper Helpers</li> <li>• Loading And Unloading Safety</li> <li>• Permit To Work System</li> <li>• Hot Work, Welding And Cutting</li> <li>• Electrical Work</li> <li>• Crane Operation</li> <li>• PASS Method</li> <li>• Usage Of Fire Extinguisher</li> <li>• Lose Material</li> <li>• Electrical Department Is Requested To Check All Wires On Daily Basis</li> <li>• Risk Assessment</li> </ul>		10-15 Min each Toolbox	



		<ul style="list-style-type: none"> <li>• Slip Trip Hazards</li> <li>• Work At Height</li> <li>• Induction For New Comers</li> <li>• Blasting Protocols</li> <li>• Housekeeping</li> <li>• Waste Management System</li> <li>• Risk Assessment</li> <li>• Safety Measure During Lifting Operation</li> <li>• PPE</li> <li>• Emergency Contacts Numbers</li> <li>• Chemical Handling</li> <li>• Housekeeping</li> <li>• Safety Harness</li> <li>• Safe Work Procedure</li> <li>• Transportation</li> <li>• Water Cooler At Site</li> <li>• Loose Material</li> <li>• Locals Respect</li> <li>• Vehicle Park Safety</li> <li>• Lifting Operation</li> <li>• Housekeeping</li> <li>• Work At Height</li> <li>• Blasting Protocols</li> <li>• PTW System</li> <li>• Rain Safety</li> <li>• Electrical Safety</li> <li>• Risk Assessment</li> <li>• Behavior Safety</li> <li>• Dip Trays</li> <li>• Heavy Equipment</li> <li>• Oil Spillage</li> <li>• Excavation Safety</li> <li>• Road Traffic Safety</li> <li>• Safe Work System</li> <li>• Importance Of TBM</li> <li>• Health Topic</li> <li>• Flammable Materials</li> <li>• Falling Objects At</li> <li>• Safety Harness</li> <li>• PPE</li> <li>• Regular Tool Box Meeting</li> <li>• Regular Tool Box Meeting</li> <li>• Avoiding Falling Object Hazard</li> <li>• Blasting Protocols</li> <li>• Defense Driving</li> <li>• Loose Material</li> <li>• Manual Handling</li> <li>• Slip Trip Fall</li> <li>• HSE Procedure</li> <li>• PPE</li> <li>• Flying Objects</li> </ul>			
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		<ul style="list-style-type: none"> <li>• Risk Assessments</li> <li>• Land Sliding</li> </ul>			
7	August 2015	<ul style="list-style-type: none"> <li>• Land Sliding</li> <li>• Face Mask</li> <li>• Dip Trays</li> <li>• Mechanical Inspection</li> <li>• Electric Safety</li> <li>• Environment Safety</li> <li>• Importance Of PPE</li> <li>• Land Sliding</li> <li>• Rock Falling</li> <li>• Dark Places at Night.</li> <li>• Safe From Fire Hazard</li> <li>• Office Safety</li> <li>• Oil Leakage</li> <li>• Drilling And Blasting</li> <li>• Noise And Vibration Safety</li> <li>• Drinking Water</li> <li>• Life Jackets</li> <li>• Falling Down</li> <li>• Sliding</li> <li>• Falling Object Hazard</li> <li>• Material Safety</li> <li>• Flying Object Hazard.</li> <li>• PPE</li> <li>• Land Sliding At The CR-1</li> <li>• Good Housekeeping</li> <li>• Use Proper PPE</li> <li>• TBM Timing And Importance</li> <li>• Designated Smoking Areas</li> <li>• Work At Height</li> <li>• Scaffold As Per OSHA Standard</li> <li>• Fall from Height</li> <li>• Fire Hazard</li> <li>• Designated Points For Smoking</li> <li>• Importance National Park Of Pakistan</li> <li>• Species Of Fishes</li> <li>• Taking Care Of The Water And The Environment</li> <li>• Waste Management</li> <li>• Oil Spills</li> <li>• Fire Extinguisher Types</li> <li>• Tunnels Safety</li> <li>• Shotcrete Safety</li> <li>• Safety Protocols</li> <li>• Importance Of Environmental Health &amp; Safety</li> <li>• Information About A Recent Road Side Accident Outside The Project</li> </ul>		10-15 Min each Toolbox	
8	September 2015	<ul style="list-style-type: none"> <li>• Health &amp; Hygiene</li> <li>• Malaria &amp; Dengue</li> </ul>		10-15 Min each	



		<ul style="list-style-type: none"> <li>• Importance Of Safety Culture</li> <li>• Drilling And Blasting</li> <li>• Behavior Based Safety.</li> <li>• Tolerance &amp; Professionalism</li> <li>• HSE Behavior.</li> <li>• Importance Of The Daily Toolbox Meeting</li> <li>• Training Of Workers.</li> <li>• HSE Protocols</li> <li>• Safe Work Practices</li> <li>• Cleanliness &amp; Proper Dispose Of Waste Is Of Prime Importance</li> <li>• HSE Protocols &amp; Will Ensure The Protection Of Environment</li> <li>• Team Work &amp; Effective Communication Is Necessary For Efficient Performance</li> <li>• Hazard Of Fire</li> <li>• Fire Extinguishers</li> <li>• Unsafe Condition</li> <li>• Muster Point</li> <li>• Unsafe Act</li> <li>• New Comer Should Be Trained &amp; Inducted</li> <li>• Trained Labor For Blasting Team</li> <li>• Safe Movement Of Dumpers</li> <li>• Traffic Control And Traffic Safety</li> <li>• Pedestrians</li> <li>• Requirements For Driver</li> <li>• Crane Operation</li> <li>• Safe Storage &amp; Handling Of Cooking Gas Cylinder</li> <li>• Flammable Gas</li> <li>• Lack Of Awareness Among The Kitchen Staff</li> <li>• Poor Ventilation Inside Kitchen</li> <li>• Explosives Should Be Stored Properly In A Magazine Maintained</li> <li>• Gas Cylinders Should Be Stored</li> <li>• Using Gas Cylinders Either For Cooking Or Gas Welding</li> <li>• Driving Safety &amp; Campaign Against Malaria</li> <li>• Land Sliding Safety</li> <li>• Job Nature Are Discussed &amp; The Related Hazards Are Mitigated Or Eliminated Through Discussions</li> <li>• The River Poonch Importance</li> <li>• Manual Handling</li> <li>• Housekeeping</li> <li>• Fall Of Boulders From Loaded Dumpers</li> <li>• PPE</li> <li>• Life Jackets</li> </ul>		Toolbox	
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		<ul style="list-style-type: none"> <li>• Safe Blasting Procedures</li> <li>• Training Of New Comers</li> <li>• Personnel Were Told About The Hazards Of H2s, Sox, Nox, Cox &amp; Dust Inside Tunnels</li> <li>• Water Sprinkling</li> <li>• Blasting Protocols</li> <li>• Electrical Safety</li> <li>• Electric Shock</li> <li>• Housekeeping</li> <li>• Drilling</li> <li>• Mucking</li> <li>• Excavation</li> <li>• Blasting</li> <li>• Shotcrete Particles</li> <li>• Fire Extinguisher.</li> <li>• Job Safety Analysis (JSA)</li> <li>• PPE</li> <li>• Hot Work</li> <li>•</li> </ul>			
9	October 2015	<ul style="list-style-type: none"> <li>• Identify Safety Related Issues</li> <li>• Unsafe Condition</li> <li>• Safe Work Practices</li> <li>• Good Housekeeping At Site</li> <li>• Hazard Of Land Sliding</li> <li>• The Importance Of PPE</li> <li>• Falling Objects</li> <li>• Electrical Safety</li> <li>• Chemicals Safety</li> <li>• Safe Lifting Operation</li> <li>• Detrimental Effect Of Toxic Chemical</li> <li>• Storage Of Such Chemicals</li> <li>• Help Each Other</li> <li>• Waste Bins</li> <li>• Hazard Of Fire</li> <li>• Oil Spill Kits</li> <li>• Unauthorized Persons Are Not Allowed To Enter In Charging Area</li> <li>• Compressor's Pipe</li> <li>• Housekeeping &amp; Cleanliness</li> <li>• Good Housekeeping</li> <li>• Welding &amp; Cutting</li> <li>• Importance &amp; Nature Of The Project</li> <li>• Smoking Cigarettes</li> <li>• Manual Handling Procedure &amp; Safe Stacking Of Material</li> <li>• Environment Protection</li> <li>• Safe Use Of Hand Tools &amp; Injuries With Damaged Tools</li> <li>• Safe Blasting</li> <li>• Dust</li> </ul>		10-15 Min each Toolbox	



		<ul style="list-style-type: none"> <li>• Falling Objects</li> <li>• Cutting &amp; Welding</li> <li>• The Hazards Of Fire, Electrocutation, Burning &amp; Other Physical &amp; Health Hazards</li> <li>• PPE &amp; Using Proper PPE As Per The Nature Of Work.</li> <li>• Life Jackets Near River</li> <li>• Spoil Tip</li> <li>• Unsafe Acts</li> <li>• Shifting Of Heavy Loads</li> <li>• The Safety Measures</li> <li>• Lifting Operation</li> <li>• Hot Work</li> <li>• Dust Allergy</li> <li>• Unsafe Acts And Conditions</li> <li>• Work At Height</li> <li>• Hazard Of Drowning</li> <li>• PPE importance</li> <li>• Signal Men</li> <li>• Co2</li> <li>• Electrical Equipment Should Be Pre-Checked</li> <li>• Oil Spill Kits</li> <li>• National Park Importance</li> <li>• Confined Space Entry Permit</li> <li>• Safe &amp; Recommended Method Of Using Of PPE</li> <li>• HSE Induction</li> <li>• Housekeeping</li> <li>• Tripping</li> <li>• Falling Rock Materiel</li> <li>• Electric Hazard And Safety</li> <li>• Hazard Of Electrocutation</li> <li>• PPE For Electrical Safety</li> <li>• National Park</li> <li>• Flame Inside Residence</li> <li>• Good Coordination Between Workers &amp; Supervisors &amp; Effective Communication</li> <li>• The Benefits Of Tight Clothing At Site</li> <li>• Roles &amp; Responsibilities &amp; Should Cooperate With Hse Department</li> <li>• Chemicals Or Germs &amp; Bacteria</li> <li>• Falling Hazard</li> <li>• Compressor Incident</li> <li>• Electrocutation From Hanging Electrical Wires</li> <li>• Falling Objects Hazard</li> <li>• Rock Fall On The Road</li> <li>• Shotcrete</li> <li>• Slip, Trip &amp; Fall</li> </ul>			
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		<ul style="list-style-type: none"> <li>• Importance Of HSE Induction</li> <li>• Work Site Clean &amp; Presentable</li> <li>• The Tools Stacked Properly At Their Designated Places &amp; The Equipment At Safe Distance</li> <li>• Housekeeping</li> <li>• Electrical Charge in Equipment.</li> <li>• Confined Space Is Hazardous</li> <li>• Chemicals</li> <li>• Drilling</li> <li>• Hazards Associated With Mobile Crane &amp; Forklift</li> <li>• Responsibilities Regarding Health, Safety &amp; Environment</li> </ul>			
10	November 2015	<ul style="list-style-type: none"> <li>• Incident/ Accident Emergency</li> <li>• First Aid Kits</li> <li>• Hot Work Such As Cutting, Welding, Drilling &amp; Grinding</li> <li>• Emergency Response &amp; Hazard Reporting</li> <li>• Falling Object</li> <li>• National Park</li> <li>• Traffic Control</li> <li>• Signal Men</li> <li>• Heavy Equipment Safety Measures</li> <li>• Lighting Quality</li> <li>• Equipment Should Be Properly Grounded</li> <li>• Fumes Dust</li> <li>• Lungs Function</li> <li>• Incident Investigation &amp; Behavior Based Safety</li> <li>• Coordination &amp; Communication At Work.</li> <li>• Respirators Especially During Mucking</li> <li>• Immediately After Blasting</li> <li>• Incident Investigation &amp; Its Significance.</li> <li>• Reporting Of Incidents &amp; Accidents</li> <li>• Fire Prevention</li> <li>• Cox</li> <li>• Incident Reporting &amp; Investigation</li> <li>• Falling Objects</li> <li>• Safe Driving At Site.</li> <li>• Electrical Wiring &amp; The Deadly Consequences Of Electrocution</li> <li>• Importance Of Using Oil Spill Kits &amp; Dip Trays While Handling, Transporting Or Filling Of Fuels</li> <li>• Importance Of Attending The Daily Toolbox Meeting</li> <li>• Carbon-Mono-Oxide</li> <li>• Manual Handling</li> <li>• Disposal &amp; Dumping</li> <li>• As Cutting, Welding, Drilling &amp; Grinding</li> </ul>		10-15 Min each Toolbox	



		<ul style="list-style-type: none"> <li>• About Emergency Response &amp; Hazard Reporting.</li> <li>• Oil Spillage</li> <li>• Falling Object</li> <li>• Misbehavior &amp; Abuse</li> <li>• National Park.</li> <li>• Housekeeping</li> <li>• Driving Rules And Regulations</li> <li>• Electric Safety</li> <li>• Housekeeping</li> <li>• Equipment Should Be Properly Grounded</li> <li>• Mucking Scaling</li> <li>• Fire Hazard &amp; The Locations Which Were At Risk From Such Hazard</li> <li>• Fire Extinguishers</li> <li>• Incident Investigation &amp; Behavior Based Safety</li> <li>• Unauthorized Persons</li> <li>• Crane Operation Safety And Required Safety Protocols</li> <li>• Firefighting &amp; The Method Of Using Fire Extinguishers</li> <li>• Types Of Work Permits</li> <li>• Environment</li> <li>• The Importance Of Coordination &amp; Communication At Work</li> </ul>			
11	December 2015	<ul style="list-style-type: none"> <li>• Housekeeping &amp; Conservation Of Environment</li> <li>• Permit For Performing Work At Site</li> <li>• Safety Culture At Site</li> <li>• Good Coordination Among The Working Parties At Site</li> <li>• Usage Of Status Board</li> <li>• Record Keeping</li> <li>• Good Coordination Among Them &amp; The Signalman</li> <li>• Safety Protocols Of Performing Hot Work</li> <li>• Significance Of National Park &amp; Prevention Of Pollution In Any Of Its Kinds</li> <li>• Hse Protocols For Work At Height</li> <li>• Housekeeping &amp; Cold Stress.</li> <li>• Good Coordination &amp; Mutual Respect Among The Personnel At Site</li> <li>• Safe Procedure For Work At Tunnels</li> <li>• Unsafe Acts, Unsafe Conditions &amp; Near-Misses</li> <li>• Signalmen</li> <li>• Significance Of National Park</li> <li>• Lessons To Be Learnt From The Near-Misses &amp; Incidents</li> </ul>		10-15 Min each Toolbox	



		<ul style="list-style-type: none"> <li>• Lessons To Be Learnt From The Near-Misses &amp; Incidents</li> <li>• Safety Precautions</li> <li>• Responsible Behavior</li> <li>• Oil Spills On The Ground At Site</li> <li>• Smoking Areas</li> <li>• Irresponsible Behavior</li> <li>• Non-Professional Behavior Had A Negative Impact On A Productive Working Environment</li> <li>• Behavioral Based Safety</li> <li>• Hazards Of Land Slide</li> <li>• Muster Point</li> <li>• Hazard Communication &amp; Hazardous Material</li> <li>• Importance Of PPE At Site</li> <li>• Winter Diseases</li> <li>• Training The Newly Joined Workers</li> <li>• The Personnel Behavior &amp; Blood Pressure Control</li> <li>• Use Good Quality Cables &amp; Electrical Appliances At Worksite</li> <li>• Trenches &amp; Temporarily Mothballed Equipment</li> <li>• Sub-Contractors TTC &amp; P&amp;C were Informed about the Responsibilities Of Higher Managements</li> <li>• Administration Should Facilitate The Workers</li> <li>• Blasting Procedures</li> <li>• Prepare Proper Job Safety Analysis</li> <li>• Waste Management &amp; Conservation of Environment.</li> <li>• The Basic Rights Of Workers</li> <li>• Safe Work Place</li> <li>• Safe Machinery Or Equipment</li> <li>• Maintaining Better Coordination &amp; Communication Between The Two Sub-Contractor Companies Working</li> <li>• Responsibilities Of The Signalmen &amp; The Foremen</li> <li>• About Noise &amp; Its Impact On Hearing Sensation</li> <li>• Falling Objects</li> <li>• Falling Objects</li> <li>• Responsibilities Of Helpers, Watchmen &amp; Signalmen</li> <li>• Firefighting Drill Was Conducted During The Toolbox</li> <li>• About PPE Compliance At Tunnels.</li> <li>• Hazards Associated with The Movement Of Buckets Of Charging Car.</li> </ul>			
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		<ul style="list-style-type: none"> <li>• Roles &amp; Responsibilities of Supervisors, Signalmen, Watchmen &amp; Helpers</li> <li>• Risk Free Workplace</li> <li>• About Vehicle Movement &amp; Transportation Safety</li> <li>• Muster Point</li> <li>• Waste Management &amp; Environment Conservation</li> <li>• Environment Clean By Disposing Of The Waste Properly Into the Designated Bins</li> <li>• Importance Of Housekeeping &amp; Proper Arrangement</li> <li>• Health &amp; Hygiene &amp; Protection Against Cold Weather</li> <li>• Fire Incident</li> <li>• Possible Causes of The Fire</li> <li>• Employer’s Responsibilities &amp; the Rights Of Workers</li> <li>• Fire Safety &amp; Sharp Objects Hazards</li> <li>• The Hazards of Slip, Trip &amp; Fall At Tunnels Portal</li> <li>• Loose Boulders on The Sloppy Areas</li> <li>• Environment Protection</li> <li>• Hazard Communication &amp; Hazardous Material at Site</li> <li>• Supervisor’s Role &amp; Responsibility in Maintaining A Good Safety Culture</li> <li>• Muster Point</li> <li>• Respiratory Equipment Inside Tunnels &amp; Wearing Masks at Tunnels Portal</li> <li>• Importance of Coordination &amp; Communication between Workers &amp; Supervisors</li> <li>• Medical Evacuation Drill Conducted</li> <li>• Workers Instructed about the Recommended Emergency Evacuation Procedure</li> </ul>			
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Figure E-25 Hazard Observation card box



**c) Emergency Drills and Practices:**

- i. The EPC contractor prepared Emergency and Contingency Plan for construction work. In order to deal with emergencies and contingencies regular practices and drills were conducted. In this regard Hazards with less residual risks were categorized and decided to be control with emergency response plan with understanding that regular practice and drills were decided to provide better response.
- ii. The basic purpose of these drills were to train on-site personnel to carry out the correct response to an emergency condition.
- iii. The below table presents details of drills conducted by Contractor.

<b>S-No</b>	<b>Date</b>	<b>Topic</b>	<b>Attendees</b>	<b>Duration(Min)</b>
1.	08 July 2015	Fire Drill	5	12
2.	28 August 2015	Fire Drill	15	10
3.	11 November 2015	Fire Drill & Training Session	120	15
4.	27 December 2015	Medevac drill	12	30

Some reports and photographic record of the conducted during the reporting period are presented in the **Exhibit-11**.

## F. Stakeholder Engagement and CSR Activities

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### a) Stakeholders Engagement

Various stakeholders are engaged through corresponding organizations in place at the project as agreed. On matters related to BAP Implementation a separate report shall be produced by implementing agency. An external agency shall be hired for verification of requirements envisaged in LARP. Others in the plans, MPL is engaged with all stakeholders including community around the project. An ongoing consultation process is already in place at the project.

### b) Details of consultations

1. A Community Complaint Register (CCR) is placed at the entrance gate of the Site along with the sign board to communicate its location. All complaints in CCR have been addressed and resolved for developing good relations with the nearby community.
2. Efforts have been made by the Company by the Contractor in developing good relations with the nearby communities by providing jobs to locals and utilizing them in business e.g. restaurant services contract provided to affected person on merit basis.
3. Company's community liaison officers are in closed coordination with community of the project surroundings. Verbal complaints are also received and recorded.
4. As a standard practice, the Contractor checks the CCR on daily basis. Additionally, the Company checks the register regularly to ensure smooth functioning of Construction period.
5. Company is promoting community relations as all emerged community complaints and pending complaints are being addressed by MPL CLO.
6. Local employment has been created to enhance the local employment and community relations.
7. MPL also involved local contractor to construct damaged bridge near Kotli .As CSR activity, Construction of bridge for community access at the location near Kotli is in progress.
8. As part of obligations of Environmental NOC, the MPL has participated and donated amount in annual plantation by encouraging the EPC Contractor for similar CSR involvement.
9. On the instruction of MPL the EPC Contractor donated the demolished housing materials to immediate neighbors of the project as CSR activity.
10. The EPC Contractor donated spoil material at community approved spoil tip areas by disposing them after permission from MPL & relevant departments.

11. All community complaints recorded are logged in CCR is presented in **Exhibit – 18.**

**c) CSR Planning and Activities**

**1. MPL CSR Policy:**

MPL is committed to ensuring, so far as reasonably practicable, the health, safety and welfare of all the employees, development of the community, protection of environment and positive contribution to the society. The integrity, sound values and a LONG TERM approach offers clear business benefits to the company and the community which creates a win-win situation for both parties. This includes the activities pertaining to:

- Responsibilities towards environment
- Responsibilities towards community development
- Responsibilities towards the health and safety of the workers

**2. Projects CSR Expectations:**

Project's CSR expectations are NOT decided alone by MPL management but it has to be developed in consultation with following project partners:

- Project Sponsors
- Project Lenders
- Environmental Regulators (AJK EPA)
- NGOs and Conservation Groups
- Civil Society Organizations
- Local Community

A transparent process and an agreed plan is required to be submitted for approval from Lenders. This is not a mandatory legal requirement but is a volunteer actions taken by Mira Power.

**3. Community Development Planning Process**

- i. Survey conducted to cover three major aspects:
  - a. Basic profile
    - Basic information
    - Family structure
    - Existing educational attainment

- Assets
- b. Livelihood Profile
  - Professions and businesses existing within the area
  - River Dependence
  - Institutional and infrastructural support
- c. Expectations and aspirations
  - Aspirations for future generations
  - Expectations from the plant
  - Needs assessment
- ii. The survey process was conducted over a period of 4 weeks in which about 300 households were surveyed and 8 villages in which at least one AP resided were profiled.
  - Most people aspired to a higher standard of living than they are currently accustomed to in the area
  - Due to the resettlement compensation, a number of APs have emigrated to other cities and in some cases the UK
  - Health and medical facilities turned out to be a major source of dissatisfaction in certain villages due to lack of access and inadequacy of those facilities that can be accessed
  - A lot of people expect employment and electricity from the plant
  - Key findings and proposed interventions have been accessed with community through focus group discussions
  - Following areas of interventions have been identified:
    - Education
    - Health
    - Infrastructure
    - Training and Skills
    - Employment
  - A draft CSR plan has been submitted to Lenders for Inputs
  - A draft plan will be submitted to AJK-EPA for review after inputs from project lenders
  - An agreed will be submitted to lenders for the approval
  - The approved plan along with timelines will be submitted to EPA and the same will be implemented



#### 4. Interventions:

- i. The interventions will be judged on the following criteria:
  - a) Purpose of the intervention
  - b) Duration of intervention
  - c) Impact of intervention
  - d) Scale of intervention
  - e) Inputs required
  - f) Stakeholders in the intervention
- ii. The scale will be determined by MPL and which will consequently result in the inputs and stakeholders involved
- iii. Following interventions have been proposed in consultation with stakeholders:
  - Land Management Capacity Building
  - Crop Diversification Awareness Raising
  - Vocational Trainings
  - Employment Agency /Linkages
  - Market access
  - Enterprise Development Centers
  - Educational Infrastructure
  - Technical trainings
  - Health Infrastructure
  - Clinic and Medical Camps
  - Filtration plant
  - Bridges and River Crossings
  - Temporary employment with the project

### 5. CSR Activities Undertaken:

KOSEP contributed PKR 1 Million to Gulpur Hydropower Project through Mira Power Limited to support its stakeholders engagement program and extends its support to flood victims of project area and AJ&K. Of this amount, PKR 3 Lac was delivered to district administration Kotli as contribution in AJ&K fund for flood victims, PKR 3 Lac has been allocated for community to repair the existing chairlift which was damaged during recent floods and Household items worth PKR 4 Lac including blankets and grocery were distributed to affected and vulnerable persons.



### 6. MPL Volunteers took part in 150th Vision Care Eye Camp

Keeping in mind the corporate responsibility MIRA POWER Limited has always stepped ahead. MPL loves to work for the society where its working and always have the consideration to work for the marginalized people. For the same reason MPL has joined hands with Vision Care who hold their 150th Eye Camp in Khanpur from 27th February till 1st March 2014. The volunteers of MPL joined hands with the team of profession who arrived from Korea under the umbrella of Vision Care and help the poor. These volunteers traveled to the distance to help those poor and feel very excited to be part of this great work. Volunteers help in translation, organizing the clients, and assisting the eye specialists.



## 7. International Day for Biological Diversity 2015

Department of Wildlife & Fisheries AJ&K in collaboration with Mira Power Limited hosted a seminar on International Day for Biological Diversity to increase the global understanding and awareness of issues and challenges around biodiversity. The theme of World Biodiversity day for 2015 was 'Biodiversity for Sustainable Development'. This year's theme reflects the importance of efforts made at all levels to establish a set of Sustainable Development Goals (SDGs) as part of the United Nations Post-2015 Development Agenda for the period of 2015-2030 and the relevance of biodiversity for the achievement of sustainable development.



## 8. Humanitarian Assistance to IDPs of North Waziristan

MPL is committed to play a role in providing humanitarian assistance in times of crisis at local, regional and global scales. The internally displaced persons (IDPs) of North Waziristan, who left their houses due to the on-going military operations, consisting of women and children, needed help instantly. To show solidarity, the Company donated a contribution of an amount of PKR 500 thousands to the emergency relief efforts of Government to help the immediate needs of victims.



**9. Other CSR Activities:**

Celebrated World Environment Day with AJK – EPA.

**10. Financial Contribution Made For National Plantation Campaign**

Government of AJK is currently carrying out a plantation campaign across the region in memory of the Victims of Peshawar (Shuhda-e-Peshawar), Schools incident on December 16, 2014. Different public and private sector organizations are participating in the proposed noble cause. A letter through AJK EPA was also received at MPL in this regard ref: P&DD/EPA/438155/2015 dated 26-01-2015. In response to this letter MPL coordinated with EPA and informed that no such activities were anticipated by company under our CSR budget. However the Company has an existing budget taken in the Gulpur Project cost in response to a commitment made in the Environmental Management Plan (EMP) of the project subsequently confirmed by the conditional approval of the Environmental Protection Agency (EPA). Therefore the EPA has submitted another letter on the subject matter referring the specific condition upon request by the company ref: P&DD/EPA/513-21/2015 dated 11-02-2015.

We understand that this is an appropriate time to invest the budgeted amount. The forest department plans to establish a 30 acre “Planting Closure” near our project within our watershed. The estimated expenditures, communicated by DFO was PKR 630,000 (Six hundred and thirty thousands) of which the company shall contribute a 50 % (PKR 315,000) of the total estimated cost. The payment shall be made through a cheque in the name of Secretary Forest, AKLASCE Azad Government of Jammu & Kashmir

## G. Project Monitoring and Compliance

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### a) Introduction:

1. Environmental Management and Monitoring Plan (EMMP) is the synthesis of all proposed mitigate and monitoring actions, set to a timeline with specific responsibility assigned and follow-up actions defined”
2. Thus, it acts as a tool which provides assurance of implementing the Project activities in an Environment friendly manner.
3. The EPC Contractor reported Environmental Social Management Plan (ESMP) / Environmental Management Plan (EMP) after incorporating updated status of Environmental Sampling of drinking water, surface water and waste water quality and noise level. Also, the quantification of generated Solid Waste has been included in update ESMP/EMP, attached as “**Exhibit-12**”.
4. MPL and EPC Contractor devised the way of implementing EMP by conducting periodic Audits, Inspections and walkabouts. In order to track the level of implementation of Audits and Inspections, MPL and the Contractor has formally signed the ESOHS Corrective Action Plan (ESOHS CAP). The Contractor has provided timeframes for completion of actions in various ESOHS weekly meetings held on Site and clearly identified responsibilities for implementation across all parties.
5. In order to reduce soil erosion, culverts have been constructed on the Camp-A entrance and along various locations of the project such as temporary access roads. It helps to reduce the soil erosion as well as speed of rain water falling in the tailrace channel.
6. On the recommendations of Lenders, the Contractor in order to maintain a proper drainage and reduce soil erosion protection of the area adopted measures. Proper drainage system for joint restaurant both behind and in-front to drain water.
7. Catch pits to receive water from offices are prepared according to the peak flow of rainfall during the monsoon season.
8. On the recommendations of Lenders, main drainage system for Camp-B is prepared to control the water and maintain the flow of the water.
9. To reduce soil erosion alongside the tail race channel coble and boulders have been placed, after placing geo-textile layer of non-woven fabrication at the interface of gravel.

### b) Recommendations

1. As per Lenders recommendation a local contractor has been hired from Barali for the transportation and disposal of non-recyclable waste at Kotli Municipality approved site. The contractor has started services from May 05, 2015 and collecting all the waste from dumping pit also for its safe disposal.

2. In order to eliminate the tripping and falling hazard at project site, housekeeping has been ensured by managing the same kind of items at same place and it is a continuous activity. More over in order to avoid falling hazard permanent guard railing has been installed along the stairs in the office building of power house
3. As per MPL recommendation different kinds of bare minimum procedures are developed for better understanding, and implementation of health safety and environment system as “**Exhibit 17**”. All incidents are reported accordingly.
4. As per MPL recommendation smoking area has been designated outside the office, power house and Labor camp.
5. As per MPL recommendation management involvement during risk assessment has been initiated including higher management of EPC Contractor.
6. As per MPL recommendation frequency of blasting inspection has been increased from weekly to daily basis.
7. As per Lenders recommendation community complaint record included in monthly report if reported and summary of complaints attached as “**Exhibit 18**”.

**c) Monitoring of ESMMP:**

1. The monitoring in accordance with the Environmental and Social Monitoring and Management Plan (ESMMP) of the projects ESIA was undertaken during this reporting period.
2. The status of various aspects as identified in ESMMP is presented below:

**i. Soil Quality**

The EPC Contractor conducted visual inspections for any oil and lubricant spills and leakages in the construction area and presence of oil in the drains at the construction site on daily basis during routine EHS visit to construction areas. Non compliances were issued to concerned parties for generating the non-compliances. The EPC Contractor avoided the spills scenario by using drums with refueling pumps and dip trays for avoiding major spill by transportation with Tankers.

The EPC Contractor ensured the generator areas are well contained with cement containment and providing oil spill emergency equipment in case of spills for response. The EPC Contractor is in process of inducting the staff regarding Spill Contingency Plan.

The EPC Contractor try to ensure that impact be minimized by adopting mitigation measures and extra caution during refueling and machinery maintenance at on site workshops. The EPC Contractor reported the environmental non compliances in weekly and monthly EHS reports as per EMMP.

The records are presented in **Exhibit-16**.

<b>S. No.</b>	<b>Date</b>	<b>Description of Incident</b>	<b>Action</b>	<b>Status</b>
1.	12-Apr-2015	The EPC Contractor during routine visual inspection of work site observed hydraulic spill at Construction road-01.	The EPC Contractor HSE department issued official notice to Sub-Contractors and notified to immediately clean spill as per agreed procedures and provide emergency spill kits with machines.	Closed
2.	25-Jun-2015	The Contractor during routine visual inspection of work area observed leakages of oil from machinery	The EPC Contractor HSE department issued official notice to Sub-Contractors and notified to immediately clean spill as per agreed procedures and provide emergency spill kits with machines.	Closed

## **ii. Soil Erosion**

The EPC Contractor conducted Visual inspection of soil erosion and land sliding. Non compliances generated were discussed with the concerned parties. Non-Conformance reports were generated for environmental impacts arisen during construction works. EPC Contractor HSE department was involved in a timely manner for identification of hazards. The EPC Contractor adopted Slope stabilization measures such as adequate vertical and horizontal drains, drainage along roadsides, cross drainage and retaining walls which can be seen in **Exhibit-16**. Slope movement were monitored during the construction work in addition to erosion for safety measures.

The EPC Contractor reported the environmental non compliances related to erosion in weekly and monthly EHS reports as per EMMP.

No such major incident of soil erosion occurred during the reporting period.

The records are presented in **Exhibit-16**.

## **iii. Waste Generation and Management**

The EPC Contractor conducted waste stream identification for the construction activities and domestic usages. Waste minimization strategies are identified in the Waste Management Plan which includes material elimination, inventory control and management, material substitution, reduction in the consumption of natural resources, process modification, and improved housekeeping. The Inspection of waste disposal areas and channels is conducted on weekly basis as required in the ESMMP is and sometimes conducted on regular basis.

The records for various types of waste generated during this reporting period are presented in **Exhibit-16**.

The EPC Contractor Wastewater treatment system is made to ensure that the effluents during construction comply with NEQS standards and the conditions of lenders. The EPC Contractor avoided direct releases of the camp effluents into the water channels by adopting the system of septic tanks and sewerage tanks. Separate sewerage system plan were developed for both camps A & Camp-B and implemented accordingly. EPC Contractor EHS monitored the sewerage pit and in case of any seepages or damages reports to construction department for immediate repairs.

*Figure G-1 Soakage Pit Camp-B*



*Figure G-2 Soakage pit Camp-B*



*Figure G-3 Soakage Pit Camp-A*



*Figure G-4 Soakage pit in Camp-A*



The Contractor has quantified produced Solid waste for the months of February to December 2015. Different types of waste produced at site are as follows;

**February 2015:**

**General Waste:**

<i>Type</i>	<i>No. of solid waste generated</i>	<i>Total weight of generated waste (Kg)</i>
Plastic (Batching Plant Area)	3270	3270
Offices	2	2
<b>Total</b>	<b>3272</b>	<b>3272 (Kg)</b>

**Food Waste:**

<i>Description</i>	<i>Food (m3)</i>	<i>Total Waste (m3)</i>
Korean Accommodation	1.6	1.6
Joint Restaurant	23	23
Offices (having food services)	1.10	1.10
Others	1.00	1.00
<b>Sub Total</b>	<b>26.7</b>	<b>26.7</b>
<b>Total</b>		<b>26.7(Kg)</b>

**Metal Waste:**

<i>Type</i>	<i>No. of solid waste generated</i>	<i>Total weight of generated waste (Kg)</i>
Plastic (Batching Plant Area)	3270	3270
Offices	1	1
<b>Total</b>	<b>1</b>	<b>3271 (Kg)</b>

**Oil Waste:**

<i>Type</i>	<i>No. of oil waste generated</i>	<i>Total weight of generated waste (Liters)</i>
Plastic (Batching Plant Area)	1 Drum	200
GEN room1	1 Drum	200
<b>Total</b>	<b>2</b>	<b>400</b>

**September 2015:**
General Waste:

<i>Type</i>	<i>No. of solid waste generated</i>	<i>Total weight of generated waste (Kg)</i>
Plastic (Batching Plant Area)	2	2
Offices	0	0
<b>Total</b>	<b>2</b>	<b>2 (Kg)</b>

**Food Waste:**

<i>Description</i>	<i>Food (m3)</i>	<i>Total Waste (m3)</i>
Korean Accommodation	2.17m3	2.17m3
Joint Restaurant	28.00	28.00
Offices (having food services)	1.40	1.40
Others	1.30	1.30
<b>Sub Total</b>	<b>31</b>	<b>31</b>
<b>Total</b>	<b>31m3</b>	<b>31m3</b>

**Metal Waste:**

<i>Type</i>	<i>No. of solid waste generated</i>	<i>Total weight of generated waste (Kg)</i>
Plastic (Batching Plant Area)	1	1
Offices	0	0
<b>Total</b>	<b>1</b>	<b>1 (Kg)</b>

**Oil Waste:**

<i>Type</i>	<i>No. of oil waste generated</i>	<i>Total weight of generated waste (litres)</i>
Plastic (Batching Plant Area)	0	0
GEN room1	0	0
<b>Total</b>	<b>0</b>	<b>0</b>

**October 2015:**
**General Waste:**

<i>Type</i>	<i>No. of solid waste generated</i>	<i>Total weight of generated waste (Kg)</i>
Plastic (Batching Plant Area)	3	3
Offices	0	0
<b>Total</b>	<b>3</b>	<b>3 (Kg)</b>

**Food Waste:**

<i>Description</i>	<i>Food (m3)</i>	<i>Total Waste (m3)</i>
Korean Accommodation	2.60	2.60
Joint Restaurant	26.00	26.00
Offices (having food services)	1.70	1.70
Others	1.60	1.60
<b>Sub Total</b>	<b>32</b>	<b>32</b>
<b>Total</b>		<b>32 (m3)</b>

**Metal Waste:**

<i>Type</i>	<i>No. of solid waste generated</i>	<i>Total weight of generated waste (Kg)</i>
Plastic (Batching Plant Area)	1	1
Offices	0	0
<b>Total</b>	<b>1</b>	<b>1 (Kg)</b>

**Oil Waste:**

<i>Type</i>	<i>No. of oil waste generated</i>	<i>Total weight of generated waste (litres)</i>
Plastic (Batching Plant Area)	0	0
GEN room1	0	0
<b>Total</b>	<b>0</b>	<b>0</b>

**November 2015:**
**General Waste:**

<i>Type</i>	<i>No. of solid waste generated</i>	<i>Total weight of generated waste (Kg)</i>
Plastic (Batching Plant Area)	3	3
Offices	0	0
<b>Total</b>	<b>3</b>	<b>3 (Kg)</b>

**Food Waste:**

<i>Description</i>	<i>Food (m3)</i>	<i>Total Waste (m3)</i>
Korean Accommodation	2.56	2.56
Joint Restaurant	25.00	25.00
Offices (having food services)	1.10	1.10
Others	1.20	1.20
<b>Sub Total</b>	<b>30</b>	<b>30</b>
<b>Total</b>	<b>30 (m3)</b>	

**Metal Waste:**

<i>Type</i>	<i>No. of solid waste generated</i>	<i>Total weight of generated waste (Kg)</i>
Plastic (Batching Plant Area)	1	1
Offices	0	0
<b>Total</b>	<b>1</b>	<b>1 (Kg)</b>

**Oil Waste:**

<i>Type</i>	<i>No. of oil waste generated</i>	<i>Total weight of generated waste (litres)</i>
Plastic (Batching Plant Area)	3 drums	600
GEN room1	0	0
<b>Total</b>	<b>3</b>	<b>600</b>

**December 2015:**
**General Waste:**

<i>Type</i>	<i>No. of solid waste generated</i>	<i>Total weight of generated waste (Kg)</i>
Plastic (Batching Plant Area)	2	2
Offices	0	0
<b>Total</b>	<b>2</b>	<b>2 (Kg)</b>

Food Waste:

<i>Description</i>	<i>Food (m3)</i>	<i>Total Waste (m3)</i>
Korean Accommodation	1.70	1.70
Joint Restaurant	22.00	22.00
Offices (having food services)	1.10	1.10
Others	1.20	1.20
<b>Sub Total</b>	<b>26</b>	<b>26</b>
<b>Total</b>	<b>26m3</b>	<b>26m3</b>

Metal Waste:

<i>Type</i>	<i>No. of solid waste generated</i>	<i>Total weight of generated waste (Kg)</i>
Plastic (Batching Plant Area)	1	1
Offices	0	0
<b>Total</b>	<b>1</b>	<b>1 (Kg)</b>

Oil Waste:

<i>Type</i>	<i>No. of oil waste generated</i>	<i>Total weight of generated waste (Kg)</i>
Plastic (Batching Plant Area)	1 drum	200
GEN room1	0	0
<b>Total</b>	<b>1</b>	<b>1</b>

*Note: The waste data for months of February to August 2016 was not maintained. The EPC Contractor had two year NOC at Municipal waste disposal area Kotli City from Government.*

The records are presented in **Exhibit-16**.

#### **iv. Fugitive Dust Emissions**

The EPC Contractor ensure that new equipment and vehicles in good working condition are brought to work and low emission levels will be used. A visual check were performed when the equipment is mobilized and periodically later to screen out equipment and vehicles that emit unacceptable levels of smoke

The Inspection of fugitive dust emissions at social receptors in case any complaints regarding excessive particulate matter in ambient air.is conducted on receipt of complaint as required in the ESMMP but so far no such compliant from locals or any other source has arisen which may result in such monitoring.

The EPC Contractor ensured that water sprinkling is conducted on daily basis over the project to avoid dust generation from the access tracks and project construction activities. Water is sprinkled on unpaved Project roads in dry weather for fugitive dust control. EPC Contractor ensured that grading operation be avoided when the wind speed exceeds higher levels. The EPC Contractor over the project ensured that speed limits and defensive driving policies are strictly implemented and appropriate controls as per traffic management plans are implemented. The EPC Contractor ensured that Batching plants and associated machinery are installed with suitable dust control arrangements.

No written complaint has been received so far during the reporting period.

The records are presented in **Exhibit-12**.

#### **v. Vehicular and Machinery Exhaust Emissions**

The EPC Contractor ensured that equipment and vehicles in good working condition and low emission levels are observed. A visual check was performed when the equipment is mobilized and periodically later to screen out equipment and vehicles that emit unacceptable levels of smoke. The Inspection of Visual checks of exhaust emissions from vehicles and batching plant machinery to ensure excess pollutants releases is conducted on monthly basis as required in the ESMMP. The EPC Contractor ensured that regular maintenance and service of vehicles and equipment will be conducted. No such complaints have been forwarded to EPC Contractor or CLO MPL in this regard.

The records are presented in **Exhibit-16**.

**vi. Noise and vibration**

1. The EPC Contractor placed all stationary noise generating equipment such as air compressors and power generators at least 200 m away from the residential area to avoid any nuisance.
2. Mitigation measures were taken during blasting activity if threshold values are exceeded then adjusting the distances for the equipment on the basis of monitoring report.
3. The EPC Contractor placed a preventive maintenance procedure for Project vehicles and equipment set and followed which prevented noise levels from deteriorating with use.
4. The EPC Contractor provided Personal Protective Equipment (PPE), i.e. ear muffs and plugs, to reduce noise impact on personnel if any.
5. Noise prone activities are avoided during night time.
6. Samples for noise monitoring have been collected, during the blasting activities after blasting and it was ensured that communities are at safe distance from the extreme levels.
7. The test results are compared with the Pak NEQS and IFC guide lines, and all results found satisfactory within the limits. The comparison of test results against NEQS and IFC.
8. Provision of necessary safety and personal protective equipment such as ear plugs, ear muffs etc. are ensured at high noise area like tunnels excavation areas.
9. Excavators and all heavy machines are lubricated in a routine matter to minimize the noise and to increase the life of equipment.
10. The EPC Contractor used specific blasting plans, correct charging procedures and blasting ratios, delayed / micro-delayed or electronic detonators, and specific in-situ blasting tests
11. Blast mats and good stemming was ensured by visual inspection prior to blasting to avoid noise levels.
12. The records are presented in **Exhibit-12**.

S. No.	Date	Description of Complaint	Action	Status
1	29-Nov-2015	According to complaint excessive noise levels during blasting is observed while the local (M. Abid , H Aziz , Akhtar Hussain & Muhammad Ashraf (Rehmani Mohallah) Barali)	The EPC Contractor EHS department notified Mining Department EPC about the concern while the said issue was resolved.	Completed as no noise complaint was received during next 30 days.

**vii. Traffic**

1. The Inspection of Random speed checks and inspections and investigations in case of complaints by community is conducted on monthly basis or incase if

complaint is received as required in the ESMMP. The EPC Contractor as per Traffic Management Plan (TMP) conducted surveillance within the project and took immediate actions upon receipt of the complaints.

2. The EPC Contractor's vehicle follow strict speed limits within city and all applicable local traffic rules and regulations imposed by National Highway Authority (NHA) especially near sensitive receptors (schools, hospital, mosques, etc).
3. Over speeding will be subject to disciplinary actions.
4. The EPC Contractor followed only designated routes as agreed with MPL in order to avoid disturbances. The EPC Contractor during muck disposal followed the Traffic Management Plan and Muck Disposal Plan agreed instructions and rules. Signal men were displayed at appropriate locations to avoid traffic congestions.
5. Contractor's vehicles and equipment are parked at identified designated area in both Camp-A and Camp-B
6. Traffic signals and signs were displayed all over project to manage the traffic and traffic instructions were displayed in local language to make proper understandings.
7. Vehicle maintenance work are parked only in designated workshops.

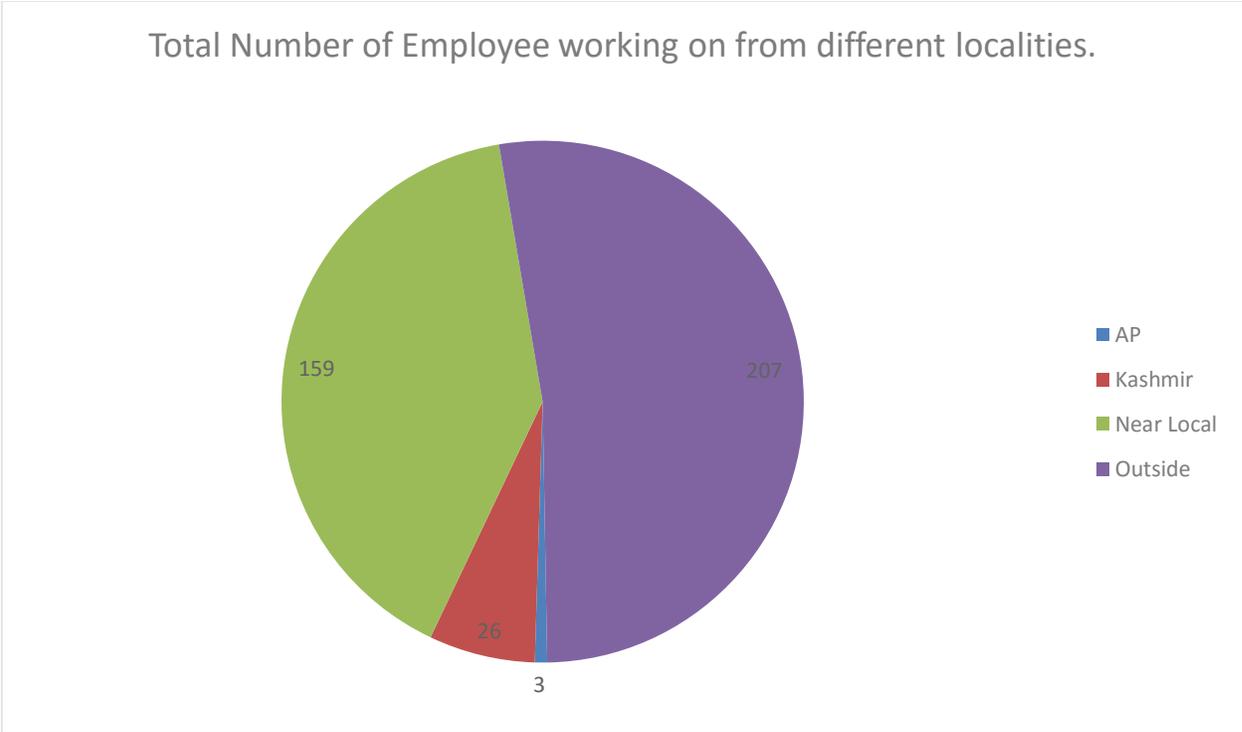
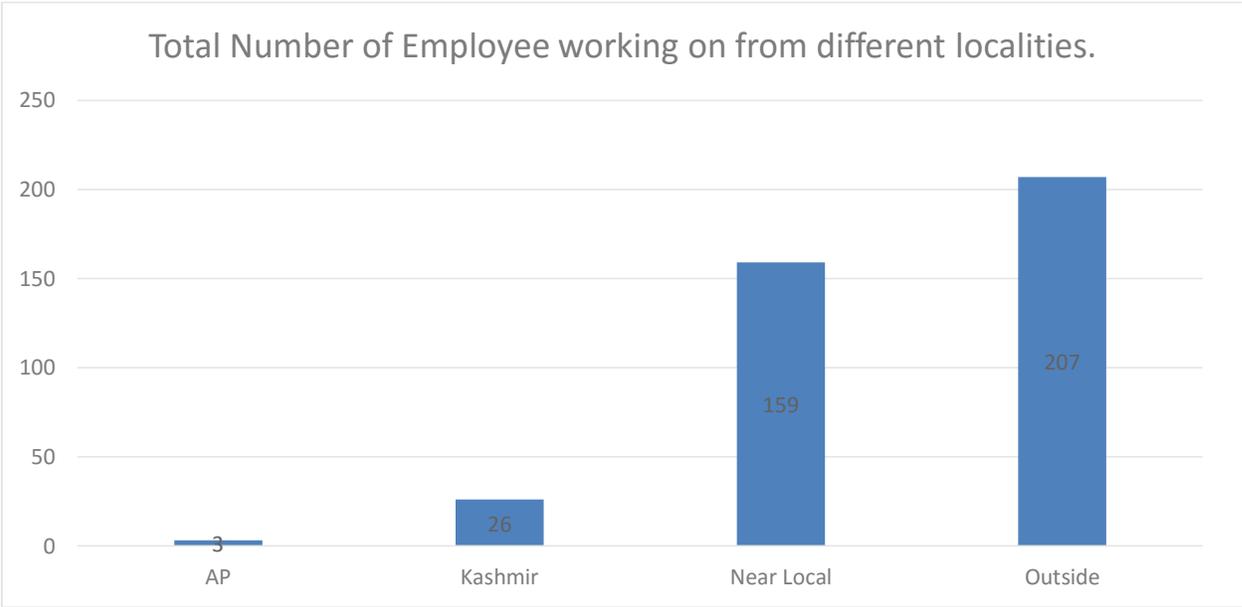
The records are presented in **Exhibit-16**.

S. No.	Date	Description of Complaint	Action	Status
1.	Nov-2016	A complaint was received from action committee member regarding rash and fast driving by EPC Vehicles	The drivers were immediately informed about the issue and avoidance. Toolbox discussion was held on the topic to create awareness.	Closed

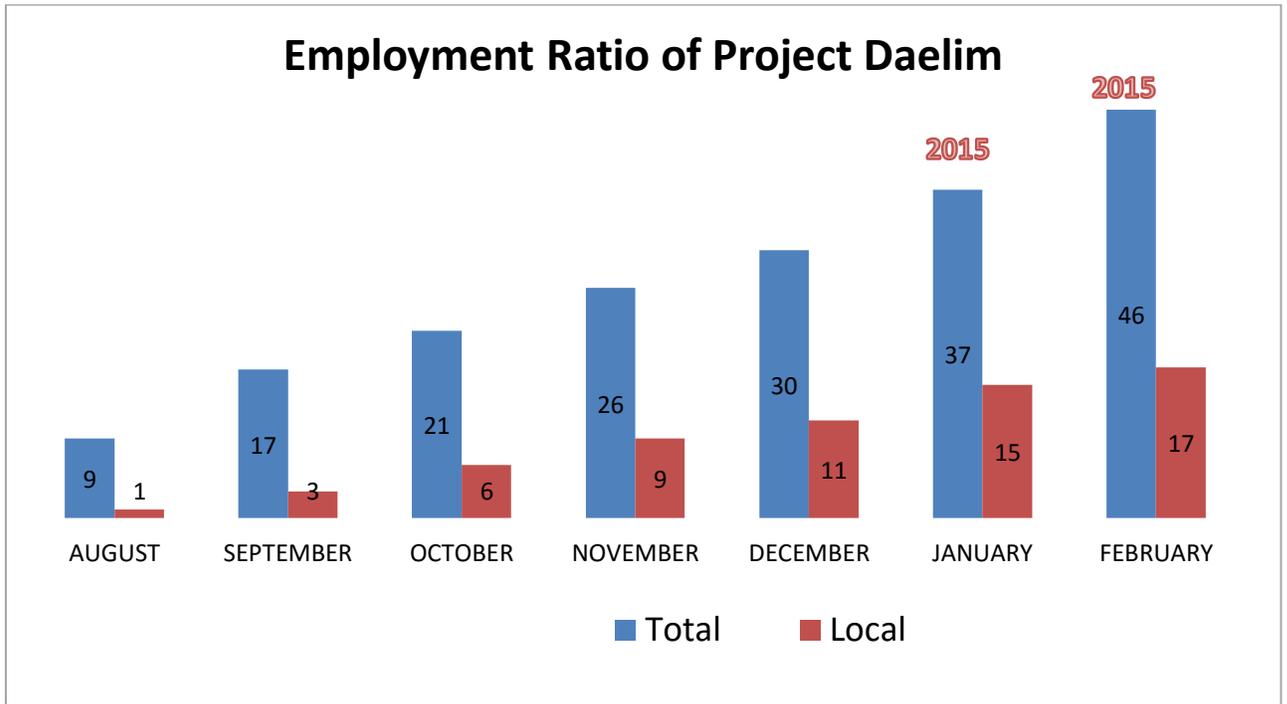
### viii. Distribution of Project Employment

The EPC Contractor over period of time involved more and more locals during the construction works by providing them opportunities in jobs. The Inspection of employment distribution in project is conducted on receipt of complaint as required in the ESMMP.

The records are presented in **Exhibit-14** while the statistical data is provided in the charts below.



The EPC Contractor with reference to **Exhibit-12** hired approx. 50% locals and AJK Nationals. The increase in locals hiring augmented with Passage of time.

*Figure G-5 Local hiring and Outside hiring versus time- 2015*


#### ix. Social Unrest due to Conflicting Social Norms

The Inspection of Social unrest due to conflicting social norms is conducted on receipt of complaint as required in the ESMMP. During reporting period no social unrest condition was observed due to any kind of legal labor strike or so.

#### x. Muck Disposal

The muck generated at various components of project construction are monitored as per Muck Disposal Plan. The records of muck generated and its disposal is presented in **Exhibit-12**.

The records are presented in **Exhibit-12**.

Project Component	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1. Construction Road-1	43,90 5.60	0	0	72,40 3.00	110, 452. 50	125,48 0.00	0	129,22 9.40	130,66 2.90	140,64 4.00	0
2. Construction Road-2	0	0	0	0	0	0	0	0	0	9,413. 20	0
3. Construction Road-5	0	0	0	0	0	0	0	0	0	19,498 .18	59,35 1.73

4. Powerhouse Access Road	0	0	0	0	0	0	0	0	0	910.82	1,083.21
5. Maintenance Road	0	0	0	0	0	0	8,256.80	10,396.10	17,866.85	25,343.00	29,286.03
6. Weir Access Road	7,748.00	0	0	31,369.70	55,541.21	84,320.25	102,280.15	125,171.13	170,287.70	181,519.90	0
7. Main Access Road	0	0	0	0	0	0	0	3,861.00		5,419.61	0
8. Intake	0	0	0	0	0	0	0	0	0	0	32,481.40
9. Inlet Portal	0	0	0	0	0	0	0	0	0	0	29,239.55
10.Outlet Portal Tunnel#1	0	0	0	0	0	0	6,880.54	0	0	0	
11.Outlet Portal Tunnel#2	0	0	0	0	0	0	6,836.77	0	0	0	
12.Upstream Cofferdam	0	0	0	0	0	0	0	0	0	0	2,976.24
13.Powerhouse	0	0	0	0	0	0	0	0	0	0	6,030.02

The total muck generated during this reported period and its disposal at various locations is presented in **Exhibit-12**.

Project Component	Total Generated	Recycled	Disposed at Spoil Tip-C	Disposed at Spoil Tip-E	Disposed at community land
1. Weir Access Road Downside	0	82,764.00	0	0	0
2. T.B.M Ground	0	19,192.00	0	0	0
3. Powerhouse Area	0		0	0	0
4. Intake Downside	0	12,169.02	0	0	0
5. T#1 Outlet	0		0	0	0
6. CR#5 Downside	0		0	0	0
7. Near Box Culvert	0	71,078.00	0	0	0
8. Outside Mosque	0	9,087.45	0	0	0
9. Spoil Tip C	0		0	0	0
10. CR#1 Left Side	0	76,031.10	0	0	0

#### **xi. Monitoring of NEQS**

The monitoring of National Environmental Quality standards required for the project are regularly conducted on quarterly basis on requirement of Condition-12 of NOC.

### **xii. Monitoring and Reporting for SMP**

The Inspection of Social unrest due to conflicting social norms is conducted on receipt of complaint as required in the ESMMP.

No such complaint or information regarding mentioned situation is received during the reporting period.

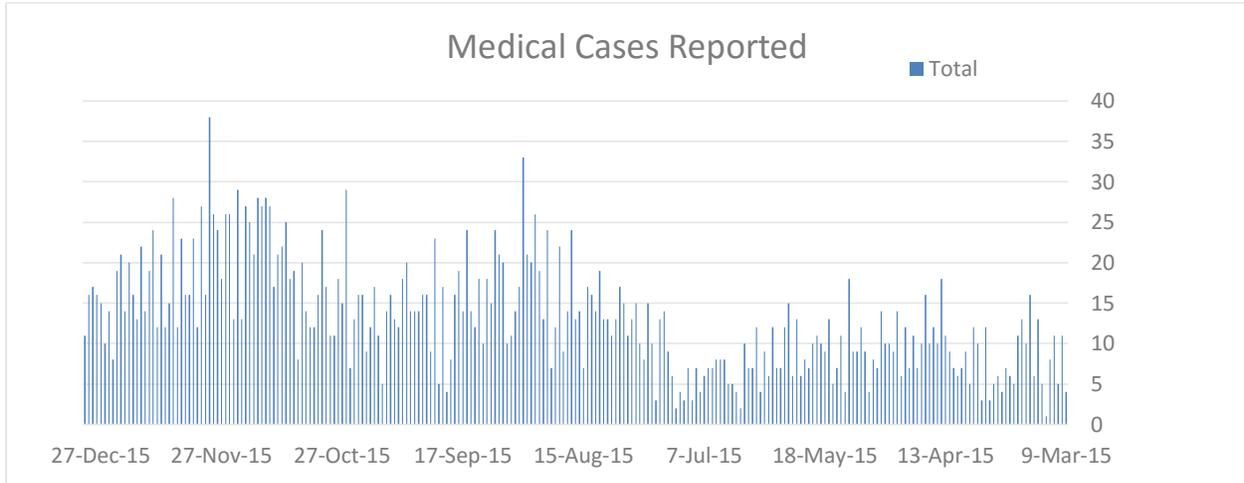
### **xiii. Community Safety and Security**

1. Community complaint register (CCR) has been placed on the Project Site. As per Lenders recommendation, the Contractor has inserted all telephone complaints in CCR to follow up the complaints.
2. All complaints on CCR have been addressed and resolved by the Company through EPC Contractor.
3. As routine activity, surprise security checking at night time by the Contractor's Security Manager has been executed with the aim to strengthen the security surveillance.
4. The Contractor developed cordial liaison with concerned Government Departments for explaining Site Security arrangements. For this purpose, Contractor Security Manager conducted various meetings with the Government officials.

### **xiv. Health Statistics**

1. The EPC Contractor in collaboration with local health authorities make available medical staff, first aid facilities, sick bay and ambulance service at all times at site and accommodation area. Dedicated ambulance service is provided at site for emergency situations. Medical staff for day and night shift is provided for first aid and minor emergencies. In case of serious emergencies Medevac plan is initiated.
2. The EPC Contractor Medical staff received 3227 medical cases at clinic starting from March to December 2015.
3. The distribution of medical staff over period of time is presented in below figure.

Figure G-6 Medical cases reported in various months of 2015



4. The Figure D-1 presents details of total number of medical cases distribution over period of time. The increase in number of medical cases were noted and

Figure G-7 Distribution of medical cases in different companies

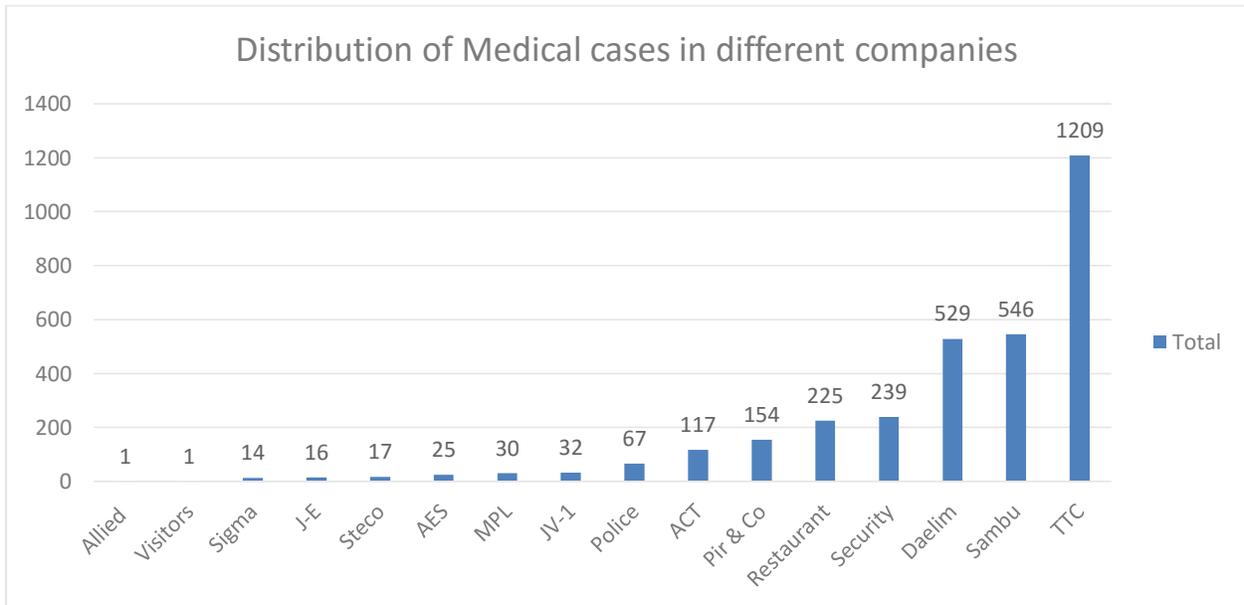
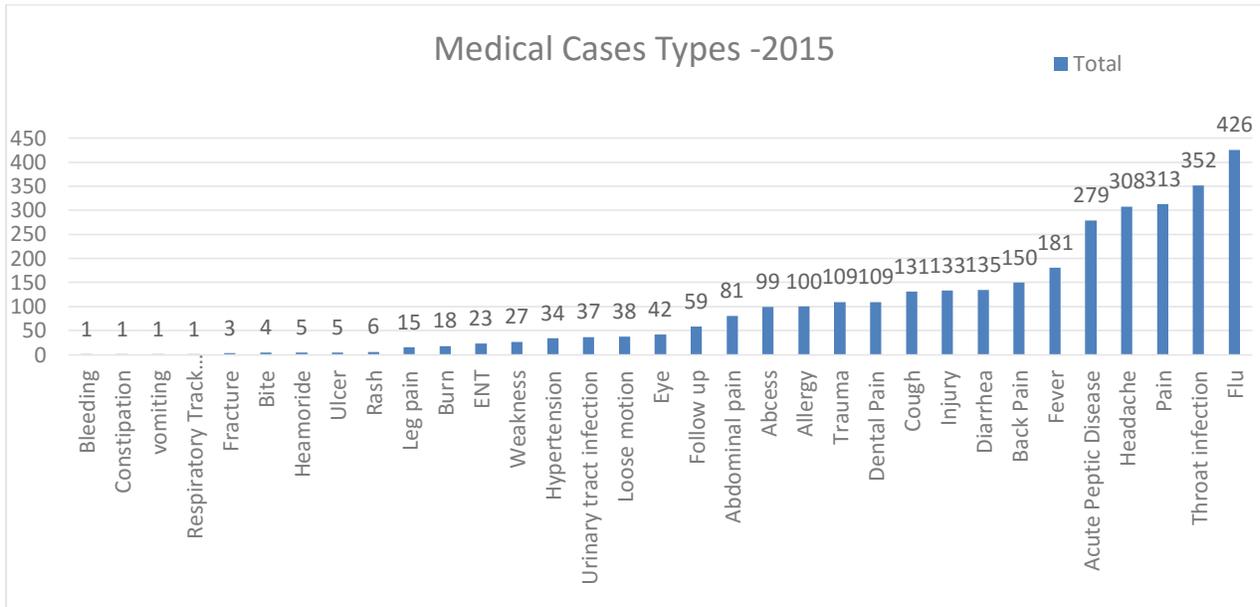
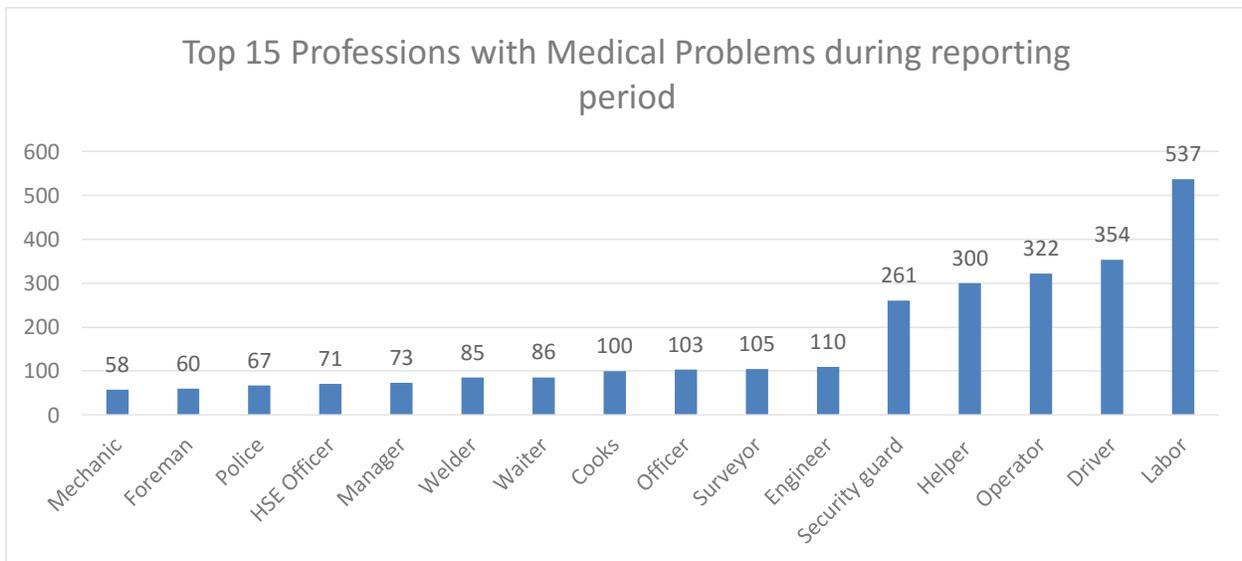


Figure G-8 Distribution of various diseases during 2015



5. Flu, throat infections, pain in joints, headache, acute peptic disorders and fevers were among the significant medical cases received in clinic during the reporting period of time. The medical cases were analyzed and prescriptions were provided to staff. The health and hygiene issues and relevant preventive measure against medical cases were discussed in toolbox talk with employees and workers.

Figure G-9 Distribution of medical cases among top 15 professions in 2015



The records of medical report and medical statistics is presented in **Exhibit-13**.

**xv. Audits/Inspections**

1. The EPC and subcontractor's designated EHS personnel inspected and monitor all activities for compliance. A designated procedure for inspections and monitoring is developed and implemented by EPC Contractor in accordance with the requirements. The EHS advisor act as Inspection Team Leader during various inspections conducted.
2. Daily EHS inspection and monitoring were carried out by all inspectors under the supervision of EHS officers and advisors as and whenever required.
3. In addition to the ongoing monitoring of the worksite by the EPC Contractor management, Health and Safety Officer performed a formal HSE inspection/walkabout of the worksite and accommodation quarters (if applicable) at least once a week to identify and correct any hazardous conditions and unsafe action noted. The monthly internal audit was conducted by higher managements of the Contractor representatives for immediate decision making on HSE mitigation measures for the project.
4. A written record of all inspections and their results were provided to EPC Project Manager or EHS Advisor for further actions or record keeping. All subcontractors' worksites are subject to inspection and audit by the Contractor safety management.

**February-December, 2015**

Following Inspections were carried out during the month of February:

**Daily**

1. Blasting Inspection
  - a. Pre-blast Inspection
  - b. During-blast Inspection
  - c. Post-blast Inspection

**Weekly**

2. Fire Extinguishers
3. Health and Hygiene Kitchen
4. Camp Inspection

**Fortnightly**

5. Water Sprinkling

**Monthly**
**6. Fire Extinguishers**

The inspection check lists are attached as “**Exhibit 16**”.

*Table 1 presents total inspections count conducted during reporting period*

Month	Count of Inspections Conducted in 2015				
	Fire Extinguisher	Health & hygiene inspection of Camp/Kitchen	Blasting		
			Pre	During	Post
February	4	3	22	22	22
March	1	1	26	26	26
April	1	20	32	32	32
May	1	0	53	53	53
June	1	1	55	55	55
July	1	3	56	56	56
August	1	15	76	76	76
September	1	1	75	75	75
October	4	1	115	115	115
November	1	17	115	115	115
December	1	9	135	135	135

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**Exhibit 01 – ESOHS CAP**

(Please see the next page)

## Corrective Action Register/ CAP

S/N	Date	Pakistan	EPCC Daelim	Reported by ②	Reported by department ①	Reported person ①	Hazard Cat. ②	Source ②	Priorit y ②	Consequ ence ③	Observations	UA/UC ②	Corrective action	Action Party ②	Target Date	Status ②	Comments for overdue action
1	01/Feb/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	FFH	HAZ	M	P	It is observed by DAELIM EHS engineer that people were working on scaffolding in camp A but there was no handrail and midrail of scaffolding. Labor can fall down because of absence of handrail and midrail.	UC	TTC should hire some trained scaffolders and install the scaffolding according to OSHA's standards.	TTC	01/Feb/15	Closed	work will be stopped and serious action will be taken.
2	02/Feb/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	S/T/F	HAZ	L	P	During rain, the mud was observed to be present all around which could cause personnel to slip, causing multiple injuries	UC	1.The mud should be cleared with the help of loader. 2.The topic to be discussed in the Daily toolbox talks to avoid future incidents because of such hazards	TTC	02/Feb/15	Closed	work will be stopped and serious action will be taken.
3	03/Feb/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	SEC	HAZ	L	P	It is observed by DAELIM's EHS Engineer that most of the vehicles go inside only for visit at project site without permission.	UC	There should be strict security on main gate and only the vehicle related the project should allow to go inside and their record should be saved.	TTC	03/Feb/15	Closed	
4	03/Feb/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	PHY	HAZ	L	P	It is observed by DAELIM's EHS Engineer that worker were welding without welding shield and glassess	UA	Workers should wear the safety glasses and other PPE's during the welding and this topic was already discussed in tool box talk.	TTC	03/Feb/15	Closed	work will be stopped and serious action will be taken.
5	04/Feb/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	SEC	HAZ	L	P	It was observed that vehicles were parked at construction area .	UC	There should be separate parking area at project site and all vehicle of the companies should be parked there.	TTC	04/Feb/15	Closed	
6	04/Feb/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	PHY	HAZ	L	P	It is observed by DAELIM's EHS engineer that PPE's were not woreed by some of the labors. Because of this any labor could injured .	UA	TTC should ensure PPE compliance to all their employees.	TTC	04/Feb/15	Closed	labors should be given PPE's otherwise they should be out
7	05/Feb/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	EL	HAZ	L	P	It is observed by DAELIM's EHS Engineer that electric wires were lying on ground posing electric shock hazard to the workers	UC	TTC should use double core wires and should put the wires underground after covering them with plastic pipes.	TTC	05/Feb/15	Closed	work will be stopped and serious action will be taken.
8	06/Feb/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	FE	HAZ	L	P	It is observed by DAELIM's EHS Engineer that most of the worker smoke in no smoking zone.	UA	Smoking zones have been designated all workers should smoke there.	TTC	06/Feb/15	Closed	
9	07/Feb/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	FO	HAZ	L	P	It is observed by DAELIM's EHS Engineer that on construction road 1, loose material is falling down because of land sliding.	UC	1 .Signalman should be placed in the area to avoid any accident.	TTC	07/Feb/15	Closed	work will be stopped and serious action will be taken.
10	08/Feb/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	FFH	HAZ	L	P	It is observed by DAELIM's EHS Engineer that a labor was working at height without safety harness. As a result he could get injured.	UA	1 .Subcontractor TTC should provide full body harness to the workers working at height. 2. Work at height training should be conducted by EPCC. 3 .Issue to be discussed in tollbox meeting.	TTC	08/Feb/15	Closed	work will be stopped and serious action will be taken.
11	08/Feb/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	EL	HAZ	L	P	It is observed by DAELIM's EHS Engineer that the electricians were using damahed wires. As a result any one can get an electric shock.	UA	1 .Plastic gloves should be used while working with eleric wires to avoid electric shocks. 2 .TTC should use all electric wires by putting	TTC	08/Feb/15	Closed	work will be stopped and serious action will be taken.
12	08/Feb/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	FE	HAZ	L	P	It is observed by DAELIM's EHS Engineer that TTC personnel were setting fire at site which can cause enviromental degradatation and damage to the property at site.	UC	TTC should strictly restrict their workers to lit fire on site. 2 .Issue should be discussed in daily toolbox meeting.	TTC	08/Feb/15	Closed	work will be stopped and serious action will be taken.

13	08/Feb/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	PHY	HAZ	L	P	It is observed by DAELIM's EHS Engineer that a labor was painting without using mask. As a result he could get affected by paint smell.	UA	1. Subcontractor TTC should provide masks to the workers and train them.	TTC	08/Feb/15	Closed	work will be stopped and serious action will be taken.
14	11/Feb/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	INSP	M	P	Scaffolds were not erected properly on block M, Platform planks and access ladders were missing, guard rails were also fixed improperly. Workers were climbing on the scaffolds without any access	UC	Stopped the work and conduct a training session on scaffold erection. Intimated TTC personnel to erect the scaffolds properly and inform EPCC EHS team for inspection before carrying out any activity on the scaffolds	TTC	12/Feb/15	Closed	work will be stopped and serious action will be taken.
15	12/Feb/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FO	VISIT	M	P	TTC personnel were fueling in excavators by putting fuel drum in excavator bucket to create a height for flow of fuel that was unsafe in regard that drum could fall down from height that might injure any worker.	UA	The work was suspended temporarily due to unsafe act committed by TTC personnel later a hand pum was arranged by TTC const. supervisor for fueling	TTC	12/Feb/15	Closed	work will be stopped and serious action will be taken.
16	13/Feb/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	VISIT	H	P	One of the TTC workers was working at a height of 6-meters without safety harness using a ladder to fix some steel objects in the wall of block K	UA	A safety harness provided to him and intimated him to hook the harness properly. Another worker was deputed on the duty to hold the ladder as it was not fixed	TTC	13/Feb/15	Closed	work will be stopped and serious action will be taken.
17	14/Feb/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	CWM	HAZ	M	P	A TTC mason was doing grinding work in block A with a grinder that had no safe guard over grinder disc	UC	Instructed him about fixing of safe guard over grinder disc; later he fixed the guard.	TTC	14/Feb/15	Closed	
18	15/Feb/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FO	HAZ	H	P	In workshop area Sambo excavator operator was removing loose material to downside where concrete mixing work was being carried out by TTC personnel	UA	Istructed excavator operator to collect loose material at on place and after finishing of concrete work in the absence of workers remove the material to downside area	TTC	15/Feb/15	Closed	
19	16/Feb/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	WE	HAZ	M	P	Umer Khan ACT's vehicle driver was complaining about driving for 24 hours even though he is getting least compensation from the company in comparison to the other drivers	UC	It was instructed to supervisor ACT that it is not allowed for the drivers to drive the vehicle for consecutively more than 12 hours.	TTC	16/Feb/15	Closed	
20	16/Feb/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	S/T/F	HAZ	H	P	Round about 14:30 hours a tractor that had been driven by a driver belong to local community was coming inside site area to bring demolished household material slipped from the road at main entrance and turned aside due to sludge on the road produced by rain	UC	Instructed driver to switch off the tractor at the same position, block the road for entrance and exit as the road was slippery. Later road was repaired to restore traffic and stucked excavator moved on his way to carry material	TTC	16/Feb/15	Closed	
21	16/Feb/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	MH	HAZ	L	P	EHS team visited Q.C lab construction work and found almost 30 workers without safety gloves. 3 of them were without safety shoes	UA	Stopped the work temporarily and ensured the provision of safety shoes and gloves	TTC	16/Feb/15	Closed	
22	16/Feb/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	M	P	The two TTC workers were riding on the tractor frame beside driver cabin	UA	Instructed him to get down of the tractor and warned him to send out of site in case of safety negligence	TTC	16/Feb/15	Closed	
23	17/Feb/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	CWO	HAZ	M	P	TTC tractor's loading bed was lifted upward on coming back from access road to camp area that was dangerous in regard that it could hit any overhead object.	UA	Stopped the tractor and instructed tractor driver to keep the loading bed down in its resting position whilst driving the tractor.	TTC	17/Feb/15	Closed	
24	17/Feb/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	WE	HAZ	L	P	There was no water to drink during concrete work on submerge bridge. TTC workers were drinking river water to quench their thirst.	UC	Stopped the work and instructed stictly to TTC supervisor and EHS personnel to make sure the provision of safe drinking water. Later TTC personnel provide drinking water at site to labor	TTC	17/Feb/15	Closed	
25	17/Feb/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	S/T/F	HAZ	H	P	Due to rise in water level of the river, the temporary access bridge was very slippery because it got wet by water touching it. The soil and loose material including stones at one end of the bridge were erased by water	UC	Blocked the access way to the bridge and communicated every worker not to cross the bridge to go to other side of the river	TTC	17/Feb/15	Closed	
26	17/Feb/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	TC	HAZ	M	P	There was no mesh guard over the pulleys and rotating belt of compressor being used by TTC labor	UC	After instructing to TTC labor about installation and merits of safe guard over the rotating belt and pulleys; they installed the guard which was lying beside the compressor	TTC	17/Feb/15	Closed	
27	18/Feb/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	S/T/F	HAZ	M	P	Pneumatic drilling work was being carried out by Sambu labor in workshop area in rain. There was slip hazard due to rain which could cause fall and injury to personnel working in that area	UC	1: Work should not be carried out in bad weather conditios 2: Site forman and EHS Engineer would make the decision to carry out work when the rain will be over	Sam	18/Feb/15	Closed	

28	20/Feb/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	S/T/F	HAZ	L	P	The entrance road to camp area was very slippery due to rain. There was hazard of roll over and overturning of vehicles that might result in damage to the vehicles and injury to personnel boarded on.	UC	1: Sludge should be removed from road by wheel loader to decrease slip hazard 2: Road should be repaired by putting material like crush to produce friction to vehicle's tires and to minimize slip hazard. 3: For permanent solution of this problem, the road should be paved with concrete material	TTC	20/Feb/15	Closed
29	21/Feb/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FO	INSP	M	P	The rock pieces during blast flew over almost in 100 meter area during blasting at weir access road due to improper drilling. Flying stones did not hit anybody otherwise that could injure anybody present around hundred meter area.	UC	1: Drilling of holes should be proper in standard depth. 2: Dynamite should be used according to the hole depth. 3: Rubber mats should be placed properly over the holes.	TTC	21/Feb/15	Closed
30	22/Feb/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	S/T/F	HAZ	L	P	Beside camp B near Sambu residence TTC dumpers are turning back where there is no protection for reversing vehicles along the road bank which is located at height and the area is slippery. So any of the vehicles could overturn that might result in damage of equipments	UC	1:Crush material should spread over the road to minimize slip hazard. 2: TTC should make a dike over there to minimize overturning and slip hazard	TTC	22/Feb/15	Closed
31	23/Feb/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	CWC	HAZ	L	P	TTC workers were making box culvert concrete without wearing gum shoes. This was hazardous in regard that concrete material could injure their feet and legs due to cement and chemicals mixed in concrete material	UA	1: All workers must have gum shoes to whilst making concrete 2: Gloves, overall ,safety goggles must be used to avoid skin, eye irritation 3 TTC should provide proper working platform to labor in order to make concrete if it is more than 50 cm in height	TTC	23/Feb/15	Closed
32	23/Feb/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	CWC	HAZ	L	P	TTC workers were mixing cement in crush and sand aggregate without wearing dust masks which could cause lungs irritation and other chronic effects on continuous exposure to chemicals like cement	UC	1: Dust masks should be provided to all labor 2: Provision of safety goggles to avoid eye irritation. 3: Minimizing exposure limits of workers by job rotation	TTC	23/Feb/15	Closed
33	24/Feb/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	MH	HAZ	H	P	At 12:00 hours Allied CAT personnel unloaded two generators without informing EHS team. They manually push one generator to place it on pad inside of generator room. It slipped from pad and fell on one side. Nobody injured anyway by fall of generator, otherwise it had the potential to hit or crush anybody's legs or feet.	UA	1; EHS team should be informed before carrying out any activity 2: Work permit should be issued by EHS and received by Subcon. to carry out any critical activity 3: Checklist should be filled to verify the arrangements to carry out any critical activity	TTC	24/Feb/15	Closed
34	25/Feb/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	S/T/F	HAZ	L	P	Due to sliding of loose material because of rain along weir access road located above box culvert some cracks were observed on the road. There was a hazard of overturning of heavy equipment passing through that area because of sliding of material continually on both side and cracks on the road	UC	1: Installation of barricades to stop the movement of heavy equipment 2: Repairing and compaction of road to provide safe access. 3: Compaction of slopes on either side of road by excavator bucket or by doing some shotcrete there for long term control measure	TTC	25/Feb/15	Closed
35	26/Feb/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	TSPT	HAZ	H	P	Due to brake failure,TTC dumper struck on the loose material along the road and stopped there when it was coming from entrance road outside the main gate to camp area. It could hit anybody on the road but luckily it struck on the loose material /dike along road	UC	1: All drivers of heavy equipment and light vehicles should check the condition of their machinery before operating/ driving them. 2: The dumper should send to workshop for repairing of brakes. 3: All drivers must be given education about safe driving in daily tool box talks and through training	TTC	26/Feb/15	Closed
36	27/Feb/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	VIO	HAZ	L	E	Entrance road was blocked for traffic by some of the community persons that could result in verbal abuse and threat to local workers	UC	1: Client's representative should arrange a meeting to solve the local community issues 2: There should be the installation of main gate to stop unauthorized entry in the site area. 3: Increase in the no. of security personnel to strengthen site security is very necessary.	OTH	27/Feb/15	Closed
37	27/Feb/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	PHY	HAZ	L	P	There were steel nails observed steel nails beside building block-M in wooden planks which could injure anybody,s foot	UC	1: All wooden planks should be staked properly with barricades installed around them 2: Steel nails should be plucked out from planks to avoid foot injury	TTC	27/Feb/15	Closed

38	27/Feb/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FO	INSP	M	P	The area was not being evacuated by TTC EHS team before charging at CR-1, so there was difficult to stop unauthorized entry in 100 meter premises and during blasting time there might be the hazard of falling objects that could hit an worker due to improper evacuation. The blasting activity was postponed by EHS team till the proper evacuation.	UC	1: All area in 100 meter radius should be evacuated. 2: Charging activity can not be start without evacuation. 3: There should be no person present in 100 meter area during shot being fired.	TTC	27/Feb/15	Closed
39	27/Feb/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FO	INSP	L	P	Some of the charged holes were uncovered during blasting activity, carried at weir access road. This was because of insufficient number of rubber mats available to cover the charged area. There was a little chance of fly rock.	UC	1. The number of rubber mats should be increased up to 15 to cover all charged area properly. 2: In case of unavailability of rubber mats sand filled bags must be placed over charged holes.	TTC	27/Feb/15	Closed
40	28/Feb/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	MH	HAZ	L	P	A TTC worker was working with a hammer that had no grip on its handle which could injure him or any other worker in the vicinity	UC	1: There should be the rubber grip on the handle to hold it firmly. 2: All portable tools should not be blunt like digger's edge or with broken heads like hammer's head in order to avoid manual handling injuries.	TTC	28/Feb/15	Closed
41	28/Feb/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	S/T/F	HAZ	L	P	Sambu's labor is using shortcut way through irregular slope to go down inside to their residence. Their act could cause injury to any personal moving down or coming up towards restaurant.	UA	1: Barricades should be installed there to stop the entry in that area 2: Prohibition sign should be attached there for indication.	OTH	28/Feb/15	Closed
42	28/Feb/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	A TTC worker was carrying out welding work using safety goggles without wearing welding helmet and gloves. The direct exposure to the radiation could cause chronic health effect.	UA	1: All body should be protected properly with overall to avoid radiation hazard 2: welding helmet must be used instead of safety goggles to avoid exposure to the radiation and to ensure full face protection.	TTC	28/Feb/15	Closed
43	28/Feb/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	EL	HAZ	M	P	Inside block-M, a TTC worker was conneting electrical cables to each others without disconnecting power which could cause electric shock to the involved worker.	UA	1: An trained electrician should connect wires instead of a general labor. 2: During any type of electric work there should be the disconnection of power from the source 3: Insulated gloves should be used during any repair work.	TTC	28/Feb/15	Closed
44	28/Feb/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	CWO	HAZ	L	P	Workers were passing through the excavator's radius during excavation activity being performed at CR-1 that might result in collision of any worker with the excavator's boom/bucket	UA	1: A signalman should be deputed to stop the excavator whilst movement of workers to go to other side by way of road where excavation is being carried out 2: Nobody should pass throuh moving excavator.	TTC	28/Feb/15	Closed
45	28/Feb/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	L	P	There are no handrails with the ladder leads to M- block 1st floor. There are the chances of workers to fall.	UC	1: That ladder should be removed and other side stairs should be used as alternate way. 2: Hand rails should be installed there to aviod fall hazard.	TTC	28/Feb/15	Closed
46	01/Mar/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	L	P	Scaffold installed to construct security room are not proper there are no handrails midrails installed over platform for fall protection. There is no access to climb up on platform that is posing fall hazard to workers.	UC	1: Installation of access ladder. 2: Installation of top and midrails 3: Proper inspection of scaffold after erection. 4: Use of safe and unsafe tags attached on scaffold for prohibition and permission of work 5: Use of checklist for proper inspection. 6: Issuance of permit to work for scaffold erection	TTC	01/Mar/15	Closed
47	01/Mar/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	TSPT	HAZ	L	P	At CR-1 during mucking activity dumpers were loaded over than their capacity. The road was slippery due to rain, and there were chances of slip and overturning of vehicles	UC	1: Dumpers should not be overloaded than their capacity to carry material. 2: Solid material should spread on road to minimize slip hazard	TTC	01/Mar/15	Closed
48	02/Mar/15	Pakistan	Daelim	OTH	OTH	Israr Ahmed	S/T/F	HAZ	L	P	Just above box culvert a dumper was passing over a temporay ramp. Due to rain the dumper's tires were slipping because the ramp was not compacted properly. In rainy days any of the vehicles might slip and fall from the ramp.	UC	1: The ramp should be compacted properly so that dumpers and others heavy equipment could pass through it easily 2: If the ramp is slippery then EHS personnel should block the way by placing barricades there.	TTC	02/Mar/15	Closed

49	02/Mar/15	Pakistan	Daelim	OTH	OTH	Hafiz Ali Akbar	S/T/F	HAZ	L	P	The entrance road was very slippery due to rain that was causing problem for dumpers to move upward towards main road and downwards towards main gate	UC	In rainy days EHS Team should check the road before movement of heavy equipment to ensure safety of drivers and vehicles	TTC	02/Mar/15	Closed	
50	03/Mar/15	Pakistan	Daelim	OTH	OTH	Shahid Iqbal	HB	HAZ	L	P	One of the EPCC driver misbehave with a cook named shahid and he made a complaint to EHS department. This type of incident could result in violence at work.	UA	EPCC Admin Manager should have been given warning to the involved driver for his unsafe behavior and should issue warning letter when he commit such an act again.	OTH	03/Mar/15	Closed	
51	03/Mar/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	EL	HAZ	L	P	One of the TTC dozer operator was cleaning sludge on the road in front of generator room where power cable was passing under ground. There was possibility of damaging power cable with dozer blade.	UC	1: Operators should be informed about underground power cables before cleaning or excavation work. 2: There should be an indication for ungerground cable in the form of signage 3:To avoid damaging of underground cables during excavtion, all cable should be marked with tape .	TTC	03/Mar/15	Closed	
52	04/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	S/T/F	HAZ	L	P	It is observed by EPCC EHS Engineer that gas cylinders were placed on the way in welding area. Anyone can be injured whilst passing by them.	UC	Gas cylinders were removed from the way and were placed aside in proper way.	TTC	04/Mar/15	Closed	
53	04/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	TSPT	HAZ	L	P	Some of the charged holes were uncovered during blasting activity, carried at weir access road. This was because of insufficient number of rubber mats available to cover the charged area. There was a little chance of fly rock.	UC	1. The number of rubber mats should be increased up to 15 to cover all charged area properly. 2: In case of unavailability of rubber mats sand filled bags must be placed over charged holes.	TTC	04/Mar/15	Closed	
54	04/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	CWC	HAZ	L	P	TTC'S blasting team was using metal toe shoes due to which charge could be produced and blast could be done. As a result of which people could get injured.	UA	TTC's Blasting team shoes are being changed and their shoes are now without metal toe.	TTC	04/Mar/15	Closed	
55	05/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	S/T/F	HAZ	L	P	During rain, the mud was observed to be present all around which could cause personnel to slip, causing multiple injuries	UC	The mud should be cleared or Backfilled with solid material. The topic to be discussed in the Daily toolbox to avoid future incidents because of such hazards	TTC	05/Mar/15	Closed	
56	05/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	OTH	HAZ	L	P	TTC's workers are complaining that TTC's management is not providing them PPE's and many people can get injured because of not using PPE's.	UA	1 .Provision of PPE's should be ensured by suncontractor 2 .This issue was discussed with TTC's management.	TTC	05/Mar/15	Closed	
57	05/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	HEA	HAZ	L	P	It is observed by EPCC's staff that during lunch chicken is not cooked properly which can cause ill heath to the workers.	UC	Issue was communicated to the restaurant manager and instructed him to ensure that the food is well cooked	TTC	05/Mar/15	Closed	
58	05/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	S/T/F	HAZ	L	P	At CR-1 during mucking activity dumpers were loaded over than their capacity. The road was slippery due to rain, and there were chances of slip and overturning of vehicles	UC	1: Dumpers should not be overloaded than their capacity to carry material. 2: Solid material should spread on road to minimize slip hazard	TTC	05/Mar/15	Closed	
59	05/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	S/T/F	HAZ	L	P	Just above box culvert a dumper was passing over a temporay ramp. Due to rain the dumper's tires were slipping because the ramp was not compacted properly. In rainy days any of the vehicles might slip and fall from the ramp.	UC	1: The ramp should be compacted properly so that dumpers and others heavy equipment could pass through it easily 2: If the ramp is slippery then EHS personnel should block the way by placing barricades there.	TTC	05/Mar/15	Closed	
60	06/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	TSPT	INSP	L	P	Some of the charged holes were uncovered during blasting activity, carried at weir access road. This was because of insufficient number of rubber mats available to cover the charged area. There was a little chance of fly rock.	UC	1. The number of rubber mats should be increased up to 15 to cover all charged area properly. 2: In case of unavailability of rubber mats sand filled bags must be placed over charged holes.	TTC	06/Mar/15	Closed	

61	06/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FO	HAZ	L	P	At CR1, the material is sliding due to rain.falling object can injure any person or equipment.	UC	During rain, all the sliding area was being barricaded and work was delayed for some time.	TTC	06/Mar/15	Closed
62	06/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	ENV	HAZ	L	P	In SAMBU's residence, due to the breaking of water pipe, there was a problem of water for some time.	UC	Pipe was being underground after putting joint in that .	TTC	06/Mar/15	Closed
63	06/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	S/T/F	HAZ	L	P	At CR-1 during mucking activity dumpers were loaded over than their capacity. The road was slippery due to rain, and there were chances of slip and overturning of vehicles	UC	The mud should be cleared or Backfilled with solid material. The topic to be discussed in the Daily toolbox to avoid future incidents because of such hazards	TTC	06/Mar/15	Closed
64	06/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	S/T/F	HAZ	L	P	During rain, the mud was observed to be present all around which could cause personnel to slip, causing multiple injuries	UC	The mud should be cleared or Backfilled with solid material. The topic to be discussed in the Daily toolbox to avoid future incidents because of such hazards	TTC	06/Mar/15	Closed
65	07/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	S/T/F	HAZ	L	P	Excavator broke the water pipe of SAMBU's residence whilst working on road.	UC	Pipe was being underground after putting joint in that .	TTC	07/Mar/15	Closed
66	07/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	PHY	HAZ	L	P	During unloading local workers were not wearing the PPE's.	UA	proper PPE's were provided to labors.	TTC	07/Mar/15	Closed
67	07/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	ENV	HAZ	L	P	It is observed by EPCC EHS team that waste material was scattered behind the restaurant.	UC	Waste material was being collected behind the restaurant and put into dustbin.	TTC	07/Mar/15	Closed
68	07/Mar/15	pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	ENV	HAZ	L	P	It is observed by EPCC EHS team that waste material was scattered in the front of Local worker building.	UC	Waste material was being collected from front of local workers building and put into dustbin.	TTC	07/Mar/15	Closed
69	07/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FFH	HAZ	L	P	During work it is observed by EPCC EHS Engineer that Labors were using wooden scaffolding in Korean residence building which can break any time and people can be injured.	UC	Wooden scaffold was being removed and instructed to install steel scaffolds.	OTH	07/Mar/15	Closed
70	09/Mar/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	MH	HAZ	L	P	Bar bending work was being carried out by TTC labor beside M-block without wearing safety gloves that could result in injury by striking anybody's hand with other objects or steel material	UA	1: Bar bending work should be carried out by wearing all PPE including safety gloves	TTC	09/Mar/15	Closed
71	09/Mar/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	CWO	HAZ	L	P	Sambu machinery is standby on weir access road in perimeter of 100 meter from blasting area. The flying stone could hit any machine and may damage it	UC	1: Sambu Company should remove its machinery 2:if could not remove Sambu personnel should cover it	Sam	09/Mar/15	Closed
72	10/Mar/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	ENV	HAZ	L	P	Waste bins were full of waste material in front of Sambu residence that were creating ill smell in surrounding area	UC	1: Waste bins should be cleaned on every alternate day. 2: There should be a waste collector for collecting waste from all site area on daily basis	TTC	10/Mar/15	Closed
73	10/Mar/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	TSPT	HAZ	L	P	There is rush of heavy equipment moving on weir access road. Some body could struck by any machine moving on the road	UC	1: There must be signalman deputed on duty for traffic control 2: It would not be allowed for any kind of machine to standby on road side 3: There should be proper parking area for the machinery which is not in use	TTC	10/Mar/15	Closed
74	10/Mar/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	CWO	HAZ	L	P	Most of heavy equipment helpers especially dumpers are found without wearing safety helmet. During loading and unloading of material any object could hit anybody's head	UA	1: All dumper helpers should have all PPE 2: Without PPE nobody will be allowed to work in site area	TTC	10/Mar/15	Closed

75	11/Mar/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FO	HAZ	M	P	After land sliding on CR-1 some people want to cross the road. There was possibility of falling material which could injure anybody passing through that area	UC	1: Barrication of the area must be done 2: Prohibition to personnel passing through that area.	TTC	11/Mar/15	Closed	
76	11/Mar/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	ENV	HAZ	L	E	TTC excavator operator was putting excavated material on edge of slop which could slide to downside in the river to contaminate it	UA	1: Excavated material should be collected safely at one place 2: Material should be loaded in dumpers to dump in disposal area.	TTC	11/Mar/15	Closed	
77	11/Mar/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	TSPT	HAZ	L	P	A concrete mixture was placed by TTC personnel in front of Daelim EHS site office which block the passage way of ambulance. This kind of situation would result in delay of ambulance in any emergency.	UC	1: All kind of machinery should be parked in designated area. 2: There should not be any kind of equipment placed on passage way of ambulance in parking area	TTC	11/Mar/15	Closed	
78	11/Mar/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	M	P	TTC workers were making concrete of block L-2 by placing a ladder against the wall at a height of 3-meters without any platform. There was risk of injury due to fall of any personal	UC	1: There should be enough material to construct scaffold around the building to make concrete on top of the walls 2: There should be proper platform with handrails and access ladders to approach platform	TTC	11/Mar/15	Closed	
79	12/Mar/15	pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	M	P	Excavtor helper was riding on moving excavator at CR-1 which could cause fall from height due to to and fro motion of excavator.	UA	1: All workers and helpers should kept away frm swing area of excavator 2:It will not be allowed for any worker/helpers to ride on excavator	TTC	12/Mar/15	Closed	
80	12/Mar/15	Pakistan	Daelim	EHS	EHS	m. Saboor Khan EHS Engr.	S/T/F	HAZ	L	P	Bricks were lying on access ways in front of generator room posing trip hazard to workers	UC	1: All workers should arrange and stack the material before 15-minutes of work finished time. 2: Access ways should be clear of any kind of waste or scattered material	TTC	12/Mar/15	Closed	
81	12/Mar/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	M	P	EPCC geologists team carried out mapping of the power house steep slopes without taking necessary PPE from EHS department. There was a hazard of fall down from slopes	UA	1: Every staff member or worker should inform about the nature of work which will have to be carried out away from site; other side of the river, so that all mandatory PPE could be provided to the EPCC workers	TTC	12/Mar/15	Closed	
82	12/Mar/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	ENV	HAZ	L	P	Dust was spreading around due to movement of heavy equipment on site area which could stimulate sneezing reflex and lungs irritation to workers.	UC	1:There should be water sprinkling over road area on daily basis to control dust. 2: The vehicle's speed should be maximum as 10 Kmph.	TTC	12/Mar/15	Closed	
83	13/Mar/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	M	P	TTC workers was riding on the bumpers of dump truck on coming outside to site area	UA	Any person will not be allowed to ride outside of loading bed of dump truck	TTC	13/Mar/15	Closed	
84	13/Mar/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	ENV	HAZ	L	E	Hydraulic fuel and luberciant was observed spreading on CR-1 during maintenance work of heavy equipments that pollute the soil and may cause slip hazard	UC	1:Dip trays should be used to collect oil leakage. 2: There should be workshop area for maintenance of machinery.	TTC	13/Mar/15	Closed	
85	13/Mar/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	S/T/F	HAZ	L	P	On weir access road labor is using short cut way to go up and down of weir access road. Somebody could slip or trip from slop area along road	UA	1:Weir access road should be barricded properly 2: Labor should be informed about hazard of using should cut ways.	TTC	13/Mar/15	Closed	
86	14/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr.)	ENV	HAZ	L	E	It is observed by Daelim's HSE team that TTC's workers park their machinery anywhere and at the time of blasting, which posed a hurdle in access.	UA	TTC persons are been told to arrange a separate area to park their machinery.	TTC	14/Mar/15	Closed	
87	14/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr.)	FFH	HAZ	L	P	It is observed by EHS Engineer that during paint, the TTC's labor are using that ladder which has no hand rail and mid rail due to which any one can fall and get injured.	UC	Ladder was removed and instructions were given to install proper ladder with hand rail and mid rail.	TTC	14/Mar/15	Closed	
88	14/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr.)	ENV	HAZ	L	P	Dust was spreading around due to movement of heavy equipment on site area which could stimulate sneezing reflex and lungs irritation to workers.	UC	1: There should be water sprinkling over road area on daily basis to control dust. 2: The vehicle's speed should be maximum as 10 Kmph.	TTC	14/Mar/15	Closed	

89	14/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr )	S/T/F	HAZ	L	P	Helper of excavator was sitting on the excavator during work and helper could be fell from there and could get injured.	UA	Labor was instructed no to sit on the excavator and stay outside of boom radius.	TTC	14/Mar/15	Closed	
90	14/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr )	FFH	HAZ	L	P	It is observed that to put the steel plates on water tank stand, cotton rope was been used in chain block which could be break resulting personnel injury or property damage.	UC	Cotton rope was replaced by steel chain.	TTC	14/Mar/15	Closed	
91	15/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr )	S/T/F	HAZ	L	P	During rain, the mud was observed to be present all around which could cause personnel to slip, causing multiple injuries	UC	The mud should be cleared or Backfilled with solid material. The topic to be discussed in the Daily toolbox to avoid future incidents because of such hazards	TTC	15/Mar/15	Closed	
92	15/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr )	S/T/F	HAZ	L	P	At CR1, there is sliding due to rain so any worker can be injured because of that and equipment can also be damaged.	UC	During rain, all the sliding area was being barricaded and work was delayed for some time.	TTC	15/Mar/15	Closed	
93	15/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr )	FO	HAZ	L	P	After land sliding on CR-1 some people want to cross the road. There was possibility of falling material which could injure anybody passing through that area	UC	1: Barricadion of the area must be done 2: Signalman should be deputed in the area.	TTC	15/Mar/15	Closed	
94	16/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	S/T/F	HAZ	L	P	During rain, the mud was observed to be present all around which could cause personnel to slip, causing multiple injuries	UC	The mud should be cleared or Backfilled with solid material. The topic to be discussed in the Daily toolbox to avoid future incidents because of such hazards	TTC	16/Mar/15	Closed	
95	16/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	S/T/F	HAZ	L	P	At CR1, there is sliding due to rain so any worker can get injured because of that and equipment can also be damaged.	UC	During rain, all the sliding area was being barricaded and work was delayed for some time.	TTC	16/Mar/15	Closed	
96	16/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	S/T/F	HAZ	L	P	After land sliding on CR-1 some people want to cross the road. There was possibility of falling material which could injure anybody passing through that area	UC	1: Barricadion of the area must be done 2: Trespass should be restricted in the sliding area to avoid accidents.	TTC	16/Mar/15	Closed	
97	17/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	S/T/F	HAZ	L	P	During rain, the mud was observed to be present all around which could cause personnel to slip, causing multiple injuries	UC	The mud should be cleared or Backfilled with solid material. The topic to be discussed in the Daily toolbox to avoid future incidents because of such hazards	TTC	17/Mar/15	Closed	
98	17/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	S/T/F	HAZ	L	P	At CR1, there is sliding due to rain so any worker can be injured because of that and equipment can also be damaged.	UC	During rain, all the sliding area was being barricaded and work was delayed for some time.	TTC	17/Mar/15	Closed	
99	17/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	S/T/F	HAZ	L	P	After land sliding on CR-1 some people want to cross the road. There was possibility of falling material which could injure anybody passing through that area	UC	1: Barricadion of the area must be done 2: Trespass should be restricted in the sliding area to avoid accidents.	TTC	17/Mar/15	Closed	
100	18/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr )	HEA	HAZ	L	P	TTC workers were mixing cement in crush and sand aggregate without wearing dust masks which could cause lungs irritation and other chronic effects on continuous exposure to chemicals like cement	UA	1: Dust masks should be provided to all labor 2: Provision of safety goggles to avoid eye irritation. 3: Minimizing exposure limits of workers by job rotation	TTC	18/Mar/15	Closed	
101	18/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr )	FFH	HAZ	M	P	Scaffolds were not erected properly on block L2. Platforms planks and access ladders were missing, guard rails were also fixed improperly. Workers were climbing on the scaffolds without any access.	UC	Stopped the work and conducted a training session on scaffold erection. Intimated TTC personnel to erect the scaffolds properly and inform EPCC EHS team for inspection before carrying out any activity on the scaffolds.	TTC	18/Mar/15	Closed	

102	18/Mar/15	pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr.)	PHY	HAZ	L	P	There were steel nails observed beside building block-M in wooden planks which could injure anybody's foot	UC	1: All wooden planks should be stacked properly. 2: Steel nails should be plucked out from planks to avoid foot injury.	TTC	18/Mar/15	Closed	
103	19/Mar/15	Pakistan	daelim	EHS	EHS	Rohail Asghar (EHS Engr.)	PHY	HAZ	L	P	A TTC worker was working with a hammer that had no grip on its handle which could injure him or any other worker in the vicinity	UA	1: There should be the rubber grip on the handle to hold it firmly. 2: All portable tools should not be blunt like digger's edge or with broken heads like hammer's head in order to avoid manual handling injuries.	TTC	19/Mar/15	Closed	
104	19/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr.)	HEA	HAZ	L	E	Dust was spreading around due to movement of heavy equipment on site area which could stimulate sneezing reflex and lungs irritation to workers.	UC	1: There should be water sprinkling over road area on daily basis to control dust. 2: The vehicle's speed should be maximum as 05 Kmph. 03: three times sprinkling every sunny day.	TTC	19/Mar/15	Closed	
105	19/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr.)	S/T/F	HAZ	M	P	Beside camp B front of restaurant Sambu TTC's dumpers are turning back where there is no protection for reversing vehicles along the road bank which is located at height and the area is slippery. So any of the vehicles could overturn that might result in damage of equipment.	UC	1: Crush material should spread over the road to minimize slip hazard. 2: TTC should make a dike over there to minimize overturning and slip hazard	TTC	20/Mar/15	Closed	
106	20/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr.)	ENV	HAZ	L	E	Waste bins were full of waste material in front of Sambu residence that were creating ill smell in surrounding area	UC	1: Waste bins should be cleaned on every alternate day. 2: There should be a waste collector for collecting waste from all site area on daily basis	TTC	20/Mar/15	Closed	
107	20/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr.)	PHY	HAZ	L	P	Excavator helper was riding on moving excavator at CR-1 which could cause fall from height due to to and fro motion of excavator	UA	1: All workers and helpers should kept away from swing radius of excavator. 2: It will not be allowed for any worker/helpers to ride on excavator	TTC	20/Mar/15	Closed	
108	20/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr.)	PHY	HAZ	L	P	During unloading of rods local workers were not wearing the PPE's.	UC	Proper PPE's were provided to labors.	TTC	20/Mar/15	Closed	
109	20/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr.)	TSPT	HAZ	L	P	It was observed that vehicles were parked at construction area.	UC	There should be separate parking area project site and all vehicles should be parked there.	TTC	20/Mar/15	Closed	
110	20/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr.)	HEA	HAZ	L	E	It is observed that there is too much dust on site during day time.	UC	In sunny day, water sprinkling should be done twice a day.	TTC	20/Mar/15	Closed	
111	21/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr.)	EL	HAZ	M	P	Inside block-L, a TTC worker was connecting electrical cables to each others without disconnecting power which could cause electric shock to the involved worker.	UC	1: An electrician should connect wires instead of a general labor. 2: During any type of electric work disconnection of power should be done from the source. 3: Insulated gloves should be used during any repair work.	TTC	21/Mar/15	Closed	

112	21/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr)	ENV	HAZ	L	E	Waste bins were full of waste material in front of Sambu residence that were creating ill smell in surrounding area	UC	1: Waste bins should be cleaned on every alternate day. 2: There should be a waste collector for collecting waste from all site area on daily basis	TTC	21/Mar/15	Closed
113	21/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr)	FFH	HAZ	M	P	In L2 block, labor was working on wall without any support as a result of which he could get injury.	UA	Labor was instructed to wear full body harness.	TTC	21/Mar/15	Closed
114	22/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr)	OTH	HAZ	L	E	There was leakage of water from pipe in SAMBU's residence building.	UC	1: Pipe was being repaired by plumber. 2: The whole building was visited and remaining pipe lines were checked to ensure that either there is water leakage from anywhere or not.	TTC	22/Mar/15	Closed
115	22/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr)	S/T/F	HAZ	L	P	It is observed by HSE team that during concrete access was too much slippery in which anyone could be slipped.	UC	Access was properly installed and slippery hazard was overcome by clearing crush out of the way.	TTC	22/Mar/15	Closed
116	22/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr)	FFH	HAZ	M	P	TTC's workers were working in front of L block which was without barricading around its opening, which poses a person to fall in the trench.	UC	Barricading was being performed around the trench	TTC	22/Mar/15	Closed
117	22/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr)	HEA	HAZ	L	P	TTC workers were mixing cement in crush and sand aggregate without wearing dust masks which could cause lungs irritation and other chronic effects on continuous exposure to chemicals like cement	UC	1: Dust masks should be provided to all labor 2: Provision of safety goggles to avoid eye irritation. 3: Minimizing exposure limits of workers by job rotation	TTC	22/Mar/15	Closed
118	23/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr)	EL	HAZ	L	P	It is observed by EHS supervisor that some electric wires were placed on the way near joint restaurant which could break and someone could get electric shock.	UC	Wires were properly installed and instructed to put underground.	TTC	23/Mar/15	Closed
119	24/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr)	EL	HAZ	L	P	TTC's welder was working near water tank and welding plant's wire was connected in generator without plug which could result anyone to get an electric shock.	UC	Wire was properly plugged and installed in generator in a proper way.	TTC	24/Mar/15	Closed
120	24/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr)	OTH	HAZ	H	P	it is observed by EPCC EHS team that Some SAMBU's labors were swimming in the river.drowning hazard was observed.	UC	They are forbid to swim there and their management was informed.	Sam	24/Mar/15	Closed
121	25/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr)	S/T/F	HAZ	M	P	It was seen by EPCC EHS supervisors that some TTC's labors were washing clothes in river as a result any unexpectable incident could e happen.	UA	Restricted the labor to wash clothes there and their management was informed.	TTC	25/Mar/15	Closed
122	25/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr)	FFH	HAZ	L	P	It is observed by EPCC EHS supervisors that there was no access to climb on scaffolding in Block B.	UC	A proper access of scaffolding is installed and then starts the work.	TTC	25/Mar/15	Closed
123	25/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr)	S/T/F	HAZ	L	P	It was observed by EPCC EHS team that concrete blocks were unloaded from dumper in the road which poses a hurdle for crane and other heavy vehicles to pass.	UC	Blocks were removed from the way and access was made clear.	TTC	25/Mar/15	Closed
124	25/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr)	FFH	HAZ	L	P	Labor was working at a height at a platform with no handrail and midrail.he could fell from there and get an injury	UA	Platform was removed and was sent to work shop for installation of proper handrail and midrail.	TTC	25/Mar/15	Closed

125	25/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr )	HB	HAZ	L	P	Excavator operator was using mobile phone while operating excavator which can result in an accident.	UA	Operator was being restricted to use cell phone during work.	TTC	25/Mar/15	Closed	
126	25/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr )	FO	HAZ	L	P	Dozer was working behind the retaining wall and dumper dumped the material near the dozer from height as a result dozer could get struck by the falling material.	UC	One helper was appointed with dozer and the area was barricade.	TTC	25/Mar/15	Closed	
127	25/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr )	ENV	HAZ	L	E	It is observed by EPCC EHS supervisors that during the repairing of heavy machinery, oil was spilled on soil which results in contamination of soil.	UC	Oil was removed and instructed to use oil spill kits and dip trays under the machinery during repairing and maintenance work.	Sam	25/Mar/15	Closed	
128	26/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr )	FFH	HAZ	L	P	During water sprinkling, labor used to sprinkle by standing on tank as a result he can fell from there and could get an injury.	UA	A grill should be install on tanker so that it can save that person falling from there.	TTC	26/Mar/15	Closed	
129	26/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr )	TSPT	HAZ	L	P	Driver was using mobile while driving loaded dumper.It can result in collision with other vehicles.	UA	Driver was given instructions from EPCC EHS supervisor not to use cell phone during driving.	TTC	26/Mar/15	Closed	
130	26/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr )	FFH	HAZ	L	P	Excavator helper was riding on moving excavator at CR-1 which could cause fall from height due to to and fro motion of excavator	UA	1: All workers and helpers should kept away from swing area of excavator 2: It will not be allowed for any worker/helpers to ride on excavator	TTC	26/Mar/15	Closed	
131	26/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr )	HEA	HAZ	L	E	Dust was spreading around due to movement of heavy equipment on site area which could stimulate sneezing reflex and lungs irritation to workers.	UC	1: There should be water sprinkling over road area on daily basis to control dust. 2: The vehicle's speed should be maximum as 05 Kmph. 03: three times sprinkling every sunny day.	TTC	26/Mar/15	Closed	
132	27/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr )	FO	HAZ	L	P	At CR1, there is sliding due to loose material.any worker can be injured and equipment can also be damaged aswel.	UC	All the sliding area was being barricaded and work was delayed for some time.	TTC	27/Mar/15	Closed	
133	27/Mar/15	Pakistan	Daelim	EHS	EHS	Sahibzada Tanzeel (EHS manager)	ENV	VISIT	L	E	There are no fire/smoke detection devices in mess.	UC	Install smoke detectors in mess and held weekly inspection.	TTC	27/Mar/15	Closed	
134	27/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr )	FO	HAZ	M	P	After land sliding on CR-1 some people want to cross the road. There was possibility of falling material which could injure anybody passing through that area	UC	1: Barricadion of the area must be done 2: workers were restricted of passing through that area.	TTC	27/Mar/15	Closed	
135	27/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr )	HEA	HAZ	L	E	Dust was spreading around due to movement of heavy equipment on site area which could stimulate sneezing reflex and lungs irritation to workers.	UC	1: There should be water sprinkling over road area on daily basis to control dust. 2: The vehicle's speed should be maximum as 05 Kmph. 03: three times sprinkling every sunny day.	TTC	27/Mar/15	Closed	
136	27/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr )	FFH	HAZ	L	P	Excavator helper was riding on moving excavator at CR-1 which could cause fall from height due to to and fro motion of excavator	UA	1: All workers and helpers should kept away from swing area of excavator 2: It will not be allowed for any worker/helpers to ride on excavator	TTC	27/Mar/15	Closed	
137	29/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr )	S/T/F	HAZ	L	P	During rain, the mud was observed to be present all around which could cause personnel to slip, causing multiple injuries	UC	The mud should be cleared or Backfilled with solid material. The topic to be discussed in the Daily toolbox to avoid future incidents because of such hazards	TTC	29/Mar/15	Closed	

138	29/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr )	S/T/F	HAZ	L	P	During rain, the mud was observed to be present all around which could cause personnel to slip, causing multiple injuries	UC	The mud should be cleared or Backfilled with solid material. The topic to be discussed in the Daily toolbox to avoid future incidents because of such hazards	TTC	29/Mar/15	Closed
139	29/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr )	FO	HAZ	L	P	After land sliding on CR-1 some people want to cross the road. There was possibility of falling material which could injure anybody passing through that area	UC	1: Barricadion of the area must be done 2: workers were restricted of passing through that area.	TTC	29/Mar/15	Closed
140	29/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr )	S/T/F	HAZ	L	P	At CR1, there is sliding due to rain.Any worker can be injured because of that and equipment can also be damaged.	UC	During rain, all the sliding area was being barricaded and work was delayed for some time	TTC	29/Mar/15	Closed
141	30/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr )	S/T/F	HAZ	M	P	Due to sliding of loose material because of rain along weir access road located above box culvert some crakes were observed on the road. There was a hazard of overturning of heavy equipment passing through that area because of sliding of material continually on both side and cracks on the road.	UC	1: Installation of barricades to stop the movement of heavy equipment 2: Repairing and compaction of road to provide safe access. 3: Compaction of slopes on either side of road by excavator bucket or by doing some shotcrete there for long term control measure	TTC	30/Mar/15	Closed
142	30/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr )	S/T/F	HAZ	L	P	During rain, the mud was observed to be present all around which could cause personnel to slip, causing multiple injuries	UC	The mud should be cleared or Backfilled with solid material. The topic to be discussed in the Daily toolbox to avoid future incidents because of such hazards	TTC	30/Mar/15	Closed
143	30/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr )	FO	HAZ	L	P	After land sliding on CR-1 some people want to cross the road. There was possibility of falling material which could injure anybody passing through that area	UC	1: Barricadion of the area must be done 2: Wokers were restricted to pass from that area.	TTC	30/Mar/15	Closed
144	30/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr )	S/T/F	HAZ	L	P	At CR1, there is sliding due to rain so any worker can be injured because of that and equipment can also be damaged.	UC	During rain, all the sliding area was being barricaded and work was delayed for some time	TTC	30/Mar/15	Closed
145	31/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr )	S/T/F	HAZ	M	P	Due to sliding of loose material because of rain along weir access road located above box culvert some crakes were observed on the road. There was a hazard of overturning of heavy equipment passing through that area because of sliding of material continually on both side and cracks on the road.	UC	1: Installation of barricades to stop the movement of heavy equipment 2: Repairing and compaction of road to provide safe access. 3: Compaction of slopes on either side of road by excavator bucket or by doing some shotcrete there for long term control measure	TTC	31/Mar/15	Closed
146	31/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr )	S/T/F	HAZ	L	P	During rain, the mud was observed to be present all around which could cause personnel to slip, causing multiple injuries	UC	The mud should be cleared or Backfilled with solid material. The topic to be discussed in the Daily toolbox to avoid future incidents because of such hazards	TTC	31/Mar/15	Closed

147	31/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr.)	S/T/F	HAZ	L	P	At CR1, there is sliding due to rain. Workers can get injured because of that and equipment can also be damaged.	UC	During rain, all the sliding area was being barricaded and work was delayed for some time	TTC	31/Mar/15	Closed	
148	31/Mar/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engr.)	FO	HAZ	L	P	.After land sliding on CR-1 some people want to cross the road. There was possibility of falling material which could injure anybody passing through that area	UA	1: Barricadion of the area must be done 2: Worker were restricted to pass from that area.	TTC	31/Mar/15	Closed	
149	01/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	S/T/F	HAZ	L	P	Housekeeping condition was very poor around block L-2. Material was lying scattered which could result in trip and fall.	UC	1: Material should be stacked properly 2: Other waste should be collected and transferred to waste area.	TTC	01/Apr/15	Closed	
150	01/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	OTH	HAZ	L	P	Steel nails were fixed in woods after dismantling of formwork which could injure anybody's foot.	UC	1: Steel nails should be removed from planks after dismantling of formwork. 2: Planks should be stacked at a safe side	TTC	01/Apr/15	Closed	
151	01/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	During rain water was seeping inside shoes of workers	UC	Gum should be provide to all workers by concerned companies.	TTC	01/Apr/15	Closed	
152	01/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FO	HAZ	M	P	Due to rain sliding of loose material and stones were observed on CR-1. objects could fall down and hit anybody that could be a life threat	UC	Instruction must be given to all workers not to travell on CR-1 during rain	Sam	01/Apr/15	Closed	
153	02/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	ENV	HAZ	L	P	There was no place to collect site waste at one location	UC	1: There should be waste area at the site to collect site waste before transfer it to other location. 2: Sign board should be installed there to identify the area.	EHS	02/Apr/15	Closed	
154	02/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	Workers were surrounding the welding area during welding of shell plates which were directly exposing to radiation emitted during welding causing eye irritation	UC	1: Presence of other workers in welding area which are not involved in welding activity should be prohibited. 2 welders and their helpers should wear coverall, guantlets and welding helmets to avoid irritation.	TTC	02/Apr/15	Closed	
155	02/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FO	HAZ	L	P	The scaffolds' stand made to carry water tanks over it was not stable enough to withstand strong wind and weight of water tanks; it could fall down and injure anybody.	UC	1: There should be firm support on four corners to stabilize the stand. 2: Installed brace footing should be on ground.	TTC	02/Apr/15	Closed	
156	02/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	L	P	Wooden standard were installed under the platform to give support to it, which might collapse resulted in fall of personnel working at the platform	UA	1: For general purpose scaffold standard should be erect two meters away from each other to give sufficient support to ledgers and transoms which ultimaty give support to platform. 2: Steel tubes should be erected instead of woods.	TTC	02/Apr/15	Closed	
157	03/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	PHY	HAZ	L	P	There are no safe guards over pulleys of concrete mixtures so any worker could injure due to intanglement or due to severing and cutting	UC	1: The all exposed parts of concrete mixer should be guarded properly to avoid any injury	TTC	03/Apr/15	Closed	
158	03/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	M	P	A TTC worker was working on scaffold without safety harness at a height of almost 4-meters behind Daelim site office	UA	1: Every worker must wear safety harness at a height above 1.8 meters. 2: Safety harness should be hooked with handrail or lifeline in absence of handrails	TTC	03/Apr/15	Closed	
159	03/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	S/T/F	HAZ	L	P	There is lot of sludge on box culvert road due to which everybody find it difficult to cross the road due to slip trip and fall hazard	UC	1: Road should be compacted with solid material. 2: Sludge should be reomved from the road area	TTC	03/Apr/15	Closed	
160	03/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	S/T/F	HAZ	L	P	Steel wires were lying on the way to Block-B posing trip hazard to workers	UC	1: There should be proper housekeeping of the working area. 2: Issue should be discussed in the tool box meeting	TTC	03/Apr/15	Closed	
161	04/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	S/T/F	HAZ	M	P	During rain TTC dumpers were moving on weir access road where there was hazard of overturning of dumpers due to slip	UA	1: During rain dumpers driver should not drive their dumpers 2: TTC Construction supervisors should be warned about forcing dumper drivers to drive in rain	TTC	04/Apr/15	Closed	

162	04/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	CWO	HAZ	M	P	A TTC supervisor was passing along moving excavator without signalling to operator for stoping of excavator's movement whose boom could struck to him	UA	1:Every person should remain out of excavator's boom radius 2:There should be a signalmen deputed on duty with excavator to carry out sfae work 3: TTC Supervisor should warned about doing such a mistake	TTC	04/Apr/15	Closed	
163	04/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FO	HAZ	M	E	At evening time after finishing the day shift work TTC Operators often park their machinery in sliding area at CR-1 that could result in equipment damage due to sliding of material	UA	1:All operator should parked their machinery out of CR-1 danger zone 2: Topic should be discussed in tool box talks	TTC	04/Apr/15	Closed	
164	04/Apr/15	Pakistan	Daelim	EHS	EHS	m. Saboor Khan EHS Engr.	FFH	HAZ	L	P	A TTC worker was erecting scaffold to make platform for installation of water tank shell plates without wearing safety harness which could result in fall from hight	UA	Every worker must wear safety harness to carry out work over 2 meter height.	TTC	04/Apr/15	Closed	
165	05/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	CWO	HAZ	L	P	One of the TTC workers was observed without safety helmet at the time after shot being fired. Though he was out of 100 meter area but there could be the chance of fly rock that might struck him on head	UA	Every worker must wear safety helmet at site to keep his head safe from flying and falling objects	TTC	05/Apr/15	Closed	
166	05/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	L	P	TTC workers were using a ladder to climb up on roof that had no handrail; somebody could fall down due to imbalncing of his body	UC	The fixed ladders must have handrails to eliminate FFH hazard	TTC	05/Apr/15	Closed	
167	06/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	MH	HAZ	L	P	Sambu workers were lifting wire mesh pieces in workshop area without using safety gloves which could puncture their skin	UA	All worker should worn safety gloves while carrying out manual activities	Sam	06/Apr/15	Closed	
168	06/Apr/15	Pakistan	Daelim	EHS	EHS	m. Saboor Khan EHS Engr.	S/T/F	HAZ	L	P	TTC personnel did not make drains along Cr-1 to drain out water coming down from slopes to road area making it very slippery for the vehicles moving up and down on CR-1	UC	There should be proper drainage system along left side of road towards slope area to drian out seeping water from slopes.	TTC	06/Apr/15	Closed	
169	06/Apr/15	pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	CWM	HAZ	M	P	There is no adjustable guard fixed over rotating belt and drive mechanism of the compressor operating by TTC workers . Hazard includes entanglement caught in, draw in, abrassions	UC	Adjustible guard should be fixed over roatating belt and drive mechanism (pulleys)	TTC	06/Apr/15	Closed	
170	06/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	L	P	There was wide gap between two paliforms used as access ways to make block-B concrete	UC	Plates should be joint to remove the gap or handrails should be installed to make two separate ways for protection of workers passing there.	TTC	06/Apr/15	Closed	
171	06/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FE	HAZ	L	P	A worker was going in welding area whose clothes were wet with combustible fuel which could get fire due to arc welding	UA	1:Stop the entry of such workers in any site area 2: There should be no combustibile material in welding area 3: EPCC EHS team should conduct a training session about welding and cutting safety to welders and their helpers.	TTC	06/Apr/15	Closed	
172	07/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	TC	HAZ	L	P	TTC workers were cutting wooden planks over erected steel that had wide gaps among cross bars, so somebody's foot could trapped in one of those gaps causing injury to him (bridge abetment)	UC	Wooden planks should be placed over erected steel to avoid trapping hazard	TTC	07/Apr/15	Closed	
173	07/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	EL	HAZ	M	P	high transmission power lines are passing over road beside box culvert at a height of almost 10-12 meters. Passage of heavy equipment from that area can be in danger in case of any negligency committed by operators/drivers	UC	Removal of Electric supply lines from that particular area to any other location where there is restricted movement of heay equipment	OTH	07/Apr/15	Closed	
174	07/Apr/15	Pakistan	Daelim	EHS	EHS	m. Saboor Khan EHS Engr.	FFH	HAZ	M	P	TTC workers were constructing scaffold around water tank without using safety harness that could result in fall of workers from height	UA	Every worker must wear safety harness to carry out work over 2 meters height.	TTC	07/Apr/15	Closed	
175	07/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	S/T/F	HAZ	L	P	Material was spreading around abetment steel erection area posing trip hazard to the workers working there.	UC	proper housekeeing should be done in abetment premises.	TTC	07/Apr/15	Closed	
176	08/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	ENV	HAZ	L	P	Kitchen waste is lying on backside of kitchen that is a source of spread of mosquitos and other insects.	UC	Kitchen waste should be disposed by making a trench in disposal area.	TTC	08/Apr/15	Closed	
177	08/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HB	HAZ	M	P	TTC dumpers helpers and operators were sitting inside a drain pipe in material yard area that could be roll over the slope and might cause injuries to personnel sitting inside it.	UA	Workers must be informed by HSE team about the hazard of sitting inside drain pipes. The topic should be discussed in daily tool box talks	TTC	08/Apr/15	Closed	
178	08/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	ENV	HAZ	L	P	TTC workers are throwing waste backside of their building instead of collecting it in bins provided at site that is creating environmental pollution.	UC	Waste should be collected by TTC personnel from backside of the building.	TTC	08/Apr/15	Closed	
179	09/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	M	P	TTC workers were climbing on formwork to tie it with steel wires without using any ladder. There was risk of injury due to fall of workers	UA	Formwork should be provided with ladder to do any sort of work over 1.5- meter height	TTC	09/Apr/15	Closed	

180	09/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	L	P	There were no handrails around formwork installed to make abetment concrete. There was hazard of falling down of personnel who were using vibrator standing on top of erected steel over planks.	UC	TTC should construct handrail around formwork for maximum protection of workers	TTC	09/Apr/15	Closed	
181	09/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	S/T/F	HAZ	L	P	TTC personnel did not make drains along Cr-1 to drain out water coming down from slopes to road area making it very slippery for the vehicles moving up and down on CR-1	UC	There should be proper drainage system along left side of road towards slope area to drain out seeping water from slopes.	TTC	09/Apr/15	Closed	
182	09/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	TSPT	HAZ	M	P	At CR-1 during mucking activity dumpers were loaded over than their capacity which might cause overturning of dumpers	UC	1: Dumpers should not be overloaded than their capacity to carry material. 2: TTC supervisors should monitored the excavation and transportaion of material in dumpers	TTC	09/Apr/15	Closed	
183	10/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FO	HAZ	M	P	Excavation work was being carried out by Sambu operators who were pushing the material downside where TTC workers were erecting formwork to make concrete for fixing pulley. Falling stones could injured the workers making concrete.	UA	1:Every person is responsible of safety of himself and other workes working at site 2: There should be clear communication among workers working up and downsides 3: There should be signalman for carrying out the activity safely.	Sam	10/Apr/15	Closed	
184	10/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	CWC	HAZ	L	P	During B-block concrete workers were working without wearing safety gloves and dust masks exposing themselves to chemical present in concrete and cement dust that causes skin, eye and lungs irritation	UA	TTC should provide PPE to all labor with respect to their work. The damaged PPE should be changed with new ones	TTC	10/Apr/15	Closed	
185	10/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	VIO	HAZ	L	P	TTC storekeeper is using abusive language with labor instead of provision of PPE which can create violence at work.	UA	TTC Management should investigate the matter and shold take strict action against the storeman.	TTC	10/Apr/15	Closed	
186	04/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	L	P	The steel hooks fixed in boulders on either side of the river for anchoring steel rope that carried lift's pulleys over it can be collapsed by the force exerted by rope on steel hooks due to load carried by lift resulting in fall of personnel and material	UC	QA/QC department should carry out load test to check the load bearing capacity of anchored hooks.	OTH	11/Apr/15	Closed	
187	11/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	M	P	The lift installed over river is not connected with underneath wires at both outer edges of lift that is posing fall hazard to workers and material contained in it	UC	There should be two tubes welded with outer edges of trolley/lift Those wires should pass through the tubes These wires should be anchored with steel	OTH	11/Apr/15	Closed	
188	11/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	M	P	The steel rope anchored to carry lift contain two parts tied with coupler; one of which is almost 50 meter long having diameter 30mm and the other one is 20 to 25 meter in	UC	Construction department EPCC should carry out load test to check bearing capacity of rope	OTH	11/Apr/15	Closed	
189	11/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	ENV	HAZ	M	P	TTC workers were pushing loose excavated material on slope edge that could cause river water contamination	UA	The excavated material should be loaded in dumpers for its disposal	Sam	11/Apr/15	Closed	
190	11/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	TTC labor was washing their hands in front of kitchen from drinking water contained in coolers placed in assembly point. The droned water was accumulated there creating	UC	All labor should wash their hands in basin installed in labor mess	TTC	11/Apr/15	Closed	
191	12/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	S/T/F	HAZ	L	P	Some boulders were lying on the way to lift installed over river creating trip hazard to workers removing abetment	UC	The boulders were heavy to remove with hands so wooden planks should placed there	TTC	12/Apr/15	Closed	
192	12/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	ENV	HAZ	L	P	Hydraulic fluid leaked from crawler's hydraulic pipe that polluted the soil	UC	The contaminated soil should be collected and disposed.	Sam	12/Apr/15	Closed	
193	12/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HB	HAZ	L	P	Sambu driver was wondering on site area without PPE that promote a negative safety culture in other workers	UA	Sambu should provide PPE to the drivers who stayed at site with their Managers.	Sam	12/Apr/15	Closed	
194	12/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	M	P	The planks installed to construct platform for unloading of material from lift are not sufficient in number. There is hazard of fall of personnel working over it	UC	To remove gaps of the platform sufficient planks should be fixed there by TTC workers	TTC	12/Apr/15	Closed	
195	13/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	PHY	HAZ	L	P	TTC workers do not wear coverall so their casual colthes and skin can burn due to arc produced by welding	UA	All welders should protect their whole body by wearing coverall gauntlets welding helmet while carrying out welding work	TTC	13/Apr/15	Closed	
196	13/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HB	HAZ	L	P	After several times of intimation TTC workers are continuously going in welding area without wearing safety goggles and coverall	UA	Unauthorized entry will be strictly prohibited in welding area All workers should wear PPE required for welding work	TTC	13/Apr/15	Closed	
197	13/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	M	P	Dumped material was being pushed by Dozer from road to backfill the abetment area where TTC workers were arranging material to make concrete. Falling stones could hit anybody in that area	UA	Workers should be evacuated from the area during such type of activity Signalman should communicate with the operators about presence of workers.	TTC	13/Apr/15	Closed	
198	13/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	S/T/F	HAZ	L	P	Steel wires were lying on the way to bridge abetment posing trip hazard to workers	UC	1:There should be proper housekeeping of the working area. 2: Issue should be discussed in the tool box meeting	TTC	13/Apr/15	Closed	

199	14/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FO	HAZ	L	P	Excavation work was being carried out by Sambu operators who were pushing the material downside where TTC workers were erecting formwork to make concrete for fixing pulley. Falling stones could injure the workers making concrete.	UA	1: Every person is responsible of safety of himself and other workers working at site 2: There should be clear communication among workers working up and down sides 3: There should be signalman for carrying out the activity safely.	Sam	14/Apr/15	Closed	
200	14/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	M	P	TTC workers were riding on the bumpers of dump truck on coming outside to site area	UA	Nobody should ride on dump trucks TTC Management should provide vehicles for pick and drop of workers	TTC	14/Apr/15	Closed	
201	14/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	M	P	TTC workers wanted to cross the river by sitting in lift from left bank to right bank. Workers could fall off lift by collapse of wire rope that was not anchored properly and had two wire ropes connected with it having small diameter towards right bank	UC	Nobody should ride on such a lift Supervisors are responsible for prohibition of workers to ride on lift. Every body should be informed about prohibition of riding on trolley/lift and The topic to be discussed in the Daily toolbox talks to avoid future incidents	TTC	14/Apr/15	Closed	
202	14/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	ENV	HAZ	M	P	Waste bins were full of waste material in front of Sambu residence that were creating ill smell in surrounding area	UC	1: Waste bins should be cleaned on every alternate day. 2: There should be a waste collector for collecting waste from all site area on daily basis 3: The topic to be discussed in the Daily toolbox talks to avoid such things.	Sam	14/Apr/15	Closed	
203	15/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	EL	HAZ	M	P	High transmission power lines are passing over road beside box culvert at a height of almost 10-12 meters. Passage of heavy equipment from that area can be in danger in case of any negligence committed by operators/drivers	UC	1: There should be a signal man for giving instruction to drivers. 2: If possible then change the access of heavy equipments. 3: The topic to be discussed in the Daily toolbox talks to avoid future incidents	OTH	15/Apr/15	Closed	
204	15/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	ENV	HAZ	L	E	TTC workers were pushing loose excavated material on slope edge that could cause river water contamination.	UA	The excavated material should be loaded in dumpers for its disposal. 2: The topic to be discussed in the Daily toolbox talks to avoid these things.	TTC	15/Apr/15	Closed	
205	15/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	M	P	The planks installed to construct platform for unloading of material from lift are not sufficient in number. There is hazard of fall of personnel working over it and people could be injured.	UC	To remove gaps of the platform sufficient planks should be fixed there by TTC workers and The topic to be discussed in the Daily toolbox talks to avoid future incidents	TTC	15/Apr/15	Closed	
206	16/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FO	HAZ	M	P	Some of the TTC personnel broke the barricade to go CR-1 area in bad weather conditions where there was hazard of fall of loose material from the slopes	UA	Nobody should go in that particular area. The topic should be discussed in tool box meeting	TTC	16/Apr/15	Closed	
207	17/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	TTC labor was washing their hands in front of kitchen from drinking water contained in coolers placed in assembly point. The dropped water was accumulated there creating marsh in that area that is favourite habitat of Mosquitoes the source of spread of Malaria	UC	All labor should wash their hands in basin installed in labor mess	TTC	17/Apr/15	Closed	
208	17/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	TC	HAZ	L	P	A mixer is being used by TTC workers to make concrete that have no safe guards over rotating pulleys. There is a hazard of draw in and entanglement	UC	All exposed parts of mixer should be covered properly with adjustable guards	TTC	17/Apr/15	Closed	
209	17/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	PHY	HAZ	L	P	TTC workers were carrying out welding work on left bridge abutment without wearing overall to avoid radiation hazard. There was no properly filled work permit	UA	Requirement of work permit and other PPE must be fulfilled by TTC workers	TTC	17/Apr/15	Closed	
210	17/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FO	HAZ	M	P	TTC workers were working under the slope at CR-1 without wearing safety helmet. There was hazard of falling objects	UA	All worker should wear all PPE especially safety helmet while working under slope.	TTC	17/Apr/15	Closed	
211	18/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	TC	HAZ	L	P	OE representative was passing under the crane boom whilst lifting work was being carried out	UA	Owner Engineer representative should be intimated about the hazard of passing under crane boom that struck by and crushing in nature due to load or hydraulic failure.	OTH	18/Apr/15	Closed	
212	18/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	MH	HAZ	L	P	TTC workers were lifting concrete bricks without wearing safety gloves	UA	TTC should provide safety gloves to all workers	TTC	18/Apr/15	Closed	
213	19/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	OTH	HAZ	M	P	Sigma company workers were using old rusty and worn sling to lift the load more than 3 tons. There was a hazard of load failure	UA	Sigma workers should use new slings that Daelim HSE department have provided them.	OTH	19/Apr/15	Closed	

214	19/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	M	P	Daelim Crane operator was standing at overhanged load during unloading of BP material who could fall from height	UA	Nobody should ride on the overhanged material. Slingers should kkeep away from lifted materail and should control the load by using tagline	OTH	19/Apr/15	Closed	
215	19/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	TC	HAZ	L	P	Rigger was passing under overhanged load by crane. Load failure could crush him due the unsafe act being don by rigger	UA	Nobody should pass under the overhanged material.	OTH	19/Apr/15	Closed	
216	20/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	MH	HAZ	L	P	TTC workers were rolling muddy drum on road without wearing safety gloves. That kind of work could injure their hand due to sharp objects present in the mud	UA	All people should wear sfety gloves while carrying out manual handling activities	TTC	20/Apr/15	Closed	
217	20/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HB	HAZ	L	P	TTC workers were working in slippers near left abetment of bridge that was violation of safety rules	UA	TTC should provide workers safety shoes and other PPE	TTC	20/Apr/15	Closed	
218	20/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FO	HAZ	M	P	TTC workers were passed their night sleeping on the CR-1. There was a hazard of falling objects due to sliding of material	UA	Nobody should sllep or sit under slopes. TT C should provide workes proper accomodation to for living	TTC	20/Apr/15	Closed	
219	20/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	OTH	HAZ	L	P	The girder post installed over left abetment is fixed with bolts in concrte without applying chemical or grout. There can be collapse of post when load will be crried in trolley	UC	Bolts should be fixed firmly with chemical or with grout to reduce the chances of collapse	TTC	20/Apr/15	Closed	
220	21/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	M	P	There was a wide gap between ladder and platform installed around water tank. The workers going up to the platform could fall down from height due to gap between ladder and platform	UC	TTC workers should install some planks to remove the gap between ladder and platform.	TTC	21/Apr/15	Closed	
221	21/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	L	P	The handrails were installed away from platform, so there was gap between platform and handrail.there was chances of fall of workers	UC	The installed standards must be tied with ledgers to avoid gaps bewtween platform and hand rails constructed over the extended ledgers	TTC	21/Apr/15	Closed	
222	21/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	M	P	There is no protection around water tank roof so somebody call fall from height	UC	TTC should install grill around water tank to provide protection to workers	TTC	21/Apr/15	Closed	
223	22/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FE	HAZ	M	P	The cotton rope used to tie steel plates to construct platform got fire where acetylene gas pipe was passing. There was hazard of fire and exlosion if gas hose would burn due to fire produced by bruning of ropes due to welding cutting work	UA	The steel planks should be welded or tied with steel wires properly to avoid fire hazard	TTC	22/Apr/15	Closed	
224	22/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	ENV	HAZ	L	P	There was lot of waste around L2 building that was polluting the environment	UC	TTC workers should transfer the waste to waste area for its disposal	TTC	22/Apr/15	Closed	
225	22/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	MH	HAZ	L	P	TTC workers were lifting concrete bricks without wearing safety gloves	UA	Every worker must wear safety gloves to avoid manualhandling hazards	TTC	22/Apr/15	Closed	
226	23/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FE	HAZ	L	P	TTC workers were smoking in the area of gas cylinder storage which might result in fire and explosion	UA	No body should smoke inside cylider storage site. The topic should be discussed in tool box meeting	TTC	23/Apr/15	Closed	
227	23/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	L	P	There were no handrails around formwork installed to make abetment concrete. There was hazard of falling down of personnel	UC	There should be proper handrails around the platform to avoid fall hazard	TTC	23/Apr/15	Closed	
228	23/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	M	P	Beside left abetment the road edge is quite open so there is a hazard of fall of personnel working in that area	UC	That area should be barricaded properly to avoid fall hazards	TTC	23/Apr/15	Closed	
229	24/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	M	P	TTC workers wanted to cross the river by sitting in lift from left bank to right bank. Workers could fall of lift by collapse of wire rope that was not anchored properly	UC	TTC management should be clearly informed about the prohibition of crossing river by way of lift	TTC	24/Apr/15	Closed	
230	24/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	SEC	HAZ	M	C	Some local people were swimming in the river inside project area. Anbody could drown in deep water	UC	Security should stop the unauthorized entry in the poject area	OTH	24/Apr/15	Closed	
231	25/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	L	P	Wooden standard were installed under the platform to give support to it, which might collapse resulted in fall of personnel working at the platform	UC	1: For general purpose scaffold standard should be erect two metesr away from each other to give sufficient support to ledgers and transoms which ultimatly give support to platform. 2: Steel tubes should be erected instead of woods.	TTC	25/Apr/15	Closed	
232	25/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	ENV	HAZ	L	P	Near bridge area there is lot of waste scattered around AES shelter	UC	Waste bins should be provided to AES by TTC to cotain waste	TTC	25/Apr/15	Closed	

233	26/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	OTH	HAZ	L	P	Steel nails were fixed in woods after dismantling of formwork which could punctured to anybody,s foot	UC	1:Steel nails should be removed from planks after dismantling of formwork. 2: Planks should be stacked at a safe side nails should be removed from planks after dismantling of formwork.	TTC	26/Apr/15	Closed
234	26/Apr/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FE	HAZ	M	P	TTC workers do not wear overall so their casual colthes and skin can burn due to arc produced by welding	UA	All welders should protect their whole body by wearing overall gauntlets welding helmet while carrying out welding work	TTC	26/Apr/15	Closed
235	27/Apr/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (HSE Engrn)	S/T/F	HAZ	L	P	During rain, the mud was observed to be present all around which could cause personnel to slip, causing multiple injuries	UC	The mud should be cleared or Backfilled with solid material. The topic to be discussed in the Daily toolbox to avoid future incidents because of such hazards	TTC	27/Apr/15	Closed
236	27/Apr/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (HSE Engrn)	S/T/F	HAZ	L	P	At CR1, there is sliding due to rain so any worker can be injured because of that and equipment can also be damaged.	UC	During rain, all the sliding area was being barricaded and work was delayed for some time	TTC	27/Apr/15	Closed
237	27/Apr/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (HSE Engrn)	S/T/F	HAZ	L	P	After land sliding on CR-1 some people want to cross the road. There was possibility of falling material which could injure anybody passing through that area	UC	1: Barricadion of the area must be done 2: Prohibition to personnel passing through that area	TTC	27/Apr/15	Closed
238	28/Apr/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (HSE Engrn)	S/T/F	HAZ	M	P	Work of welding was being performed on water tank's roof. There was no grill there. Anyone could fell from there and injured.	UC	Rope barricadion was done on the roof of water tank and workers were asked to wear safety built.	TTC	28/Apr/15	Closed
239	28/Apr/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (HSE Engrn)	FFH	HAZ	M	P	Workers were doing work on water tank's roof in darkness without lighting and any accident could be happen there.	UC	Work was delayed and they were asked to arrange proper lighting for work.	TTC	28/Apr/15	Closed
240	28/Apr/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (HSE Engrn)	CWC	HAZ	L	P	During cement mixing, there was too much dust of cement, which was entering in worker's eyes, due to which eyes of workers could be damaged.	UC	Workers were asked to wear safety glasses and dust masks.	TTC	28/Apr/15	Closed
241	29/Apr/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (HSE Engrn)	PHY	HAZ	L	P	During welding work, labor's shoes were damaged due to which they could get electric current.	UC	Labor's shoes were being changed.	TTC	29/Apr/15	Closed
242	29/Apr/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (HSE Engrn)	OTH	HAZ	L	P	Dumper helper was doing work in night without wearing reflector jacket. In darkness he could be hit with any vehicle and injured.	UA	Worker was asked to wear reflector jacket.	TTC	29/Apr/15	Closed
243	29/Apr/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (HSE Engrn)	FFH	HAZ	L	P	There was no barricadion around soakage pit and anyone could be fell there.	UC	Barricadion was done around the soakage pit so that no one could fell there.	TTC	29/Apr/15	Closed
244	29/Apr/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (HSE Engrn)	FO	HAZ	L	P	During crane operation, workers were standing in barricadion area as a result of which something could hit them.	UA	Workers were asked to go out from barricadion area and crane operation was completed.	TTC	29/Apr/15	Closed
245	30/Apr/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (HSE Engrn)	ENV	HAZ	L	P	Some workers were smoking on the way which is the cause of environmental pollution.	UA	Workers were forbid from smoking in open area and were sent to smoking zone for smoking.	TTC	30/Apr/15	Closed
246	30/Apr/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (HSE Engrn)	S/T/F	HAZ	L	P	During rain, the mud was observed to be present all around which could cause personnel to slip, causing multiple injuries	UC	The mud should be cleared or Backfilled with solid material. The topic to be discussed in the Daily toolbox to avoid future incidents because of such hazards	TTC	30/Apr/15	Closed

247	30/Apr/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (HSE Engr)	S/T/F	HAZ	L	P	At CR1, there is sliding due to rain so any worker can be injured because of that and equipment can also be damaged.	UC	During rain, all the sliding area was being barricaded and work was delayed for some time	TTC	30/Apr/15	Closed	
248	30/Apr/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (HSE Engr)	S/T/F	HAZ	L	P	After land sliding on CR-1 some people want to cross the road. There was possibility of falling material which could injure anybody passing through that area	UC	1: Barricadion of the area must be done 2: Prohibition to personnel passing through that area	TTC	30/Apr/15	Closed	
249	02/May/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	M	P	TTC workers using scaffold platform on right abutment that had no handrails so there was a hazard of fall of workers	UC	There should be proper edge protection with guardrail handrail to avoid fall hazard	TTC	May/02/15	Closed	
250	02/May/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	ENV	HAZ	L	P	TTC workers were pushing concrte waste with handshawal on the river bank that could contaminate the river water	UA	Concrte waste should be loaded in dumpers to dispose it in disposal area	TTC	02/May/15	Closed	
251	02/May/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	ENV	HAZ	L	P	Waste was spread around bridge abutment that could create water pollution due to wind dispersal	UC	TTC should do proper housekeeping of the area	TTC	02/May/15	Closed	
252	02/May/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FO	HAZ	L	E	There is a large boulder located just above the fuel tank placed in workshop area that can slide down and may damage fuel tank	UC	TTC should shift the fuel tank to other location.	Sam	02/May/15	Closed	
253	03/May/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	CWO	HAZ	L	C	Dumper drivers often drive dumpers on main road with excessive speed which can cause collision of personnel or equipment with fast moving dumpers	UA	Such drivers should be warned about doing unsafe act. The issue should be discussed in tool box talks	TTC	03/May/15	Closed	
254	03/May/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	L	P	TTC workers were making concrete of block A by placing a ladder against the wall at a height of 3-meters without any platform. There was risk of injury due to fall of any personal	UA	There should be proper platform provided with ladder to carry out work at height	TTC	03/May/15	Closed	
255	03/May/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	CWO	HAZ	M	P	TTC workers were loading steel girders in dumpers without attaching tagline with girders to control its sidewise movement. The girder could struck any body moving the overhanged girder with hands	UA	While carrying out lifting activity tagline should be attached with rope to balance the weight	TTC	03/May/15	Closed	
256	03/May/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	CWC	HAZ	L	P	TTC workers were mixing cement in crush and sand aggregate without wearing dust masks which could cause lungs irritation and other chronic effects on continuous exposure to chemicals like cement	UA	All workers should wear dust mask to avoid lungs irritation caused by cement dust. TTC should provide dust masks to labor	TTC	03/May/15	Closed	
257	04/May/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HB	HAZ	L	P	TTC workers were working in slippers near left abtment of bridge that was violation of safety rules	UA	TTC should provide shoes to all labor working at any site area	TTC	04/May/15	Closed	
258	04/May/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	MH	HAZ	L	P	TTC workers were lifting concrete bricks without wearing safety gloves	UA	TTC should provide gloves to all labor working at any site area. Labor should wear safety gloves during manual lifting	TTC	04/May/15	Closed	
259	04/May/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	M	P	TTC workers were making concrete of block -A by placing a ladder against the wall at a height of 3-meters without any platform. There was risk of injury due to fall of any personal	UA	1: There should be enough material to construct scaffold around the building to make concrete on top of the walls 2: There should be proper platform with handrails and access ladders to approach platform	TTC	04/May/15	Closed	
260	04/May/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	ENV	HAZ	L	P	Kitchen waste is lying on backside of kitchen that is a source of spread of mosquitos and other insects	UC	Kitchen waste should be disposed by making a trench in disposal area	TTC	04/May/15	Closed	
261	05/May/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	CWO	HAZ	L	P	Dumper drivers often drive dumpers on main road with excessive speed which can cause collision of personnel or equipment with fast moving dumpers	UA	Such drivers should be warned about doing unsafe act. The issue should be discussed in tool box talks	TTC	05/May/15	Closed	
262	05/May/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	PHY	HAZ	L	P	TTC workers were carrying out welding work on left bridge abtment without wearing overall to avoid radiation hazard. There was no properly filled work permit	UA	There should be properly filled work permit before carrying out welding activity. All welding requirement must be fulfilled	TTC	05/May/15	Closed	
263	05/May/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	TTC workers area drinking spring water while working on CR-1 area	UA	Labor and their supervisors shuld carry water from Mess. The spring water should be prohibited. The topic must be discussed in TBT	TTC	05/May/15	Closed	
264	06/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FFH	HAZ	M	P	It is observed by DAELIM's EHS team that people were working on scaffolding in camp A but there was no handrail and midrail of scaffolding. Labor can fall down because of absence of handrail and midrail.	UA	TTC should hire some trained scaffolder to install scaffold and construct handrail and midrail of scaffolding.	TTC	06/May/15	Closed	

265	06/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	ENV	HAZ	L	P	Kitchen waste is lying on backside of kitchen that is a source of spread of mosquitos and other insects.	UC	Kitchen waste should be disposed by making a trench in disposal area.	TTC	06/May/15	Closed	
266	06/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	ENV	HAZ	L	P	Dust was spreading around due to movement of heavy equipment on site area which could stimulate sneezing reflex and lungs irritation to workers.	UC	1: There should be water sprinkling over road area on daily basis to control dust. 2: The vehicle's speed should be maximum as 05 Kmph. 03: three times sprinkling every sunny day. V	TTC	06/May/15	Closed	
267	07/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	ENV	HAZ	L	P	It is observed by EPCC HSE team during ifting operation at CR-1, there was oil spills from crane which was contaminating the soil.	UC	1: Oil spills were removed and TTC was asked to use oil spill kits. 2: The topic to be discussed in the Daily toolbox talks to avoid future incidents because of such hazards	TTC	07/May/15	Closed	
268	07/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	ANM	HAZ	H	P	Three time snake is seen on site which can harm any worker any time.	UC	Snake catcher was demanded. This topic is already discussed in TBM.	TTC	07/May/15	Closed	
269	07/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	PHY	HAZ	M	P	It is observed that there is too much sankes at site and at night, people go to restaurant for dinner by wearing slippers due to which snake can harm anyone of them.	UA	The issue is discussed in TBM and people are advised to use shoes to go to restaurant and their management was informed.	TTC	07/May/15	Closed	
270	08/May/15	pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	PHY	HAZ	L	P	It is observed that during the concrete of box culvert, some of TTC workers were not wearing proper PPEs due to absence of PPEs workers could be injured.	UA	1: Workers were asked to wear PPEs and their managemnet was informed and topic is already discussed in TBM.	TTC	08/May/15	Closed	
271	08/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	PHY	HAZ	L	P	It is observed by EPCC HSE team, during the concrete of Box culvert, cement bags were scattered on the way due to which anyone could fell and get injured.	UA	1: Proper stacking was done with the help of labors and cement bags were removed from the way.	TTC	08/May/15	Closed	
272	08/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FFH	HAZ	L	P	TTC's worker was doing welding on height and he was wearing full body harness but safety harness was not fasten with catch point due to which he could fell and injured.	UA	The issue is discussed in TBM and worker was asked to fasten full body harness with catch point.	TTC	08/May/15	Closed	
273	08/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	S/T/F	HAZ	L	P	it is observed that an extra person was standing on tractor with driver. He could be fell from there and injured.	UA	1:The labor was asked to come beneath from the tractor and he was told that he could fell and injured, in this way in one time there should be one person on tractor. 2: this topic was discussed in tool box talk.	TTC	09/May/15	Closed	
274	09/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FO	HAZ	L	P	it is observed that some workers were lying beneath the slope. Anything could be fell from slope and could be injured.	UA	1: the workers were asked to get aside from the slope. 2: this topic was discussed in tool box talk.	TTC	09/May/15	Closed	
275	09/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	HB	HAZ	M	P	During work, two workers were abused each other and fought as a result of which anyone of them could be injured.	UA	1: Both of the two workers were out from the site. 2: this topic was discussed in tool box talk.	TTC	09/May/15	Closed	
276	10/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	HEA	HAZ	L	P	Kitchen waste is scattered at backside of restaurant that is a source of spread of mosquitos and other insects.	UC	Kitchen waste should be properly disposed and the management of restaurant was informed.	TTC	10/May/15	Closed	
277	10/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FFH	HAZ	L	P	it is observed that near the box culvert there is blind slope and there is no barricadion due to which anyone can fell from there and injured.	UC	Barricadion was done around the slope and a signal man was appointed there permanently.	TTC	10/May/15	Closed	
278	10/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	TSPT	HAZ	L	P	it ia observed that one of SAMBU driver was driving very rashly on project site due to which he can hit anyone or any accident could be happen.	UA	1: SAMBU management was informed about he driver. 2: Driver was verbally warned and instructed the 5 KMP at site.	Sam	10/May/15	Closed	
279	11/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	HEA	HAZ	L	P	it was complainet from labor that Due to the spicy meal, the workers are suffered from throat problem.	UA	Restaurant staff is asked to prepare less spicy meal and the management of restaurent was informed.	OTH	11/May/15	Closed	
280	11/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	CWC	HAZ	L	P	TTC workers were carrying out welding activity on the construction of water tank and they were without overall to avoid radiation hazard.	UA	it is instructed to TTC management that requirement of work permit and other PPE must be fulfilled by workers which are involved in welding activity.	TTC	11/May/15	Closed	

281	11/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	ENV	HAZ	L	P	it is observed that there was lot of scatted waste around the block L2 that was polluting the environment	UC	TTC workers should transfer the waste to waste area for its disposal and increase the numbers of waste bins at site and residential areas.	TTC	11/May/15	Closed	
282	11/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	S/T/F	HAZ	L	P	During rain, the mud was observed to be present all around which could cause personnel to slip, causing multiple injuries	UC	1:The mud should be cleared or Backfilled with solid material. 2:The topic to be discussed in the Daily toolbox to avoid future incidents because of such hazards	TTC	11/May/15	Closed	
283	12/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	HEA	HAZ	L	P	Kitchen waste is lying on backside of kitchen that is a source of spread of mosquitos and other insects.	UA	Kitchen waste should be disposed by making a trench in disposal area.	TTC	12/May/15	Closed	
284	12/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	S/T/F	HAZ	L	P	At CR1, there is sliding due to rain so any worker can be injured because of that and equipment can also be damaged.	UC	During rain, all the sliding area was being barricaded and work was delayed for some time	TTC	12/May/15	Closed	
285	12/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	ENV	HAZ	L	E	Dust was spreading around due to movement of heavy equipment on site area which could stimulate sneezing reflex and lungs irritation to workers.	UC	1: There should be water sprinkling over road area on daily basis to control dust. 2: The vehicle's speed should be maximum as 05 Kmph. 03: Five times sprinkling every sunny day.	TTC	12/May/15	Closed	
286	13/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	FFH	HAZ	M	P	during the construction of new bridge one of TTC worker have crossed the river with rope due to which they could fell in river and drowned .	UA	1: TTC management should be clearly informed about the prohibition of crossing river by rope. 2:The topic to be discussed in the Daily toolbox to avoid future incidents because of such hazards	TTC	13/May/15	Closed	
287	13/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	PHY	HAZ	L	P	During sand blasting, workers have not wore safety glasses due to which sand particles could be enter in their eyes and eyes could be infected.	UA	1: workers were asked to wear glasses. 2: Site supervisor was informed. 3:The topic to be discussed in the Daily toolbox talks to avoid future incidents because of such hazards	TTC	13/May/15	Closed	
288	13/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	PHY	TYPE1	L	P	It is observed that TTC has provided them the shoes which did not match their size due to which labors had wound on their toes. .	UC	1: TTC should provide shoes to all labor as per their size.	TTC	13/May/15	Closed	
289	14/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	PHY	TYPE1	L	P	It is complained by labors that In mess, the pratha which is served in breakfast is too much oily due to which workers have throat problem.	UA	1: Restaurent management was informed and asked to use less oil.	OTH	14/May/15	Closed	
290	14/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	VIO	HAZ	L	P	Driver was using cell phone during driving which could be the reason of an unexpected accident.	UA	1: TTC 's management was informed. 2: Driver was verbally warned. 3: The topic to be discussed in the Daily toolbox talks to avoid future incidents because of such hazards	TTC	14/May/15	Closed	
291	14/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	ENV	HAZ	L	E	There was lot of waste scattered behind TTC's office that was polluting the environment	UC	TTC shoud hire trained person for housekeeping and TTC workers should transfer the waste from waste bins to waste area for its disposal	TTC	14/May/15	Closed	
292	15/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	ENV	HAZ	L	E	Some workers were smoking on the way which is the cause of environmental pollution.	UA	Workers were forbid from smoking in open area and were sent to smoking zone for smoking.	TTC	15/May/15	Closed	
293	15/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	CWC	HAZ	L	E	During cement mixing, there was too much dust of cement, which was entering in worker's eyes, due to which their stomach could be effected.	UA	Workers were asked to wear safety glasses and dust masks.	TTC	15/May/15	Closed	
294	15/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	MH	HAZ	L	P	t is observed that a mixer is being used by TTC workers to make concrete that have no safe guards over rotating pulleys. There is a hazard of draw in and entanglement	UC	All exposed parts of mixer should be covered properly with adjustable guards	TTC	15/May/15	Closed	

295	16/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	ENV	HAZ	L	P	Waste bins were full of waste material in front of Sambu residence that were creating ill smell in surrounding area	UC	1: Waste bins should be cleaned on every alternate day. 2: There should be waste collector for collecting waste from all site area on daily basis	Sam	16/May/15	Closed	
296	16/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	PHY	HAZ	L	P	After several times of intimation TTC workers are continuously going in welding area without wearing safety goggles and overall	UA	Unauthorized entry will be strictly prohibited in welding area All workers should wear PPE required for welding work	TTC	16/May/15	Closed	
297	16/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	PHY	HAZ	L	P	Driver was using cell phone during driving which could be the reason of an unexpected accident.	UA	1: TTC 's management was informed. 2: Driver was verbally warned.	TTC	16/May/15	Closed	
298	16/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	ANM	HAZ	H	P	A snake was appeared during concrete of box culvert which could sting anyone.	UC	Snake was caught and issue was discussed in tool box meeting and workers were asked to use long shoes. .	TTC	16/May/15	Closed	
299	16/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	OTH	HAZ	L	P	During concrete of box culvert, eighteen year old age, three workers were working which is violation of labor law .	UA	TTC's management was informed and the worker was sent back .	TTC	16/May/15	Closed	
300	16/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	PHY	HAZ	L	P	During box culvert concrete five workers were working without safety shoes and helmet due to which they could be injured.	UA	1: TTC's management was informed. 2: Tool box talk was conducted at site to create safety awareness in workers.	TTC	16/May/15	Closed	
301	17/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	PHY	HAZ	H	P	In food, a small piece of glass is found which could injured someone's mouth and could be the reason of any major accident.	UA	1: Mess management was informed. 2: Cook was verbally warned. 3: discussed in restaurent staff Tool Box.	TTC	17/May/15	Closed	
302	17/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	OTH	HAZ	L	P	In morning, after breakfast, some workers were going to site area without attending tool box due to which they were unaware of safety discussion .	UA	Workers were gathered in tool box and were told about the importance of tool box .	TTC	17/May/15	Closed	
303	17/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	PHY	HAZ	L	P	Stecho workers were working steel work on building's roof and had not wore gloves due to which their hand could be wounded.	UA	Stecho management was informed and Workers were asked to wear the gloves to save their hands.	TTC	17/May/15	Closed	
304	17/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	EL	HAZ	H	P	High transmission power lines are passing over road beside box culvert at a height of almost 10-12 meters. Passage of heavy equipment from that area can be in danger in case of any negligence committed by operators/drivers	UC	2: There should be a Signal man and the passage of heavy equipment should be changed.	OTH	17/May/15	Closed	
305	17/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	ENV	HAZ	L	P	Waste bins were full of waste material in front of Sambu residence that were creating ill smell in surrounding area	UC	Sambu should hire waste collector and Waste bins should be cleaned on every alternate day.	Sam	May/17/15	Closed	
306	18/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	ENV	HAZ	L	P	Kitchen waste is lying on backside of kitchen that is a source of spread of mosquitos and other insects.	UC	Kitchen waste should be disposed by making a trench in disposal area.	OTH	18/May/15	Closed	
307	18/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	ENV	HAZ	L	P	Dust was spreading around due to movement of heavy equipment on site area which could stimulate sneezing reflex and lungs irritation to workers.	UC	1: There should be water sprinkling over road area on daily basis to control dust. 2: The vehicle's speed should be maximum as 05 Kmph. 03: three times sprinkling every sunny day.	TTC	18/May/15	Closed	
308	18/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	ENV	HAZ	L	E	Some workers were smoking on site area which is the cause of environmental pollution.	UA	Workers were forbid from smoking in open area and were sent to smoking zone for smoking.	TTC	18/May/15	Closed	
309	19/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	PHY	HAZ	L	P	During concrete of Korean building, some of workers were working without wearing safety gloves and dust masks exposing themselves to chemical present in concrete and cement dust that causes skin, eye and lungs irritation.	UA	TTC should provide PPE to all labor with respect to their work. The damaged PPE should be changed with new ones	TTC	19/May/15	Closed	
310	19/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	ENV	HAZ	L	E	There was lot of scattered waste near the TTCstore room that was polluting the environment	UC	TTC workers should transfer the waste to waste area for its disposal	TTC	19/May/15	Closed	

311	19/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	ENV	HAZ	L	E	Kitchen waste is lying on backside of kitchen that is a source of spread of mosquitos and other insects.	UC	Kitchen waste should be disposed by making a trench in disposal area.	OTH	19/May/15	Closed	
312	20/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	ENV	HAZ	L	P	Dust was spreading around due to movement of heavy equipment on site area which could stimulate sneezing reflex and lungs irritation to workers.	UC	1: There should be water sprinkling over road area on daily basis to control dust. 2: The vehicle's speed should be maximum as 05 Kmph. 03: three times sprinkling every sunny day.	TTC	20/May/15	Closed	
313	20/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	PHY	HAZ	L	P	Two labors had wounds on their toes because TTC has provided them the shoes which did not match their size.	UA	1: TTC should provide shoes to all labor working at any site area	TTC	20/May/15	Closed	
314	20/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	CWC	HAZ	M	P	TTC workers were carrying out welding work on Mosque's roof without wearing coverall to avoid radiation hazard.	UA	Workers were asked to wear coverall and all workers should fulfill the requirements of permit.	TTC	20/May/15	Closed	
315	21/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	OTH	HAZ	L	P	At CR-1 and wear access road during mucking activity dumpers were loaded over than their capacity which might cause overturning of dumpers	UA	1: Dumpers should not be overloaded than their capacity to carry material. 2: TTC supervisors should monitored the excavation and transportation of material in dumpers	TTC	21/May/15	Closed	
316	21/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	ENV	HAZ	L	P	Kitchen waste is lying on backside of kitchen that is a source of spread of mosquitos and other insects.	UC	Kitchen waste should be disposed by making a trench in disposal area.	OTH	21/May/15	Closed	
317	21/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	OTH	HAZ	L	P	A worker was lying beneath the Dumper due to any mechanical he could be injured.	UA	1: the worker was asked to get aside from the dumper. 2: this topic was discussed in tool box talk.	TTC	21/May/15	Closed	
318	22/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FFH	HAZ	L	P	An extra person was standing on tractor with driver. He could be fell from there and injured.	UA	1: The labor was asked to come beneath from the tractor and he was told that he could fell and injured in this way in one time there should be one person on tractor. 2: this topic was discussed in tool box talk.	TTC	22/May/15	Closed	
319	22/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	ANM	HAZ	M	P	Two time snake is seen on site which can harm any worker any time.	UC	Snake catcher kept on many places. This topic is already discussed in TBM.	OTH	22/May/15	Closed	
320	22/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	ENV	HAZ	L	E	TTC workers are throwing waste backside of their building instead of collecting it in bins provided at site that is creating environmental pollution	UA	Waste should be collected by TTC personnel from backside of the building.	TTC	22/May/15	Closed	
321	22/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	OTH	HAZ	L	P	TTC dumpers helpers and operators were sitting inside a drain pipe in material yard area that could be roll over the slope and might cause injuries to personnel sitting inside it	UA	Workers must be informed by HSE team about the hazard of sitting inside drain pipes. The topic should be discussed in daily tool box talks	TTC	22/May/15	Closed	
322	22/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	CWC	HAZ	M	P	A worker was going in welding area whose clothes were wet with combustible fuel which could get fire due to arc welding	UA	1: Stop the entry of such workers in any site area 2: There should be no combustible material in welding area 3: EPCC EHS team should conduct a training session about welding and cutting safety to welders and their helpers.	TTC	22/May/15	Closed	
323	22/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FFH	HAZ	M	P	TTC's workers are working on height without wearing safety belt due to which then can fell and could ne injured.	UA	Workers were asked to wearing safety belt. Topic was discussed in tool box meeting.	TTC	22/May/15	Closed	
324	23/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FFH	HAZ	L	P	it is observed that In Batching plant, TTC workers were working on height and the workers could fell due to the absence of handrail and mid rails.	UA	Workers were asked about scaffolding and instructed to start work after completing the all requirements of scaffold.	TTC	23/May/15	Closed	
325	23/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	HEA	HAZ	L	P	Labors were served meal late due to which there is small chances of violation.	UA	Catering staff is asked to serve food on time and their management was informed.	TTC	23/May/15	Closed	
326	23/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	HEA	HAZ	L	P	It is complained by labors that in the Sambu's residence there was shortage of water due to which they are suffering.	UC	Management was informed and asked the management for permanent solution.	OTH	23/May/15	Closed	

327	23/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	FFH	HAZ	M	P	Some of TTC workers were working at height on standing pipes due to which they could fell and injured.	UA	labors were asked to make a proper platform as per OSHA standards and then start the work at height.	TTC	23/May/15	Closed	
328	23/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	HEA	HAZ	H	P	It is observed that some of new labors were washing hands in the river due to which he can fell in river.	UA	TTC management is informed and Labors are verbally warned.	OTH	23/May/15	Closed	
329	23/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	S/T/F	HAZ	M	P	Labors wash their clothes on river due to which they can fell and drown in the river.	UA	TTC management is informed and Labors are verbally warned.	TTC	23/May/15	Closed	
330	23/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	FE	HAZ	M	P	Catering staff was smoking inside the kitchen due to which fire can burn and the staff can injured.	UA	Catering staff is forbidden to smoke inside the kitchen and their management is informed.	OTH	23/May/15	Closed	
331	23/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	FFH	HAZ	L	P	In Korean residence, some of TTC workers were without safety shoes due to which their feet could be injured.	UA	TTC management was informed and workers were asked to wear safety shoes at site.	TTC	23/May/15	Closed	
332	24/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	FFH	HAZ	L	P	On wear access road near Batching plant, an excavator was working and the helper was sitting over that due to which he could injured.	UA	Site supervisor was informed and the helper was forbidden to sit the excavator boom swining area.	TTC	24/May/15	Closed	
333	24/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	CWC	HAZ	L	P	In Korean building, workers were painting without wearing masks due to which they could be infected because of paint's smell.	UA	Painters were asked to use mask so that they can survive themselves from paint's smell.	TTC	24/May/15	Closed	
334	25/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	TSPT	HAZ	M	P	Owner engineer's driver was driving rashly due to which any un expected accident could be happened.	UA	The driver was told about the speed limit and the owner engineers were informed.	TTC	25/May/15	Closed	
335	25/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	HEA	HAZ	L	P	In the front of Restaurant, subic tank's pipe was broken due to which there was too much smell everywhere.	UC	Pipe was being repaired and the tank was being properly cleaned.	TTC	25/May/15	Closed	
336	26/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	S/T/F	HAZ	L	P	During the concrete of Box culvert, some stones and cement bags were thrown in access which could be the reason of someone's falling.	UC	Access was made clear and supervisor was informed.	TTC	26/May/15	Closed	
337	26/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	HEA	HAZ	L	P	it is complained by some of workers that they have not the availability of cold drinking	UC	Administration is informed about the issue and water coolers are demanded.	OTH	26/May/15	Closed	
338	27/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	FFH	HAZ	L	P	Scaffolding was without proper access and workers were hardly climbing up due to which anyone could fall and injured.	UA	Supervisor was instructed to install the proper access of scaffolding as per standards.	TTC	27/May/15	Closed	
339	27/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	FFH	HAZ	L	P	In Korean residence workers were doing electric work with the help of scaffold but there is chance of falling from scaffold due to absence of handrails and mid rails.	UA	Supervisor was instructed to install scaffolding as per OSHA standards.	TTC	27/May/15	Closed	
340	28/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	FFH	HAZ	L	P	An extra person was standing on tractor with driver. He could be fell from there and injured.	UA	1: The labor was asked to come beneath from the tractor and he was told that he could fell and injured in this way in one time there should be one person on tractor. 2: this topic was discussed in tool box talk.	TTC	28/May/15	Closed	
341	28/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	HEA	HAZ	L	P	Dust was spreading around due to movement of heavy equipment on site area which could stimulate sneezing reflex and lungs irritation to workers.	UC	1: There should be water sprinkling over road area on daily basis to control dust. 2: The vehicle's speed should be maximum as 05 Kmph. 03: Five times sprinkling every sunny day.	TTC	28/May/15	Closed	
342	28/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	PHY	HAZ	L	P	Three labors had wounds on their toes because TTC has provided them the shoes which did not match their size.	UC	1: TTC should provide relax shoes to all labor working at any site area	TTC	28/May/15	Closed	
343	28/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	ENV	HAZ	L	E	Waste bins were full of waste material in front of Sambu residence that were creating ill smell in surrounding area	UC	Waste bins should be cleaned on every alternate day.	Sam	28/May/15	Closed	
344	29/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	PHY	HAZ	L	P	On bridge, during paint labors were not wearing glasses due to which paint could enter and damage their eyes.	UA	Labors were asked to wear safety glasses and save their eyes.	TTC	29/May/15	Closed	
345	29/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	S/T/F	HAZ	L	P	On Korean residence, the walk way access was not clear due to scattering of things and anyone could fell and injured.	UC	Site supervisor was asked and access was made clear and things were stacked properly.	TTC	29/May/15	Closed	

346	30/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	EL	HAZ	L	P	Electric wires were placed in the way which could be damaged for the movement of heavy equipment and anyone could get electric shock.	UC	Wires were removed from the access and the supervisor was being informed.	TTC	30/May/15	Closed	
347	30/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	S/T/F	HAZ	L	P	On Korean residence, wooden planks were scattered on the access way due to which someone could fell and get injured.	UA	Site supervisor was informed and planks were properly stacked.	TTC	30/May/15	Closed	
348	31/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	PHY	HAZ	L	P	On the construction of bridge, Workers were working without safety shoes and they could be injured.	UA	Workers were sent out from site and asked to wear safety shoes.	TTC	31/May/15	Closed	
349	31/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	S/T/F	HAZ	L	P	On the construction of bridge, scaffolding pipes were scattered on the way due to which anyone could be fell and injured.	UA	Site supervisor was asked to clear the access and stacked things properly.	TTC	31/May/15	Closed	
350	31/May/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	TSPT	HAZ	L	P	It is observed that, there was no helper with dumpers due to which they could hit any vehicle or any person during reverse or loading and unloading.	UA	Dumper drivers were asked to arrange helpers and their management was informed.	TTC	31/May/15	Closed	
351	01/Jun/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	FFH	HAZ	L	P	TTC's workers are working on height without wearing safety belt due to which then can fell from height and could be injured.	UA	Workers were asked to wearing safety belt and Topic was discussed in tool box meeting.	TTC	01/Jun/15	Closed	
352	01/Jun/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	S/T/F	HAZ	L	P	A mixer is being used by TTC workers to make concrete that have no safe guards over rotating pulleys. There is a hazard of draw in and entanglement.	UC	All exposed parts of mixer should be covered properly with adjustable guards	TTC	01/Jun/15	Closed	
353	01/Jun/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	PHY	HAZ	L	P	Kitchen waste is lying on backside of kitchen that is a source of spread of mosquitos and other insects.	UC	Kitchen waste should be disposed by making a trench in disposal area.	OTH	01/Jun/15	Closed	
354	02/Jun/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	PHY	HAZ	L	P	Dust was spreading around due to movement of heavy equipment on site area which could stimulate sneezing reflex and lungs irritation to workers.	UC	1: There should be water sprinkling over road area on daily basis to control dust. 2: The vehicle's speed should be maximum as 05 Kmph. 03: three times sprinkling every sunny day.	TTC	02/Jun/15	Closed	
355	02/Jun/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	ENV	HAZ	L	E	Two workers were smoking on site area which is the cause of environmental pollution and the violation of administrative rules.	UA	Workers were forbid from smoking in open area and were sent to smoking zone for smoking.	TTC	02/Jun/15	Closed	
356	02/Jun/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	ENV	HAZ	L	E	There was lot of scattered waste behind near the box culvert and that was polluting the environment	UC	TTC workers should collect scattered waste on daily basis.	TTC	02/Jun/15	Closed	
357	03/Jun/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	PHY	HAZ	L	P	Three labors had wounds on their toes because TTC has provided them the shoes which did not match their size.	UC	1: TTC should provide shoes to all labor as per their size.	TTC	03/Jun/15	Closed	
358	03/Jun/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	PHY	HAZ	M	P	One of TTC worker was sit under the slope due to which anything from slope could be fell and injured.	UA	1: the worker was asked to get aside from the slope. 2: this topic was discussed in tool box talk.	TTC	03/Jun/15	Closed	
359	03/Jun/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	ENV	HAZ	L	E	TTC workers were pushing loose excavated material on slope edge that could cause river water contamination	UA	1. The excavated material should be loaded in dumpers for its disposal. 2. Muck should be unloaded at its designated spoil tips.	TTC	03/Jun/15	In P	
360	04/Jun/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	PHY	HAZ	M	P	At CR-1 and wear access road during mucking activity dumpers were loaded over than their capacity which might cause overturning of dumpers	UC	1: Dumpers should not be overloaded than their capacity to carry material. 2: TTC supervisors should monitored the excavation and transportation of material in dumpers	TTC	04/Jun/15	Closed	

361	04/Jun/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	ENV	HAZ	L	E	TTC workers are throwing waste backside of building M instead of collecting it in bins provided at site that is creating environmental pollution	UA	Waste should be collected by TTC personnel from backside of the building.	TTC	04/Jun/15	Closed	
362	05/Jun/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FFH	HAZ	M	P	It is observed that at crush plant, the person standing on the platform, platform was not properly installed due to which he can fell and injured.	UC	1: Platform is properly made. 2: This topic was discussed in tool box talk.	TTC	05/Jun/15	Closed	
363	05/Jun/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FFH	HAZ	M	P	it is observed that scaffolding plates was not properly installed due to which someone trip and could fell and injured.	UC	Scaffolding plates are joined properly with wires	TTC	05/Jun/15	Closed	
364	05/Jun/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FO	HAZ	M	P	It is observed that during crane operation, a person was passing under the crane boom.	UA	Supervisor was verbally warned And the operational area was properly barricaded.	TTC	05/Jun/15	Closed	
365	06/Jun/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	PHY	HAZ	L	P	It is observed that some of labors were not wearing safety glasses due to which their eyes could be effected.	UA	Workers were asked to wear safety glasses and their supervisor was informed.	TTC	06/Jun/15	Closed	
366	06/Jun/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	OTH	HAZ	L	P	Sigma workers are not coming in tool box talk due to which they are unaware of many hazardous.	UA	Sigma workers were again asked to join TBM and discuss the hazard of activities.	OTH	06/Jun/15	Closed	
367	06/Jun/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	PHY	HAZ	M	P	On the construction of Bridge, one of TTC dumper driver was reversing without helper due to which he could hit anyone.	UC	Dumper driver was asked for helper and TTC management was informed.	TTC	06/Jun/15	Closed	
368	07/Jun/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	L	P	Sambu workers were removing compressor,s pipe installed over river without wearing life jackets which could result in fall of workers in the river.	UA	1: Life jackets should be provided to the labor working at right and left banks of the river 2: There should be tubes fastened with ropes to avoid of drwoning hazard.	Sam	07/Jun/15	Closed	
369	07/Jun/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	OTH	HAZ	L	P	TTC Dumpers helpers do not wear safety shoes during loading and unloading of material. Any sharp object can injure anybody,s foot	UA	All workers should wear safety shoes while working at site. Safety shoes must be provided to every individual by TTC	TTC	07/Jun/15	Closed	
370	07/Jun/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FO	HAZ	L	P	Some of the dumper helpers do not wear safety helmet. Any stone can hit on the head falling from overloaded dumper which could result in serios head injury	UA	All helpers should wear safety helmet while carrying the material in dumpers	TTC	07/Jun/15	Closed	
371	07/Jun/15	pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	Drinking water is not available in TTC accomodation which could cause ill health effect and dehydration to workers occupying the building	UC	TTC should provide drinkin water facility to all workers	TTC	07/Jun/15	Closed	
372	08/Jun/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	OTH	HAZ	L	P	TCC workers were working without safety gloves during construction work of korean residence that could result in hand injury	UA	TTC should provide safety gloves to all workers.	TTC	08/Jun/15	Closed	
373	08/Jun/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	OTH	HAZ	L	P	TTC dumper drivers and helpers were working in slippers at CR-1 that might cause foot injury due to presence of sharp objects on the road	UA	Dumper drivers and helpers should wear safety shoes to avoid injuries TTC should provide safety shoes to dumper drivers	TTC	08/Jun/15	Closed	
374	08/Jun/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	L	P	TTC workers were working at aheight of 4 meter on box culvert wing walls without using safety harness that could result in fall of any worker from height	UA	TTC should provide harnesses to workers working at height Workers should wear sfaty harness to avoid fall hazard	TTC	08/Jun/15	Closed	
375	09/Jun/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	Dust was spreading on the roads due to movement of heavy equipments causing lungs and eye irritation	UC	TTC should sprinkeled water over the road to minimize dust	TTC	09/Jun/15	Closed	
376	09/Jun/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	CWM	HAZ	L	P	There were insufficient guard rails installed on the platform of crush plant, so any worker,s body part could touch the moving part of machine	UC	TTC should installed sufficient number of horizontal pipes to construct a guard or barrier against rotating parts	TTC	09/Jun/15	Closed	
377	09/Jun/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	L	P	TTC workers were installing steel bars at a height of 3-meters without any platform and ladder	UC	TTC should construct a platform provided with handrail guardrail and ladder to carry out work at height	TTC	09/Jun/15	Closed	
378	10/Jun/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	OTH	HAZ	L	P	TTC workers were working without safety shoes in an area where there were steen nails in wooden planks posing puncture hazard to workers	UA	TTC should providesafety to all of their workers to avoid foot,s injury	TTC	10/Jun/15	Closed	
379	10/Jun/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	There was stagnet water behind resturant that could produce ill health effects due to reproduction of mosqitos and flies	UC	Stagnet water should be removed through construction ofdrains	TTC	10/Jun/15	Closed	
380	10/Jun/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	OTH	HAZ	L	P	TTC workers, feet were injured due wearing f misfit shoes	UC	TTC should provide shoes fit to size of workers feet	TTC	10/Jun/15	Closed	
381	11/Jun/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	CWO	HAZ	L	P	TTC excavtor helper were moving in radius of excvator during excavtion of CR-1 ahtt could cause struck by hazard due to moving bucket of excavator	UA	The excvator helpers should reamin away from the radius of miving excavators	TTC	11/Jun/15	Closed	

382	11/Jun/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	S/T/F	HAZ	L	P	Scaffolding pipes were lying around wing walls of box culvert that were posing trip hazards to workers working in that area	UC	The scattered material should be stacked properly to avoid trip hazards	TTC	11/Jun/15	Closed	
383	11/Jun/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	L	P	Some of the TTC workers were riding on sides of excavator, driver cabin who could fall down by applying sudden brakes or jolts	UA	Workers should not ride on the vehicles used to carry material if there is no seating arrangement for sitting inside the vehicles.	TTC	11/Jun/15	Closed	
384	12/Jun/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	OTH	HAZ	L	P	Sambu workers were carrying out charging activity without wearing antistatic uniform. The casual dress could initiate detonators due to static charging	UA	Sambu should provide antistatic PPE to all of their labor involved in charging activity	Sam	12/Jun/15	Closed	
385	12/Jun/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	OTH	HAZ	L	P	Sambu blasting team did not have siren to blow before carrying out blast to aware the community and workers who could come in blasting area during blast due to unavailability of siren	UC	Sambu should provide manual siren to blasting team to aware the workers and community personnel about blasting on site area	Sam	12/Jun/15	Closed	
386	12/Jun/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	OTH	HAZ	L	P	Sambu blasting team did not have wooden hook to remove misfired explosive from charged holes. The steel hooks could initiate the detonators due to static charge in it	UA	Sambu should provide wooden hook to blasting team to remove misfired explosive.	Sam	12/Jun/15	Closed	
387	13/Jun/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FO	HAZ	L	P	Sambu labor in the supervision of their construction Manager were fueling in excavator by loading fuel drums in excavator bucket that could fall down from height and hit anybody underneath	UA	For fueling in heavy equipment Sambu should provide hand pump or motor pump to their workers so that fuel filling could be done with an ease.	Sam	13/Jun/15	Closed	
388	13/Jun/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	L	P	One of the Sambu worker was riding in excavator bucket to insert fuel pipe in the fuel drum to refill the excavator, The person could fall from height and got injury	UA	There should be prohibition of personnel riding in excavator bucket. Sambu should use alternate tools for fueling i.e pump	Sam	13/Jun/15	Closed	
389	13/Jun/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HB	HAZ	L	P	Sambu driver was wondering on site area without PPE that promote a negative safety culture in other workers	UA	Sambu should provide PPE to their drivers. Driver should wear all PPE provided by the company to them	Sam	13/Jun/15	Closed	
390	14/Jun/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	L	P	TTC workers were using a wooden ladder that was not robust enough to bear the weight of workers climbing on it so somebody could fall down from height due to brokening of ladder,s rung	UC	TTC should provide the ladder to the workers with robust rungs.	TTC	14/Jun/15	Closed	
391	14/Jun/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	L	P	TTC workers are using safety harness with hook without safety latch to encircle the anchor point, so any worker could fall down from height due to improper hooking of harness because of absence of safety latch	UC	TTC should provide the proper safety harnesses to workers with safety latches to avoid fall hazard	TTC	14/Jun/15	Closed	
392	14/Jun/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	TSPT	HAZ	L	P	TTC dumpers' drivers were driving on the weir access and CR-1 with excessive speed . The dumper could be off track or hit any person walking on the road	UA	There should be a signalman to control the traffic. The drivers driving in excessive speed should be fined as per violation committed by them against the rule	TTC	14/Jun/15	Closed	
393	15/Jun/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	OTH	HAZ	L	P	TTC dumper drivers and helpers were working in slippers at CR-1 that might cause foot injury due to presence of sharp objects on the road	UA	Dumper drivers and helpers should wear safety shoes to avoid injuries	TTC	15/Jun/15	Closed	
394	15/Jun/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	L	P	TTC workers were working under the slope at CR-1 without wearing safety helmet. There was hazard of falling objects	UA	All workers should wear all PPE especially safety helmet while working under slope	TTC	15/Jun/15	Closed	
395	16/Jun/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	L	P	The handrails were installed away from platform, so there was gap between platform and handrail,there was chances of fall of workers	UC	The installed standards must be tied with ledgers to avoid gaps between platform and hand rails constructed over the extended ledgers	TTC	16/Jun/15	Closed	
396	16/Jun/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	CWM	HAZ	L	P	There is no adjustable guard fixed over rotating belt and drive mechanism of the compressor operating by TTC workers . Hazard includes entanglement caught in, draw in, abrasions	UC	Adjustable guard should be fixed over rotating belt and drive mechanism (pulleys)	TTC	16/Jun/15	Closed	
397	17/Jun/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	MH	HAZ	L	P	TTC workers were lifting concrete bricks without wearing safety gloves	UA	TTC should provide safety gloves to all workers Labor should wear safety gloves to avoid manual handling injuries	TTC	17/Jun/15	Closed	
398	17/Jun/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	L	P	Wooden standard were installed under the platform to give support to it, which might collapse resulted in fall of personnel working at the platform	UA	1: For general purpose scaffold standard should be erected two meter away from each other to give sufficient support to ledgers and transoms which ultimately give support to platform. 2: Steel tubes should be erected instead of woods.	TTC	17/Jun/15	Closed	

399	18/Jun/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	L	P	TTC workers were making concrete of block -B by placing a ladder against the wall at a height of 3-meters without any platform. There was risk of injury due to fall of any personal	UC	1: There should be enough material to construct scaffold around the building to make concrete on top of the walls 2: There should be proper platform with handrails and access ladders to approach platform	TTC	18/Jun/15	Closed	
400	19/Jun/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	L	P	Daelim Crane operator was standing on overhanged load during unloading of Batching Plant equipment. He could have fallen from height	UA	1. Nobody should ride on the overhanged material. 2. Rigger should keep away from lifted material and should control the load by using tagline.	OTH	19/Jun/15	Closed	
401	19/Jun/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	MH	HAZ	L	P	Bar bending work was being carried out by TTC labor beside waste area without wearing safety gloves that could result in injury by striking anybody's hand with other objects or steel material	UA	Bar bending work should be carried out wearing all PPE including safety gloves.	TTC	19/Jun/15	Closed	
402	20/Jun/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	CWC	HAZ	L	P	TTC workers were mixing cement in crush and sand aggregate without wearing dust masks which could cause lungs irritation and other chronic effects on continuous exposure to chemicals like cement	UA	1. All workers should wear dust mask to avoid lungs irritation caused by cement dust. 2. TTC should provide dust masks to labor.	TTC	20/Jun/15	Closed	
403	20/Jun/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	S/T/F	HAZ	L	P	Waste material and blocks were lying on the way to box culvert. Someone could fall down by striking with the scattered objects.	UC	1. Workers should be intimated to collect the material. 2. TTC supervisors should supervise the work and instruct workers about the hazards.	TTC	20/Jun/15	Closed	
404	20/Jun/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	OTH	HAZ	L	P	TTC worker's feet were injured due wearing improper shoes.	UC	TTC should provide shoes fit to size of workers feet.	TTC	20/Jun/15	Closed	
405	21/Jun/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	ENV	HAZ	L	P	Sambu construction's excavator was throwing the excavated material down into the river Poonch.	UC	1. Such kind of work should be stopped. 2. There should be the alternate solution for spoiling the muck. 3. Muck disposal plan should be prepared. 4. Spoil tips should be designated.	TTC	25/Jun/15	Open	
406	21/Jun/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	Dust was spreading on the roads due to movement of heavy equipments causing lungs and eye irritation.	UC	TTC should sprinkle water over the roads to minimize dust.	TTC	21/Jun/15	Closed	
407	21/Jun/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	OTH	HAZ	L	P	TTC Dumpers helpers do not wear safety shoes during loading and unloading of material. Any sharp object can hurt their feet.	UA	1. All workers should wear safety shoes while working at site. 2. Safety shoes must be provided to every individual by TTC.	TTC	21/Jun/15	Closed	
408	22/Jun/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	HEA	HAZ	L	P	There is stagnant water behind the restaurant which can cause breeding of flies and mosquitoes	UC	1. Waste water should be removed from the area.	TTC	22/Jun/15	Closed	
409	23/Jun/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	ENV	HAZ	L	E	There was minor oil spillage due to improper refueling by Sub Contractor Sambu. It had polluted the environment.	UA	1. Spelt oil should be collected from the area. 2. Topic to be discussed in the daily toolbox	Sam	23/Jun/15	Closed	
410	24/Jun/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FFH	HAZ	L	P	TTC workers were riding high over the excavator. They could fall down.	UA	1. Workers should be stopped from doing so. 2. Topic should be discussed in the daily toolbox meeting.	TTC	25/Jun/15	Closed	
411	25/Jun/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FFH	HAZ	L	P	Techno Times Construction workers were using poor quality wooden ladder. There was falling hazard.	UC	1. Work should be stopped. 2. Ladder should be replaced with a strong	TTC	25/Jun/15	Closed	
412	26/Jun/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FFH	HAZ	L	P	Workers of TTC were using unhooked safety harness. They could have fallen from height.	UA	1. Workers should be instructed to hook the safety harness.	TTC	26/Jun/15	Closed	
413	27/Jun/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	CWM	HAZ	L	P	Worker were working near un-guarded concrete mixer machine. It could injure any worker.	UC	1. Work should be stopped. 2. All machines at GHPP should be provided	TTC	27/Jun/15	Closed	
414	28/Jun/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	TSPT	HAZ	L	P	Sub Contractor TTC vehicle was overspeeding on the main access road. This could result to an accident.	UA	1. Driver should be given instructions about speed limits at site.	TTC	28/Jun/15	Closed	
415	28/Jun/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	CWO	HAZ	L	P	Workers were handling sharp objects with naked hands. Hazard of hand injury.	UA	Gloves should be provided by the management & used by the workers to avoid	TTC	28/Jun/15	Closed	
416	29/Jun/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	PHY	HAZ	L	P	A worker was working on CR-1 without wearing safety shoes and helmet due to which he could be injured.	UA	1. Workers must not be allowed to work without PPE at site.	TTC	29/Jun/15	Closed	
417	29/Jun/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FO	HAZ	L	P	Techno time worker was intentionally sitting beneath the cliff with loose stones due to which he could be hit by a falling stone.	UA	1. Worker should be forbidden to sit there. 2. Topic to be discussed in the toolbox meeting.	TTC	29/Jun/15	Closed	
418	29/Jun/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FO	HAZ	L	P	Sambu workers were lying beneath the dumper due to which they could be injured.	UA	1. Workers should be forbidden to lay under the dumper. 2. Topic to be discussed in the toolbox meeting.	Sam	29/Jun/15	Closed	
419	29/Jun/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	S/T/F	HAZ	M	P	There was trip & fall hazard on the un-barricaded bridge with no guard rails.	UC	1. Area should be barricaded. 2. Permanent guard rails should be installed there to avoid any fall.	Sam	29/Jun/15	Closed	

420	29/Jun/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	FFH	HAZ	M	P	There is no handrail and mid rails around the ladder, due to which anyone could fall and get injured.	UC	1. Work at height with no protocols should be stopped immediately. 2. Permanent guard rails should be installed there to avoid any fall.	TTC	29/Jun/15	Closed	
421	29/Jun/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	PHY	HAZ	L	P	TTC personnel were doing steel fabrication without wearing tough gloves. There was a hazard of hand injury.	UA	1. Gloves should be worn to avoid any hand injury. 2. Topic to be discussed in the toolbox meeting.	TTC	29/Jun/15	Closed	
422	30/Jun/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	PHY	HAZ	L	P	TTC workers were working in construction of box culvert without wearing safety shoes due to which anyone could be injured.	UA	1. Workers should be facilitated with PPE & they should wear them. 2. PPE importance to be discussed in the daily toolbox meeting.	TTC	30/Jun/15	Closed	
423	30/Jun/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	FFH	HAZ	L	P	TTC's workers were working at height without wearing fall arrest system/safety harness due to which they could fell and injured.	UA	1. Workers should be asked to wear safety belt. 2. Topic to be discussed in toolbox meeting.	TTC	30/Jun/15	Closed	
424	30/Jun/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	CWM	HAZ	M	P	A mixer was used by TTC workers to make concrete that have no safe guards over rotating pulleys. There was rotating equipment hazard.	UC	1. Only guarded machines should be used. 2. All exposed parts of mixer should be covered properly with adjustable guards. 3. Tight clothes are a must.	TTC	30/Jun/15	Closed	
425	01/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	VIO	HAZ	M	P	Subcontractor's supervisor behaved in a non-professional way with his subordinate. There could have been a quarrel between them.	UA	1. Supervisor is instructed and asked not to miss behave with workers. 2. Professional behaviour should be adopted by all employees working at GHPP. 3. To be discussed in the toolbox meeting.	TTC	01/Jul/15	Closed	
426	01/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	S/T/F	HAZ	L	P	Metallic road to be used in the erection of batching plant, were improperly stacked around near retaining wall at the batching plant. Any worker could trip or fall.	UA	1. Rods should be properly stacked together & barricaded. 2. Good housekeeping importance should be discussed with the workers.	TTC	01/Jul/15	Closed	
427	01/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	S/T/F	HAZ	L	P	On weir access road, labor was following a slippery slope to get a short access to the road. They could slip & fall.	UA	1: Sides of weir access road should be barricaded properly. 2: Labor should be informed about hazard of using the shortcut way.	TTC	01/Jul/15	Closed	
428	02/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	PHY	HAZ	L	P	Some of the dumper helpers do not wear safety helmet. Their heads could be injured by the falling stones & rocks from the dumpers.	UA	1. All helpers should wear safety helmet while carrying the material in dumpers. 2. Training on PPE importance should be delivered.	TTC	02/Jul/15	Closed	
429	02/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	VIO	HAZ	L	P	Sigma supervisor often misbehave with his subordinates during work.	UA	1. Supervisor is instructed and asked not to miss behave with workers. 2. Professional behaviour should be adopted by all employees working at GHPP. 3. To be discussed in the toolbox meeting.	TTC	02/Jul/15	Closed	
430	02/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	ENV	HAZ	L	P	TTC workers are throwing waste behind the M-Block, instead of collecting it in bins provided at site. It is creating environmental pollution	UA	1. Waste should be collected by TTC personnel from backside of the building. 2. Waste management team should become active. 3. Topic to be discussed inn toolbox meeting.	TTC	02/Jul/15	Closed	
431	03/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	FFH	HAZ	L	P	TTC workers working at height without using any fall arrest system.	UA	1. Workers should be instructed to wear safety belt at height. 2. Topic to be discussed in toolbox meeting.	TTC	03/Jul/15	Closed	
432	03/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	CWM	HAZ	L	P	Concrete mixer, used by TTC workers carelessly, had no guards. It could hurt any worker.	UA	1. Workers should carefully act while working with machines. 2. Machines should have safety guards.	TTC	03/Jul/15	Closed	
433	04/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	PHY	HAZ	L	E	The waste bin behind the kitchen is broken & useless.	UC	1. Waste bin should be replaced with a new one.	TTC	04/Jul/15	Closed	
434	04/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	PHY	HAZ	L	E	Faulty heavy equipment working at site was causing smoke & dust which could irritate their lungs.	UC	1. Faulty equipment should be banned to work at site. 2. Such equipment should be repaired.	TTC	04/Jul/15	Closed	
435	04/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	ENV	HAZ	L	E	Cigarette buds were found on ground which pollute the environment.	UC	1. Cigarette should be smoked only at the designated smoking points. 2. Buds should be thrown into the ash tray or basin.	TTC	04/Jul/15	Closed	

436	05/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	ENV	HAZ	L	E	There was lot of waste behind TTC's old office that had polluted the environment.	UC	1. TTC workers should transfer the waste to waste disposal area.	TTC	05/Jul/15	Closed	
437	05/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	PHY	HAZ	L	P	Dumper's helper was sitting on the front frame of dumper due to which he could fall down.	UA	1. Helper should sit inside the dumper. 2. Topic to be discussed in the toolbox	TTC	05/Jul/15	Closed	
438	05/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	PHY	HAZ	L	P	Mess staff is serving tea in broken cups which can injure anyone's lips and mouth.	UA	1. Broken cups should be removed from the mess.	TTC	05/Jul/15	Closed	
439	06/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	S/T/F	HAZ	L	P	During rain, the mud was observed to be present all around which could cause personnel to slip, trip or fall.	UC	1. Movement around site should be restricted. 2. Stagnant waster should be given passage.	TTC	06/Jul/15	Closed	
440	06/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	S/T/F	HAZ	L	P	After land sliding on CR-1 some people wanted to pass through the road. There was a hazard of trip & fall.	UC	1. Passage should be stopped. 2. Road should be cleared from the obstacles.	TTC	06/Jul/15	Closed	
441	06/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	S/T/F	HAZ	L	P	Land slide took place at CR-1 which could cause damage to personnel & property.	UC	1. Road should be closed for passage. 2. Watchman should be deployed to indicate the landslide if any.	TTC	06/Jul/15	Closed	
442	07/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FFH	HAZ	H	P	TTC workers were doing hot work on the roof of building under construction, without wearing fall arrest system. They could fall down.	UA	1. Safety harness should be used. 2. Work at height should be done with proper protocols.	TTC	07/Jul/15	Closed	
443	07/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FO	HAZ	M	P	A worker was lying beneath the parked dumper. Material falling from dumper could hit him.	UA	1. Workers should never get under any loaded vehicle. 2. To be discussed in the daily toolbox meeting.	TTC	07/Jul/15	Closed	
444	07/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	S/T/F	HAZ	L	P	All roads were slippery because of rain in the night,	UC	1. Movement should be restricted. 2. Road should be cleared from the the stagnant water.	TTC	07/Jul/15	Closed	
445	07/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FO	HAZ	H	P	Some of the charged holes were uncovered during blasting activity, carried at weir access road. This was because of insufficient number of rubber mats available to cover the charged area. There was a little chance of fly rock.	UC	1. The number of rubber mats should be increased up to 15 to cover all charged area properly. 2: In case of unavailability of rubber mats sand filled bags must be placed over charged holes.	Sam	07/Jul/15	Closed	
446	08/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	PHY	HAZ	L	P	TTC dumpers helpers and operators were sitting inside a drain pipe in material yard area that could be rolled over the slope and might cause injuries to personnel sitting inside it	UA	1. Workers must be informed by HSE team about the hazard of sitting inside drain pipes. 2. The topic should be discussed in daily toolbox talks	TTC	08/Jul/15	Closed	
447	08/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	ENV	HAZ	L	P	Some workers were smoking on site area which is the cause of environmental pollution.	UA	Workers were forbidden from smoking in open area and were sent to smoking zone for smoking.	TTC	08/Jul/15	Closed	
448	08/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	CWC	HAZ	M	P	TTC workers do not wear overall so their casual clothes and skin can burn due to arc produced by welding	UA	All welders should protect their whole body by wearing overall gauntlets welding helmet while carrying out welding work	TTC	08/Jul/15	Closed	
449	09/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	S/T/F	HAZ	L	P	All roads were slippery because of rain in the night,	UC	1. Movement should be restricted. 2. Road should be cleared from the the stagnant water.	TTC	09/Jul/15	Closed	
450	09/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FO	HAZ	L	P	After land sliding on CR-1 some people wanted to pass through the road. There was possibility of falling material which could injure anybody passing through that area.	UC	1. Barricading of the area must be done 2. Prohibition to personnel passing through that area	TTC	09/Jul/15	Closed	
451	09/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FO	HAZ	L	P	At CR1, there is land sliding due to rain so any worker or equipment can be hit by the falling stones.	UC	1. Barricading of the area must be done 2. Prohibition to personnel passing through that area 3. Topic to be discussed in the toolbox meeting.	TTC	09/Jul/15	Closed	
452	10/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	S/T/F	HAZ	L	P	During rain, the mud was observed to be present all around which could cause personnel to slip, trip or fall.	UC	1:The mud should be cleared or Backfilled with solid material. 2:The topic to be discussed in the Daily toolbox to avoid future incidents because of such hazards	TTC	10/Jul/15	Closed	
453	10/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FO	HAZ	L	P	After land sliding on CR-1 some people wanted to pass through the road. There was possibility of falling material which could injure anybody passing through that area.	UC	1: Barricadion of the area must be done 2: Prohibition to personnel passing through that area. 3. Topic to be discussed in the toolbox meeting.	TTC	10/Jul/15	Closed	

454	10/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FO	HAZ	L	P	At CR1, there is sliding due to rain so any worker can be injured because of that and equipment can also be damaged.	UC	1. Barricading of the area must be done 2. Prohibition to personnel passing through that area 3. Topic to be discussed in the toolbox meeting.	TTC	10/Jul/15	Closed
455	10/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FFH	HAZ	L	P	SIGMA workers were working at height without wearing safety belt due to which anyone could fall and get injured.	UC	1. Safety belt must be used. 2. Work at height should be performed with its	TTC	10/Jul/15	Closed
456	11/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	PHY	HAZ	L	P	Excevator helper was working on CR1 without wearing safety shoes and helmet due to which he could be injured.	UA	Worker should wear safety shoes and helmet and their management was informed.	TTC	11/Jul/15	Closed
457	11/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FFH	HAZ	L	P	There was no railing or barricading tape at the edge of the bridge. Workers could fall down.	UC	1. Area should be barricaded. 2. Permanent guard rails should be installed	Sam	11/Jul/15	Closed
458	11/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FO	HAZ	H	P	Some of the charged holes were uncovered during blasting activity, carried at weir access road. This was because of insufficient number of rubber mats available to cover the charged area. There was a little chance of fly rock.	UC	1. The number of rubber mats should be increased up to 15 to cover all charged area properly. 2: In case of unavailability of rubber mats sand filled bags must be placed over charged holes.	TTC	11/Jul/15	Closed
459	12/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	S/T/F	HAZ	L	P	At CR1, there is sliding due to rain so any worker can be injured and equipment can also be damaged.	UC	1. Barricading of the area must be done 2. Prohibition to personnel passing through that area 3. Topic to be discussed in the toolbox meeting.	TTC	12/Jul/15	Closed
460	12/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	S/T/F	HAZ	L	P	After land sliding on CR-1 some people wants to cross the road. There was possibility of falling material which could injure anybody passing through that area	UC	1: Barricadion of the area must be done 2: Prohibition to personnel passing through that area	TTC	12/Jul/15	Closed
461	12/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	S/T/F	HAZ	L	P	During rain, the mud was observed to be present all around which could cause personnel to slip, trip or fall.	UC	The mud should be cleared or Backfilled with solid material. The topic to be discussed in the Daily toolbox to avoid future incidents because of such hazards	TTC	12/Jul/15	Closed
462	13/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	CWM	HAZ	M	P	SIGMA workers do not wear overall so their casual clothes and skin can burn due to arc produced by welding	UA	1. All welders should protect their whole body by wearing overall gauntlets welding helmet while carrying out welding work. 2. Toolbox meeting on PPE to be conducted at site.	OTH	13/Jul/15	Closed
463	13/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	CWM	HAZ	L	P	A mixer is being used by SAMBU workers to make concrete that has no safe guards over rotating pulleys. There is a hazard of draw-in and entanglement.	UC	1. All exposed parts of mixer should be covered properly with adjustable guards 2. Only guarded machines should be used at site.	Sam	13/Jul/15	Closed
464	13/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	ENV	HAZ	L	E	TTC workers were pushing loose excavated material on slope edge that could cause river water contamination	UA	1. The excavated material should be loaded in dumpers for its disposal at spoil tips. 2. Water pollution should be avoided.	TTC	13/Jul/15	Open
465	14/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FO	HAZ	L	P	TTC dumpers helpers and operators were sitting inside a drain pipe in material yard area that could roll over the slope and might cause injuries to personnel sitting inside it.	UA	1. Workers should be immediately instructed to get outside. 2. Workers should be informed of the consequences of such unsafe act.	TTC	14/Jul/15	Closed
466	14/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FO	HAZ	H	P	Some of the charged holes were uncovered during blasting activity, carried at weir access road. This was because of insufficient number of rubber mats available to cover the charged area. There was a little chance of fly rock.	UC	1. The number of rubber mats should be increased up to 15 to cover all charged area properly. 2: In case of unavailability of rubber mats sand filled bags must be placed over charged holes.	TTC	14/Jul/15	Closed
467	14/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	PHY	HAZ	L	P	Waste bin behind the kitchen is damaged or broken.	UC	1. Broken bins should be removed. 2. New bins with lid shuld be used. 3. Bins should be emptied on daily basis.	OTH	14/Jul/15	Closed

468	14/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	CWC	HAZ	H	P	A worker was going in welding area whose clothes were wet with combustible fuel which could catch fire due to sparks produced while arc-welding.	UA	1: Stop the entry of such workers in any site area 2: There should be no combustible material in welding area 3: Training session to be conducted about welding and cutting safety to welders and their helpers.	TTC	14/Jul/15	Closed
469	23/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FFH	HAZ	L	P	There was no barricading around box culvert due to which anyone could fall in deep excavated area and get injured.	UC	1. Area should be barricaded. 2. Permanent guard rails should be installed	TTC	23/Jul/15	Closed
470	23/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	S/T/F	HAZ	L	P	During rain, the mud was observed to be present all around which could cause personnel to slip, trip or fall.	UC	1. The mud should be cleared or Backfilled with solid material. 2. The topic to be discussed in the Daily toolbox to avoid future incidents because of such hazards	TTC	23/Jul/15	Closed
471	24/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	OTH	HAZ	L	E	Some of the Sambu workers were smoking on site area during the work in progress that could cause any unexpected incident	UA	1. The smoking should be allowed in designated areas 2. Nobody should smoke in un-designated area	Sam	24/Jul/15	Closed
472	25/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	PHY	HAZ	L	P	Dumper helper was working on CR1 without wearing safety shoes and helmet. He could be injured due to falling objects or due to sharp objects in the excavated soil on CR-1.	UA	1. TTC should provide safety helmets and shoes to all workers 2. All workers should wear safety helmet and shoes at workplace.	TTC	25/Jul/15	Closed
473	25/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	ANM	HAZ	M	P	Snake was seen in the office building. Snake bite hazard.	UC	1. Building should be vacated if the snake is inside. 2. Snake catcher should be provided. 3. Anti-snake venom should be provided.	TTC	25/Jul/15	Closed
474	25/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FO	HAZ	H	P	Some of the charged holes were uncovered during blasting activity, carried at weir access road. This was because of insufficient number of rubber mats available to cover the charged area. There was a little chance of fly rock.	UC	1. The number of rubber mats should be increased up to 35 to cover all charged area properly. 2: In case of unavailability of rubber mats sand filled bags must be placed over charged holes.	TTC	25/Jul/15	Closed
475	26/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	S/T/F	HAZ	L	P	During rain, the mud was observed to be present all around which could cause personnel to slip, trip or fall.	UC	1. Movement should be restricted. 2. Road should be cleared from the the stagnant water.	TTC	26/Jul/15	Closed
476	26/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	S/T/F	HAZ	L	P	After land sliding on CR-1 some people wanted to cross the road. There was possibility of falling material which could injure anybody passing through that area	UC	1. Barricading of the area must be done 2. Prohibition to personnel passing through that area	TTC	26/Jul/15	Closed
477	26/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	S/T/F	HAZ	H	P	At CR1, there is sliding due to rain so any worker can be injured because of that and equipment can also be damaged.	UC	1. Road should be closed for passage. 2. Watchman should be deployed to indicate the landslide if any.	TTC	26/Jul/15	Closed
478	27/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FO	HAZ	M	P	Machinery which was stand-by was inside the charging area on the weir access road.	UA	1. Company should remove its machinery from charging area. 2. It should be covered. 3. To be discussed in the toolbox meeting.	Sam	27/Jul/15	Closed
479	27/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	ENV	HAZ	L	E	Waste material was scattered in front of the OE residence.	UA	1. Waste material should be collected from front of OE residence and transferred to waste area. 2. Waste bins should be provided.	TTC	27/Jul/15	Closed
480	27/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	EL	HAZ	L	P	Inside JV Office which was under construction, a TTC worker was connecting electrical cables to each other without disconnecting power from the mains. Electrocuton hazard.	UA	1. An electrician should connect wires instead of a general labor. 2. During any type of electrical work there should be the disconnection of power from the source 3. Insulated gloves should be used during any repair work.	TTC	27/Jul/15	Closed
481	27/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	PHY	HAZ	M	P	Steel nails were observed beside OE residence in wooden planks which could injure anybody's feet.	UA	1. All wooden planks should be staked properly with barricades installed around them 2: Steel nails should be plucked out from planks to avoid foot injury.	TTC	27/Jul/15	Closed

482	28/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	SEC	HAZ	H	P	During blasting the detonators misplaced by TTC blasting team which could be misused by the other workers working at site resulting in serious threat to personnel.	UA	1. The shot firer and blasting supervisor should keep an eye on the explosive used during blasting. 2. The unauthorised entry should be prohibited. 3. The Mining Engineer should issue explosive according to the need with comparison to the drilled holes.	TTC	28/Jul/15	Closed
483	28/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	S/T/F	HAZ	M	P	During rain, the mud was observed to be present all around which could cause personnel to slip, trip & fall.	UC	1: The mud should be cleared or Backfilled with solid material. 2: The topic to be discussed in the Daily toolbox to avoid future incidents because of such hazards	TTC	28/Jul/15	Closed
484	29/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FFH	HAZ	M	P	TTC's workers are working at height without wearing safety harness due to which workers can fall from height .	UA	1. TTC should provide safety harness to the workers who are working at height. 2. Workers should wear safety harness while working at height	TTC	29/Jul/15	Closed
485	29/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	CWM	HAZ	M	P	Concrete mixer, used by TTC workers carelessly, had no guards. It could hurt any worker.	UC	1. Faulty equipment should be banned to work at site. 2. Mixer must have guards at rotating parts.	TTC	29/Jul/15	Closed
486	29/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	HEA	HAZ	M	P	Kitchen waste is lying on backside of kitchen that is a source of spread of mosquitoes and other insects.	UC	1. Kitchen waste should be disposed properly in the disposal area. 2. Area should be cleared from the biowaste.	TTC	29/Jul/15	Closed
487	30/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	OTH	HAZ	M	P	TTC workers do not wear overall so their casual clothes and skin can burn due to arc produced by welding.	UA	1. All welders should protect their whole body by wearing overall gauntlets 2. Welding helmet while carrying out welding work.	TTC	30/Jul/15	Closed
488	30/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FFH	HAZ	M	P	Poor scaffolding erected by TTC. Workers could fall from height because it has noguard rails.	UC	1. Work should be stopped. 2. Scaffolds should be erected with guard rails at sides in order to fulfill OSHA's minimum requirements.	TTC	30/Jul/15	Closed
489	30/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FFH	HAZ	M	P	TTC's workers are working at height without wearing safety harness due to which workers can fall from height .	UA	1. TTC should provide safety harness to the workers who are working at height, workers should wear safety harness while working at height 2. The topic to be discussed in the Daily	TTC	30/Jul/15	Closed
490	31/Jul/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	PHY	HAZ	L	P	Excavator and dozer helper were working on CR-6 without wearing safety shoes and helmet due to which he could get injured.	UA	1. Worker should wear safety shoes and helmet. 2. Company should facilitate them.	TTC	31/Jul/15	Closed
491	01/Aug/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FO	HAZ	L	P	TTC workers were lying under slope at CR-1, workers could injure due to fall of material as that terrian is sliding in any weather condition.	UA	1. There should be prohibition of workers sitting or taking rest under slope area. 2. Falling objects sign boards should be installed there to indicate fall of material 3. Workers should educate during daily toolbox talks.	TTC	01/Aug/15	Closed
492	01/Aug/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FFH	HAZ	M	P	There were no barricading on river banks at outlet of tunnels.	UC	1. Sambu should barricade the area. 2. All workers and helpers should be informed about fall and drowning hazard.	Sam	01/Aug/15	Closed
493	01/Aug/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	ANM	HAZ	M	P	Snake was seen in the office building. Snake bite hazard.	UC	1. Building should be vacated if the snake is inside. 2. Snake catcher should be provided. 3. Anti-snake venom should be provided.	OTH	01/Aug/15	Closed
494	02/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	S/T/F	HAZ	L	P	During rain, the mud was observed to be present all around which could cause personnel to slip, trip & fall.	UC	1: The mud should be cleared or Backfilled with solid material. 2: The topic to be discussed in the Daily toolbox to avoid future incidents because of such hazards	TTC	02/Aug/15	Closed
495	02/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	M	P	TTC workers are working on retaining wall in batching plant area without using safety harness. The personnel working they could fall down from height.	UA	1. All workers working at height should wear safety harness and to hook it properly to carry out work safely. 2. Topic to be discussed in the toolbox meeting.	TTC	02/Aug/15	Closed

496	02/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	TSPT	HAZ	M	P	TTC dumper DIR 1275 struck with the right side slope in the drain on main road behind joint restaurant. The incident happened due to brake failure and lack of maintenance	UC	1. TTC should make inspection of all the machinery on weekly basis. 2. There should be workshop inside project site area for maintenance of all kind of machinery. 3. TTC should provide inspection certificate to HSE department before using any kind of machinery.	TTC	02/Aug/15	Closed
497	03/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	CWC	HAZ	L	P	TTC workers were mixing cement in crush and sand aggregate without wearing dust masks which could cause lungs irritation and other chronic effects on continuous exposure to chemicals like cement	UC	1. All workers should wear dust masks to avoid lungs irritation caused by cement dust. 2. TTC should provide dust masks to labor	TTC	03/Aug/15	Closed
498	03/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	OTH	HAZ	L	P	TTC Dumpers helpers do not wear safety shoes during loading and unloading of material. Any sharp object can injure anybody's foot.	UA	All workers should wear safety shoes while working at site. Safety shoes must be provided to every individual by TTC	TTC	03/Aug/15	Closed
499	03/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	MH	HAZ	L	P	TTC workers were lifting concrete bricks without wearing safety gloves. Hand injury hazard.	UA	1. TTC should provide safety gloves to all workers 2. Labor should wear safety gloves to avoid manual handling injuries	TTC	03/Aug/15	Closed
500	03/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	M	P	TTC workers were making concrete of block -A by placing a ladder against the wall at a height of 3-meters without any platform. There was risk of injury due to fall of any personal.	UA	1: There should be enough material to construct scaffold around the building to make concrete on top of the walls 2: There should be proper platform with handrails and access ladders to approach platform	TTC	03/Aug/15	Closed
501	04/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	S/T/F	HAZ	L	P	TTC personnel did not make drains along CR-1 left side to drain out water coming down from slopes to road area making it very slippery for the vehicles moving up and down on CR-1.	UA	TCC should make drains on left side of CR-1 to drain out water coming from slopes.	TTC	04/Aug/15	Closed
502	04/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	OTH	HAZ	L	P	TTC dumper drivers and helpers were working in slippers at CR-1 that might cause foot injury due to presence of sharp objects on the road.	UA	1. Dumper drivers and helpers should wear safety shoes to avoid injuries. 2. TTC should provide safety shoes to dumper drivers.	TTC	04/Aug/15	Closed
503	04/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	TSPT	HAZ	L	P	On weir access road during mucking activity dumpers were loaded over than their capacity which might cause overturning or tip over of dumpers.	UA	1. Dumpers should not be overloaded than their capacity to carry material. 2. TTC supervisors should monitored the excavation and transportation of material in dumpers.	TTC	04/Aug/15	Closed
504	04/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	L	P	Wooden stands were installed under the platform to give support to it, which might collapse resulted in fall of personnel working at the platform	UC	1. For general purpose scaffold standard should be erected two meter away from each other to give sufficient support to ledgers and transoms which ultimately give support to platform. 2. Steel tubes should be erected instead of woods.	TTC	04/Aug/15	Closed
505	05/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	ENV	HAZ	L	E	TTC excavator operator was putting excavated material on edge of slop which could slide to downside in the river and contaminate it.	UC	1. Excavated material should be collected safely at one place. 2. Material should be loaded in dumpers to dump in disposal area.	TTC	05/Aug/15	Closed
506	05/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	M	P	Scaffolds were not erected properly on building Block-B. Platform's planks and access ladders were missing, guard rails were also fixed improperly. Workers were climbing on the scaffolds without any access.	UC	1. Work should be stopped. 2. A training session on scaffold erection. Intimated TTC personnel to erect the scaffolds properly. 3. Scaffolds should be gotten inspected.	TTC	05/Aug/15	Closed
507	05/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	ENV	HAZ	L	E	Sambu dumper trucks were dumping soil on right side bridge; the dumped soil was moving slowly down in the river water contaminating it.	UC	1. The excavated material should be transported to spoil tip area. 2. Excavated soil should not be dumped into or on the edge of river.	Sam	05/Aug/15	Closed
508	05/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	PHY	HAZ	L	P	Sambu workers do not wear overall so their casual clothes and skin can burn due to arc produced by welding.	UA	1. All welders should protect their whole body by wearing overall gauntlets welding helmet while carrying out welding work. 2. Toolbox meeting on PPE to be conducted at site.	Sam	05/Aug/15	Closed
509	06/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FO	HAZ	L	P	Some of the dumper helpers do not wear safety helmet. Any stone can hit on the head falling from overloaded dumper which could result in serious head injury.	UA	1. All helpers should wear safety helmet while carrying the material in dumpers. 2. Training on PPE importance should be delivered.	TTC	06/Aug/15	Closed

510	06/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	CWC	HAZ	L	P	During B-block concrete workers were working without wearing safety gloves and dust masks exposing themselves to chemical present in concrete and cement dust that causes skin, eye and lungs irritation.	UA	1. TTC should provide PPE to all labor with respect to their work. The damaged PPE should be changed with new ones. 2. Toolbox meeting should be conducted at site on PPE awareness.	TTC	06/Aug/15	Closed	
511	06/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	CWC	HAZ	L	P	TTC workers were making box culvert concrete without wearing gum shoes. This was hazardous in regard that concrete material could injure their feet and legs due to cement and chemicals mixed in concrete material.	UA	1. All workers must have gum shoes whilst making concrete 2. Gloves, overall ,safety goggles must be used to avoid skin, eye irritation 3. TTC should provide proper working platform to labor in order to make concrete, if it is more than 50 cm in height.	TTC	06/Aug/15	Closed	
512	06/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	ENV	HAZ	L	P	Sambu construction team was excavating the top of slope area to remove the materail down that is directly going in river contaminating it.	UA	1. Such kind of work should be stopped. 2. There should be the alternate solution of the problem. 3. Spoil tips should be defined.	Sam	06/Aug/15	Closed	
513	07/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	CWO	HAZ	L	P	One of the TTC workers was without safety helmet at the time after shot being fired. Though he was out of 100 meter area but there could be the chance of fly rock that might struck him on head.	UA	1. Every worker must wear safety helmet at site to keep his head safe from flying and falling objects. 2. Toolbox meeting should be conducted at site on PPE awareness.	TTC	07/Aug/15	Closed	
514	07/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	CWO	HAZ	L	P	Dumper drivers often drive dumpers on main road with excessive speed which can cause collision of personnel or equipment with fast moving dumpers	UA	Such drivers should be warned about doing unsafe act. The issue should be discussed in tool box talks	TTC	07/Aug/15	Closed	
515	07/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	OTH	HAZ	L	P	TTC workers were working without safety shoes in an area where there were steen nails in wooden planks posing puncture hazard to workers.	UA	TTC should providesafety to all of their workers to avoid foot,s injury	TTC	07/Aug/15	Closed	
516	07/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	L	P	TTC workers was riding on the bumpers of dump truck on coming outside to site area	UA	Nobody should ride on bumpers of dump trucks TTC should provide vehicles to the workers for their pick and drop	TTC	07/Aug/15	Closed	
517	08/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	L	P	TTC workers were working at height standing at scaffolding pipes without any platform which may cause serios injuries to personnel falling fro height	UA	1. There should be a proper platform to work at height provided with hadrails. 2. All workers should wear safety harness to cary out work above the height of 2 meters.	TTC	08/Aug/15	Closed	
518	08/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	ENV	HAZ	L	E	Oil spills were observed in TBM ground due to parking and mantinance of heavy equipment by TTC operators which results in contamination of soil	UC	1. TTC should provide dip trays to the heavy equipment operators. 2. The leaked oil should be collected in dip trays. 3. Oil spill kits should be used to avoid soil contamination	TTC	08/Aug/15	Closed	
519	08/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	ENV	HAZ	L	E	Large quantity of waste is scattered outside of OE building	UC	1. TTC should collect all the waste scattered around OE building. 2. The collected waste should be transferred to waste area.	TTC	08/Aug/15	Closed	
520	08/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	S/T/F	HAZ	L	P	Scaffold's items and concrete bricks are lying outside of JV office posing trip hazard to the workers.	UC	1. TTC workers should collect all the scattered materail around the building 2. The material should be arranged in a proper way to avoid trip hazard	TTC	08/Aug/15	Closed	
521	09/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	L	P	TTC workers were working on reatining wall over scaffolds without using safety harness at a height of almost 3 meters. The workers could fall down from height and got injured.	UA	1. TTC should provide safety harnesses to the workers who are working at height 2. Workers should wear safety harness while working at height	TTC	09/Aug/15	Closed	
522	09/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	TTC workers were carried out drilling work on weir access road without wearing dust masks that may create ill health effects to the workers exposing directly to the dust	UA	TTC should provide dust masks to the workers Supervisors should instrcut workers to wear all PPE with reseoct to their work	TTC	09/Aug/15	Closed	
523	09/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	ENV	HAZ	L	E	TTC workers were doing maintenace work of excavator beside TBM ground. Rags were scattered around excavator. A layer of leaked oil was observed on stagnant water.	UC	1. There should be proper houskeeping of the area 2. The spilled oil should be collected in dip trays 3. Oil spill kits should be used to avoid soil contamination	TTC	09/Aug/15	Closed	

524	09/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HB	HAZ	L	P	TTC supervisors do not wear safety helmet while working on wear access road improving negative culture among other workers working under their supervision	UA	1. PPE must be used at site. 2. Supervisors should be the role model for other workers. 3. They should guide other workers about their safety. 4. TTC should take strict action about such	TTC	09/Aug/15	Closed	
525	10/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	L	P	TTC workers were working on scaffolds beside OE building without using safety harness at a height of almost 3 meters. The workers could fall down from height and got injured.	UA	1. TTC should provide safety harnesses to the workers who are working at height. 2. Workers should wear safety harness while working at height.	TTC	10/Aug/15	Closed	
526	10/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	OTH	HAZ	L	P	TTC dumper drivers and helpers were working in slippers on wear access road that might cause foot injury due to presence of sharp objects on the road.	UA	1. Dumper drivers and helpers should wear safety shoes to avoid injuries. 2. TTC should provide safety shoes to	TTC	10/Aug/15	Closed	
527	10/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	Sambu workers were carried out drilling work on ridge top without wearing dust masks that may create ill health effects to the workers exposing directly to the dust	UA	TTC should provide dust masks to the workers Supervisors should instruct workers to wear all PPE with respect to their work	TTC	10/Aug/15	Closed	
528	10/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	ENV	HAZ	L	E	TTC workers were doing maintenance work of excavator beside TBM ground. Rags were scattered around excavator. A layer of leaked oil was observed on stagnant water.	UC	1. There should be proper housekeeping of the area. 2. The spilled oil should be collected in dip trays. 3. Oil spill kits should be used to avoid soil contamination.	TTC	10/Aug/15	Closed	
529	11/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	PHY	HAZ	L	P	Sambu workers were carrying out welding work in workshop area without wearing welding helmet and overall posing themselves to radiation hazard	UA	1. Sambu should provide Safety equipment to the welders 2. Workers should wear all the safety equipment to avoid radiation hazard	Sam	11/Aug/15	Closed	
530	11/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	EL	HAZ	L	P	In workshop area Sambu Generator is lying uncovered with live wires so any unauthorized person could get electric shock by touching the wires.	UC	1. Sambu should cover the generator or they should construct a fence around it to stop unauthorized entry. 2. Toolbox meeting on electrical safety should be conducted.	Sam	11/Aug/15	Closed	
531	11/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	S/T/F	HAZ	L	P	There are no barricades installed on right side of CR-1 near bridge so any vehicle can slip from the road and may fall in river.	UC	1. Area should be barricaded. 2. Permanent guard rails should be installed there to avoid any fall.	TTC	11/Aug/15	Closed	
532	11/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	There is stagnant contaminated water inside washrooms of block-M creating ill smell in the surrounding and other health hazards.	UC	1. TTC should clean all the washrooms. 2. Drains pipes should be repaired to drain out water. 3. There should be a sweeper on duty to clean washrooms properly.	TTC	11/Aug/15	Closed	
533	12/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	OTH	HAZ	L	P	A TTC worker was cleaning stuck soil material barefooted from dumper's loading bed that could result in foot injury due to sharp objects present in soil material.	UA	1. TTC Supervisors should stop such workers from doing unsafe acts. 2. The topic should be discussed in toolbox meeting.	TTC	12/Aug/15	Closed	
534	12/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	Sambu workers are carrying out drilling work at ridge point without wearing ear plugs that could affect their auditory sensation	UA	1. During drilling work workers should wear ear plugs muffs to avoid noise hazard. 2. Toolbox meeting on hearing conservation should be conducted.	TTC	12/Aug/15	Closed	
535	12/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	MH	HAZ	L	P	TTC workers were lifting concrete bricks without wearing safety gloves. Hand injury hazard.	UA	1. TTC should provide safety gloves to all workers 2. Labor should wear safety gloves to avoid manual handling injuries	TTC	12/Aug/15	Closed	
536	13/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FE	HAZ	L	P	A steel rod was stucked in a drilled hole before by carrying out charging activity on CR-6 which could not be pulled out by labour during charging activity that could initiate any detonator due to static charge present in the metal	UC	1. The charging area should be clear of any metal object. 2. The topic should be discussed in toolbox meeting.	TTC	13/Aug/15	Closed	
537	13/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FO	HAZ	L	P	Soil material was being removed from CR-1 slope area in the absence of signalmen. The material could slide down on the vehicles passing on the road	UC	1. TTC should depute signalmen on slope area during excavation work. 2. TTC should supervise the activity properly.	TTC	13/Aug/15	Closed	
538	13/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	Sambu workers were lifting dynamite cartridges without wearing gloves that may affect their health when any thing will be swallowed by workers without washing hands.	UC	1. All labor should wash their hands in basin installed in labor mess. 2. Labor should wear safety gloves during charging activity.	TTC	13/Aug/15	Closed	
539	13/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	Water and sludge is stucked in washrooms of block-M which is creating ill smell in the whole building.	UC	1. TTC should depute a person on duty to clean washrooms on daily basis.	TTC	13/Aug/15	Closed	

540	14/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	L	P	TTC workers were working on scaffolds without using safety harness at a height of almost 3 meters. The workers could fall down from height and got injured.	UA	1. TTC should provide safety harnesses to the workers who are working at height. 2. orkers should wear safety harness while working at height 3. Warning letters should be issued to the workers who do not follow safety rules	TTC	14/Aug/15	Closed	
541	14/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	OTH	HAZ	L	P	Fire extinguishers are lying away from working site under trees near CR-6, so in any fire emergency it would be difficult to control fire in quick time due to improper location of fire extinguishers	UC	Sambu should install the fire extinguisher in working area on a steel stand fixed in ground.	Sam	14/Aug/15	Closed	
542	14/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	CWC	HAZ	L	P	During box culvert concrete workers were working without wearing safety gloves and dust masks exposing themselves to chemical present in concrete and cement dust that causes skin, eye and lungs irritation.	UA	1. TTC should provide PPE to all labor with respect to their work. 2. The damaged PPE should be changed with new ones.	TTC	14/Aug/15	Closed	
543	14/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	PHY	HAZ	L	P	Sambu workers were carrying out welding work in workshop area without wearing welding helmet and overall posing himself to radiation hazard	UA	Sambu should provide Safety equipment to the welders Workers should wear all the safety equipment to avoid radiation hazard	Sam	14/Aug/15	Closed	
544	15/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FE	INSP	L	P	Sambu workers were cutting detonators wires with a steel cutter during charging activity at outlet tunnel portal. The steel cutter could initiate detonators due to its static charge	UA	1. Sambu workers should use brass cutter to cut the detonator wires. 2. To be discussed In toolbox meeting.	Sam	15/Aug/15	Closed	
545	15/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	L	P	The access road leads HRT is very narrow over right abutment of the bridge. There are no barricades to indicate Fall from height hazard or Slip hazard	UC	Sambu should install there hard barricades with reflector tape to indicate and minimize such kind of hazard.	Sam	15/Aug/15	Closed	
546	15/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	CWC	HAZ	L	P	TTC workers were making box culvert concrete at CR-1 without wearing gum shoes. This was hazardous in regard that concrete material could injure their feet and legs due to cement and chemicals mixed in concrete material	UA	1: All workers must have gum shoes whilst making concrete 2: Gloves, overall ,safety goggles must be used to avoid skin, eye irritation 3 TTC should provide proper working platform to labor in order to make concrete if it is more than 50 cm in high	TTC	15/Aug/15	Closed	
547	15/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	OTH	HAZ	L	P	TTC workers were working in slippers at CR-1 that might cause foot injury due to chemicals in concrete.	UA	1. TTC workers should wear safety shoes during concrete work to avoid injuries. 2. TTC should provide safety shoes workers working in site areas.	TTC	15/Aug/15	Closed	
548	16/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	ENV	HAZ	L	E	Large quantity of waste is scattered outside of M-block building	UC	1. TTC should collect all the waste scattered around M-block building. 2. The collected waste should be transferred to waste area.	TTC	16/Aug/15	Closed	
549	16/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	TSPT	HAZ	L	P	TTC dumpers drivers were driving on the weir access and CR-1 with excessive speed. The dumper could be off track or hit any person walking on the road	UA	1. There should be a signalman to control the traffic. 2. The drivers driving in excessive speed should be fined as per violation committed by them against the rule	TTC	16/Aug/15	Closed	
550	16/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	Dust was spreading on the roads due to movement of heavy equipments causing lungs and eye irritation	UC	TTC should sprinkle water over the road to minimize dust.	TTC	16/Aug/15	Closed	
551	16/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	EL	HAZ	L	P	An electrical panel is lying open without any cover behind block-G building. Any person walking through that area can get electric shock by touching it.	UC	1. There should be a cover installed over electrical panel. 2. The cover should be fixed with electric panel to shut it down.	OTH	16/Aug/15	Closed	
552	17/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	TSPT	HAZ	L	P	TTC dumper drivers were found over speeding at site area which could result in RTI.	UC	1. TTC Supervisors should stop such drivers from doing unsafe acts. 2. The topic should be discussed in toolbox meeting.	TTC	17/Aug/15	Closed	
553	17/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	H	P	TTC workers were working at height standing at scaffolding pipes without any platform which may cause serious injuries to personnel falling from height	UA	1. There should be proper platform with handrail s and planks to carry out work at height. 2. TTC supervisors should make sure the provision of safety harness	TTC	17/Aug/15	Closed	
554	17/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FO	HAZ	L	P	TTC workers were sitting under slope area of CR-1 which might cause injury to personnel due to fall of material from the slope	UC	1. Workers should not sit under slopes on the road. 2. The topic should be discussed in the toolbox meeting.	TTC	17/Aug/15	Closed	
555	17/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	Dust is spreading on the roads due to movement of heavy equipments and light vehicles causing irritations including throat lungs and nasal cavities.	UC	TTC should sprinkle water over the roads to control dust emission	TTC	17/Aug/15	Closed	

556	18/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	One of the TTC blasting team helpers got faint/unconscious due to weather conditions and dehydration.	UC	1. All workers should drink enough water mixed with ORS to avoid dehydration. 2. Supervisors should give rest to the labors in hot weather conditions.	TTC	18/Aug/15	Closed
557	18/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FO	HAZ	L	P	Large stones were falling from due to opened back doors of dumpers that may damage any other vehicle travelling on the road or hit any walking person on the road.	UC	1. Sambu supervisors should check the back doors of dumpers regularly to avoid fall of material on the road 2. There should be helpers with dumpers to shut the door after loading material and open it during unloading	Sam	18/Aug/15	Closed
558	18/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	ENV	HAZ	L	P	Oil spills were observed on CR-6. There were oily rags scattered here and there.	UC	Sambu should use dip trays under machinery that is broken down	TTC	18/Aug/15	Closed
559	18/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	TC	HAZ	L	P	TTC concrete mixers are still operated without covering the pulleys and belts rotating over it.	UC	There should be adjustable safegurads fixed over pulleys and rotating belt to avoid trapping and crushing hazard	TTC	18/Aug/15	Closed
560	19/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	TTC workers are carrying out drilling work at ridge point without wearing ear plugs that could effect their auditory sensation	UA	During drilling work workers should wear ear plugs muffs to avoid nise hazard	TTC	19/Aug/15	Closed
561	19/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	ENV	HAZ	L	P	Large quantity of waste is scattered in stock yard area beside Korean residence	UC	1. TTC, Sigme and Sambu should collect all the waste. The collected waste should be	TTC	19/Aug/15	Closed
562	19/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	OTH	HAZ	L	P	TTC workers were working in slippers during drilling at CR-1 that might cause foot injury due to sharp objects	UA	1. TTC workers should wear safety shoes during concrete work to avoid injuries. 2. TTC should provide safety shoes to workers working at site areas.	TTC	19/Aug/15	Closed
563	20/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	PHY	HAZ	L	P	Dumper helper was working on CR1 without wearing safety shoes and helmet due to which he could be injured.	UA	1. Worker should be instructed to wear safety shoes and helmet. 2. PPE compliance toolbox meeting should be used.	TTC	20/Aug/15	Closed
564	21/Aug/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	PHY	HAZ	L	P	There were steel nails observed steel nails beside JV office in wooden planks which could injure anybody's foot.	UC	1: All wooden planks should be staked properly with barricades installed around them 2: Steel nails should be plucked out from planks to avoid foot injury	TTC	21/Aug/15	Closed
565	21/Aug/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	ENV	HAZ	L	P	It is observed by EPCC HSI team that there is too much waste material was scattered in the front of JV office.	UC	Waste material was being collected from front of JV office and put into waste bin.	TTC	21/Aug/15	Closed
566	22/Aug/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	ENV	HAZ	L	E	Oil spills were observed outside of generator room. There were oily rags scattered here and there.	UC	1. Electrical department should use dip trays under generator that is broken down 2. Environment must be considered.	OTH	22/Aug/15	Closed
567	23/Aug/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FFH	HAZ	H	P	SAMBU people were working at height without wearing safety belt and they were using loader's bucket due to which they could fall and get injured.	UA	1. People were asked to use charging car and wear safety belt. 2. Toolbox meeting should be conducted.	Sam	23/Aug/15	Closed
568	23/Aug/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	CWC	HAZ	M	P	SAMBU workers do not wear overall so their casual clothes and skin can burn due to arc produced by welding.	UA	All welders should protect their whole body by wearing overall gauntlets welding helmet while carrying out welding work	Sam	23/Aug/15	Closed
569	24/Aug/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	PHY	HAZ	L	P	SAMBU Dumper driver and helper was working on CR1 without wearing safety shoes and helmet due to which they could be injured.	UA	1. Worker were asked to wear safety shoes and helmet. 2. Toolbox meeting on PPE should be conducted.	Sam	24/Aug/15	Closed
570	25/Aug/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	EL	HAZ	M	P	Inside JV Office, a TTC worker was connecting electrical cables to each other's without disconnecting power which could cause electric shock to the involved worker.	UA	1. An electrician should connect wires instead of a general labor. 2. During any type of electric work there should be the disconnection of power from the source 3. Insulated gloves should be used during any repair work.	TTC	25/Aug/15	Closed

571	26/Aug/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FO	HAZ	M	P	Sambu machinery is standby on weir access road inside charging area during blasting area. The flying stone could hit any machine and may damage it.	UC	1: Company should remove its machinery 2: If could not remove personnel should cover it 3: If the machinery is stand by there, it would be sambu/TTC responsibility in case of any damage to machinery	Sam	26/Aug/15	Closed
572	27/Aug/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	PHY	HAZ	L	P	Dust was spreading around due to movement of heavy equipment on site area which could stimulate sneezing reflex and lungs irritation to workers.	UC	1. There should be water sprinkling over road area on daily basis to control dust. 2. The vehicle's speed should be maximum as 05 Kmph. 3. Three times sprinkling every sunny day.	TTC	27/Aug/15	Closed
573	28/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	H	P	TTC workers were working on scaffolds without using safety harness at a height of almost 6 meters. The workers could fall down from height and got injure	UA	1. TTC should provide safety harnesses to the workers who are working at height. 2. Workers should wear safety harness while working at height	TTC	28/Aug/15	Closed
574	28/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FO	HAZ	L	P	TTC workers were sitting under slope area of CR-1 which might cause injury to personnel due to fall of material from the slope.	UA	1. Workers should not sit under slopes on the road. 2. The topic should be discussed in the tool box meeting.	TTC	28/Aug/15	Closed
575	28/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	L	P	The access road leads to HRT is very narrow over right abutment of the bridge. There are no barricades to indicate Fall from height hazard or Slip hazard	UC	Sambu should install there hard barricades with reflector tape to indicate and minimize such kind of hazard.	TTC	28/Aug/15	Closed
576	28/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	L	P	The handrails were installed away from platform, so there was gap between platform and handrail.there was chances of fall of workers from those gaps.	UC	The installed standards must be tied with ledgers to avoid gaps between platform and hand rails constructed over the extended ledgers.	TTC	28/Aug/15	Closed
577	29/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FO	HAZ	L	P	TTC dumper helpers were moving on wear access road without wearing safety helmet. Falling stones could hit heads of the personnel without safety helmet.	UA	1. Supervisors should be the role model for other workers. 2. They should guide other workers about their safety. 3. TTC should take strict action about such workers.	TTC	29/Aug/15	Closed
578	29/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	L	P	TTC workers were using a ladder to install rock bolts on outlet tunnel portal. The workers could fall down from height by imbalancing of their body.	UA	1. Charging car should be used to install rock bolts. 2. There should be prohibition of using ladder to install rock bolts.	Sam	29/Aug/15	Closed
579	29/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	OTH	HAZ	L	P	TTC workers were working in slippers during drilling at CR-1 that might cause foot injury due to sharp objects.	UA	1. TTC workers should wear safety shoes during concrete work to avoid injuries. 2. TTC should provide safety shoes to workers working at site areas.	Sam	29/Aug/15	Closed
580	30/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FE	HAZ	L	P	TTC workers are using their accomodation as a fuel storage which can get fire by ignition source	UA	1. Fuel should not be stored inside any residential room. 2. The stored fuel should be removed from accomodation to fuel storage area	TTC	30/Aug/15	Closed
581	30/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	CWM	HAZ	L	P	There is no barrier in front of belt conveyor passing under hoppers. Some body's hand can touch or trap between rollers and moving belt	UC	Mechanical department should construct some guardrails protection there to eliminate contact of personnel with belt conveyor	OTH	30/Aug/15	Closed
582	30/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	Dust is spreading on the roads due to movement of heavy equipments and light vehicles causing irritations including throat lungs and nasal cavities	UC	1. TTC should sprinkle water over the roads to control dust emission. 2. Masks should be used in dust.	TTC	30/Aug/15	Closed
583	31/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	There is stagnant contaminated water inside washrooms of block-M creating ill smell in the surrounding and other health hazards	UC	1. TTC should clean all the washrooms Drains pipes should be repaired to drain out water. 2. There should be a sweeper on duty to clean washrooms properly.	TTC	31/Aug/15	Closed
584	31/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HB	HAZ	L	P	TTC supervisors do not wear safety helmet while working on wear access road improving negative culture among other workers working under their supervision.	UA	1. Supervisors should be the role model for other workers. 2. They should guide other workers about their safety. 2. TTC should take strict action about such supervisors and Managers.	TTC	31/Aug/15	Closed
585	31/Aug/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	CWC	HAZ	L	P	TTC workers were making box culvert concrete at CR-1 without wearing gum shoes. This was hazardous in regard that concrete material could injure their feet and legs due to cement and chemicals mixed in concrete material	UA	1. All workers must have gum shoes whilst making concrete 2. TTC should provide proper working platform to labor in order to make concrete if it is more than 50 cm in height.	TTC	31/Aug/15	Closed

586	01/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	There is stagnant contaminated water inside washrooms of block-E creating ill smell in the surrounding and other health hazards.	UC	1. TTC should clean all the washrooms Drains pipes should be repaired to drain out water. 2. There should be a sweeper on duty to clean washrooms properly	TTC	01/Sep/15	Closed	
587	01/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	ENV	HAZ	L	P	Soil material is continuously being removed by TTC workers in the river that may harm the aquatic life and vegetation	UA	A plan should be made to recollect & properly dispose the material.	TTC	01/Sep/15	Closed	
588	02/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	Sambu workers are carrying out drilling work at outlet tunnel portal without wearing ear plugs that could affect their auditory sensation.	UA	Sambu should provide ear plugs to the workers involved in drilling work	Sam	02/Sep/15	Closed	
589	02/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	MH	HAZ	M	P	Sambu workers are lifting the materail manually that is uneasy to grasp due its volume and weight and can cuse back pian or foot injury when fall	UA	1. Supervisors should instruct the labor about amannual hadling techniques. 2. The topic should be discussed in tool box meeting 3. The lifting of objects heavy in weight and large in volume should be carried out with the help of machinery like crane or with the help of enough manpower	Sam	02/Sep/15	Closed	
590	03/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	TTC workers were filling fuel drums without using safety gloves which may cause skin irritation	UA	TTC workers should use safety gloves while filling fuel in cans/drums	TTC	03/Sep/15	Closed	
591	03/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	Some of the TTC balsting helpers are not using safety gloves during loading of explosive in the drilled holes. The toxic nature of explosive could cause diseases during injestion of food	UA	Blasting helpers and shpftfres should use safety gloves during charging activity. They should wash their hands with soap properly before having lunch or dinner	TTC	03/Sep/15	Closed	
592	03/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	Sambu workers are drinking water from a water cooler stained with dirt contianing germs and soil material which inturn may cause stomach diseases	UC	Sambu workers should wash the water cooler to make it free of germs and mud	Sam	03/Sep/15	Closed	
593	04/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	S/T/F	HAZ	L	P	Due to sprinkling of water on outlet tunnel portal the road become slippery for the dump trucks.	UC	1. Small quntity of water should be sprinkled over the road to avoid dust. 2. The sludge should be removed with the help of wheel loader to avid slip hazard.	Sam	04/Sep/15	Closed	
594	04/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	L	P	Sambu workers were cleaning the outlet portal slope standing in charging car bucket without using safety harness. There was a hazard of fall of workers by sudden jolt when stepping up in bucket	UC	1. For maximum protection against fall, workers should use safety harness working inside bucket. 2. Work at height should be performed with all its safety protocols.	Sam	04/Sep/15	Closed	
595	04/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	OTH	HAZ	M	P	There is bolt inside steel rod supporting cover of charging car bucket which could injure any worker's hand during installtion of rock bolts	UC	The bolt should be wraped up with cloth or should be removed to aviod hand injury	Sam	04/Sep/15	Closed	
596	04/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	PHY	HAZ	L	P	During welding and cutting activity at outlet tunnel portal the welding helper was standing near the sparks produced by cutting of equipment in half sleeve shirt. The flame containing molten metal can cause severe burn.	UA	1. The welders and helpers should cover all of their body by wearing overall and mandatory PPE for welding. 2. Work permit's recommendations should be strictly followed.	Sam	04/Sep/15	Closed	
597	05/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FE	HAZ	L	P	Sambu survey team conducted survey during charging activity by using metallic stick in charging area which can intiate detonators due to static charge.	UA	1. The unauthorised personnel should not be allowed in charging area. 2. Way towards charging area should be barricaded.	Sam	05/Sep/15	Closed	
598	05/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	ENV	HAZ	L	P	Waste materail is lying around on outlet tunnel portal polluting the land.	UC	1. Waste collection team should collect & properly dispose off the waste.	Sam	05/Sep/15	Closed	
599	05/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	TSPT	HAZ	L	P	TTC dumper's drivers were driving on the weir access road and CR-1 with excessive speed . The dumeper could be off track or hit any person walking on the road.	UA	1. Site speed limits should be strictly followed. 2. There should be a signalman to control the traffic. 3. The drivers driving in excessive speed should be fined as per violation committed by them against the rule.	TTC	05/Sep/15	Closed	
600	05/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	MH	HAZ	L	P	TTC workers were lifting concrete bricks without wearing safety gloves, the sharp edges of bricks could injure their hands	UA	TTC should provide gloves to all labor working at any site area. Labor should wear safety gloves during manual lifting or other manual handling works	TTC	05/Sep/15	Closed	
601	06/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FE	HAZ	L	P	TTC workers were carryung out welding work inside JV office in the absence of fire extinguisher to extinguish fire	UC	TTC should provide fire extinguishers to extinguish fire in case of fire incident during welding work	TTC	06/Sep/15	Closed	
602	06/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	AD	HAZ	L	P	TTC workers without wearing life jackets conducted blasting on a boulder located in the river. The workers could drown in the deep water	UA	TTC should make sure the provision of life jackets in such kind of situation before execution of work	TTC	06/Sep/15	Closed	

603	06/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	L	P	A Sigma worker was hanging on the crane hook while carrying out lifting operation who could fall from height	UA	Supervisors should stop the workers involved in unsafe acts Such workers should have been given warning letter by HSE department	OTH	06/Sep/15	Closed	
604	06/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	TTC workers are drinking river water working on additional track along river. The river water can cause stomach problems like indigestion	UA	TTC should provide water coolers to workers to take water on site areas to drink workers should take drinking water from drinking water stations to drink. Workers should abstain from drinking river water	TTC	06/Sep/15	Closed	
605	07/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	M	P	Sambu workers were installing rock bolts on outlet tunnel portal standing on Crawler's drilling rod which could result in fall from height	UA	Sambu should provide proper platform to install rock bolts. Foreman and Supervisors should instruct workers to carry out work safely	Sam	07/Sep/15	Closed	
606	07/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	M	P	Sambu Supervisors are forcing workers to carry out work hurriedly within minutes while working at height which may result in fall of workers from height	UA	The topic should be discussed in tool box meeting. Such Supervisors should have been given warning letter in case of repeated violation	Sam	07/Sep/15	Closed	
607	07/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	S/T/F	HAZ	L	P	Sambu workers were installing rock bolts on outlet tunnel portal standing on wire mesh on bottom of slope. The workers could fall down by slipping or tripping from wire mesh pieces	UC	Sambu should provide proper platform to install rock bolts. Foreman and Supervisors should instruct workers to carry out work safely	Sam	07/Sep/15	Closed	
608	07/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	ENV	HAZ	L	E	Sambu dump trucks were dumping soil on the river bank on outlet tunnel portal; the dumped soil was moving slowly down in the river water contaminating it	UA	Sambu should select another area for dumping material. The material should be dumped away from the river bank which do not result in water contamination	Sam	07/Sep/15	Closed	
609	08/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	L	P	The stairs leads to 1st floor of JV office are without handrails guardrail so somebody can fall from height in the absence of protection/railings	UC	TTC should install handrails there to protect personnel who can fall from height	TTC	08/Sep/15	Closed	
610	08/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FO	HAZ	L	P	Sambu dumper helper and driver are working without wearing PPE who can be injured because of falling objects from loaded dumper or slopes	UA	Sambu should provide PPE to the helpers and drivers working on site area	Sam	08/Sep/15	Closed	
611	08/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	MH	HAZ	M	P	TTC workers were lifting concrete bricks without wearing safety gloves the sharp edges of bricks could injure their hands	UA	TTC should provide gloves to all labor working at any site area. Labor should wear safety gloves during manual lifting	TTC	08/Sep/15	Closed	
612	08/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	ENV	HAZ	L	E	Soil material is continuously being removed by TTC workers in the river that may harm the aquatic life and vegetation	UA	Daelim Management should make a plan to recollect and proper disposal of material	TTC	08/Sep/15	Closed	
613	09/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	OTH	HAZ	L	P	On wear access road during mucking activity dumpers were loaded over than their capacity which might cause overturning of dumpers	UA	1: Dumpers should not be overloaded than their capacity to carry material. 2: TTC supervisors should monitored the excavation and transportation of material in dumpers	TTC	09/Sep/15	Closed	
614	09/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	S/T/F	HAZ	L	P	Housekeeping condition was very poor inside batching plant area. Material was lying here and there which could result in trip and fall.	UC	1: Material should be stacked properly 2: Other waste should be collected and transferred to waste area.	OTH	09/Sep/15	Closed	
615	09/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	TSPT	HAZ	L	P	Sambu dumpers' drivers were driving on CR-1 with excessive speed. The dumper could be off track or hit any person walking on the road	UA	There should be a signalman to control the traffic. The drivers driving in excessive speed should be fined as per violation committed by them against the rule	Sam	09/Sep/15	Closed	
616	09/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	Dust was spreading on the roads especially near outlet tunnel portal area due to movement of heavy equipments causing lungs and eye irritation	UC	Sambu should sprinkled water over the road to minimize irritation caused by dust	Sam	09/Sep/15	Closed	
617	10/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	CWO	HAZ	M	P	Fly rock was observed during blasting at outlet tunnel portal because blast mats were not placed over charged holes	UA	1. Blast mats must be placed over charged area. 2. Concerned supervisor should give stern warning on such violation.	Sam	10/Sep/15	Closed	
618	10/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	ENV	HAZ	M	E	TTC Excavator operators were throwing material on slope area of weir access road which was directly going in the river water	UA	TTC should supervise the excavation activity carried out on weir access road. The material should be transported in dumpers to dispose it properly at designated spoil tips.	TTC	10/Sep/15	Open	
619	10/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	CWO	HAZ	L	P	The blating wire is short in length so there is hazard of flying object that can hit short firer near to the blasting area	UC	Sambu should increase the length of wire so that the blast can be conducted safely while remaining at a safe distance	Sam	10/Sep/15	Closed	
620	10/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	VIO	HAZ	L	P	TTC blasting team members were quarrelling with each other on work distribution	UA	TTC supervisors should control the labor and instructed them to work collaborately	TTC	10/Sep/15	Closed	

621	11/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FE	HAZ	L	P	Thunder was observed during blasting at CR-6 which could initiate the detonators	UC	In bad weather conditions blasting activity should be prohibited. Blasting should be carried out in suitable weather conditions	TTC	11/Sep/15	Closed	
622	11/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	Resturant honor is not taking care of cleanliness of the kitchen. The plastic glasses are being used which can not be clean properly after use.	UC	Resturant team should clean all the items properly. Transparent glasses should be used instead of those made from plastic materail	OTH	11/Sep/15	Closed	
623	11/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FE	HAZ	L	P	Fire extinguisher are missing from workshop area where welding cutting work is being carried out by Sambu workers	UC	Sambu should istall different types of ifre extinguishers in workshop area to extinguish any type of fire	Sam	11/Sep/15	Closed	
624	11/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	CWM	HAZ	L	P	There is no barrier in front of belt conveyor passing under hoppers. Some body's hand can touch or trap between rulers and moving belt	UC	Mechanical department should construct some guardrails protection there to eliminate contact of personnel with belt conveyor	OTH	11/Sep/15	Closed	
625	12/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	CWO	HAZ	L	P	One of the sambu workerer was not wearing safety goggles while cleaning the looose material from slope by using compressed air. The flying particles could penetrate into eyes of worker	UA	Sambu should provide safety goggles and other PPE toall worker involved in such activity. Supervisor should make sure that all workers area wearing PPE	Sam	12/Sep/15	Closed	
626	12/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	CWO	HAZ	L	P	The compressor pipe is fitted with shotcrete machine pump valve by tiding it with wires instead of steel clamp. The air hose could open from the vavle; hit anybody neraby and injure him	UC	Sambu should use steel couplers to connect all the joints of air hose along with whipcheck	Sam	12/Sep/15	Closed	
627	12/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	Daelim's workekers are not using all the PPE during shotcrete work which can cause lungs eye irritation	UA	Workers should wera all the PPE to avoid irritation hazard	OTH	12/Sep/15	Closed	
628	12/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	OTH	HAZ	M	P	During blasting activity at outlet tunnel portal, thereis no proper arrangement to cover the generator placed nearby to the blasting area	UC	Sambu should arrange the steel or wooden sheets to cover the generator properly	Sam	12/Sep/15	Closed	
629	13/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	Dust is spreading on the roads due to movement of heavy equipments and light vehicles causing irritations including throat lungs and nasal cavities	UC	TTC should sprinkeled water over the roads to control dust emission	TTC	13/Sep/15	Closed	
630	13/Sep/15	pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FO	HAZ	L	P	Goats are often entered inside project area especially on weir access road slope. Fall of materail is being observed when goats are passing on the slope which can injure anyperson down side on the road.	UC	Security should stop the unauthorized entry of animals inside poject area	OTH	13/Sep/15	Closed	
631	13/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FE	HAZ	L	P	Acetylene gas cylinders were lying on ground beside welding area. The cylinder could get fire by welding cutting work in case of leakage of gas	UC	The cylider should be kept in stands in an oreder away from naked flames	OTH	13/Sep/15	Closed	
632	13/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FO	HAZ	L	P	The rock material on right side of outlet tunnel portal slided down which could injure any person underneath	UC	The loose materail should be excavated from the slope area. There should do some shotcrete work for stability of slope.	Sam	13/Sep/15	Closed	
633	14/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FO	HAZ	L	P	Boulders were falling down from the loaded dumper on Cr-1 which could hitanybody walking on the road.	UC	Sambu should install the backdoors of dumpers The overloading of dumpers must be avoided	Sam	14/Sep/15	Closed	
634	14/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	OTH	HAZ	L	P	Sambu workers were installing roofing pipes over crown of Tunnel at outlet tunnel portal without using safety gloves. The steel strips wraped over pipes could cause injury to personnel involved in the activity	UA	Sambu should provide Safety gloves to the workers working at outlet tunnel portal	Sam	14/Sep/15	Closed	
635	14/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	EL	HAZ	L	P	There is a damaged electrical board inside kitchen which can cause electric shock to any person touching it unconsciously	UC	Electrical departemnt should repair the electric board as soon as possible	OTH	14/Sep/15	Closed	
636	14/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	TSPT	HAZ	L	P	Sambu dumpers' drivers and helpers are not participating in the tool box meeting. They would remain unaware of the transport hazards which may harm them	UA	Sambu Management should take action against those drivers who are not coming in tool box meeting	Sam	14/Sep/15	Closed	
637	15/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	There is stagnat water under box culvert which can be the habitat of mosquitos causing malaria in huamn beings	UC	The stagnet water should be drained of under box culvert by removing soil materil dumped there	TTC	15/Sep/15	Closed	
638	15/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	Dust is spreading on the roads due to movement of heavy equipments and light vehicles causing irritations including throat lungs and nasal cavities	UC	TTC should sprinkeled water over the roads to control dust emission	TTC	15/Sep/15	Closed	
639	15/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	Insects warere observed in water cooler. The unpurified water could cause stomach diseases	UC	Daelim Admin Department should change the filters of water cooler to purify water for drinking purpose	OTH	15/Sep/15	Closed	
640	15/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	CWO	HAZ	L	P	During shotcerete activity air hose ends are connected with wires which can burst open and hit anybody in the vicinity causing ijury to personal	UC	The wires should be romved and the ends of air house should be connected with steel clamps with the application of whipcheck	Sam	15/Sep/15	Closed	
641	15/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	M	P	There is no first aid station and shelter at Cr-6, so any body got injure or ill it is difficult to give first aid or treatment to that person	UC	TTC should make a shelter for first aid station and rest room to manage the health and safety facilities there.	TTC	15/Sep/15	Closed	

642	15/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	Because of insufficient ventilation and exhaust system in side restaurant, onion fumes are causing irritation of eyes	UA	Adim and Construction department of EPCC should install exhaust system in the restaurant to evacuate onion fumes	OTH	15/Sep/15	Closed	
643	15/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	PHY	HAZ	L	P	There is no proper lighting arrangement inside TBM ground to conduct Night shift tool box talks. Workers are facing problems due to insufficient illumination.	UC	Electrical department EPCC should install light around TBM ground to fulfill the light requirements	OTH	15/Sep/15	Closed	
644	16/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	Water is accumulated beside block L that is source of spread of mosquitos and flies	UC	Construction department should construct drains to drain out stagnant water	OTH	16/Sep/15	Closed	
645	17/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	Daelim Q/C workers were inspecting shotcrete without using dust masks and safety goggles which may cause lungs or eye irritation	UA	All workers should wear all mandatory PPE during shotcrete work	OTH	17/Sep/15	Closed	
646	17/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	CWO	HAZ	L	P	During charging activity some workers were working under charging car bucket who could hit with bucket when moved down towards bottom	UC	The workers should not work under bucket. There should be some plastic chain fitted with bucket vertically which on touching with the workers working underneath realize him that bucket is coming down and they escape out easily	Sam	17/Sep/15	Closed	
647	17/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	ENV	HAZ	L	P	Because of dropping boulders in the river, the river width is reduced; the soil material is contaminating river water too	UC	Sambu should not dump boulder and soil in the river. The boulders and soil should be dumped in the designated area	Sam	17/Sep/15	Closed	
648	17/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	CWO	HAZ	L	P	One of the TTC workers was without safety helmet at the time after shot being fired. Though he was out of 100 meter area but there could be the chance of fly rock that might struck him on head	UA	Every worker must wear safety helmet at site to keep his head safe from flying and falling objects	TTC	17/Sep/15	Closed	
649	18/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	TC	HAZ	M	P	Sambu workers were placing the steel beams on tunnel face standing behind girder in front of face. The girder could crush the legs of workers falling on tunnel face	UC	Workers should not stand behind steel beam on tunnel face Forman should always instruct the workers to place the beams girder/ carefully	Sam	18/Sep/15	Closed	
650	18/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	TC	HAZ	M	P	Sambu workers were filling chemical in shotcrete machine with the help of wheel loader by lifting the chemical tank at height. The chemical tank could fall down and crush anybody underneath	UC	Sambu should use hand pump to fill chemical in shotcrete machine or they should place the chemical tank at height and fill chemical by using rubber pipe connected with chemical	Sam	18/Sep/15	Closed	
651	18/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	S/T/F	HAZ	L	P	The stairs leads to joint restaurant are narrow in width so somebody can slip and fall from the those stairs	UC	TTC should increase the width of stairs step to avoid slip and fall hazard	TTC	18/Sep/15	Closed	
652	18/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	VIO	HAZ	L	P	Sambu Supervisors are abusing workers while carrying out tunnel works which may create violence at work	UA	Supervisors should not abuse any worker. They should treat all workers politely	Sam	18/Sep/15	Closed	
653	19/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	A TTC workers was being carried out drilling work on CR-1 without using dust masks and safety goggles. On inhalation dust particles may cause lungs irritation or penetrate into eyes	UA	TTC should provide safety goggles and dust masks to the workers involved in drilling work.	TTC	19/Sep/15	Closed	
654	19/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	PHY	HAZ	L	P	Sambu workers do not wear overall so their casual clothes and skin can burn due to arc produced by welding	UA	All welders should protect their whole body by wearing overall gauntlets welding helmet while carrying out welding work	Sam	19/Sep/15	Closed	
655	19/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FO	HAZ	L	P	TTC workers were working under the slope at CR-1 without wearing safety helmet. There was hazard of falling objects	UA	All workers should wear all PPE especially safety helmet while working under slope	TTC	19/Sep/15	Closed	
656	19/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FO	HAZ	L	P	Some of the dumper helpers do not wear safety helmet. Any stone can hit on the head falling from overloaded dumper which could result in serious head injury	UA	All helpers should wear safety helmet while carrying the material in dumpers	Sam	19/Sep/15	Closed	
657	20/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	MH	HAZ	L	P	TTC workers were lifting concrete bricks without wearing safety gloves the sharp edges of bricks could injure their hands	UA	TTC should provide gloves to all labor working at any site area. Labor should wear safety gloves during manual lifting	TTC	20/Sep/15	Closed	
658	20/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	OTH	HAZ	L	P	Steel nails were fixed in woods after dismantling of formwork which could punctured to anybody's foot	UC	1:Steel nails should be removed from planks after dismantling of formwork.	TTC	20/Sep/15	Closed	
659	20/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	TSPT	HAZ	L	P	TTC dumpers' drivers were driving on the weir access road and CR-1 with excessive speed. The dumper could be off track or hit any person walking on the road	UA	There should be a signalman to control the traffic. The drivers driving in excessive speed should be fined as per violation committed by them against the rule	TTC	20/Sep/15	Closed	
660	20/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	L	P	Sambu workers were using a wooden ladder that was not robust enough to bear the weight of workers climbing on it so somebody could fall down from height due to broking of ladder's rung	UC	Sambu should provide the ladder to the workers with robust rungs.	Sam	20/Sep/15	Closed	
661	21/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FE	HAZ	L	P	Acetylene gas cylinders were lying on ground beside welding area. The cylinder could get fire by welding cutting work in case of leakage of gas	UC	The cylinder should be kept in stands in an order away from naked flames	Sam	21/Sep/15	Closed	

662	21/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	Sambu workers are carrying out drilling work at outlet tunnel portal without wearing ear plugs that could affect their auditory sensation	UA	Sambu should provide ear plugs to the workers involved in drilling work	Sam	21/Sep/15	Closed	
663	28/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	PHY	HAZ	L	P	Sambu workers were carrying out welding work in workshop area without wearing welding helmet and overall posing themselves to radiation hazard	UA	Sambu should provide Safety equipment to the welders Workers should wear all the safety equipment to avoid radiation hazard	Sam	28/Sep/15	Closed	
664	28/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	PHY	HAZ	L	P	Sambu workers do not wear overall so their casual clothes and skin can burn due to arc produced by welding	UA	All welders should protect their whole body by wearing overall gauntlets welding helmet while carrying out welding work	Sam	28/Sep/15	Closed	
665	29/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	ENV	HAZ	L	P	TTC workers were doing maintenance work of excavator beside TBM ground. Rags were scattered around excavator. A layer of leaked oil was observed on stagnant water	UC	There should be proper housekeeping of the area The spilled oil should be collected in dip trays Oil spill kits should be used to avoid soil contamination	TTC	29/Sep/15	Closed	
666	29/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	S/T/F	HAZ	L	P	There are no barricades installed on right side of Cr-1 near bridge so any vehicle can slip from the road and may fall in river	UC	TTC should make a dike along road .	TTC	29/Sep/15	Closed	
667	29/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	CWO	HAZ	L	P	The excavator helper was found inside radius of moving excavator.	UA	The excavator helpers should remain away from the radius of moving excavators	TTC	29/Sep/15	Closed	
668	29/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	OTH	HAZ	L	P	TTC workers, feet were injured due to wearing misfit shoes	UC	TTC should provide shoes fit to size of workers feet	TTC	29/Sep/15	Closed	
669	30/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	OTH	HAZ	L	P	Sambu blasting team did not have wooden hook to remove misfired explosive from charged holes. The steel hooks could initiate the detonators due to static charge in it	UC	Wooden hook should be used to pull out misfired explosive	Sam	30/Sep/15	Closed	
670	30/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	OTH	HAZ	L	P	During charging activity some workers were working under charging car bucket who could hit with bucket when moved down towards bottom	UC	The workers should not work under bucket. There should be some plastic chain fitted with bucket vertically which on touching with the workers working underneath realize him that bucket is coming down and they escape out	Sam	30/Sep/15	Closed	
671	30/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	ENV	HAZ	L	P	Oil spills were observed in TBM ground due to parking and maintenance of heavy equipment by TTC operators which results in contamination of soil	UC	TTC should provide dip trays to the heavy equipment operators. The leaked oil should be collected in dip trays. Oil spill kits should be used to avoid soil contamination	TTC	30/Sep/15	Closed	
672	30/Sep/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	CWO	HAZ	L	P	During drilling activity the air hose opened suddenly from drilling machine due to pressure of compressed air. The air hose could hit anybody in the surrounding and injure him	UC	Sambu should use whipcheck to avoid injury to worker in case of opening of air hose	Sam	30/Sep/15	Closed	
673	01/Oct/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	ENV	HAZ	L	P	Sambu workers after smoking are throwing cigarette butts on site area, spreading waste on site	UA	Cigarette butts should be discarded in the stands provided at site Workers should smoke in designated smoking area	Sam	01/Sep/15	Closed	
674	01/Oct/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	CWO	HAZ	L	P	During mucking of material some workers stand behind wheel loader which can hit them while reversing	UA	Workers should stand away at a safe distance from wheel loader there should be a helper with wheel loader for signaling	Sam	01/Sep/15	Closed	
675	01/Oct/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	There is no washroom for the workers working at outlet tunnel portal area. Workers are using open area for urinating which is a source of ill-smell in surrounding area	UC	Sambu should construct washroom for workers working on outlet tunnel portal area	Sam	01/Sep/15	Closed	
676	01/Oct/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	S/T/F	HAZ	L	P	There is no washroom for the workers working at outlet tunnel portal area. Workers are going in slope area for urinating, so somebody can slip trip or fall while crossing hilly area	UC	Sambu should construct washroom for workers working on outlet tunnel portal area	Sam	01/Oct/15	Closed	
677	02/Oct/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	After blasting shot firer check the blasted face without settling smoke and dust which may cause lungs irritation	UA	The shot fires should wait for five minutes to inspect the blasted face so that the dust and smoke settled down in five minutes	Sam	02/Oct/15	Closed	
678	02/Oct/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FO	HAZ	M	P	During Mapping activity fall of loose material was observed on tunnel face due to improper scaling	UC	Sambu should carry out scaling with breaker instead of jumbo drilling machine which can not carry out scaling properly	Sam	02/Oct/15	Closed	
679	02/Oct/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	TSPT	HAZ	M	P	Sambu dump truck was about to hit a person while reversing on outlet tunnel portal because of unavailability of signal man	UA	There must be signalman with the reversing vehicle to signal the about the situation behind	Sam	02/Oct/15	Closed	
680	02/Oct/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	S/T/F	HAZ	L	P	Sambu workers were climbing on slope area to place compressor pipe without using ladder. The worker could slip and fall from slope	UA	Sambu should provide ladder to the workers working on slopes	Sam	02/Oct/15	Closed	

681	03/Oct/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FE	HAZ	L	P	Sambu welders were welding in workshop area by wearing reflector jackets on casual cloths. The reflector jackets could burn due to welding cutting flame	UA	Welders should not use reflector jackets while welding work Welders and helpers should use overall to avoid fire and radiation hazard	Sam	03/Oct/15	Closed
682	03/Oct/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	PHY	HAZ	L	P	During welding and cutting activity at outlet tunnel portal the welding helper was standing near the flames produced by cutting of equipment in half sleeve shirt. The flame containing molten metal can cause severe burn	UA	The welders and helpers should cover all of their body by wearing overall and mandatory PPE for welding	Sam	03/Oct/15	Closed
683	03/Oct/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	M	P	TTC workers were carrying out plaster work standing on single steel pie without using proper platform the workers could fall from hight and injure	UA	There should be proper platform with handrails and planks to carry out work at height. TTC supervisors should make sure the provision of safety harnesses for the workers working at height	TTC	03/Oct/15	Closed
684	03/Oct/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	OTH	HAZ	L	P	TTC dumper drivers and helpers were working in slippers at wear access road that might cause foot injury due to presence of sharp objects on the road	UA	Dumper drivers and helpers should wear safety shoes to avoid injuries TTC should provide safety shoes to dumper drivers	TTC	03/Oct/15	Closed
685	04/Oct/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	TTC workers were carrying out drilling work without wearing dust masks, the dust ejecting out could cause lungs irritation	UA	TTC should provide all PPE to drilling team	TTC	04/Oct/15	Closed
686	04/Oct/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FO	HAZ	L	P	Stones are lying on all slope area of weir access road which could hit any person passing on the road towards access bridge	UC	Construction department should remove the loose material from slope and stones from slope area	TTC	04/Oct/15	Closed
687	04/Oct/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	Sambu workers are not using safety goggles during grouting activity. Pressure grout can penetrate into eyes of workers	UA	All workers should wear safety goggles during grouting activity	Sam	04/Oct/15	Closed
688	04/Oct/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FO	HAZ	L	P	TTC workers were found without safety helmets under slope area where there is a hazard of falling objects	UA	TTC should provide safety helmets and shoes to all workers All workers should wear safety helmet and shoes	TTC	04/Oct/15	Closed
689	05/Oct/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FE	HAZ	M	P	OE representative was taking picture of tunnel face when sabmu shortfirer took electric detonator to insert in the last connection of wires of non-electric detonators. The spark could initiate the detonators	UA	Nobody is allowed to take picture while charging activity. The topic should be discussed in tool box talks	Sam	05/Oct/15	Closed
690	05/Oct/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	CWM	HAZ	L	P	During charging activity some workers were working under charging car bucket who could hit with bucket when moved down towards bottom because the workers working in the bucket were operating the bucket swiftly	UC	workers should operate the bucket at a slow speed and should see beneath that either wrkers are working underneath or not.	Sam	05/Oct/15	Closed
691	05/Oct/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	There is dirt inside and outside of water cooler which contain germs and drinking water become unhygienic,	UC	There is need to clean the water carrier/ cooler	Sam	05/Oct/15	Closed
692	05/Oct/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	ENV	HAZ	L	P	waste was lying on site area on river bank which may pollute river water	UC	Sambu should place waste bins on tunnel,s site to collect all the waste. Housekeeping should be done by Sambu workers	Sam	05/Oct/15	Closed
693	06/Oct/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	S/T/F	HAZ	L	P	Sambu workers were installing rock bolts on outlet tunnel portal standing on wire mesh on bottom of slope. The workers could fall down by slipping or tripping from wire mesh pieces	UA	Sambu should provide proper platform to install rock bolts. Foreman and Supervisors should instruct workers to carry out work safely	Sam	06/Oct/15	Closed
694	06/Oct/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FO	HAZ	L	P	Boulders were falling down from the loaded dumper on Cr-1 which could hit anybody walking on the road.	UC	Sambu should install the backdoors of dumpers The overloading of dumpers must be avoided	Sam	06/Oct/15	Closed
695	06/Oct/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	CWO	HAZ	L	P	During shotcrete activity air hose ends are connected with wires which can burst open and hit anybody in the vicinity causing injury to personal	UC	The wires should be removed and the ends of air house should be connected with steel clamps using whipcheck	Sam	06/Oct/15	Closed
696	06/Oct/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	There is stagnated contaminated water inside washrooms of block-M creating ill smell in the surrounding and other health hazards	UC	TTC should clean all the washrooms Drains pipes should be repaired to drain out water There should be a sweeper on duty to clean washrooms properly	TTC	06/Oct/15	Closed
697	07/Oct/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	ENV	HAZ	L	P	Daelim TM driver was cleaning TM after shotcrete in front of tunnels. The waste water could entered in the river contaminating it	UA	1. Drivers should not clean their vehicles in that area. 2. Warning should be given to the driver involved in unsafe act	TTC	07/Oct/15	Closed
698	07/Oct/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FO	HAZ	L	P	During blasting due to vibration loose material is falling down on the ground from slope area that could hit anybody under the slope	UC	Personnel should stand away from slope area during blasting	TTC	07/Oct/15	Closed

699	07/Oct/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	Some Sambu workers entered in tunnel without wearing masks, the suspended particles get entered in lungs and caused irritation	UA	All personnel should wear respirator/masks while working in tunnels	Sam	07/Oct/15	Closed	
700	07/Oct/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	ENV	HAZ	L	P	Waste and oil spillage is observed on ridge top	UC	TTC personnel should collect the waste and spilled soil from ridge area	TTC	07/Oct/15	Closed	
701	08/Oct/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	Dust is spreading on the roads due to movement of heavy equipments and light vehicles causing irritations including throat lungs and nasal cavities	UC	Sambu should sprinkle water over the roads to control dust emission	Sam	08/Oct/15	Closed	
702	08/Oct/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FO	HAZ	L	P	Rock fall was observed in tunnel. The people underneath could be crushed by falling rock.	UC	Workers should stand away from face area during mucking and scalling activity to avoid fall hazard	Sam	08/Oct/15	Closed	
703	08/Oct/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	Sambu workers are not using safety goggles during grouting activity. Pressure grout can penetrate into eyes of workers	UA	Workers should use safety goggles to avoid eye irritation.	TTC	08/Oct/15	Closed	
704	08/Oct/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	TTC workers were carrying out drilling work without wearing dust masks, the dust ejecting out could cause lungs irritation	UC	TTC should provide dust masks to the workers Supervisors should instruct workers to wear all PPE with respect to their work	TTC	08/Oct/15	Closed	
705	09/Oct/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FO	HAZ	M	P	Cracks were found inside the tunnel II. The loose rock could over break. Loose rock may fall down & damage property & personnel.	UC	Sambu workers at tunnels are required to stay away at safe distance from the overhead cracks for the loose rock may fall down.	Sam	09/Oct/15	Closed	
706	09/Oct/15	Pakistan	Daelim	EHS	EHS	Mmuhammad Anees (HSE Engineer)	AD	HAZ	M	P	Two of the personnel doing concrete for the foundation of the bridge over the river had not worn life jackets. He could fall & drown in the river.	UC	TTC personnel working nearby river should strictly wear life jackets.	TTC	09/Oct/15	Closed	
707	10/Oct/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FFH	HAZ	L	P	A small trench that has been made for sedimentation purpose is uncovered from the top. Personnel could fall into the trench.	UC	Sambu HSE reps should barricade the trench if the surface can't be covered early.	Sam	10/Oct/15	Closed	
708	10/Oct/15	Pakistan	Daelim	EHS	EHS	Mmuhammad Anees (HSE Engineer)	MH	HAZ	L	P	The Daelim support staff personnel were handling the weighty cartons of colour with improper way, using their back muscles.	UA	The personnel were instructed to lift such heavy loads using the muscles of their legs & never try to carry more than 25 kg weight alone.	OTH	10/Oct/15	Closed	
709	10/Oct/15	Pakistan	Daelim	EHS	EHS	Mmuhammad Anees (HSE Engineer)	ENV	HAZ	L	P	TTC personnel transporting diesel fuel to the machinery spelt some oil on the weir access road & polluted the soil.	UA	Such oil spillages should strictly be cleaned using spill kits.	TTC	10/Oct/15	Closed	
710	11/Oct/15	Pakistan	Daelim	EHS	EHS	Mmuhammad Anees (HSE Engineer)	FO	HAZ	M	P	Large sized boulders were seen lying at the edge of weir access road. They could fall over the road below.	UC	Such boulders should be removed from the point as soon as possible & next time such boulders should never be stacked at the edge of the road.	TTC	11/Oct/15	Closed	
711	11/Oct/15	Pakistan	Daelim	EHS	EHS	Mmuhammad Anees (HSE Engineer)	TSPT	HAZ	M	P	On CR2, excavator helper was not actively managing the safe movement of excavator which could have hit the vehicle passing by.	UA	The excavator helper should actively supervise the movement of excavator so that the vehicles passing by should safely move.	TTC	11/Oct/15	Closed	
712	11/Oct/15	Pakistan	Daelim	EHS	EHS	Sahibzada Tanzeel (EHS manager)	OTH	HAZ	M	P	Area was not properly cleared at the time of blast at tunnel 2. Vehicles & machinery were inside the 100 m radius.	UC	At least 100 m distance should be cleared while blasting.	Sam	11/Oct/15	Closed	
713	11/Oct/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	PHY	HAZ	L	P	Compressor operational at tunnels portal produces severe noise probably because of poor maintenance.	UC	Compressor should be checked for wear & tear & the heavy noise problem should be rectified.	Sam	11/Oct/15	Closed	
714	12/Oct/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	FO	HAZ	M	P	There was hazard of rockfall (over break) in tunnel II because cracks were seen. The rock could fall on any person	UC	Supervisors should monitor the rock fall continuously. The area should be barricaded properly to stop the entry of workers	Sam	12/Oct/15	Closed	
715	12/Oct/15	Pakistan	Daelim	EHS	EHS	Mmuhammad Anees (HSE Engineer)	ENV	HAZ	L	P	Small amount of oil has been spelt at weir access road	UA	Oil should never be spelt on soil & it should be cleaned urgently.	TTC	12/Oct/15	Closed	
716	12/Oct/15	Pakistan	Daelim	EHS	EHS	Mmuhammad Anees (HSE Engineer)	S/T/F	HAZ	L	P	Too much water was sprinkled on the road & there could have been a slip.	UA	Pedestrians should be careful about the hazard & next time optimum amount of water should be sprinkled.	TTC	12/Oct/15	Closed	

717	13/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	ANM	HAZ	L	P	A scorpion was found live in the Joint Venture office.	UC	The scorpion is poisonous so it should be killed or caught & all the access point for the scorpions should be blocked if possible.	OTH	13/Oct/15	Closed
718	13/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	FFH	HAZ	M	P	Workers from third party were erecting the hall structure and were working at height without using safety harness.	UA	Work above 2 m is declared as work at height & should be done with proper protocols.	OTH	13/Oct/15	Closed
719	13/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	FFH	HAZ	M	P	Sedimentation tank under the ground should be properly barricaded.	UC	Some barricades around tanks and generator area should be installed & area should be segregated and enclosed.	Sam	13/Oct/15	Closed
720	14/Oct/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	HEA	HAZ	L	P	Personnel of Sambu do not strictly use the respirators while entering the tunnel.	UA	There can be hazardous gases inside the tunnel, so proper respirators must be worn before entering the tunnel.	Sam	14/Oct/15	Closed
721	14/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	S/T/F	HAZ	L	P	The road CR1 is slippery due to rainfall last night. There is a hazard of slip & fall.	UC	Special care should be taken at the road in order to avoid any slip or trip.	Sam	14/Oct/15	Closed
722	14/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	FO	HAZ	L	P	There had been a hazard of land slide at CR1. Personnel should be careful &	UC	Red flags should be shown at dangerous areas & watch man is recommended to identify & warn of the land slide.	Sam	14/Oct/15	Closed
723	16/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	ENV	HAZ	L	P	At the ridge point designated for the power house one of the workers was smoking at undesignated point & throwing the ash & buds on the ground.	UA	The personnel was instructed to smoke only at the designated points & never throw the ash & buds on the ground.	TTC	16/Oct/15	Closed
724	16/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	TSPT	HAZ	M	P	One of the vehicle (Fortuner) of the Owner's Engineer was over speeding at site area. The vehicle could have hit the personnel walking by.	UA	Safe speed limits at the site should strictly be followed in order to avoid any accident.	TTC	16/Oct/15	Closed
725	16/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	ENV	HAZ	L	P	At ridge point there had been oil spills around in the oil storage area.	UA	Oil should never be spelt on soil & it should be cleaned urgently.	TTC	16/Oct/15	Closed
726	16/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	OTH	HAZ	M	P	Condition of Block G was very unhygienic. The dirty floor & toilets can be highly hazardous to health of the inhabitants.	UC	Needed to be cleaned urgently & proper schedule should be set to keep the residence clean & tidy.	OTH	16/Oct/15	Closed
727	17/Oct/15	Pakistan	Daelim	EHS	EHS	Asif Nawaz (HSE Officer)	OTH	HAZ	M	P	At night time there was poor lighting when concrete work was in progress at the newly constructed bridge.	UC	Proper lighting should be managed at the work site for it can be hazardous in darkness.	TTC	17/Oct/15	Closed
728	17/Oct/15	Pakistan	Daelim	EHS	EHS	Asif Nawaz (HSE Officer)	TSPT	HAZ	M	P	The Truck Mixer was being parked on the metallic bridge which was not strong enough.	UA	The heavy Truck Mixer should not put its static weight on the bridge for it can exceed the allowable limit of load on the bridge.	OTH	17/Oct/15	Closed
729	17/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	FO	HAZ	L	P	At weir access road there were boulders lying on the edge of the road. That could fell down on the road beneath.	UC	The boulders should quickly be removed from the location.	TTC	17/Oct/15	Closed
730	17/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	HB	HAZ	L	P	A number of personnel behaved rude with one of the HSE officer.	UA	Personnel should behave in a professional manner.	TTC	17/Oct/15	Closed
731	18/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	EL	HAZ	M	P	Personnel was using worn out electrical wire for grinder during hot work.	UA	Wire with proper insulation should be used for such purpose.	TTC	18/Oct/15	Closed
732	18/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	ENV	HAZ	L	P	Significant amount of oil spills were noticed on the ridge point.	UA	Oil should never be spelt on the ground & oil spill kits should strictly be used.	TTC	18/Oct/15	Closed
733	18/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	AD	HAZ	M	P	Personnel visiting the new bridge were noticed without wearing the life jackets.	UA	Life jackets should be worn while working or visiting the river side.	TTC	18/Oct/15	Closed
734	19/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	S/T/F	HAZ	L	P	There was a hazard of slip & trip on CR1 after it had rained in night.	UC	Care should be taken while moving on the road. The vehicles & personnel should beware of the hazard for as long as the condition is unfavourable.	Sam	19/Oct/15	Closed
735	19/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	FO	HAZ	M	P	There was a hazard of land sliding on the CR1. Any vehicle or personnel could	UC	The road should not be used for as long as the hazard is there. Red flags should be displayed throughout the road on sensitive areas & a watch man should be deployed there who will indicate, report & warn of any land slide if there.	Sam	19/Oct/15	Closed

736	19/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	S/T/F	HAZ	L	P	Due to rain fall, the CR1 is prone to the hazards of slips. Trips & fall.	UC	Care should be taken while moving on the road. The dumpers & personnel should beware of the hazard for as long as the condition is unfavourable.	TTC	19/Oct/15	Closed
737	20/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	TSPT	HAZ	M	P	One of the dumpers was over speeding on the main access road. It could have hit personel or property.	UA	No vehicle should over speed to cross the allowed maximum speed limit.	TTC	20/Oct/15	Closed
738	20/Oct/15	Pakistan	Daelim	EHS	EHS	Farhad Awais Ali (Mining Engineer)	S/T/F	HAZ	L	P	Diesel oil spills on the way towards ridge point had made the way slippery.	UC	Such spills should be cleaned urgently to make the way free of any slip/trip or fall.	TTC	20/Oct/15	Closed
739	20/Oct/15	Pakistan	Daelim	EHS	EHS	Farhad Awais Ali (Mining Engineer)	ENV	HAZ	L	P	Diesel oil spills on the way towards ridge point has contaminated the soil & polluted the environment.	UC	1. Such oilspills should be cleaned urgently. 2. Containers with leakages should be replaced with new ones. 3. Personnel should be trained on conservation of environment.	TTC	20/Oct/15	Closed
740	20/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	ANM	HAZ	L	P	Community goats that penetrated into the project area were onn danger due to their position at height on the slope above the weir access road.	UC	Animals should never be allowed penetrate into the project area.	OTH	20/Oct/15	Closed
741	21/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	TSPT	HAZ	M	P	A dumper was over speeding on the main access road.	UA	Site max speed limits should be followed & over speeding should never be done at site. The driver should be trained.	TTC	21/Oct/15	Closed
742	21/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	PHY	HAZ	M	P	The operator of jack hammer was drilling at night while there was no lighting at the area.	UC	Sifficient lighting should be provided in the work area. Woeking	TTC	21/Oct/15	Closed
743	21/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	HB	HAZ	L	P	A worker behaved rudely with the sub-contractor HSE rep.	UA	Workers should behave in a professional way. They should abide by the HSE rules.	TTC	21/Oct/15	Closed
744	22/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	TSPT	HAZ	M	P	A vehicle was over speeding on the main access road & CR1.	UA	All drivers should follow the safe driving procedures & should never drive exceeding the allowable safe speed limit at site.	OTH	22/Oct/15	Closed
745	22/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	HB	HAZ	L	P	A vehicle driver behaved non-professionally with the HSE staff when he was warned on over speeding.	UA	Drivers should behave in a professional way. They should abide by the HSE rules regarding safe driving.	OTH	22/Oct/15	Closed
746	22/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	FO	HAZ	L	P	There were stones lying at the edge of the way over the box culvert while personnel were working right below the loose stones area.	UC	The loose stones should be removed from the point & the area should be barricaded urgently. Personnel must wear helmet while working.	TTC	22/Oct/15	Closed
747	22/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	CWO	HAZ	L	P	The excavator moving down on the weir access road was about to hit the water cooler placed at the side of the road.	UA	The excavator operator should de careful while moving about & should focus on the road.	TTC	22/Oct/15	Closed
748	23/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	ANM	HAZ	L	P	A cow was seen moving all over the mainn access road disturbing the traffic.	UC	Animals should strictly be prevented to penetrate & enter into the site area.	OTH	23/Oct/15	Closed
749	23/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	HEA	HAZ	L	P	There was stagnant water behind the restaurant. It can help to breed mosquitoes in.	UC	The water should be drained from the area & the area should be filled with soil.	TTC	23/Oct/15	Closed
750	24/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	CWM	HAZ	L	P	The bucket of the Charging car at tunnel 1 just missed the worker while movement.	UA	The operator should move the bucket safely keeping in view all the personnelworking there.	Sam	24/Oct/15	Closed
751	24/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	PHY	HAZ	L	P	There was dim lighting inside the tunnel 1 while personnel were working inside.	UC	Sufficient lighting should be provided inside dark areas at tunnels.	Sam	24/Oct/15	Closed
752	24/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	CWO	HAZ	L	P	One of the personnel inside tunnel threw the wire cutter & another caught it with naked hands.	UA	No tool should be thrown from height. For handling tools, wearing gloves are mandatory in order to avoid any hand injury.	Sam	24/Oct/15	Closed
753	24/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	HB	HAZ	L	P	The construction manager of Sambu behaved non-professionally with the HSE rep of the company, while he was clearing the area for carrying out safe blasting.	UA	The management should behave professionally & should become a role model for others in following & respecting the safety protocols. The management should be guided with counselling.	Sam	24/Oct/15	Closed

754	25/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	S/T/F	HAZ	L	P	The road CR1 is slippery due to rainfall since last night. There is a hazard of slip & fall.	UC	Movement through the road should not be encouraged as there is a hazard of slip, trip & fall.	Sam	25/Oct/15	Closed	
755	25/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	FO	HAZ	L	P	There is a hazard of land slide throughout the entire CR1 road.	UC	Care should be taken while moving throughout the road in order to avoid any incident due to land slide.	Sam	25/Oct/15	Closed	
756	25/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	S/T/F	HAZ	L	P	The main access road is slippery due to rainfall since last night. There is a hazard of slip & fall.	UC	Movement through the road should be procrastinated if possible, as there is a hazard of slip, trip & fall.	TTC	25/Oct/15	Closed	
757	25/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	TSPT	HAZ	L	P	Due to the rain fall since last night, all the roads have become soft & slippery. The moving vehicles often slip & turn, so the transportation is unsafe due to such unpleasant condition.	UC	Movement of vehicles should be avoided as much as possible & if the way is too soft to be followed, movement should be restricted.	TTC	25/Oct/15	Closed	
758	26/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	S/T/F	HAZ	L	P	After two days of rain, the roads were wet all around which could cause personnel & vehicles to slip, trip or fall.	UC	Personnel & vehicle drivers should be careful while moving throughout the road for as long as the hazard is there.	Sam	26/Oct/15	Closed	
759	26/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	HEA	HAZ	L	P	The residences were not cleaned properly. There was unhygienic condition inside the camps.	UC	The residence floors & wash rooms should be cleaned on daily basis with recommended detergents.	OTH	26/Oct/15	Closed	
760	26/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	TSPT	HAZ	L	P	A concrete truck mixer slipped a little when it was being moved up from the tunnels, due to the slippery road.	UC	The concrete truck mixer should not be moved for as long as the road is slippery. There could be a hazard	OTH	26/Oct/15	Closed	
761	27/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	ANM	HAZ	L	P	Community cows had penetrated into the site & were on danger due to the live machinery working at site.	UC	Animals should never be allowed penetrate into the project area.	OTH	27/Oct/15	Closed	
762	27/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	MH	HAZ	L	P	Personnel were handling heavy stones manually to fill in the foundation near drainage trench.	UA	Heavy load should never be lifted manually. Any lifting machinery should be used or the load should be shared by two or more personnel.	TTC	27/Oct/15	Closed	
763	27/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	HEA	HAZ	L	P	Stagnant water behind the L Block could contribute breeding of flies and mosquitos	UC	The stagnant water should be cleaned urgently or soil should be filled in the area.	TTC	27/Oct/15	Closed	
764	28/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	ENV	HAZ	L	P	Minor oil spills were observed on the weir access road.	UA	Oil should never be spelt on the ground & oil spill kits should strictly be used for cleaning of spills.	TTC	28/Oct/15	Closed	
765	28/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	PHY	HAZ	L	P	An excavator operator was repairing the excavator with naked hands.	UA	Gloves must be worn while working with repairing tools.	TTC	28/Oct/15	Closed	
766	28/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	PHY	HAZ	L	P	Some of the personnel working inside tunnel 2 were not wearing respirators.	UA	Respirators must be worn to avoid inhalation of any toxic gas inside tunnels.	Sam	28/Oct/15	Closed	
767	29/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	HEA	HAZ	L	P	Personnel were plucking green fruits from a tree & were eating which was not good for health.	UA	Eating green fruits could cause cholera & other health problems. So such fruits should not be eaten.	TTC	29/Oct/15	Closed	
768	29/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	ENV	HAZ	L	P	Minor oil spills were observed on the main access road. The oil was spelt while diesel filling in vehicles.	UA	Environment must be considered before doing such act & proper oil spill kits should be used in order to collect any spelt oil.	TTC	29/Oct/15	Closed	
769	29/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	EL	HAZ	L	P	Personnel working with electrical wires were in danger of electrocution for they were not wearing insulated gloves for electrical work.	UA	Personnel working with electrical wires should wear gloves recommended for electric work.	OTH	29/Oct/15	Closed	
770	29/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	OTH	HAZ	L	P	There was poor house keeping observed at tunnel portals & the tools were lying scattered on the ground.	UC	The work site should be properly housekept & tools should be stacked properly at designated places.	Sam	29/Oct/15	Closed	
771	30/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	FFH	HAZ	L	P	Personnel working to fix shattering for concrete at box culvert were working at height without wearing safety harness	UA	For working at height more than 2 meters, three points contact is necessary. Safety harness must be worn.	TTC	30/Oct/15	Closed	
772	30/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	TSPT	HAZ	L	P	The main access road behind the Block G & L was too slippery due to mud & stagnant water. There could be a slip or accident.	UC	Access roads should be clear from any slippery material or stagnant water	TTC	30/Oct/15	Closed	

773	30/Oct/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	S/T/F	HAZ	L	P	Water on the floor of the tunnels has made the way slippery with sludge & clay. In such case movement across the length of tunnel is risky & the shot firer can face hindrance while escaping outside.	UC	Water should be drained out of the tunnels to make the way clear & safe.	Sam	30/Oct/15	Closed
774	31/Oct/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr	S/T/F	HAZ	L	p	Sambu workers were installing rock bolts on outlet tunnel portal standing on wire mesh on bottom of slope. The workers could fall down by slipping or tripping from wire	UA	Sambu should provide proper platform to install rock bolts. Foreman and Supervisors should instruct	Sam	31/Oct/15	Closed
775	01/Nov/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr	FO	HAZ	M	p	Fall of loose material was observed during charging activity	UC	Sambu should carry out scalling with breaker before charging activity	Sam	01/Nov/15	Closed
776	01/Nov/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr	FO	HAZ	H	P	Pir and Co dumper truck over turned on the road due to loose material	UC	The loose material should be compacted to avoid such incidents A training session should be conducted on	OTH	01/Nov/15	Closed
777	02/Nov/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr	FO	HAZ	L	P	At weir access road there were boulders lying on the edge of the road. That could fall down on the road beneath.	UC	The boulders should quickly be removed from the location.	TTC	02/Nov/15	Closed
778	02/Nov/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr	MH	HAZ	L	P	Sambu workers are lifting the material manually that is uneasy to grasp due its volume and weight and can cause back pain or foot injury when fall	UA	Supervisors should instruct the labor about manual handling techniques. The topic should be discussed in tool box	Sam	02/Nov/15	Closed
779	02/Nov/15	Pakistan	Daelim	EHS	EHS	M. Saboor Khan EHS Engr.	ENV	HAZ	L	P	Sambu workers after smoking are throwing cigarette butts on site area, spreading waste on site	UA	Cigarette butts should be discarded in the stands provided at site Workers should smoke in designated smoking area	Sam	02/Nov/15	Closed
780	03/Nov/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar	OTH	HAZ	L	P	On CR 2, three mechanics were repairing machine without using PPE due to which they could be injured by the shrp machinery parts	UA	HSE inspector and their senior management was being informed and instructed about PPE provision and use	TTC	03/Nov/15	Closed
781	03/Nov/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar	S/T/F	HAZ	L	P	On dumping area, some drivers were sitting on loose material and they could fell from there.	UC	Workers were forbidden to sit on loose material.	TTC	03/Nov/15	Closed
782	03/Nov/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar	FFH	HAZ	L	P	On Main access road, excavation was being done but there was no barricadion on sides and anyone could fell from there.	UA	Safety cons were been placed near trenches and supervisor was being instructed.	TTC	03/Nov/15	Closed
783	04/Nov/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar	S/T/F	HAZ	L	P	During rain, the mud was observed to be present all around which could cause personnel to slip, causing multiple injuries	UC	The mud should be cleared or Backfilled with solid material. The topic to be discussed in the Daily toolbox to avoid future incidents because of such hazards	TTC	04/Nov/15	Closed
784	04/Nov/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar	S/T/F	HAZ	L	P	After land sliding on CR-1 some people want to cross the road. There was possibility of falling material which could injure anybody passing through that area	UC	1: Barricadion of the area must be done 2: Prohibition to personnel passing through that area	TTC	04/Nov/15	Closed
785	04/Nov/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar	S/T/F	HAZ	L	P	At CR1and CR-2 there is sliding due to rain so any worker can be injured because of that and equipment can also be damaged.	UC	There should be prohibition of personnel passing through that area during rain The machinery should be parked in a safe area.	TTC	04/Nov/15	Closed
786	05/Nov/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar	OTH	HAZ	L	P	Some workers were smoking on site area that was not designated for smoking	UA	Workers were forbidden from smoking in open area and were sent to smoking zone for smoking.	TTC	05/Nov/15	Closed
787	05/Nov/15	Pakistan	Daelim	EHS	EHS	rohail Asghar	PHY	HAZ	M	P	TTC workers do not wear overall so their casual clothes and skin can burn due to arc produced by welding	UA	All welders should protect their whole body by wearing overall gauntlets welding helmet while carrying out welding work	TTC	05/Nov/15	Closed
788	06/Nov/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar	PHY	HAZ	L	P	Kitchen waste is lying on backside of kitchen that is a source of spread of mosquitos and other insects.	UC	Kitchen waste should be disposed by making a trench in disposal area.	OTH	06/Nov/15	Closed
789	06/Nov/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar	OTH	HAZ	L	P	Some workers were smoking on site area which was not designated for smoking	UA	Workers were forbidden from smoking in open area and were sent to smoking zone for smoking.	OTH	06/Nov/15	Closed
790	07/Nov/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	S/T/F	HAZ	L	P	The main access road had become slippery for the pedestrians & vehicles passing by.	UC	Water from the well should not be directed towards the access road. Raw water should be properly drained.	OTH	07/Nov/15	Closed

791	07/Nov/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	TSPT	HAZ	L	P	Dumpers parked in the way on the main access road had left very narrowway for the passage of other vehicles.	UC	All vehicles should be parked at a safe distance from the main access road so that the way is not blocked for the passage of other vehicles.	TTC	07/Nov/15	Open
792	08/Nov/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	FO	HAZ	L	P	There were loose boulders lying on the ridge point while work was in progress at CR2 beneath.	UC	Loose boulders & rocks should be removed from the dangerous location urgently.	TTC	08/Nov/15	Closed
793	08/Nov/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	S/T/F	HAZ	L	P	Inside tunnel 2, there was mud with stagnant water & the passage was very slippery for the workers.	UC	Water should be properly drained out of the tunnels's floor so that movement of personnel & machinery should not be restricted.	Sam	08/Nov/15	Closed
794	08/Nov/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	ENV	HAZ	L	P	A dozer working on the maintenance road was throwing the excavated material down into the river making the water polluted with soil.	UA	Excavated material should not be thrown into the river for it pollutes the water. The personnel should be trained about environment conservation.	TTC	08/Nov/15	Open
795	09/Nov/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	ENV	HAZ	L	P	Oil drums near Sambu workshop had significant oil spill on the ground around.	UC	The spills should be cleaned as soon as possible & oilspill kits should be used.	Sam	09/Nov/15	Closed
796	09/Nov/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	S/T/F	HAZ	L	P	The main access road has become slippery after rain fall in night.	UC	Care should be taken while moving around on the access roads. The mixer truck should not follow the CR1.	OTH	09/Nov/15	Closed
797	09/Nov/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	PHY	HAZ	L	P	A fire extinguisher near the security room was found expired & out of service.	UC	Expired & outdated fire extinguishers should be replaced with a new one.	OTH	09/Nov/15	Closed
798	10/Nov/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	HB	HAZ	L	P	Helper with the jack hammer showed non-professional behaviour when the HSE Officer instructed about PPE.	UA	Professional behaviour should be adopted by all the personnel at site.	TTC	10/Nov/15	Closed
799	10/Nov/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	FO	HAZ	M	P	There was loose material after blast at CR5, which could fall down & hit personnel or machinery on CR2.	UC	Such boulders should be removed from the point as soon as possible so that work at CR2 can be safe from the hazard of falling objects.	TTC	10/Nov/15	Closed
800	10/Nov/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	S/T/F	HAZ	L	P	The way towards ridge point has become slippery for the personnel, due to rainfall.	UC	Care should be taken while following the way towards ridge point.	Sam	10/Nov/15	Closed
801	11/Nov/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	ENV	HAZ	L	P	Minor oil spills were observed on the main access road near M block.	UC	Oil should never be spelt onn the ground & proper Oil spill kits should be used during oil change.	TTC	11/Nov/15	Closed
802	11/Nov/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	CWO	HAZ	L	P	Metallic columns erected for constructing workshop at batching plant had a hazard of collision of personnel with object been moved.	UC	Sufficient distance should be maintained from the metallic structures & the area should be barricaded.	OTH	11/Nov/15	Closed
803	11/Nov/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	EL	HAZ	L	P	The camp assistant while cleaning the floor of Block L, got electrocuted by the faulty geyser.	UC	RLCB should be installed at all the equipment at GHPP.	OTH	11/Nov/15	In P
804	12/Nov/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	AD	HAZ	L	P	Personnel of the blasting team got near the river while they were not wearing life jackets.	UA	Personnel should remain away from the the river to avoid drowning.	OTH	12/Nov/15	Closed
805	12/Nov/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	OTH	HAZ	L	P	Personnel were smoking at site in undesignated areas.	UA	Personnel should never smoke at site. Only designated smoking points should be used for the purpose.	TTC	12/Nov/15	Closed
806	12/Nov/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	TSPT	HAZ	L	P	A dumper dumping the excavated material tipover due to dumping on the loose ground.	UA	Dumper drivers should be trained with safe dumping.	OTH	12/Nov/15	Closed
807	13/Nov/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	TSPT	HAZ	L	P	A dumper dumping the excavated material slipped a little on the way near the spoil tip C.	UC	Dumper should carefully be driven on the road towards the spoil tip C.	Sam	13/Nov/15	Closed
808	13/Nov/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	CWM	HAZ	L	P	One of the crawl operators got his hand injured with the crawl machine.	UA	All machines should be handled with care & gloves must be worn while performing maintenance of machines.	TTC	13/Nov/15	Closed
809	13/Nov/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	MH	HAZ	L	P	One of the labour working at workshop manually lifted a heavy part of machinery. He hurted his palm for he had not worn tough gloves.	UA	Safety gloves must be worn as per the nature of work & load exceeding 25 kg must not be lifted manually by a single person.	TTC	13/Nov/15	Closed

810	14/Nov/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	FO	HAZ	L	P	Loose boulders were found on the edge at the ridge point while work was in progress right under them.	UC	Such boulders should be removed & the area should be cleared of the hazard.	TTC	30/Nov/15	Open	
811	14/Nov/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	ENV	HAZ	L	P	Diesel oil spills on the ridge point has contaminated the soil & polluted the environment.	UA	1. Such oilspills should be cleaned urgently. 2. Containers with leakages should be replaced with new ones. 3. Personnel should be trained on conservation of environment.	TTC	14/Nov/15	Closed	
812	14/Nov/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	ANM	HAZ	L	P	Community animals were moving on the main access road while traffic was there.	UC	Animals should never be allowed penetrate into the project area.	OTH	14/Nov/15	Closed	
813	15/Nov/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	EL	HAZ	M	P	Electrical wires were found in poor condition near the metallic I-beams.	UC	All electrical wires should be of good qualitywith circuit breakers are highly recommended.	TTC	15/Nov/15	Closed	
814	15/Nov/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	AD	HAZ	L	P	Personnel of subcontractors were seen working on the newly constructed bridge at CR-II where there was a hazard of drowning.	UA	Personnel should not get into the river & they should wear life jackets while working at the bank of the river.	TTC	15/Nov/15	Closed	
815	15/Nov/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	HEA	HAZ	L	P	The concentration of toxic gases was significantly high inside tunnel-II. Exposure to such gases can have some acute as well as chronic ill health effects.	UC	1. Respiratory protective equipment must be used while going into tunnels. 2. Proper ventilation should be provided.	Sam	15/Nov/15	Closed	
816	15/Nov/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	ENV	HAZ	L	P	Community people were fishing in the river upstream to the work area of the project.	UA	1. Fishing is not allowed in the river as per the directions of HSE EPCC& Environmental Protection Agency. 2. Community people should be informed about the significance of National Park.	OTH	15/Nov/15	Closed	
817	16/Nov/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	MH	HAZ	L	P	Personnel were manually lifting heavy parts of machinery at the workshop.	UA	Heavy load should never be lifted manually. Any lifting machinery should be used or the load should be shared by two or more personnel.	TTC	16/Nov/15	Closed	
818	16/Nov/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	HEA	HAZ	L	P	Leakage was observed from one of the welding cylinders at the workshop near batching plant.	UC	All gas cylinders at GHPP should be checked for leakage & old/worn out cylinders should be replaced with new ones.	TTC	16/Nov/15	Closed	
819	16/Nov/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	EL	HAZ	L	P	Personnel of sub-contractor were seen using electrical wire with lots of joints & junctions. The wire carried upto 100 amperes.	UC	Wire with proper insulation should be used for such purpose.	TTC	16/Nov/15	Closed	
820	17/Nov/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	MH	HAZ	L	P	Personnel of sub-contractor were manual handling & carrying the building blocks, without wearing gloves.	UA	Heavy load should never be lifted manually. Any lifting machinery should be used or the load should be shared by two or more personnel.	TTC	17/Nov/15	Closed	
821	17/Nov/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	PHY	HAZ	L	P	Fire extinguisher at workshop of sub-contractor was found discharged.	UC	All discharged fire extinguishers at GHPP should be replaced with new ones. Selective fire extinguishers should be used as per the nature of fire anticipated in FRA.	TTC	17/Nov/15	Closed	
822	17/Nov/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	FO	HAZ	L	P	Loose boulders were fell down from the ridge point while machinery was at work right under them.	UC	Loose boulders & rocks should be removed from the dangerous location urgently.	TTC	17/Nov/15	Closed	
823	18/Nov/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	OTH	HAZ	L	P	Personnel at CR5 were not using mandatory PPE.	UC	PPE are mandatory to be worn at site. Personnel should be facilitated with PPE.	TTC	18/Nov/15	Closed	
824	18/Nov/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	HEA	HAZ	L	P	One of the personnel at tunnels was not using respirator inside tunnel.	UA	Respirators must be worn to avoid inhalation of any toxic gas inside tunnels because the air is rich with toxic gases.	OTH	18/Nov/15	Closed	
825	18/Nov/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	HB	HAZ	L	P	One of the personnel showed non-professional behaviour when he was instructed regarding safety at tunnels.	UA	Personnel should follow the HSE instructions. A refresher training should be given to the personnel on the use of respiratory protective equipment at tunnels.	OTH	18/Nov/15	Closed	
826	19/Nov/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	S/T/F	HAZ	L	P	Sub-contractor personnel were doing concrete works at box culvert while the access was not clear & safe.	UC	Access route towards the working area should be clear & safe JSA should be submitted to EPCC before starting the activity.	TTC	19/Nov/15	Closed	

827	19/Nov/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	EL	HAZ	L	P	Personnel of sub-contractor were using worn out electrical wires for heavy duty.	UA	Properly insulated wires should be used to avoid any electrocution & short circuit.	OTH	19/Nov/15	Closed	
828	19/Nov/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	MH	HAZ	L	P	Personnel at office were lifting heavy loads of cartions manually.	UA	Load of mass more than 25 kg should never be lifted manually. Personnel should be given a refresher training on manual handling.	OTH	19/Nov/15	Closed	
829	20/Nov/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar	FO	HAZ	L	P	It was observed by Daelim EHS Engineer that there were boulders within the loose material at CR-05 which could fall down and hit any worker or machinery passing from downside area	UC	The loose materail should be continuously being removed from the slope are t avoid falling objcet hazard.	Sam	20/Nov/15	Closed	
830	21/Nov/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar	CWM	HAZ	L	P	Excavator was working inside the tunnels without the signalman it could hit anyone passing by because operator could not notice the wrkrs movement going	UC	Supervisor and management was informed about the deputation of signalman with excavtor to avoid any contact with moving excavator	Sam	21/Nov/15	Closed	
831	22/Nov/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar	FFH	HAZ	L	P	SAMBU welder was working at height without wearing safety belt due to which he could fall and get injured.	UA	Worker was verbally informed and their management was being informed about	Sam	22/Nov/15	Closed	
832	23/Nov/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Advisor)	PHY	HAZ	L	P	Dumper helper was working on CR-2 without wearing safety shoes and helmet due to which he could be injured.	UA	The dumper helper was instructed to wear safety shoes and helmet.	TTC	23/Nov/15	Closed	
833	23/Nov/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Advisor)	PHY	HAZ	L	P	There were steel nails observed beside the TTC store in wooden planks which could injure anybody's foot.	UC	1: All wooden planks should be staked properly with barricades installed around them 2: Steel nails should be plucked out from planks to avoid foot injury	TTC	23/Nov/15	Closed	
834	24/Nov/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Advisor)	FO	HAZ	H	P	The charged holes were uncovered during blasting activity, carried at intake area. This was because lack of rubber mats available to cover the charged area. There was a chance of fly rock.	UC	1. The number of rubber mats should be increased up to 15 to cover all charged area properly. 2: In case of unavailability of rubber mats sand filled bags must be placed over charged holes.	OTH	24/Nov/15	Closed	
835	24/Nov/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Advisor)	FFH	HAZ	M	P	ACT's workers are working at height without wearing safety harness due to which they can fell and could be injured.	UA	Workers were instructed to wearing safety belt. Topic was discussed in tool box meeting.	TTC	24/Nov/15	Closed	
836	25/Nov/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Advisor)	PHY	HAZ	L	P	Kitchen waste is lying on backside of kitchen that is a source of spread of mosquitos and other insects.	UC	Kitchen waste should be disposed by making a trench in disposal area.	OTH	25/Nov/15	Closed	
837	25/Nov/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Advisor)	ENV	HAZ	L	P	There was lot of waste behind M Block that was polluting the environment	UC	TTC workers should transfer the waste to waste area for its further disposal	TTC	25/Nov/15	Closed	
838	26/Nov/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Advisor)	ENV	HAZ	M	P	TTC workers were pushing loose excavated material on slope edge that could cause river water contamination	UA	The excavated material should be loaded in dumpers for its disposal	TTC	26/Nov/15	Open	
839	26/Nov/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Advisor)	FE	HAZ	H	P	A worker was going in welding area whose clothes were wet with combustible fuel which could get fire due to arc welding	UA	1: Stop the entry of such workers in any site area 2: There should be no combustibile material in welding area 3: EPCC EHS team should conduct a training session about welding and cutting safety to welders and their helpers.	TTC	26/Nov/15	Closed	
840	28/Nov/15	Pakistan	Daelim	EHS	EHS	Usman Gillani (HSE Engineer)	CWO	HAZ	H	P	Blast mats were not used during the blasting activity. The flying rock fragmants could injure anybody in the vacinity	UA	Blast mats must be placed over charged area Concerned supervisor should have been given warning letter about such violation	TTC	28/Nov/15	Closed	
841	29/Nov/15	Pakistan	Daelim	EHS	EHS	Usman Gillani (HSE Engineer)	ENV	HAZ	L	E	Waste was scattered near labour rest room at site.	UA	Waste should be collected and thrown into wastebins.	Sam	29/Nov/15	Closed	

842	29/Nov/15	Pakistan	Daelim	EHS	EHS	Usman Gillani (HSE Engineer)	HEA	HAZ	M	P	A sambu tunnel labour was found entering the tunnel without wearing respirator.who could possibly expose to harmful gases.	UC	1-Every individual should were respirators while entering the tunnel. 2- The issue is already discussed in toolbox to avoid incidents because of such hazards.	Sam	29/Nov/15	Closed	
843	30/Nov/15	Pakistan	Daelim	EHS	EHS	Usman Gillani (HSE Engineer)	ENV	HAZ	M	E	Oil spillage were observed from oil drums near Sambu workshop	UC	1- Plastic liner should be placed under the drums to avoid contamination. 2- All the contaminated soil should be removed from the site.	Sam	30/Nov/15	Closed	
844	30/Nov/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer )	ENV	HAZ	M	E	It was Observed by DAELIM's EHS engineer that Waste was not removed from Ridge point.	UC	All the waste should be removed from the site area.	TTC	30/Nov/15	Closed	
845	01/Dec/15	Pakistan	Daelim	EHS	EHS	Usman Gillani (HSE Engineer)	FFH	HAZ	H	P	It was Observed by DAELIM's EHS engineer that Sub-contractor personnel was working at an unsafe working platform with insufficient planks which could result in fall of workers	UC	1- Scaffolding plates should be placed at the form work. 2- Workers should not climb over the platform in an unsafe manner.	TTC	01/Dec/15	Closed	
846	01/Dec/15	Pakistan	Daelim	EHS	EHS	Usman Gillani (HSE Engineer)	HEA	HAZ	M	p	It was observed by Daelim's EHS engineer that Sub-contractor personnel 3M mask's filters were turned black due to CO2 exposure	UC	Filters should be monitor regularly in the tunnels and replacement should be done when required.	Sam	01/Dec/15	Closed	
847	02/Dec/15	Pakistan	Daelim	EHS	EHS	Usman Gillani (HSE Engineer)	PHY	HAZ	M	P	It was observed by Daelim's EHS engineer that the visibility was disturbed due to the wrong direction of lights inside the tunnel which are resulting in blurred vision	UC	The direction of lights should'nt be toward the face.	Sam	02/Dec/15	Closed	
848	03/Dec/15	Pakistan	Daelim	EHS	EHS	Usman Gillani (HSE Engineer)	ENV	HAZ	M	E	Oil spillage was Observed by Daelim EHS Engineer.spillage was due to improper refueling by Sub Contractors Sambu	UA	1- Refuelling should be done carefully to control spillage. 2-Dip trays and mats should be used during the refuelling.	Sam	03/Dec/15	Closed	
849	03/Dec/15	Pakistan	Daelim	EHS	EHS	Usman Gillani (HSE Engineer)	HEA	HAZ	H	p	It was observed by Daelim EHS Engineer that sub-contractor personnel was not using respirators during shortcrete activity inside the tunnel.	UA	1- 3M respirators should be worn while entering the tunnels specially during shortcrete or mucking activity. 2- Warning letter should be issued to the violators.	Sam	03/Dec/15	Closed	
850	04/Dec/15	Pakistan	Daelim	EHS	EHS	Usman Gillani (HSE Engineer)	ENV	HAZ	H	E	It was observed by Daelim EHS Engineer that sub-contractor thrown the excavated material into the river without any permission from the EPCC contractor.	UA	1. All the excavated material should be shifted to the disposal area. 2. Toolbox should be Conducted on environmental conservation.	Sam	04/Dec/15	Open	
851	05/Dec/15	Pakistan	Daelim	EHS	EHS	Usman Gillani (HSE Engineer)	FFH	INVS	H	P	A boulder fell down and slightly injured a person at inlet portal area.	UA	1. Workers should not work under the slope 2. There should be proper scalling work to remove loose material from the rock surface 3. Toolbox should be conducted for awareness agianst falling objects.	OTH	05/Dec/15	In P	
852	05/Dec/15	Pakistan	Daelim	EHS	EHS	Usman Gillani (HSE Engineer)	HEA	HAZ	M	P	It was observed by Daelim EHS Engineer that some of the 3M mask's Filters were damaged and the contaminants could penetrate into lungs through damaged filtes of the respirators.	UC	1. All the damaged filters should be replaced. 2. Regular inspections should be conducted.	Sam	05/Dec/15	Closed	
853	05/Dec/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	PHY	HAZ	H	P	TTC Personnel were doing hot work activity without face shields at TTC workshop.	UA	1- All the workers should wear face shield during hot work. 2- Toolbox should be conducted about PPE compliance during hotwork.	TTC	05/Dec/15	Closed	
854	06/Dec/15	Pakistan	Daelim	EHS	EHS	Usman Gillani (HSE Engineer)	ENV	HAZ	M	E	Oil spillage was Observed by Daelim EHS Engineer.spillage was due to improper refueling by Sub Contractors	UA	1. Water proof sheets should be placed under the drums to avoid contamination. 2. All the contaminated soil should be removed from the site.	Sam	06/Dec/15	Closed	
855	06/Dec/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	OTH	HAZ	H	P	It was Observed by Daelim EHS Engineer that sub-contractor Pir & Co. Personnel was carrying out hotwork activity at their workshop without PTW.	UA	1. Pir & Co personnel were given a verbal warning after the issuance of PTW. 2. Toolbox should be conducted on PTW.	OTH	06/Dec/15	Closed	
856	06/Dec/15	Pakistan	Daelim	EHS	EHS	Usman Gillani (HSE Engineer)	OTH	HAZ	M	P	It was Observed that sub-contractor sambu personnel were working inside the tunnel without wearing gloves.	UA	Gloves must be worn while working.	Sam	06/Dec/15	Closed	
857	07/Dec/15	Pakistan	Daelim	EHS	EHS	Usman Gillani (HSE Engineer)	FE	INSP	L	P	It was observed by Daelim EHS Engineer that sub-contractor sumbu welders are not using flash back arrestors with gas cylinders and torches.	UA	Flash back arrestors should be install with all the cylinders and welding torches to prevent any kind of fire or explosion.	Sam	14/Dec/15	Open	
858	08/Dec/15	Pakistan	Daelim	EHS	EHS	Usman Gillani (HSE Engineer)	VIO	HAZ	H	P	The Deputy Construction Manager EPCC behaved in an unprofessional way to the EHS Manager EPCC.	UA	Professional behaviour should be adopted by all the personnel in organisation.	OTH	12/Dec/15	Closed	
859	08/Dec/15	Pakistan	Daelim	EHS	EHS	Usman Gillani (HSE Engineer)	ENV	INSP	M	P	Poor housekeeping was observed at sambu's workshop shop area.	UA	Housekeeping should be maintained on regular basis.	Sam	08/Dec/15	Closed	

860	08/Dec/15	Pakistan	Daelim	EHS	EHS	Usman Gillani (HSE Engineer)	HEA	HAZ	M	P	It was observed by Daelim EHS Engineer that sub-contractor personnel were working under the charging car buckets which could strike on workers head and could	UC	The workers should remain away from bucket moving up and down to carry out work at height	Sam	08/Dec/15	Closed	
861	09/Dec/15	Pakistan	Daelim	EHS	EHS	Usman Gillani (HSE Engineer)	VIO	HAZ	M	P	The Deputy Construction Manager EPCC behaved in an unprofessional way to the EHS Manager EPCC, which is promoting unsafe culture in the form of violence	UA	Professional behaviour should be adopted by all the organisation. To be discussed in the daily Toolbox meeting.	OTH	14/Dec/15	Closed	
862	09/Dec/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FFH	HAZ	H	P	It was observed by Daelim EHS Engineer that sub-contractor TTC personnel were working at height without full body harness.	UA	Workers should wear full body harness while working above the height of 1.8 meters to avoid falling hazards.	TTC	09/Dec/15	Closed	
863	10/Dec/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	TSPT	HAZ	H	P	During rain, the mud was observed to be present all around which could cause personnel to slip, causing multiple injuries	UC	The mud should be cleared or Backfilled with solid material. The topic to be discussed in the Daily toolbox to avoid future incidents because of such hazards	TTC	11/Dec/15	Closed	
864	10/Dec/15	Pakistan	Daelim	EHS	EHS	Usman Gillani (HSE Engineer)	OTH	HAZ	H	P	Wooden planks were observed with nails which could injure any personnel near OE office.	UC	Steel nails should be plucked out of the planks	OTH	10/Dec/15	Closed	
865	11/Dec/15	Pakistan	Daelim	EHS	EHS	Usman Gillani (EHS Engineer)	HEA	HAZ	M	P	It was observed by Daelim EHS Engineer that sub-contractor personnel was not using respirator and gloves during shortcrete activity inside the tunnel.	UA	1- Respirators should be used inside the tunnels to avoid lungs diseases. 2- Mandatory PPEs should be used during work.	Sam	11/Dec/15	Closed	
866	11/Dec/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	S/T/F	HAZ	M	P	It was observed by Daelim EHS Engineer that the access towards ridge top was slippery.	UC	Such kind of access should not be used. 2- Safe access with ropes should be used to reach the site area.	OTH	13/Dec/15	Closed	
867	12/Dec/15	Pakistan	Daelim	EHS	EHS	Usman Gillani (EHS Engineer)	FE	HAZ	H	P	It was Observed by the EHS Engineer that OE personnel was taking pictures in the tunnel during the charging activity which could initiate the detonators	UA	Instructed OE personal not to take the pictures during charging activity 2- Nobody should take pictures during charging activity.	OTH	12/Dec/15	Closed	
868	13/Dec/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FE	HAZ	H	P	Its was observed by Daelim EHS Engineer that sub-contractor Pir & Co. personnel were using cell phones during the charging activity and refuelling this machinery within 20 meter radius of charging location.	UA	1- Nobody should use cell phones within the 100 meter radius of the charging location. 2- 100m radius should be evacuated before blasting.	OTH	13/Dec/15	Closed	
869	13/Dec/15	Pakistan	Daelim	EHS	EHS	Usman Gillani (EHS Engineer)	ENV	HAZ	L	E	Oil spillage was Observed by Daelim EHS Engineer. Spillage was due to the leakage in the valve of chemical storage tank	UC	1- chemical tank should get replaced immediately. 2- Spillage and contamination should be removed from the site area.	Sam	14/Dec/15	Closed	
870	14/Dec/15	Pakistan	Daelim	EHS	EHS	Rohail Asghar (EHS Engineer)	FFH	HAZ	M	P	It was Observed by Daelim that sub-contractor personnel were working at height without wearing full body harness.	UA	Full body harness should be used while working at height.	TTC	14/Dec/15	Closed	
871	15/Dec/15	Pakistan	Daelim	EHS	EHS	Usman Gillani (EHS Engineer)	FFH	HAZ	M	P	It was Observed by the EHS Engineer that sub-contractor personnel was using an unsafe excavated slope area to reach the diversion tunnels.	UA	Safe and suitable access should be used to approach the other working site.	Sam	15/Dec/15	Closed	
872	15/Dec/15	Pakistan	Daelim	EHS	EHS	Usman Gillani (EHS Engineer)	ENV	HAZ	L	E	Over flow of waste water was observed from the sedimentation pond at diversion tunnels which was seeping into the river contaminating it.	UC	Water must be sucked from the pond and shifted to designated areas to avoid overflow and river water contamination	Sam	16/Dec/15	Closed	
873	15/Dec/15	Pakistan	Daelim	EHS	EHS	Usman Gillani (EHS Engineer)	ENV	HAZ	L	E	It was Observed by Daelim EHS Officer that waste was scattered at site.	UC	Waste should be collected and put into waste bins.	Sam	15/Dec/15	Closed	
874	16/Dec/15	Pakistan	Daelim	EHS	EHS	Anees (HSE Engineer)	FO	HAZ	M	P	It was observed by Daelim EHS Engineer that there were boulders within the loose material at CR-05.	UC	Loose boulders & rocks should be removed from the dangerous location urgently.	TTC	16/Dec/15	Closed	
875	16/Dec/15	Pakistan	Daelim	EHS	EHS	Usman Gillani (EHS Engineer)	OTH	HAZ	M	P	It was observed by Daelim EHS Engineer that laborers were working without gloves during the charging activity.	UA	Mandatory PPEs should be used at site during construction activities.	Sam	16/Dec/15	Closed	
876	16/Dec/15	Pakistan	Daelim	EHS	EHS	Usman Gillani (EHS Engineer)	VIO	HAZ	M	P	It was observed by Daelim EHS Engineer that sub-contractor construction manager was involved in misconduct with one of his labourer.	UA	Positive behaviour should be adopted by all personnel working at site	Sam	16/Dec/15	Closed	
877	17/Dec/15	Pakistan	Daelim	EHS	EHS	Usman Gillani (EHS Engineer)	EL	HAZ	L	P	Electric cable at CR-05 was observed lying in the trench along the road side which was filled with water.	UC	1. All the electric wires should be hanged above the ground level to keep them safe from any damaged. 2. ELCB should be provided in all electrical appliances used at GHPP.	OTH	19/Dec/15	Open	
878	17/Dec/15	Pakistan	Daelim	EHS	EHS	Usman Gillani (EHS Engineer)	ENV	HAZ	L	P	Oil spillage was observed from the short-crete machine near outlet portal.	UC	Oil spillage should be controlled by using dip trays, oil spill kits and all the contaminated soil should be removed from site.	Sam	17/Dec/15	Closed	
879	18/Dec/15	Pakistan	Daelim	EHS	EHS	Usman Gillani (EHS Engineer)	FE	HAZ	M	P	It was observed by Daelim EHS Engineer that sub-contractor personnel were smoking in the no smoking zone within the 100m radius of charging activity.	UA	1- Smoking should be done at the designated areas only. 2- Nobody should smoke within the 100m radius of charging activity.	Sam	18/Dec/15	Closed	

880	19/Dec/15	Pakistan	Daelim	EHS	EHS	Usman Gillani (EHS Engineer)	HEA	HAZ	L	P	It was observed by Daelim EHS Engineer that sub-contractor personnel were handling the explosives without using gloves.	UA	Gloves should be used while handling explosives The labor should wash their hands with soap before taking meal	Sam	19/Dec/15	Closed
881	20/Dec/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	HEA	HAZ	M	P	It has been observed by Daelim EHS Engineer that most of personnel working GHPP suffered from acid peptic disorder due to eating unhygienic food at the restaurant.	UC	1. Hygienic food should be provided to all the personnel working at GHPP. 2. The male nurse should make inspection of food and other unhygienic conditions	OTH	21/Dec/15	Open
882	21/Dec/15	Pakistan	Daelim	EHS	EHS	Usman Gillani (EHS Engineer)	ENV	HAZ	L	P	Oil spillage has been observed from heavy machinery.	UC	Oil spillage should be controlled by using oil spill kits, dip trays and all the contaminated soil should be removed from site.	Sam	21/Dec/15	Closed
883	21/Dec/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	OTH	HAZ	M	P	It was observed by Daelim EHS Engineer that an unauthorised person was operating the excavator of sub-contractor.	UC	Only authorised person should operate heavy equipments.	TTC	21/Dec/15	Closed
884	22/Dec/15	Pakistan	Daelim	EHS	EHS	Usman Gillani (EHS Engineer)	HEA	HAZ	L	P	It has been observed by Daelim EHS Engineer that handwash or soap wasn't provided at the restaurant.	UC	Handwash or soaps should be provided for washing hands properly	OTH	22/Dec/15	Closed
885	23/Dec/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	TSPT	HAZ	M	P	Its was observed by Daelim EHS Engineer that EPCC driver was driving over the speed limit.	UA	Speed limits should be followed at site during driving.	OTH	23/Dec/15	Closed
886	24/Dec/15	Pakistan	Daelim	EHS	EHS	Usman Gillani (EHS Engineer)	CWM	HAZ	M	P	It was observed by Daelim EHS Engineer that sub-contractor personnel were working under the charging car buckets which could strike on workers head and could result in injury	UA	Nobody should be working under the charging car bucket. The suncon. EHS personal should always instruct the worker to work at safe place away form the bucket above their heads.	Sam	24/Dec/15	Closed
887	25/Dec/15	Pakistan	Daelim	EHS	EHS	Usman Gillani (EHS Engineer)	OTH	HAZ	H	P	It was observed by Daelim EHS Engineer that during the lifting operation at batching plant one of the outriggers of mobile crane was lifted in the air due unsafe lifting operation	UC	Load should be lifted according to the crane capacity with in safe working limits and according to the load chart at a proper radius	OTH	25/Dec/15	Closed
888	25/Dec/15	Pakistan	Daelim	EHS	EHS	Usman Gillani (EHS Engineer)	ENV	HAZ	L	E	Scattered waste was observed outside the tunnels.	UC	Waste should be collected and put into waste bins.	Sam	25/Dec/15	Closed
889	25/Dec/15	Pakistan	Daelim	EHS	EHS	Usman Gillani (EHS Engineer)	ENV	HAZ	L	E	Oil spillage was observed from the short-crete machine outside tunnel-2.	UC	Spillage should be controlled by using dip trays to collect spilled oil	Sam	26/Dec/15	Closed
890	26/Dec/15	Pakistan	Daelim	EHS	EHS	Usman Gillani (EHS Engineer)	HEA	HAZ	M	P	It was observed by Daelim EHS Engineer that sub-contractor personnel were working inside tunnels without wearing respirators.	UA	Every individual should use respirators while working in tunnels to avoid contaminats exposure	Sam	26/Dec/15	Closed
891	27/Dec/15	Pakistan	Daelim	EHS	EHS	Usman Gillani (EHS Engineer)	ENV	HAZ	M	P	It was observed by Daelim EHS Engineer that subcontractor sambu was shifting the waste water in river poochh with the help of water pump.	UA	1. Sedimentation ponds should be constructed to collect tunnel waste water. 2. The waste water should be shifted to designated area	Sam	10/Jan/16	In P
892	28/Dec/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	FFH	HAZ	M	P	Scaffolding erected at batching plant for repair & maintenance of silo was not fulfilling OSHA's minimum requirements for safe work at height.	UC	Scaffolding should be erected according to OSHA's recommended procedures to ensure safe work at height. It should be discussed in the toolbox meeting.	OTH	01/Jan/16	Closed
893	29/Dec/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	FO	HAZ	L	P	Loose boulders were there on the steep slope above CR2.	UC	Loose material at height or falling objects should be removed from all locations at GHPP	TTC	01/Jan/16	Closed
894	30/Dec/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	MH	HAZ	L	P	Personnel at TTC workshop were lifting heaving metallic pieces manually.	UA	Toolbox meeting should be conducted on safe handling & the personnel should be facilitated in such jobs.	TTC	01/Jan/16	Closed
895	31/Dec/15	Pakistan	Daelim	EHS	EHS	Muhammad Anees (HSE Engineer)	TSPT	HAZ	L	P	A car driver was over speeding at site & was exceeding its speed from the allowable speed limit.	UA	All drivers at GHPP should be given a briefing on safe driving in the toolbox meeting..	OTH	01/Jan/16	Closed

# Daily Environmental Health Safety Report

**Day 205**  
7/25/2015

**EHS Daily Main Findings**

EPCC HSE Manager visited whole site.  
 EPCC Construction manager visited whole site area.  
 EPCC HSI visited whole site area.  
 EPCC HSI issued permit to work (1) for blasting on wear acces.  
 EPCC HSI monitored blasting on wear access road.  
 EPCC HSE representative visited batching plant area and monitored acitivities.  
 EPCC HSI visited CR1 and monitored filling activity near bridge.  
 EPCC HSI visited wear access road and monitored loading activity.  
 EPCC EHS team inspected the kitchen.

**Environmental Daily Main Findings**

EPCC HSE team conducted general waste collected activities with Green Team of TTC.

**Other Daily Main Findings**

Toolbox Meeting conducted with Daelim EPCC, Techno Tech Construction and Sambu at Gulpur Hydropower Project Site.

<b>Personnel On Board / Manhours</b>			
	<b>POB of the day</b>	<b>Manhours of the Day</b>	<b>Manhours Project</b>
Camp	0	0	0
Security Guards	0	0	0
Mira SUPERVISION TEAM	0	0	0
Mira BIODIVEERSITY TEAM	0	0	0
Mira(Client) SUBCONTRACTORS	0	0	0
Client VISITORS	0	0	0
EPCC Senior staff	47	423	40545
EPCC Junior staff	0	0	0
EPCC Subcontractors	0	0	106569
EPCC Visitors	0	0	0
	0	0	0
<b>TOTAL</b>	<b>47</b>	<b>423</b>	<b>147,114</b>

**HSE KEY PERFORMANCE INDICATORS**

	<b>Today</b>	<b>Project</b>
FAT (Fatality)	0	0
LTI (Lost Time Injury)	0	0
RWC (Restricted Workday Case)	0	0
MTC (Medical Treatment Case)	0	0
FAC (First Aid Case)	0	1
ED (Environment Damage)	0	0
ML (Material Loss)	0	0
NMI (Near Miss)	0	0
UA / UC (Unsafe Act / Unsafe Condition)	0	1
SECURITY INCIDENT	0	0
ROAD TRAFFIC ACCIDENT	0	0
DRILL (Type)	0	0
TRAINING (Type)	0	5
POACHERS Materials (snares...)	0	0

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## **Exhibit 02 – Medical Treatment Cases**

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(Please see the next page)

## Medical Treatment Cases Sample Reports

Preliminary <input type="checkbox"/>		Final	<input checked="" type="checkbox"/>
Date	Dec/13/2015	Report No.	PK-30
Client	Mira Power Ltd.	Project Title	Gulpur Hydropower Project (GHHP)
Work Type	Manual Handling	Terrain	Mountainous
		Location	Near Bridge CR-2

## CLASSIFICATION (tick the box/as as appropriate)

MTC			Material Loss	
	Near Miss (NM)		Fire / Explosion	
	FAT (Fatality)		Property Damage	
	LTI (Loss Time Injury)		Environmental Damage	
	RWC (Restricted Work Case)		Security	
	MTC (Medical Treatment Case)	<input checked="" type="checkbox"/>	Fatality/Injury/Property Damage to Third Party	
FAC (First Aid Case)		Occupational Illness		
RTI (Road Traffic Incident)		Other		

## GENERAL INFORMATION

Incident Reported by	Mr. Jabran Subhani HSI TTC (Sub-Contractor)		
Time of Incident	14:20		
Date of Incident(DD/MM/YY)	Dec/13/2015		
Local Weather	Clear		
Hours worked in the day before incident occurred	6 hours		
Work area or location of incident	Near Bridge-2		
Activity Performed when incident happened	Manual Handling		
Job type of injured personnel	Labor		
Category of incident	Manual Handling		
Injured personnel in experience group (years)	10 Years		
No. of Injured Personnel	1		
Investigation Details:	Investigated by:	Syed Usman Iftikhar (HSO), Rohail Asghar (HSO)	
	Dates:	Dec/13/2015	
	Conducted at:	Gulpur Hydropower Project Site	

## PERSON INJURED

Name	Job Title	Department	Supervisor	Injuries	Working Days Restricted or transfer	Working Days Lost
Mr. Yaseen	Concrete Labor	Construction	Mr. Rafiullah	Hand Injury	Nil	Nil

## PROPERTY DAMAGE

Item	Damage Description	Estimated Loss	Total Estimated Loss
N/A	N/A	N/A	N/A

## SUMMARY OF EVENTS IMMEDIATELY BEFORE THE INCIDENT

At 14:20 hrs, on 13th of December 2015, TTC labourers were shifting fuel drums through the dozer.

## DESCRIPTION OF THE INCIDENT

At 14:20 hrs on 13th of December 2015, three laborers (Mr Ramzan, Mr. Yaseen and Mr. Azeem) of Techno Times Construction Company, gathered to shift diesel fuel drums to CR-5 above. The drums were as heavy as 200 kg each, so the laborers called a dozer for the purpose. They joined up to manually lift the diesel drums & load on to the extended boom of the blade of the dozer. While loading the first drum, the three joined together & lifted the drum. By the moment they were placing the drum on the boom, Mr. Waqas pushed the drum straight, trapping in Mr. Yaseen's right hand fingers between the heavy drum & the metallic boom. Mr. Yaseen quickly pulled his hand back during which he received severe wounds on two of his right hand fingers. He was given first aid on the spot using the first aid kit of one of the vehicles there. The injured was quickly shifted to the project clinic. The Paramedic Mr. Hannan Rasheed attended the patient. He gave him basic first aid & referred him to the District Head Quarter Hospital, Kotli, for getting his hand examined with X-rays & further treatment.

## DETAILS OF INJURIES AND/OR DAMAGE

Two fingers of the right hand, including the middle finger were severely crushed down the load. One of the nails was unrooted from the finger & the skin was badly rubbed under the load.

## DIRECT CAUSE OF INCIDENT

1. Fingers trapped under the heavy load.
2. Violating the manual handling safety protocols.
3. Using inappropriate means for carriage.
4. Making haste to wind up the job.
5. Lifting heavy load (Approx. 70 kg) per person, against the 25 kg safe limit for manual handling.
6. Working with naked hands, not wearing tough gloves, as per the nature of work.

### INDIRECT CAUSES OF INCIDENT

1. Heavy weight of the drum (Approx, 200 kg).
2. Failure of the Foreman to manage the work safely.
3. Incompetency of workers to work in a team with mutual coordination.
4. Work-load stress to meet the daily production target.
5. Lack of awareness among the workers regarding safe manual handling.

### ROOT CAUSES OF INCIDENT

1. Poor commitment from TTC management to manage works safely at site.
2. Lack of commitment from TTC to introduce safe ways of transportation in the company.

No.	Corrective Action	Responsible Parties	Target Date
1	<b>Discussion in Toolbox</b> The incident to be discussed in the Toolbox for general information of the workers at Gulpur Hydropower Project Site	HSE Team EPCC	14 December 2015 <b>To be completed</b>
2	<b>Training of Foreman, Supervisors</b> To conduct a training of Sub-contractor foremans and supervisors on providing appropriate & suitable means of transportation of specific material.	HSE Team EPCC	15 December 2015 <b>completed</b>
3	<b>Meeting with Sub Contractor</b> To discuss the accident and possible rectifications for future to avoid reoccurrence of incident	HSE Team EPCC	14 December 2015 <b>completed</b>
4	<b>Work Plan sharing and Reducing hazards in Planning phase</b> Sub Contractor to discuss the daily work plan and reduce the hazards by sharing work activities and minimizing the hazards of multiple hazardous work activities by good planning	HSE Team EPCC	14 December 2015 <b>completed</b>

### SIGNATORY

Title	Project Manager	Site Manager	Health Safety Manager EPCC
Name(Print)	MR. DONGHO LEE	MR. KIM HYUNG CHAN	MR.SAHIBZADA TANZEEL AHMED
Signature			

### PHOTOGRAPH & OTHER EVIDENCE of INCIDENT



Encircled: Drum containing diesel fuel. (Capacity 200 L)



Encircled: Fingers of Injured laborer

13/12/15

جہرا نام یا سب (TTC) یعنی میں جو کہ گذشتہ ایک ہفتے سے  
 بلال صاحب کی ٹیم (کنٹریٹ) میں کام کر رہا ہوں۔ آج  
 ہم ٹین سڈے ڈیزل ٹانگا (کر سے تھے۔ ڈیزل کو  
 ایئر فلٹر سے دوسری طرف لے جا رہے تھے جب ہم نے دوپہر 12 بجے  
 ڈیزل ٹانگے سے کہیں اور ڈوڑنے کے ذریعے لے جانے کا ارادہ  
 کیا تو ڈیزل کے ڈرام میں سبوں نے اتفاقاً نو ٹین سڈے لے کر  
 جب ڈرام کو اسی طرف چھینا تو اس کے ساتھ سے ڈرام سلیپ ہو کر  
 زمین پر پڑ گیا اور آگ لگی۔ حکام سے (انور احمد) کو یہاں  
 تیار کیا گیا (سیفٹی آفیسر) آگ قابو کرنے کے لیے آئے اور  
 آگ بجھانے کے لیے فرسٹ ایڈ دیا۔ (یا سب)

13/12/15

جہرا نام و عرفان جو کہ (TTC) یعنی میں چار ماہ سے کنٹریٹ  
 ٹیم میں کام کر رہا ہے۔ آج ہم نے بلال صاحب کے ڈیزل  
 لے جانے کے لیے Bridge پر بھجا۔ جب میں نے ڈیزل کے ڈرام  
 کو پکڑا تو میں دو سڈے اور ہی تھے تو جب ہم وہاں  
 لے ڈرام کو اٹھایا تو ہمیں رکھنے لگے پھر ڈرام لے کر  
 رہے ہی تھے کہ ڈرام ہاتھوں سے سلیپ ہو گیا اور دو سڈے  
 سڈے کے ساتھ ڈرام لے بیٹھے آئے۔ تو اس کے بعد وہاں  
 جہرا نام صاحب (یعنی آفیسر) فوراً آئے اور کلینک میں لے کر  
 وہاں جا کر یا سب کو فرسٹ ایڈ دیا۔ (عرفان) ہفتہ

13-12-15

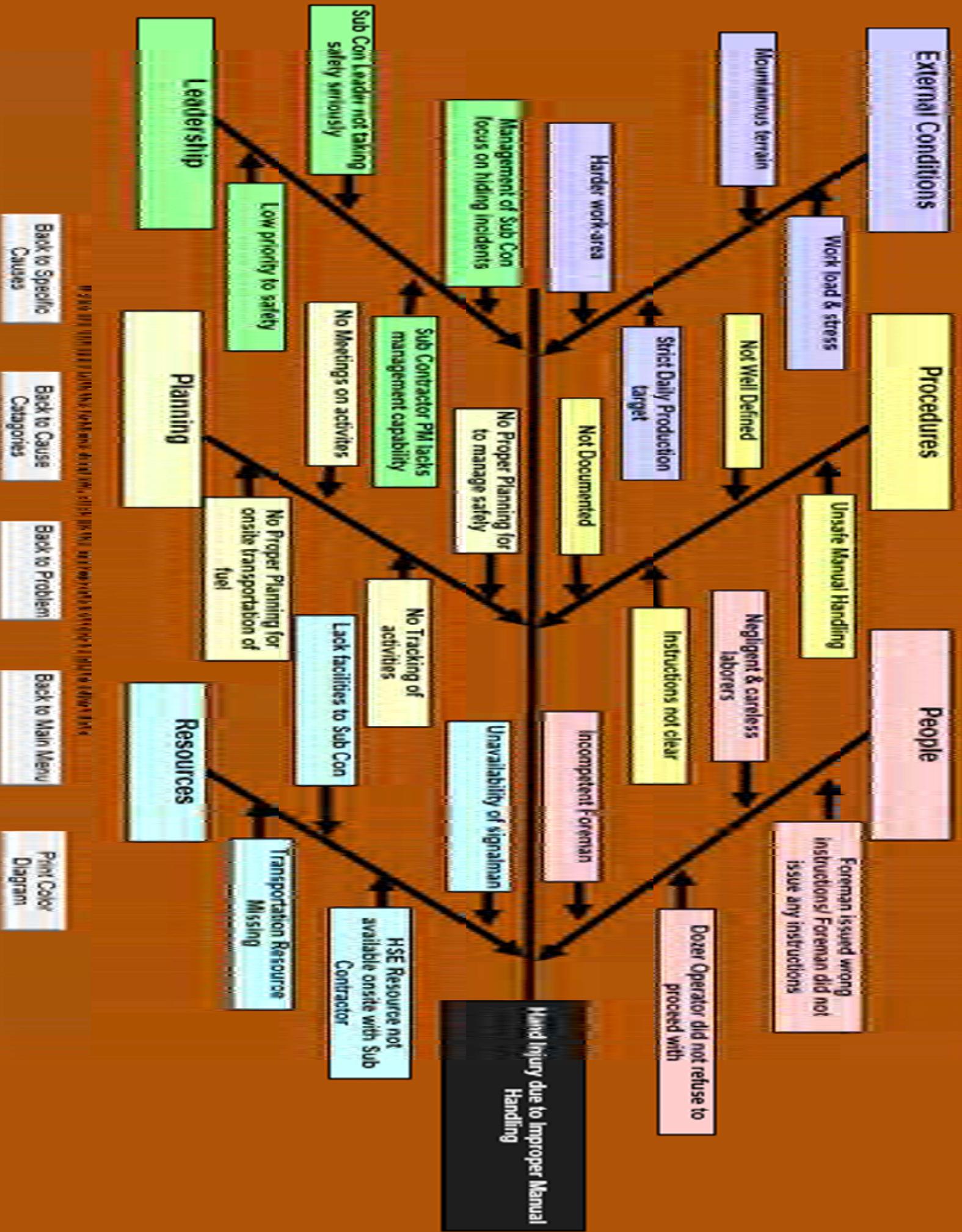
Time 14:20

location bridge #4 CR-2

آج صبح 13-12-15 کو پیر 2:30 بجے ہم ٹین سڈے لوگ  
 پر ڈرام لوڈ کر رہے تھے۔ ڈرام کو ڈوڑنے کے بلڈ میں  
 جنس گیا۔ ہم ٹین سڈوں نے ڈرام کو نکالنے کے لیے جب  
 زور لگایا تو ڈرام اچانک بھٹا اور یا سب  
 کے ہاتھ پر پڑ گیا جس کی وجہ سے اس کا ہاتھ زخمی  
 ہو گیا۔ سیفٹی آفیسر جہرا نام نے گاڑی لگائی اور  
 ہم نے یا سب کو گاڑی میں ڈال کر فوری طور پر  
 پیر ایڈیٹ کلینک لے جایا جہاں اس فرسٹ ایڈ دی  
 گئی۔

محمد عظیم  
 محمد عظیم

# Fishbone Diagram



[Back to Specific Causes](#) | 
 [Back to Cause Categories](#) | 
 [Back to Problem](#) | 
 [Back to Main Menu](#) | 
 [Print Color Diagram](#)



### INDIRECT CAUSES OF INCIDENT

Pressure was not released.  
Wrong instruction of foreman.  
Application of proper whip check

### ROOT CAUSES OF INCIDENT

Lack of Management commitment  
Poor commitment as management is not taking safety as priority

No.	Corrective Action	Responsible Parties	Target Date
1	<b>Discussion in Toolbox</b> The incident to be discussed in the Toolbox for general information of the workers at Gulpur Hydropower Project Site	HSE Team EPCC	24 October, 2015 <b>Completed</b>
2	<b>Meeting with Sub Contractor</b> To discuss the incident and possible rectifications for future to avoid reoccurrence of incident	HSE Team EPCC	<b>Completed</b>
3	<b>Meeting with Sub Contractor</b> Application of whip check on air hose	Sambu	<b>Completed</b>
4	<b>Preventive Measure</b> Sambu should take corrective action to stop reoccurrence of such incidents in future	Sambu	<b>Completed</b>
5	<b>Action</b> Subcontractor should take the disciplinary actions against the concerned supervisor involving workers in unsafe acts	Sambu	<b>Completed</b>

### SIGNATORY

Title	Project Manager	Site Manager	Health Safety Manager EPCC
Name(Print)	MR. DONGHO LEE	MR. KIM HYUNG CHAN	MR.SAHIBZADA TANZEEL AHMED
Signature			

### PHOTOGRAPH & OTHER EVIDENCE of INCIDENT

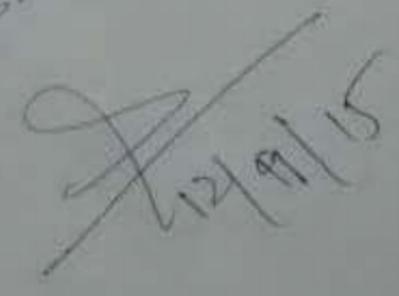


Witness Statement

میں نے محمد عظیم الرحمن بنامہ 15-09-11 کو وقت سات بج کر تیس منٹ پر اپنے کمرے سے کھانا کھانے کے لیے نکلا۔ کھانا کھا کر کمرے سے نکل کر باہر آ گیا۔ کمرے کے دروازے پر ایک دستبردار لگا ہوا تھا اور وہ کمرے سے نکل کر باہر گیا اور میں نے اسے دیکھا۔

معلومات کے لیے یہ بتایا گیا کہ وہ کمرے کو ایک ہیٹنگ سسٹم کے ساتھ ساتھ 14 سے 16 سال کا فریب ہے۔ یہ سائن واقعہ کے قریب ہی HSE ڈیپارٹمنٹ کو (لاہور) ہے۔ اس کے ساتھ ساتھ کوئی ڈرائیونگ لائسنس اور وہ کوئی مشین کا کارڈ نہیں رکھتا۔

ANSAR ASLAM

  
12/9/15

Preliminary <input type="checkbox"/>		Final	<input checked="" type="checkbox"/>
Date	12/12/2015	Report No.	PK-28
Client	Mira Power Ltd.	Project Title	Gulpur Hydropower Project (GHHP)
Work Type	Rest time	Terrain	Plain
		Location	M Block Residence

## CLASSIFICATION (tick the box/as appropriate)

		Material Loss	
Near Miss (NM)		Fire / Explosion	
FAT (Fatality)		Property Damage	
LTI (Loss Time Injury)		Environmental Damage	
RWC (Restricted Work Case)		Security	
MTC (Medical Treatment Case)	<input checked="" type="checkbox"/>	Fatality/Injury/Property Damage to Third Party	
FAC (First Aid Case)		Occupational Illness	
RTI (Road Traffic Incident)		Other	

## GENERAL INFORMATION

Incident Reported by	Mr. Asif Nawaz (HSI, Pir & Co.)		
Time of Incident	13:40 hrs		
Date of Incident(DD/MM/YY)	12/12/2015		
Local Weather	Clear		
Hours worked in the day before incident occurred	6.5 hours		
Work area or location of incident	M Block		
Activity Performed when incident happened	Rest time		
Job type of injured personnel	Auto Electrician		
Category of incident	MTC		
Injured personnel in experience group (years)	4 Years		
No. of Injured Personnel	1		
Investigation Details:	Investigated by:	Muhammad Anees (EHS Engineer, EPCC)	
	Dates:	13-12-2015	
	Conducted at:	Gulpur Hydropower Project Site	

## PERSON INJURED

Name	Job Title	Department	Supervisor	Injuries	Working Days Restricted or transfer	Working Days Lost
Mr. Muhammad Riaz	Auto Electrician	Mechanical	Mr. Shahid	1	0	0

## PROPERTY DAMAGE

Item	Damage Description	Estimated Loss	Total Estimated Loss
N/A			

## SUMMARY OF EVENTS IMMEDIATELY BEFORE THE INCIDENT

At 13:30 hrs the Pir & Co. (Sub-Contractor Construction Company) personnel took lunch & came to M-Block residence for taking rest.

## DESCRIPTION OF THE INCIDENT

At 13:30 hrs on 12th of December 2015, Mr. Muhammad Riaz (Auto Electrician) & Mr. Ali Raza (Mechanic Helper) took their lunch in break time & came to their room in M-Block Residence, for taking rest. The two personnel already had a verbal altercation four days ago. When Mr. Muhammad Riaz entered his room, he found Mr. Ali Raza on his bed & using Mr. Riaz's Mobile Phone Charger to get his phone battery charged. Mr. Riaz requested Mr. Ali Raza to give him his charger, so that he could charge his own phone's battery. Mr. Ali Raza turned down Riaz's request & behaved him with a non-professional way. When Mr. Riaz insisted more, Mr. Ali Raza stood up & choked his throat. Mr. Riaz who had a weaker physique, shouted of pain & sat down to defend himself. Mr. Ali Raza then went outside & brought a heavy stick from the corridor. He knocked Mr. Riaz's head with the stick & escaped from the project site while Mr. Riaz got a swelling on his head & went out of senses. One of his colleagues came quickly for his help. He seated him in a vehicle parked outside the residence & shifted him to the city hospital for medical treatment. Luckily the patient recovered to normal condition & started working when returned back to site.

## DETAILS OF INJURIES AND/OR DAMAGE

N/A

## DIRECT CAUSE OF INCIDENT

1. The wooden stick striking the head caused the MTC.
2. Doing violence to the victim.
3. Showing non-professional behavior to colleague.

### INDIRECT CAUSES OF INCIDENT

1. Non-professional & revengeful attitude.
2. Stress & fatigue due to working continuously at site.
3. Attitude of disrespect for others.
4. Dis-satisfaction from job.
5. Lack of humanity.
6. Peer pressure making the person violent.
7. One person using belongings of the other.
8. Lack of patience in the violent.
9. Poor human resource management & conflict management by the company.

### ROOT CAUSES OF INCIDENT

1. Poor commitment from Pir & Co. management to build up a professional human resource at site..

No.	Corrective Action	Responsible Parties	Target Date
1	<b>Discussion in Toolbox</b> The incident to be discussed in the Toolbox for general information of the workers at Gulpur Hydropower Project Site	HSE Team EPCC	15 December 2015 <b>Completed</b>
2	<b>Training of workers/labours on Professional Att</b> To conduct a training of Sub-contractor foremans and supervisors on blasting safety protocols.	HSE Team EPCC	18 December 2015 <b>To be completed</b>
3	<b>Meeting with Sub Contractor</b> To discuss the accident and possible rectifications for future to avoid reoccurrence of incident	HSE Team EPCC	14 December 2015 <b>Completed</b>

### SIGNATORY

Title	Project Manager	Site Manager	Health Safety Manager EPCC
Name(Print)	MR. DONGHO LEE	MR. KIM HYUNG CHAN	MR.SAHIBZADA TANZEEL AHMED
Signature			

### PHOTOGRAPH & OTHER EVIDENCE of INCIDENT



Figure: Investigating the violence (MTC) Incident

شعبہ : آٹو انٹریٹیشن PIR and Co

نام : محمد ریاض

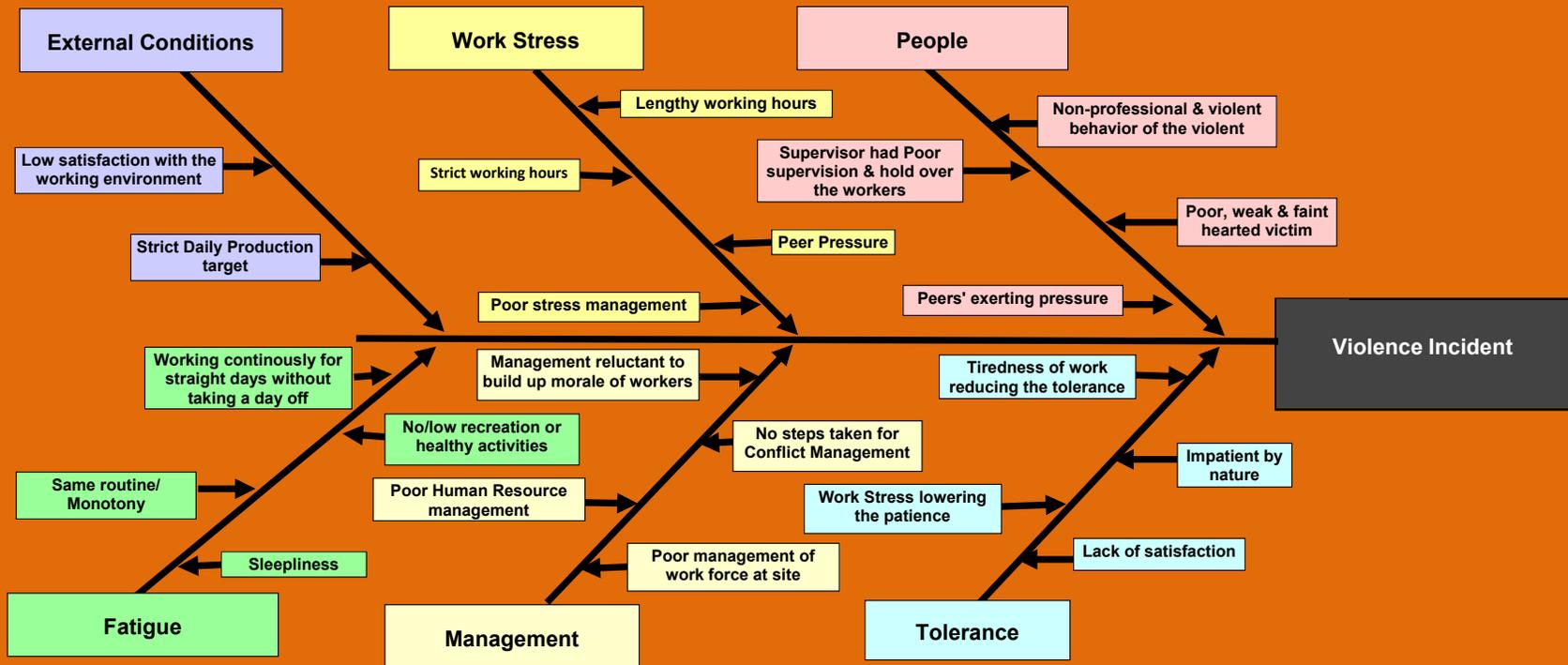
میں پنج ٹائم 3:30 پر اپنے کمرے میں پہنچا۔ اور اپنے بیڈ پر اپنا صوبائل چارجنگ  
پر لگانے کے لیے گیا تو علی رضا پیدے سے اپنی صیرے بیڈ پر بیٹھا ہوا تھا اور صیرا  
چار جبر استعمال کر رہا تھا۔ میں نے اسے کہا کہ صیرے بیڈ سے اٹھو اور مجھے  
صیرا چار جبر استعمال کرنے دے۔ لیکن وہ صیرے بیڈ سے نہ اٹھا اور نہ ہی  
مجھے صیرا چار جبر دیا۔ میں نے بار بار اسے کہا کہ وہ صیرے بیڈ سے اٹھے اور  
مجھے صیرا صوبائل چارج کرنے دے کیلین وہ نہ اٹھا اور صیرے ساتھ غصہ  
کرنے لگا اور گائیاں دینے لگا اور بیڈ سے اٹھ کر صیرے گروں دل بوج  
لی۔ میں درد سے صرخے لگا۔ اور نلھے بیٹھ گیا اس نے مجھے چھوڑا اور  
دروازے کے پاس تھے کٹری کا بڑا سنا ڈنڈا اٹھایا اور صیرے سر پر  
مارا۔ مجھے بہت زور سے لگا اور درد ہوا۔ اس کے بعد مجھے کچھ نہیں  
بتایا ہوا بیٹوں کہ میں بیہوش ہو گیا اور جب میں میونکشن میں  
آیا تو میں ہسپتال کھا اور نشا کا وقت یوریا تھا۔ صیرے سر میں  
درد یوریا تھا اور چکتر بھی آ رہے تھے۔ اور مجھے ڈرپ لگی ہوئی  
تھی۔

اس سارے جھگڑے میں صیرے کوئی کلمہ نہیں کہی۔ علی رضا صیرے بیڈ  
پر بیٹھا ہوا تھا اور صیرا ایسی چار جبر استعمال کر رہا تھا میں نے صرف  
اپنی چیز فائل کی ادروکھ صیرے ساتھ لڑنے لگا۔

PIR and Co

محمد ریاض  
PIR and Co

# Fishbone Diagram



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## Exhibit 03 – First Aid Cases

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## First Aid Medical Reports by Medical Department

## Non-Work Related FAC Report

Date:	<b>8/17/2015</b>	Reported by:	<b>Jahangir Khan (Paramedic)</b>
-------	------------------	--------------	----------------------------------

Time:	<b>08.50 am</b>	Location/work group:	<b>Gulpur Hydropower Project</b>
-------	-----------------	----------------------	----------------------------------

Injured person name and job title:	<b>Javid Iqbal</b>
------------------------------------	--------------------

Nature of injury:	<b>Crush Injury</b>
-------------------	---------------------

Investigated by:	<b>Sahibzada Tanzeel (HSE Manager)</b>
------------------	--

Description:
--------------

At 08:50 am on 17th of August 2015, Mr. Kifayat (Employee of Sub-Con. TTC) came to the Project Clinic with an injured finger. He had received some wounds on his left hand index finger when it was crushed between machinery parts. His finger was washed with ASD & was provided bandage dress. He was instructed to have some rest.

Cause (s):
------------

Incident:

The patient was repairing/operating his Crawl machine with naked hands when he got his hand trapped in between the load the metallic frame of vehicle. As a result, he got his finger wounded.

Corrective action (s):
------------------------

1. Use good quality PPE.
2. Use tough gloves for manual operation of machinery.
3. Strict supervision is required.
4. Management commitment is needed.

## Non-Work Related FAC Report

Date:	<b>12/13/2015</b>	Reported by:	<b>Hanan Rasheed/ EPCC Camp Doctor</b>
-------	-------------------	--------------	--

Time:	<b>14:30</b>	Location/work group:	<b>Gulpur Hydropower Project</b>
-------	--------------	----------------------	----------------------------------

Injured person name and job title:	<b>Mr. Yaseen</b>
------------------------------------	-------------------

Nature of injury:	<b>Hand Injury</b>
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Investigated by:	<b>Hafiz Rohail Asgher &amp; Syed Usman Gillani (HSE Officer, EPCC)</b>
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Description:
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At 14:30 hrs on 13th of December 2015, a patient named Mr. Yaseen (Employee of Sub-Con. TTC) came to the Project Clinic with hand injury. His hand had injured while loading a fuel drum onto a dozer. On Examination I saw the middle and ring finger of right hand of Mr Yaseen are seriously injured. The nails came out from muscles, blood vessels are punched and bones crushed. He was given first aid by cleaning his wounds & wrapping them in the bandage. He was also given a pain killer injection. Later he was referred to the DHQ hospital for medical treatment & consultation.

Cause (s):
------------

Incident:

According to the patient's statement, they were loading a drum of diesel onto a Dozer. The patient's hand trapped in between the drum & the metallic frame of the dozer due to which he got injured.

Corrective action (s):
------------------------

1. Tough gloves should be used.
2. Proper means of transformation should be used.
3. Good coordination is required.

## Non-Work Related FAC Report

Date:	9/1/2015	Reported by:	Jahangir Khan (Paramedic GHPP)
-------	----------	--------------	--------------------------------

Time:	16:10 hrs	Location/work group:	Gulpur Hydropower Project
-------	-----------	----------------------	---------------------------

Injured person name and job title:	Shaukat Abbas
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Nature of injury:	Fracture in little finger of right foot
-------------------	---

Investigated by:	Sahibzada Tanzeel (HSE Manager)
------------------	---------------------------------

Description:
--------------

At 1610 hrs on 1st of September 2015, Mr. Shaukat Abbas (Employee of Sambu Construction Company) came to the Project Clinic with injured toe. A metallic pipe had fallen on his right toe. He was feeling severe pain in his toe. Upon examining his toe, it was found that his toe bones may have been fractured. He was given the basic first aid with bandage & was referred to the DHQ hospital for X-ray & medical treatment.

Cause (s):
------------

**Incident:**

The worker was manually transporting a few metallic heavy pipes at Sambu's workshop. He may have faced misunderstanding with his coworker, when while lifting, the pipe fell from his hands to hit his right toe. Due to this, he was facing severe pain in his toe.

Corrective action (s):
------------------------

Proper coordination should be maintained between each other while working at site & weight heavier than 25 kg must never be lifted manually.



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## Exhibit 04 – Environmental Incidents

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## Environmental Incidents

Date: 12<sup>th</sup> April, 2015

Our Ref #: DLJV-HSE-SAM-005

**Mr. Youn Eoo Lee,**  
**The Project Manager,**  
**Sambu Construction Co,**  
**GHPP, Kotli, AJ&K**

**SUBJECT: ENVIRONMENTAL INCIDENT OF HYDRAULIC OIL SPILL AT CR-01.**

Dear Sir,

This is with reference to complaint on incident happened on 13<sup>th</sup> April 2015 by Sambu Operated Crawler. For your kind information the project area has been declared as National Park. Please refer to the rules and regulations Contractor and Sub-contractor Sambu is part of.

**Poonch National Park:**

The Project will utilize the flow of Poonch River, the full length of which within AJK has been notified as a national park by the AJK Wildlife and Fisheries Department in 2010.

The entire stretch of the Poonch River along with 10-15 km downstream segments of its tributaries was declared a national park in a letter from the AJK Secretariat Forest/AKLASC/Fisheries (ref no: SF/AV 11358-7/2010 dated 15 December 2010). The Poonch River was declared as a national park due to its high fish diversity and importance of supporting fish of both conservation and economic importance particularly the Endangered fish species (IUCN Red List 2013) Mahaseer Tor putitora that is important both from the conservation and recreational/economic viewpoint. By the ESIA process, the profile of the National Park, its conservation importance, and threats to its ecological resources have been highlighted and brought to public notice.

**Legal Binding of Laws:**

**Azad Jammu and Kashmir Environmental Protection Act 2000**

164. The *Azad Jammu and Kashmir Environmental Protection Act, 2000* is the principal legislative tool used for regulating environmental protection in the state of Azad Jammu and Kashmir. The Act is applicable to a broad range of issues and extends to air, water, industrial liquid effluent, and noise pollution, handling of hazardous wastes and biodiversity protection. The responsibility to implement the provisions of the 2000 Act lies with the Azad Jammu and Kashmir Environmental Protection Agency (the „Agency“ or „AJK-EPA“). Considering that the Project is a run of the river (RoR) hydropower project with anticipated environmental impacts, the Act is applicable to the Project in both construction and operation phases.

***The AJK Wildlife (Protection, Preservation and Management) Ordinance 2013:*** This legislation endeavors to promote social, economic, cultural and ecological well-being of local communities in conformity with the concerns of the international communities. The Ordinance also provides for the declaration of various categories of protected areas: wildlife sanctuaries, wildlife refuge, national parks, game reserves, biosphere reserves, biodiversity reserve, and national natural heritage sites. The Project is located in the Poonch River Mahaseer National Park notified in 2010.

***Fisheries Act 1897:*** The *Fisheries Act 1897* regulates fishing in the waters of Pakistan. However, as the Poonch River is located in a national park, the provisions of wildlife legislation supersede those under this legislation.

**Immediate Actions!**

As per rules and regulations and legal bindings for EPCC of environmental laws we would suggest you to avoid any kind of ground or soil contamination e.g. leakage of oil which can happen during maintenance works also. Clean up the soil spill with collected of contaminated soil. Provide oil spill kit to vehicle operating with fuel reserve and having capacity to store fuel and oils. EPCC shall conduct a training session for Sambu Staff on 14<sup>th</sup> April 2015 on Environmental Awareness.

Your earliest cooperation is highly appreciated in this regard.  
Best regards,

\_\_\_\_\_  
**DONGHO LEE**  
Project Manager

SAMBU CONSTRUCTION CO. LTD  
GULPUR HYDROPOWER PROJECT  
**RECEIVED**  
Dated: 12/04/2015  
Time: 8:38 PM  
Name: Sahib  
Fr. Date: \_\_\_\_\_

**Date:** 11<sup>th</sup> October, 2015**Our Ref #:** DLJV-HSE-TTC-056

Atta Ullah Khan,  
Chief Executive Officer,  
Techno Times Construction,  
GHPP, Kotli, AJ&K

**SUBJECT: Environmental Non-Compliances (Repeated Violations)**

Dear Sir,

This letter is with reference to our earlier correspondence and with reference to subject matter. The EPA AJK has conducted two verification visits for environmental non-compliances so far. The Contractor finds TTC in disappointing situation created after repeated non-compliances observed during project construction phase. It is worth to mention several **meetings, site visits, letters and verbal warnings** were issued to management and site supervisors.

Soil improper disposal into River Poonch (National Park) and not taking appropriate measures makes the Contractor to write in Black and White.

Previous month our client and consultants via letters and emails highlighted several environmental violations which Sub-Contractors have been performing despite the fact of several reminders.

On 11th September 2015, Contractor highlighted throwing/disposal of excavated material on weir access road. The activity continued for several hours which was presented in photographs and videos to Sub contractor site manager during EHS meeting. The management of Sub-Contractor after reminder experienced similar situation.

In October 1st week Contractor HSE department conducted night inspection and found excavator on weir access road dropping materials into River Poonch deliberately. The situation couldn't be defended by Sub- Contractor project manager with justified explanation besides providing commitment to control situation.

On 7th October 2015 MPL EHS Manager pointed similar activity on weir access road which involved excavator disposing materials on slope and into River.

The observation was highlighted to Site Project Manager TTC during follow-up meeting on 8th October 2015. The said non-compliance couldn't be halted by Sub-Contractor after notifying in time.

  
12/10/15

47

As responsible company EPCC Owe commitment to Client, Lenders, and various government and third party organizations for protection, preservation and promoting sustainable development at Gulpur Hydropower Project construction.

*The unscientific disposal of spoil generated during the construction of hydropower projects causes social and environmental hazards in the area where it is dumped. For instance, similarly, spoil/muck which leaches into the aquatic ecosystems increases the turbidity of water that has serious impact on the aquatic life (IUCN Red List Species of Poonch River National Park) due to change in water quality and reduction in the availability of light. In addition the spoil material causes expected silt deposition issue at Mangla reservoir. Loose spoil increases the level of suspended particulate matter in the atmosphere causing serious health hazards and photo-retardation among the local population*

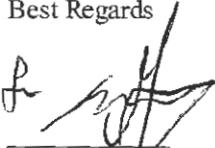
As EPCC Contractor we would suggest TTC to increase their level and quality of inspection for construction activities. The Contractor also feels negligence by Sub-Contractor for environmental matters is highlighted to Client and Lenders. It is important to mention any environmental liability arising as result of Sub-Contractor non compliances will be equally responsibility of TTC higher management. we expect Sub-Contractor has a clear anticipation on the criticality of EPCC position therefore we are expecting better cooperation and a responsible approach to deal with environmental matters.

We request Sub- Contractor to adopt environmental friendly approach and practices during construction activities.

*Further information or specific advice can be obtained by contacting HSE Department EPCC. & HSE Manager EPCC in this regard.*

Thank You.

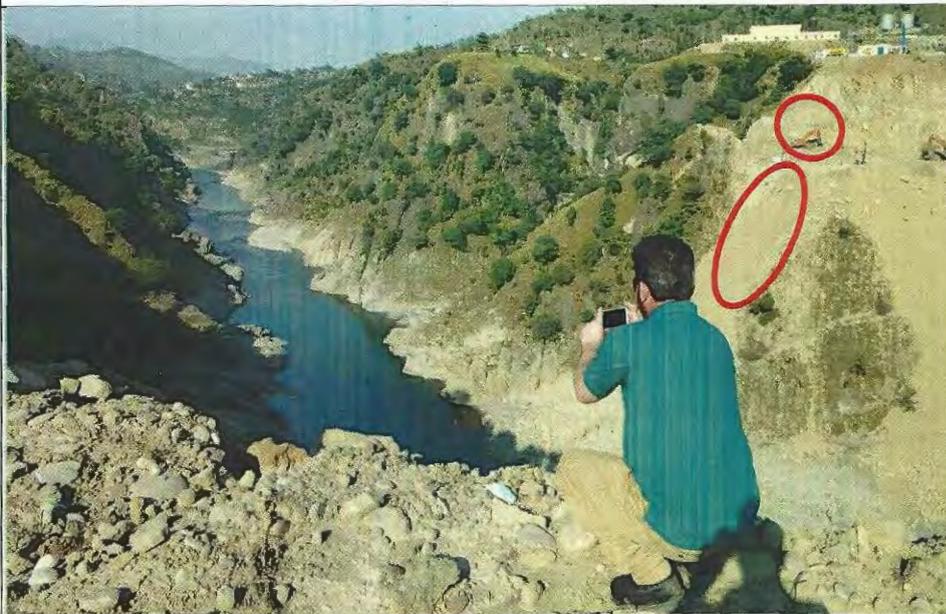
Best Regards



Mr. Dongho Lee  
Project Manager



Meeting with Sub-Contractor on the issue of spoil disposal practices and non compliances. Videos were presented to stop such violations at site and commitments were provided by Sub-Contractors to ensure proper disposal of materials.



Client visit on 07-October-2015 highlighting spoil disposal issues and non-compliance during that time activity.

Date: 21<sup>st</sup> November, 2015

Our Ref #: DLJV-HSE-SAM-068

Mr. Youn Eoo Lee,  
The Project Manager,  
Sambu Construction Co,  
GHPP, Kotli, AJ&K.

**SUBJECT: SEDIMENTATION PONDS AT DIVERSION TUNNELS AND**  
**ENVIRONMENTAL CONCERNS/ IMMEDIATE ATTENTION**  
**REQUIRED!**

Dear Sir,

This is with reference to our earlier discussions regarding the environmental concerns of the Contractor at Diversion Tunnels. As per ESIA requirements "release of solvents, oils and lubricants, chemicals can potentially result in the contamination of soil and consequent deterioration of groundwater and surface water quality". The Contractor is concerned about the sensitive nature of Project Area "National Park" and associated protected waters which may result in contamination and could lead to loss of aquatic life and associated environmental consequences.

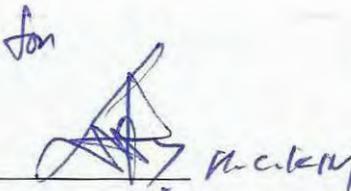
The Environmental NOC for Gulpur Hydropower Project by EPA prohibits releasing any kind of chemicals into the River Poonch. Waste water from drilling works release effluents as waste water draining into Sedimentation Ponds.

The Sedimentation tanks prepared by the Sub-Contractor need to be cleaned and sludge removed on daily basis. It is important to note the water release after treatment must meet the "National Environmental Quality Standards for Municipal and Liquid Industrial Effluents" & "IFC environmental quality standards".

The Contractor would like, to request for using appropriate technical engineering solution to treat the waste water of tunnels which can affect the Aquatic Bio-Diversity of River Poonch. Any kind of water pollution source must be stop to go directly into River Poonch.

Waiting for reply and meeting on 25<sup>th</sup> November 2015.

Best Regards,

  
Mr. Dongho Lee

SAMBU CONSTRUCTION CO. LTD  
GULPUR HYDROPOWER PROJECT  
**RECEIVED**  
Dated: 23/11/15  
Time: 11:30 AM  
Name: Sohail  
Fr. Date:

Mr. Dongho Lee  
Project Manager

Annex-1

Photographic Record



Figure 1 view of sedimentation pond



Figure 2 View of improper drains with effluent moving out and contaminating soil, suggestion to cement drain between sedimentation ponds



Figure 3 Chemical Sludge collection view



Figure 4 Damage boundary wall of sedimentation pond, leakage for contamination

Date: 14<sup>th</sup> June, 2015

Our Ref #: DLJV-HSE-SAM-014

Mr. Youn Eoo Lee,  
The Project Manager,  
Sambu Construction Co,  
GHPP, Kotli, AJ&K

**SUBJECT: PROVISION OF EMERGENCY RESPONSE FOR OIL SPILLS IN PROTECTED AREA OF NATIONAL PARK.**

Dear Sir,

The Contractor during its visit to access track on Right abutment of bridge observed spillage of constant oil and lubricants during refueling process.

With reference to Letter Ref: DLJV-HSE-SAM-005 the project site has binding laws and regulations pertaining to environment which are clearly laid down in ESIA provided to sub-contractor Ref: DLJV-HSE-SAM-009 in CD format.

Biodiversity may be disturbed due to loss of soil productivity caused by contamination from oil spills and leakages from Project vehicles and machinery. As responsible company our effort should involve proactive measures to avoid any future damages to environment.

We would request the Sub Contractor to avoid further or any future spillage with good environmental controls, HSE Plan, Oil Spill Contingency Procedures, and provision of Oil Spill Kits with every heavy machinery. Provision of Dip Tray and Pan during maintenance is important.

We are looking forward for your cooperation to overcome such avoidable hindrances during our production.

Best Regards,

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**DONGHO LEE**  
Project Manager

Received  
*[Signature]*  
11/06/2015

Annex-1



Figure 1 Contaminated soil on the ground due to oil spill during improper refueling



Figure 2 Contaminated soil on the ground due to oil spill during improper refueling



Figure 3 Leakage of Oil

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## Exhibit 05 – Near Misses

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## Incident Alert for Near Miss

# SAFETY ALERT EPCC

## Brakes Failure due to lack of maintenance and mechanical care

**INCIDENT** A truck driver survived injuries at a Gulpur Hydropower Project (GHPP) while driving back from spoil tip area after disposal of material. The brakes failed on difficult mountain terrain.

The truck Sub Contractor Diver was driving and failed to negotiate a corner and hit mountain ditch on right side of driver. **CIRCUMSTANCES** The truck was unloaded from material when the incident occurred. The truck driver saved ten people while changing direction and hitting ditch *This Safety Alert is a follow-up to previous safety alerts by EPCC at GHPP.*

**INVESTIGATION** The investigation found that compliance with mechanical and safety requirements is not met by the Sub Contractor while operating vehicles. The standard practice of pre-checks of vehicles before use by driver, mechanical inspection by supervisors are not maintained.

- Brakes Failure- Caused the dumper hydraulic pipe to release pressure and thus fluid
- Increase operating pressure- operating pressure while too much application of brakes may have caused brake failure.
- Operating Temperature- Too much operating temperature or surrounding temperatures also cause bursting of pipes
- Operating Temperature ( The dumper truck has been operating from more than 8 hours ) High heat conditions may have an adverse effect on hoses by degrading the rubber, which limits a hose's usefulness
- Lack of Pre-Checks by Driver, There is no concept of vehicle prechecks before daily use, most of the drivers are not well trained on maintenance of vehicles
- Lack of Supervision- Supervisors responsible for monitoring the activity is not monitoring the good conditions of their vehicles.
- Lack of Mechanical inspection of vehicles by Sub Contractors responsible persons.
- Lack of Mechanical maintenance by Department of Contractor and Sub Contractors End

# Gulpur Hydropower Project

## Safety Alert EPCC HSE Department

- Lack of commitment from Sub Contractor Management in dealing with mechanical issues

### **RECOMMENDATIONS**

To meet occupational health and safety obligations it is expected that all heavy equipments and vehicles shall be maintained well in good mechanical condition.

The EPCC and Sub Contractor must maintain their vehicles and inspect at least once a week by mechanical incharge for its fitness.

The EPCC and Sub Contractors must ensure that Health safety requirements are fulfilled for heavy vehicles.

For mechanical maintenance EPCC suggests that Sub Contractors:

EPCC suggest the vehicle drivers to not adjust brakes when hot or over-heated.

EPCC suggest Re-line and complete any brake work in axle sets.

EPCC suggest Re-line linings before they wear out.

EPCC suggest Do not attempt to remove oil contamination by burning linings.

EPCC suggest When making any repairs at the wheel-end such as:

1. re-lining brakes
2. replacing cams or cam bushes
3. Replacing return springs.

Measure critical items and check they are within the limits set by the manufacturer

Do not ignore the performance of the air valves in the brake system. Check the air supply system:

1. is working as it should, e.g. compressor capacity
2. for any evidence of chambers hanging up or actuating slowly
3. is fitted with replacement valves of the correct type and crack pressure
4. For damaged hosing, restrictions and kinks, etc.

# SAFETY ALERT EPCC

## Dumpers Tip Over During Unloading Activity



### INCIDENT

On 1<sup>st</sup> and 12<sup>th</sup> November 2015 Sub-Contractor Dumper truck tip over during unloading activities at two separate places due to disposal on loose ground as well as on uneven surface.

Luckily at both accidents/incidents both the drivers of Sub-Contractors remained safe due to seat belts wearing.

**CIRCUMSTANCES.** Due to unlevelled ground surface one of the dumper truck tip over while the other dumper due to dumping on loose soil tip over. *This Safety Alert is a follow-up to previous safety alerts by EPCC at GHPP.*

**INVESTIGATION** The investigation found that disposal does not meet the standards and requirements of safety while dumping.

- Untrained drivers: Driver driving dumpers were unaware of the loose soil hazard and vehicle tip over on similar surfaces.
- Helper: Dumpers were missing helpers to assist drivers in safe and proper reversing of vehicle and spotting of loose surface/uneven surfaces.
- Improper and lack of supervision at site by site supervisors.
- Not maintaining safe distance from loose un-compacted soil surfaces.



# Gulpur Hydropower Project

Safety Alert EPCC HSE Department

## **Common Reasons for Tip Over of Dumpers:**

- Dumping on unlevelled ground surface
- Large amount of material is in the upper portion of the raised box
- Material does not flow out of the top portion of the box, or does not flow out of one side of the top portion;
- The rear wheels settle unevenly as the load moves to the rear during dumping; or
- Wind may exert lateral loads, especially if the box is long, as is the case with end-dump semi-trailers.

## **Stability may also be affected by the unit's mechanical condition:**

- Poor rear suspension systems on one side of the vehicle;
- Uneven tire pressures in rear wheels;
- Worn or inadequate components of the lifting system such as pins; or
- Worn or inadequate lifting cylinders.

## **RECOMMENDATIONS**

Because of stability problems with semi-trailers, they should not be used for haulage to rough grading or fill areas where surfaces are often uneven or loosely compacted. During winter, loads should not be left in dump boxes overnight.

### **Maintenance**

Preventive maintenance can play an important role in preventing vehicle tip-overs

- Check tire pressures daily. Tire pressures should be equal on each side of the vehicle, according to manufactures' recommendations
- Examine and lubricate pins and bushings regularly.
- Inspect suspension systems under load to ensure that they work properly and provide even suspension. Weak suspension systems should be replaced immediately.
- Inspect hoist cylinders regularly. Worn cylinders should not be replaced with smaller cylinders or with cylinders rated at lower operating pressure.
- Make sure that repairs to boxes leave bottom and sides clear and unrestricted. Rough patchwork repairs near the top of the box can catch and hold sticky materials.

### **Loading**

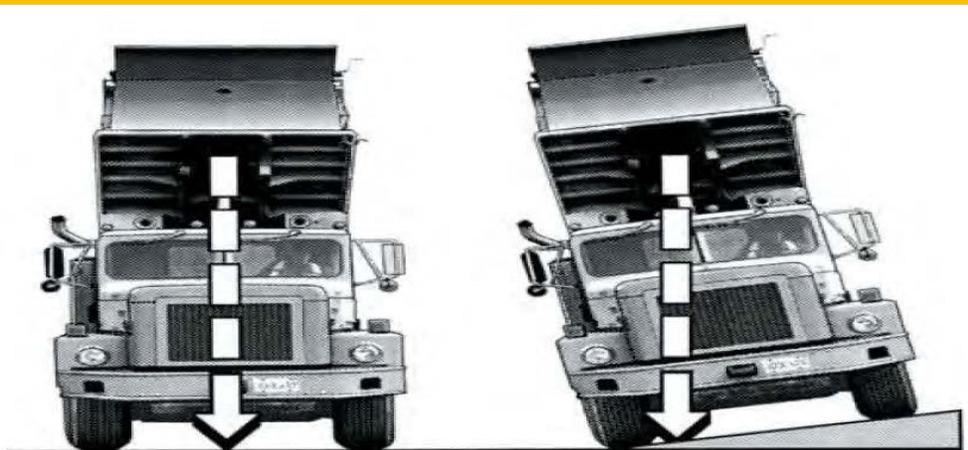
# Gulpur Hydropower Project

## Safety Alert EPCC HSE Department

- Loading of the box from front-to-back must meet allowable gross weight and axle weight limitations set by the Texas Department of Transportation.
- If material is likely to flow poorly, lighten up the load in the top end of the box. A slightly smaller load will be better than a full load that causes a tip-over. Box liners help most materials flow better during dumping. Liners also help to keep the box in good condition.

### Dumping

- Operators should be trained to recognize areas hazardous to dumping, such as soft or uneven surfaces and inadequately compacted fill.
- Before dumping, operators should ensure that the tailgate is unlocked and that the vehicle is on a reasonably level surface. Dumping on surfaces that are not level is one of the main causes of tip-overs.
- Before spreading material by dumping it from a moving truck, make sure that the entire length of travel is reasonably level.
- Trucks should not dump when they are parked side by side with another vehicle. When a dump unit tips over, it is often the operator in the adjoining vehicle that is injured.
- Dumping operations should be spread out to avoid possible injury.
- Other personnel such as dozer operators, surveyors, and spotters should be warned not to work near a dumping truck in case it tips over.
- Workers should not congregate in areas where dumping is under way.



*A slight slope can be enough to cause tipping if material sticks in the top of the box.*

# Near Miss Investigation Report

Preliminary <input type="checkbox"/>		Final	
Date	12/11/2015	Report No.	PK-27
Client	Mira Power Ltd.	Project Title	Gulpur Hydropower Project (GHHP)
Work Type	Material loading / unloading		
	Location	Dumping area ( Community )	

CLASSIFICATION (tick the box/as as appropriate)			
Incident	<input type="checkbox"/>	Material Loss	<input type="checkbox"/>
Near Miss (NM)	<input type="checkbox"/>	Fire / Explosion	<input type="checkbox"/>
FAT (Fatality)	<input type="checkbox"/>	Property Damage	<input checked="" type="checkbox"/>
LTI (Loss Time Injury)	<input type="checkbox"/>	Environmental Damage	<input type="checkbox"/>
RWC (Restricted Work Case)	<input type="checkbox"/>	Security	<input type="checkbox"/>
MTC (Medical Treatment Case)	<input type="checkbox"/>	Fatality/Injury/Property Damage to Third Party	<input type="checkbox"/>
FAC (First Aid Case)	<input type="checkbox"/>	Occupational Illness	<input type="checkbox"/>
RTA (Road Traffic Accident)	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>

GENERAL INFORMATION	
Incident Reported by	Asif Nawaz (Out Source Health Safety Officer-Batching Plant)
Time of Incident	0850 AM
Date of Incident(DD/MM/YY)	12/11/2015
Local Weather	Clear
Hours worked in the day before incident	02 hours Day shift
Work area or location of incident	Out side of Project (Community Area)
Activity Performed when incident	Material loading / unloading
Job type of injured personnel	Driver
Category of incident	Vehicle Accident
Injured personnel in experience group	15 years
No. of Injured Personnel	0
Investigation Details:	Investigated by: Asif Nawaz (Out Source Health Safety Officer-Batching Plant)
	Dates: 12/11/2015
	Conducted at: Gulpur Hydropower Project Site

PERSON INJURED						
Name	Job Title	Department	Supervisor	Injuries	Working Days Restricted or transfer	Working Days Lost
N/A	N/A	N/A	N/A	N/A	Nil	Nil

PROPERTY DAMAGE			
Item	Damage Description	Estimated Loss	Total Estimated Loss
Dumper	wind screen, side mirrors, indicators and some other parts of dumper broken. Diesel spill on the	50,000	US\$50,000

**SUMMARY OF EVENTS IMMEDIATELY BEFORE THE INCIDENT**

Toolbox meeting was held at 07:00 A.M. at main toolbox area ground where all Pir & Co staff attended the meeting. Relevant hazards regarding mucking, transportation and unloading were discussed with the staff. After the blasting activity mucking and transportation of materials started for Per & Co. Per & Co dumpers started to dispose the material at community land. The transportation route for community disposal is highlighted in the map attached for loading and unloading activities in Picture-1 . Work starts only two hours before the incident.

**DESCRIPTION OF THE INCIDENT**

At 0800hrs the dumpers of Per & Co started disposing the excavated material at the approved spoil tip areas. In this regard the Dumper (C3396) driven by Mr. Imia headed towards the community land for disposal. The driver was experienced driver for more than 15 years with heavy traffic vehicles.

During his second trip when the dumper reached disposal area at 0845hrs, the driver parked the vehicle near the agreed disposal point. He moved out of the vehicle to check the area where dumper was parked. He wanted to assure the balance of the vehicle which he did and returned to his vehicle. He found the place unsuitable for unloading and moved to second location. The driver started the vehicle and moved the vehicle in reverse and then a little forward. This time he did not moved out of the vehicle and started to unload the material by pushing the lever. As he pushed the lever after parking at selected area without going down, the dumper slowly turned to one side. The left tire of dumper penetrated in

pushed the lever after parking at selected area without going down, the dumper slowly turned to one side. The left tire of dumper penetrated in loose soil and due to uneven surface the dumper stability was lost. The dumper tip over. The driver was wearing seat belt and become unconscious. A helper near by came to rescue him at the site and immediately pulled him out for medical response. The worker was in good health.

Immediately the driver called the Clinic and informed the medical team. The patient was transported to clinic for check and found healthy with minor injuries.

The driver was given first aid in the clinic and investigation process was initiated by involving the management and team members.

Some of the findings of investigation are

- Un supervised unloading activity
- Absence of helper for unloading activity
- Non stable ground surface/loose compacted soil where disposal was carried out
- Uneven surface of the ground where disposal was carried out
- Probability of load factor
- Uneven distribution of disposal material in the dumper truck trolley.

#### DETAILS OF INJURIES AND/OR DAMAGE

Driver was safe and got no injury of any type. Wind screen, side mirrors, indicators and some other parts of dumper broken. Diesel spill on the surface. Left side of driver cabin and material bucket hit directly at the surface.

#### DIRECT CAUSE OF INCIDENT

1. Unloading activity
2. Unloading at uncompacted loose surface

**INDIRECT CAUSES OF INCIDENT**

1. Absence of Helper
2. Absence of supervision staff
3. Absence of Health Safety Inspector for Sub-Contractor
4. Lack of training by technical team of Sub-Contractor
5. Load factor
6. Uneven distribution of disposal material in the dumper truck trolley.

**ROOT CAUSES OF INCIDENT**

1. Lack of commitment regarding safety protocols from Sub Contractor (Per & co) Management in implementation of HSE protocols.

No.	Corrective Action	Responsible Parties	Target Date
1	<b>Discussion in Toolbox</b> The incident to be discussed in the Toolbox for general information of the workers at Gulpur Hydropower Project Site	HSE Team Daelim	
2	<b>Training of sub-contractor Staff</b> Subcontractors (Per & Co) drivers, helper and banks man to be trained.	HSE Team EPCC & Pir & Co	
3	<b>Trained and Competent Staff</b> Sub Contractor to involve trained and competent staff to ensure safe operations	Construction EPCC	
4	<b>Meeting with Sub-Con</b> Sub Contractor to attend meeting on the EHS matters related to safety	Construction EPCC	

**SIGNATORY**

Title	Project Manager	Site Manager	Health Safety Manager EPCC
Name(Print)	MR. DONGHO LEE	MR. KIM HYUNG CHAN	MR.SAHIBZADA TANZEEL AHMED
Signature			

**PHOTOGRAPH & OTHER EVIDENCE of INCIDENT**



loose un compacted surface for unloading activity caused tyre to pressed into soil

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## Exhibit 06 – Road Traffic Accidents

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# SAFETY ALERT EPCC

## Brakes Failure due to lack of maintenance and mechanical care

**INCIDENT** A truck driver survived injuries at a Gulpur Hydropower Project (GHPP) while driving back from spoil tip area after disposal of material. The brakes failed on difficult mountain terrain.

The truck Sub Contractor Diver was driving and failed to negotiate a corner and hit mountain ditch on right side of driver. **CIRCUMSTANCES** The truck was unloaded from material when the incident occurred. The truck driver saved ten people while changing direction and hitting ditch *This Safety Alert is a follow-up to previous safety alerts by EPCC at GHPP.*

**INVESTIGATION** The investigation found that compliance with mechanical and safety requirements is not met by the Sub Contractor while operating vehicles. The standard practice of pre-checks of vehicles before use by driver, mechanical inspection by supervisors are not maintained.

- Brakes Failure- Caused the dumper hydraulic pipe to release pressure and thus fluid
- Increase operating pressure- operating pressure while too much application of brakes may have caused brake failure.
- Operating Temperature- Too much operating temperature or surrounding temperatures also cause bursting of pipes
- Operating Temperature ( The dumper truck has been operating from more than 8 hours ) High heat conditions may have an adverse effect on hoses by degrading the rubber, which limits a hose's usefulness
- Lack of Pre-Checks by Driver, There is no concept of vehicle prechecks before daily use, most of the drivers are not well trained on maintenance of vehicles
- Lack of Supervision- Supervisors responsible for monitoring the activity is not monitoring the good conditions of their vehicles.
- Lack of Mechanical inspection of vehicles by Sub Contractors responsible persons.
- Lack of Mechanical maintenance by Department of Contractor and Sub Contractors End

# Gulpur Hydropower Project

## Safety Alert EPCC HSE Department

- Lack of commitment from Sub Contractor Management in dealing with mechanical issues

### **RECOMMENDATIONS**

To meet occupational health and safety obligations it is expected that all heavy equipments and vehicles shall be maintained well in good mechanical condition.

The EPCC and Sub Contractor must maintain their vehicles and inspect at least once a week by mechanical incharge for its fitness.

The EPCC and Sub Contractors must ensure that Health safety requirements are fulfilled for heavy vehicles.

For mechanical maintenance EPCC suggests that Sub Contractors:

EPCC suggest the vehicle drivers to not adjust brakes when hot or over-heated.

EPCC suggest Re-line and complete any brake work in axle sets.

EPCC suggest Re-line linings before they wear out.

EPCC suggest Do not attempt to remove oil contamination by burning linings.

EPCC suggest When making any repairs at the wheel-end such as:

1. re-lining brakes
2. replacing cams or cam bushes
3. Replacing return springs.

Measure critical items and check they are within the limits set by the manufacturer

Do not ignore the performance of the air valves in the brake system. Check the air supply system:

1. is working as it should, e.g. compressor capacity
2. for any evidence of chambers hanging up or actuating slowly
3. is fitted with replacement valves of the correct type and crack pressure
4. For damaged hosing, restrictions and kinks, etc.

Preliminary <input type="checkbox"/>		Final <input checked="" type="checkbox"/>	
Date	08/01/15	Report No.	PK-15
Client	Mira Power Ltd.	Project Title	Gulpur Hydropower Project (GHHP)
Work Type	Transportation of excavated material	Terrain	Main road
		Location	Main road behind Joint restaurant

CLASSIFICATION (tick the box/es as appropriate)			
	Near Miss (NM)	<input checked="" type="checkbox"/>	Material Loss
	FAT (Fatality)	<input type="checkbox"/>	Fire / Explosion
	LTI (Loss Time Injury)	<input type="checkbox"/>	Property Damage
	RWC (Restricted Work Case)	<input type="checkbox"/>	Environmental Damage
	MTC (Medical Treatment Case)	<input type="checkbox"/>	Security
	FAC (First Aid Case)	<input type="checkbox"/>	Fatality/Injury/Property Damage to Third Party
	RTA (Road Traffic Incident)	<input type="checkbox"/>	Occupational Illness
		<input type="checkbox"/>	Other

GENERAL INFORMATION	
Incident Reported by	Mr. Tariq Daelim driver
Time of Incident	8/1/2015 3:15
Date of Incident(DD/MM/YY)	1/0/1900
Local Weather	.
Hours worked in the day before incident occurred	8
Work area or location of incident	Box Culvert
Activity Performed when incident happened	After unloading the excavated material the dumpers (Dix 1275) driver Mr. Shair Afzal was coming back to project site area
Job type of injured personnel	Driver
Category of incident	Near Miss Incident
Injured personnel in experience group (years)	5
No. of Injured Personnel	N/A
Investigation Details:	Investigated by: M. Saboor Khan (Health and Safety Inspector )
	Dates: 08/02/15
	Conducted at: Gulpur Hydropower Project Site

PERSON INJURED						
Name	Job Title	Department	Supervisor	Injuries	Working Days Restricted or transfer	Working Days Lost
Hafiz Abbas	Supplier	N/A	N/A	FAC	N/A	N/A

PROPERTY DAMAGE			
Item	Damage Description	Estimated Loss	Total Estimated Loss
	dumper's shock absorber, battery, window, bumper, driver cabin and windscreen	100000	100000PKR

**SUMMARY OF EVENTS IMMEDIATELY BEFORE THE INCIDENT**

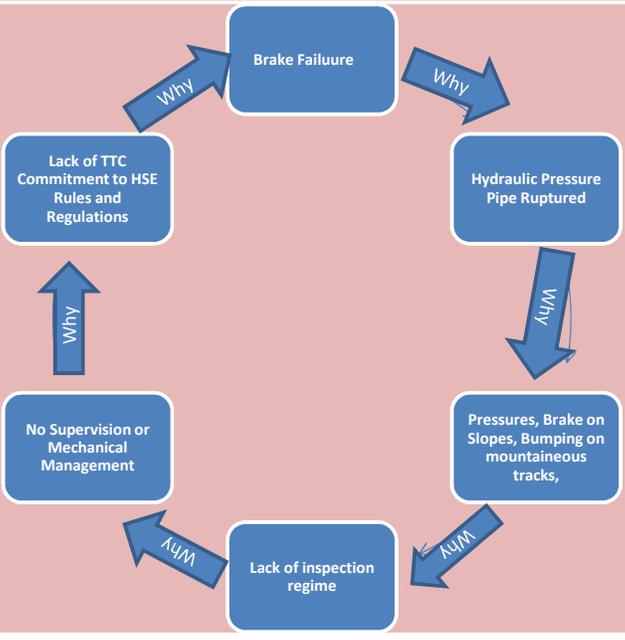
Unlike everyday toolbox talk was conducted with Sub Contractor regarding daily activities and associated hazards on 2 August. The Techno Times Construction team including dumper drivers attended the daily toolbox. The duty for transportation of material was conducted under the supervision of Hamidullah. At 1515 Hours Mr. Shair Afzal after loading muck material moved his dumper towards spoil Tip area C. After offloading the disposal material the dumper returned. During his return from the spoil tip while the dumper was returning it lost control due to brake failure.

DESCRIPTION OF THE INCIDENT			
<p>The supervisor in charge for the transportation activity was Mr. Hameedullah. The excavation activity was resumed after lunch break at 1515hrs. At 1515 Hours Mr. Shair Afzal with helper Waheed-u-Rehman after loading the dumper (DIR 1275) moved towards soil tip area driving on weir access road and main road. The dumper reached at 1535hrs to the spoil tip and after dumping the material returned from the spoil Tip-C. According to witnesses and driver statement the dumper was driven at speed of 25kmph. When driver of the dumper cross the view point and reached the corner beside ditch the brake system failed.</p> <p>The helper jumped from the dumper while driving during the turn, while Mr. Shair Afzal kept on driving. During the second turn by driver, two visitors vans were parked by locals for visiting project site from outside premises. The driver took turn and saved two standing vehicles and persons and hit the mountain ditch on his right side to stop the dumper movement.</p> <p>According to investigation and site visit, damage to the dumper's shock absorber, battery, window, bumper, driver cabin and windscreen was observed after the incident. The driver and helper remained safe during the incident.</p> <ul style="list-style-type: none"> <li>• After the accident HSE department reached the accident site on spot and barricaded the area.</li> <li>• Area was barricaded properly to reduce hazards of traffic.</li> <li>• Temporary blockade of traffic was done to reduce traffic accidents further.</li> <li>• Two signal men were designated at both sides of accident location to control traffic movements.</li> <li>• Security guards/police provided to ensure safety and property of damaged vehicle and mob and reduce law and order situation.</li> <li>• Ambulance was called at the project site to handle any kind of serious emergency situation.</li> </ul>			
DETAILS OF INJURIES AND/OR DAMAGE			
N/A			
DIRECT CAUSE OF INCIDENT			
1: Failure of brakes 2: Loss in control of vehicle			
INDIRECT CAUSES OF INCIDENT			
1:Lack of mechanical maintenance by Sub Contractor of vehicles involved in Gulpur Hydropower Project 2: Lack of mechanical inspections by Contractor and Sub Contractor mechanical department 3: Unavailability of workshop for mechanical maintenance 4: Lack of inspections (pre use checks) by the subcontractors drivers, supervisors and site incharge			
ROOT CAUSES OF INCIDENT			
Lack of commitment by the Sub Contractor Project Manager in resolving the mechanical maintenance issues on time even upon several times highlighted by HSE department EPCC			
CORRECTIVE ACTION PLAN			
No.	Corrective Action	Responsible Parties	Target Date
1	<b>Discussion in Toolbox</b> The incident to be discussed in the Toolbox for general information of the workers at Gulpur Hydropower Project Site	EHS Daelim	03.08.2015 Completed
2	<b>Training of sub-contractor Staff</b> The sub-contractor (TTC and SAMBU) drivers and relevant staff shall be trained on the safe Driving.	Sub Contractors	05.08.2015 Completed
3	<b>Mechanical Inspection</b> The sub-contractor (TTC and SAMBU) drivers and relevant staff shall conduct pre check inspection of their heavy equipment before use and maintain record.	Sub Contractors	05.08.2015 In Complete
4	<b>Mechanical Inspection Contractor</b> The mechanical department of Contractor to conduct random inspections of Sub Contractor Vehicles	Sub Contractors	05.08.2015 In Complete
5	<b>Meeting with Site Management EPCC and Sub Contractors</b> HSE department EPCC to conduct meeting with Sub Contractors and Daelim Management on the root causes of road traffic incident	Sub Contractors	05.08.2015 In Complete
6	<b>HSE Department Safety Inspections</b> The HSE department to conduct heavy vehicles inspection of all dumpers for safety purposes.	EHS Daelim	05.08.2015 In Complete
SIGNATORY			
Title	<b>Project Manager</b>	<b>Site Manager</b>	<b>Health Safety Manager EPCC</b>
Name(Print)	MR. DONGHO LEE	MR. KIM HYUNG CHAN	MR.SAHIBZADA TANZEEL AHMED
Signature			

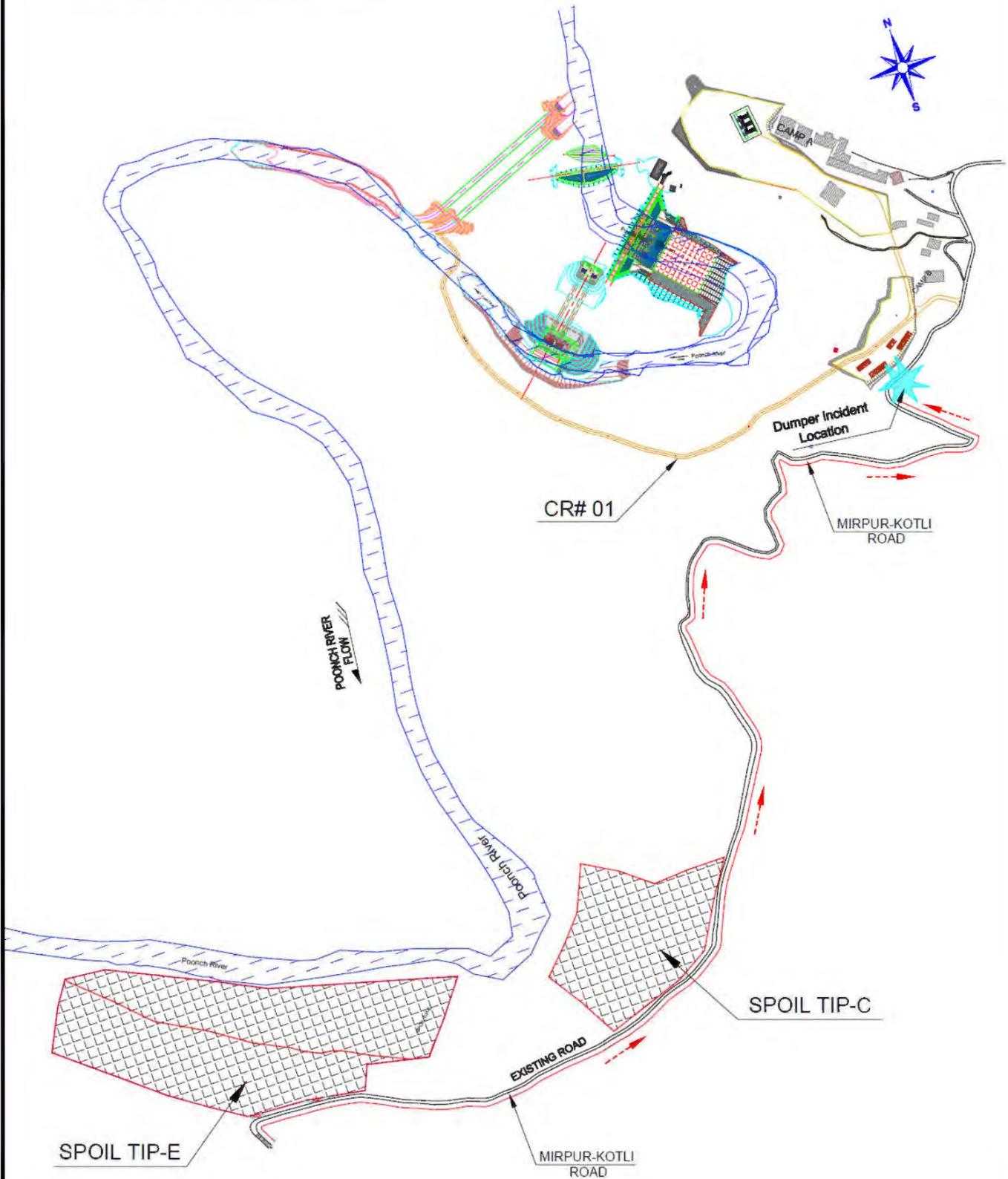
PHOTOGRAPH & OTHER EVIDENCE of INCIDENT



Cause Analysis of Dumper Hydraulic Pipe Failure



**TRAFFIC ROAD INCIDENT MAP**





Brakes Failure- Caused the dumper hydraulic pipe to release pressure and thus fluid

Lack of Supervision- Supervisors responsible for monitoring the activity are not monitoring the

Increase operating pressure- operating pressure while too much application of brakes may have caused brake failure.

Lack of Mechanical inspection of vehicles by Sub Contractors

Operating Temperature- Too much operating temperature or surrounding temperatures also cause bursting of pipes

Lack of Mechanical Department Contractor and Sub Contractors End

Operating Temperature ( The dumper truck has been operating from more than 8 hours ) High heat conditions may have an adverse effect on hoses by degrading the rubber, which limits a hose's usefulness

Lack of commitment from Sub Contractor Management in dealing with mechanical issues

Lack of Pre-Checks by Driver, There is no concept of vehicle prechecks before daily use, most of the drivers are not well trained on maintenance of vehicles

Lack of Pre-Checks by Driver, There is no concept of vehicle prechecks before daily use, most of the drivers are not well trained on maintenance of vehicles

### Root Cause Analysis

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## **Exhibit 07 – Fire Incidents**

(Please see the next page)

# Fire Incident Investigation Report

# ACCIDENT INVESTIGATION REPORT

**DAELIM LOTTE E&C**

Preliminary	v		Final		
Date		29/6/2015	Report No.	PK-11	
Client		Mira Power Ltd.	Project Title	Gulpur Hydropower Project (GHHP)	
Work Type		Mechanical Work	Terrain	Mountaneous	
			Location	Powerhouse Ridge Top	

## ICATION (tick the box/es as appropriate)

			Material Loss	v		
	Near Miss (NM)		Fire /	v		
	FAT (Fatality)		Property			
	LTI (Loss Time Injury)		Environmenta			
	RWC (Restricted Work Case)		Security			
	MTC (Medical Treatment Case)		Fatality/Injury/			
	FAC (First Aid Case)		Occupational			
	RTA (Road Traffic Accident)		Other			

## GENERAL INFORMATION

Incident Reported by	Sahibzada Tanzeel Ahmed (Health Safety Manager)				
Time of Incident		23:30hrs			
Date of Incident(DD/MM/YY)		29/6/2015			
Local Weather		Clear weather			
Hours worked in the day before		3 hours			
Work area or location of incident		Powerhouse Ridge			
Activity Performed when incident		Excavation			
Job type of injured personnel		Not Applicable			
Category of incident		Mechanical			
Injured personnel in experience		Not Applicable			
No. of Injured Personnel		Not Applicable			
Investigation Details:	Investigated by:	Sahibzada Tanzeel Ahmed (Health Safety Manager)	Mr. Nam (Heavy Equipment Manager)		
	Dates:	29/6/2015			
	Conducted at:	Gulpur Hydropower Project Site	Powerhouse Ridge/ Restaurant and EPCC Office		

## PERSON INJURED

Name	Job Title	Department	Supervisor	Injuries	Working Days Restricted or transfer	Working Days Lost
N/A	N/A	N/A	N/A	N/A	N/A	N/A

## PROPERTY DAMAGE

Item	Damage Description	Estimated Loss	Total Estimated Loss
	CAT excavator		300,000 USD

## SUMMARY OF EVENTS IMMEDIATELY BEFORE THE INCIDENT

Toolbox activity was held at Toolbox Meeting ground at 20:30 hrs on 29th June 2015. The meeting was attended by Sambu construction staff along with Techno Times Construction Staff. General work related hazards along with observation from previous evening were discussed with everyone. HSE team EPCC was monitoring CR-01 access tracks , Weir Access Track, buildings and Powerhouse Ridge.

## SUMMARY OF EVENTS IMMEDIATELY AFTER THE INCIDENT

On 29th June 2015 at approximately 23:30 hrs Health Safety Department EPCC responded to excavator fire located at Powerhouse Ridge Top construction area. EPCC Health Safety Manager discovered fire and reported Emergency Response Team (ERT) for fire control at 23:45hrs. The onsite supervisor and excavator operators extinguished the flames on advice of HS Manager by disposing loose soil on the excavator fire at 23:45hrs.

EPCC HSE department initiated rescue at 23:50hrs by mobilizing rescue vehicle of HSE and Sub-Contractor (Sambu) to accident location. The accident location is located at Powerhouse ridge with road travel distance of 15 min and 15 min mountain hiking. ERT Team with Foam, CO2 and ABD fire extinguishers rushed to site in 30 min. The accident location does not have any light or heavy vehicle access track for fire bridge/vehicle rescue.

At 00:10hrs on 30th June 2015, fire at Excavator begin to instigate again. ERT Team along with fire fighting team of EPCC reached accident location at 12:20. The fire at mountain top blazed added and started with more flames and covered whole excavator.

Health Safety department evacuated the accident location by providing clear access with proper lightening to all workers with proper head count at powerhouse ridge. 18 Sambu, 3 Techo Times Construction, and 4 EPCC HSE staff were initially present at the top. All accessible areas from the bottom were sealed at 00:15hrs to avoid any unauthorized entry into high risk area of excavator on fire.

At 00:30 hrs, all staff evacuated the area except Sambu Korean Management along with supervisory staff who were reluctant to evacuate area on instructions of Health Safety Manager. Several warnings were issued to Sambu workers to avoid any human accident which may happen because of explosion of excavator fuel tank. After several warnings to Sub-Contractor staff HS Manager EPCC evacuated area due to risk of bleve explosion in fuel tank of excavator.

The excavator was still ablaze probably due to diesel in tank therefore 100m radius of safety protection was provided. The operator subsequently evacuated the excavator by jumping 1.5 meters to the ground and was not injured. No one was allowed to extinguish high flames which pose more risk of probable human injuries.

At 03:00hrs on 30th June 2015, Sambu Management along with supervisors evacuated the accident location on Powerhouse top ridge.

Initiatives taken immediately.

- Provided safety radius at accident location of 100m for personnel.
- EPCC provided Health Safety emergency communication and information about accident to Client and relevant persons as per HSE procedures.
- Provided fire watch and Health Safety inspector at bridge location to monitor fire.
- Provided fire barrier of dry grass free zone between inferno excavator area and west of powerhouse ridge area which has dry grass and one standby excavator during time of accident.
- Provided additional firefighting equipment at top to fight fire spreading in case of bleve explosion of excavator fuel tank.
- Additional information to local Fire Fighting Department in case of help and standby.

Preliminary Investigation findings:

HSE department conducted on-spot preliminary accident investigation at 01:30hrs on 30th June 2015 by involving excavator operator of Excavator No-11 Sambu (Mr. Shouqeen) and other relevant staff. The findings and discrepancies were observed.

- The excavator was operating without helper at night that might have spotted the fire at first sight.
- No signalman was present at the accident location.
- Fire instigated from the battery box of excavator.
- Battery box was lock when fire instigated.
- Excavator operator did not spotted fire at insipient stage but due to burning smell of plastic moved out of excavator.
- Excavator operator could not open battery box and it exploded from inside (probably battery explosion)
- The fire spread very quickly in the Battery Box which was tried to quench with soil dumping from another excavator due to bigger scale of fire spreading.
- No record for mechanical or electrical wiring inspection record maintained by Sub Contractor.
- The excavator was not fitted with an automatic fire suppression system.
- There were fire extinguishers in immediate premises but not inside excavator for quenching insipient stage fire.

1. There was no environmental damage to surrounding vegetation or sensitive habitat.
2. No major oil spillages were observed in the immediate area.

Summary of Detailed Technical Investigation Report with Mechanical & Health Safety Team:

The examination of fire scene was conducted by HSE Manager using a systematic approach with appropriate attention provided to all relevant details. Burn patterns were observed and fire tracking was done which presented Battery Box as area of fire instigation.

Upon investigated of burned excavator, it was observed the heavy machine has hydraulic and fuel pipes present in almost every section. For example the Batter Box has hydraulic lines crossing along with electrical wirings. Combustible material (sponge, plastic structures) are present inside the battery box.

Theory 1: Due to electrical wiring inside battery box sparks generated, combustible sponge and other combustible material caught fire due to presence of oxygen inside. This theory is supported of the fact due to the presence of electrical wirings, combustible material and oxygen in battery box. Only explosion of Battery box was observed by the excavator operator when he approached the Box while the Battery Box was locked. Hydraulic lines were present around the battery box having non fire resistant fluid inside it prone to fire.

Theory 2: Inside the battery box the acid battery might have exploded and the HS2SO4 acid affected the hydraulic pipes along with the combustible material present inside. The essential components of fire instigated the event and thus fire spread from sides affecting the hydraulic pipes near spin motor and engine area along with abutted compartment of fuel reservoir.

#### DETAILS OF INJURIES AND/OR DAMAGE

CAT Excavator fully damaged and burnt

#### DIRECT CAUSE OF INCIDENT

- 1: Spark generation inside Battery Box
- 2: Presence of combustible material inside Battery Box
- 3: Presence of hydraulic lines along with diesel supply lines in different sections

#### INDIRECT CAUSES OF INCIDENT

1. Absence of Excavator Helper
- 2: Absence of Signalman
- 3: Absence of Fire fighting equipment inside excavator
4. Presence of combustible materials inside Battery Box

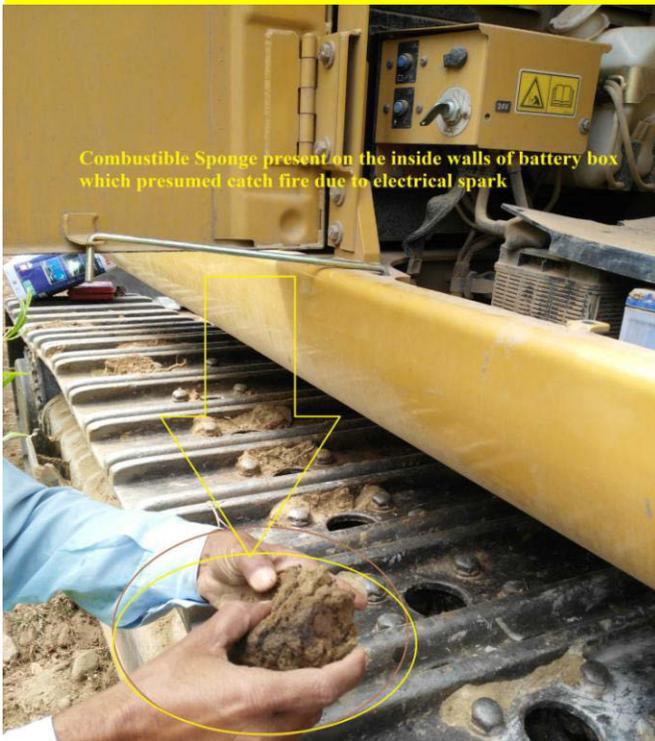




**View of Excavator Battery Box**



**View of Spin Motor Zone which lies near to Battery Zone**



**Sponge combustible material on inside walls of battery box**



**View of burnt excavator**

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**Exhibit 08- Grievance**

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(Please see the next page)

Date	Name	Compalint	Ref-No	Concerned Department	Forwarded	Action Taken
1/Dec/15	Niaz Mund	Complain regarding sand extraction from River	Agreement was made between Niaz Mund & Muhammad Khaliq(owner of land) for the extraction of sand. And it was finalized that Niaz Mund will give 4000 in advance and 4000 after completion of the year. But because of GULPUR Hydrel project there work is disturbed so they are requested for proper access for working. Mr Niaz Mund insured that they create no problem in safe working of project			
7/Dec/15	Hussan Jhangir	Regarding Miss behavior	During normal working on GULPUR Hydrel project MR.Lee a korean kiks a worker He is requesting for take action against him			
13/Nov/15	Muhammad Azeem	Fire from job without solid reason.	Mr Azeem is local and working with peer & co an accident occurred on 12-11-2015 and company discharge three drivers including Mr Azeem without proper investigation and according to Mr Azeem this is not fair,so he is requesting Manager to take step in solving this issue. Mr Azeem also said in his complaint that these un fair behaviour with Locals can create many problems which ultimately affect the working environment of Project and may cause other serious issues.			
30/Sep/15	Inayat Khan	Regarding Miss behavior	Mr Inayat Mess incharge said that one day a man name Mr Hanif who may be is a worker came to Mess for breakfast.As incharge of the Mess I asked him about his company.He told that he is employe of Daelim but he is not in list I told him that your name is not in list meanwhile he enter the kitchen and start insulting me Mr Inayat is humbly requested that he need safety from Mr Hanif and also from his son Abbas who is also involved in this issue			
6/Aug/15	Muhammad Faraan	Fire from job without solid reason.	Muhammad Faran, Muhammad Hafeez & Muhammad Khalid are drivers of TTC they are locals,these people are complaning about discrimination made between them and other drivers.They are very dis heart with this behaviour of company. So requested strongly that proper action should be taken against TTC managment Muhammad Idrees is worker of Daelim and working as a welder he is complaning abou rude and non professional behaviour of Mr. Zahid on 5-8-2015 during work he is injured and he gone to doctor for proper treatment.			
7/Aug/15	Muhammad Idrees	Regarding Miss behavior by Mr Zahid	After this he requested Mr.Zahid for rest but he behaved to Muhammad Idrees in very non professional way and give him threat that i will fire you from your job. Muhammad Idrees is requesting for proper action. Mr yoon Tae Hak said that proper and necessary steps should be taken in order to stop soil disposal along Poonch River as this is very sensitive issue and one single incident of violation could be disastrous for the project. And also from environment point of view this is very necessary so Mr Yonn said that all sub con,s should be properly instructed in this regard and extra precautions should be taken			
22/Jun/15	Yoon Tae Hak	Soil Disposal along poonch river	Mr Abdul Rziq said:I am a B.SC civil Engineer and I have a working experience of one year as a site engineer.about two weeks ago I have got a call for interview in SAMBU for job Mr Lee took my interview and also finalize about my salary and told me that he will call me , it has been learnt through reliabe sources that Mr. Lee have selected some other persons which are less qualified than me. being a resident of Kotli I have every right to join this project. He is requested that notice on such attitude of SAMBU must be taken and give him a chance Mr Tanveer is local and working for more then 20 days but no attendance card is issued to him so he is requested for help in this regard			
25/Jun/15	Engr Abdul Raziq	Rejection from Sambu	Mr Ayaz(Aps) said that he is a Associate Engineer and was very happy that he will be rewarded & considered an priority basis by EPCC in shape of jobs and other services.according to Mira power commitments & promises during the land acquisition. But he is shoked & grieved that operational & functional compaies did not consider our neighbour status by not taking any kind of services. He is requesting humbly to take action			
28/Jun/15	Tanveer Mansoor	Attendance card	Mr Furqan is complaning about non professional way of working of blasting team as blasting work is very sensitive work so proper steps should be taken. In this regard he is requesting that notice must be taken against blasting team pipe line issue occurred in recent past and it was settled with daelim that 4 local should be inducted when work start again.working is now start but local are still as it is Mr Shooqat iqbal is very keen that this issue must be solved as early as possible Mumtaz reported that one day during blast few necessary steps regarding safety are not taken by concerned party when I asked about this Mr sabor said me to carry on after blast fly rocks are observed which is dangerous. MR jaffir said that a vehicle LEP 3157 was moving very fast and nearly hit me I saved my life very difficultly He is requested that proper action against driver must be taken			
27/Jul/15	Muhammad Ayaz	ignorance in jobs(local people)				
29/Jul/15	Furqan	Blasting team is not working propely				
9/Apr/15	Shooqat iqbal	Pipe line Agreement Ignorance				
Unknown	Mumtaz Hussain	Mr Saboor ignorance during duty				
Unknown	Jaffir Hussain Shah	Complain regarding rush driving				

Unknown	Muhammad Younis	Complain regarding security violance	Mr Younis said that on mention date a driver name Mazhar is trying to violate the security rules this is not a good sign from security point of view. Due action is necessary
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<b>Name</b>	<b>Date</b>	<b>complaint</b>	<b>Status</b>
M. Abid , H Aziz , Akhtar Hussain & Muhammad Ashraf (Rehmani Mohallah) Barali	11/29/2015	Due to loud voice of blasting we are disturbed , lat day blasting is not acceptable for us . Our houses are also damage during blasting We are requesting to avoid high explosive or loud voice blasts furher night blasting should be prohibited	Issue discussion with Construction team to avoid loud noise levels by adopting good practices.

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**Exhibit 09 – Training**

(Please see the next page)

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# Induction Record Sample

**GulPur Hydropower Project  
EPCC**

**EMPLOYEE HSE INDUCTION FORM**

Name	Haseeb
Nationality	Pakistani
Company	Restaurant
Position	Waiter
Date of visit	Joining: 28.11.15
Duration of visit	

Sr.	Description	
1	<b>Camp/office Facilities and Arrangements</b> <ul style="list-style-type: none"> <li>• Camp/office plan (chart)</li> <li>• Location of fire assembly point, fire extinguishers and clinic</li> <li>• Location of working and restricted areas</li> <li>• Location of clinic &amp; first aid kits</li> <li>• Location of messing, rest, smoking and accommodation areas</li> <li>• Vehicle parking and one-way system., avoid reversing</li> <li>• Camp offices</li> <li>• Working hours &amp; meal times</li> <li>• No tampering with equipment or tools</li> </ul>	✓
2	<b>Incident Prevention &amp; Incident/Hazard/Near Miss Reporting</b> <ul style="list-style-type: none"> <li>• STOP Card reporting system (to report hazards/near misses before accidents occur)</li> <li>• Report ALL incidents to management</li> </ul>	✓
3	<b>Fire Prevention</b> <ul style="list-style-type: none"> <li>• Fire prevention and fire extinguisher use</li> </ul>	✓
4	<b>Environmental Preservation and Poonch River National Park Importance</b> <ul style="list-style-type: none"> <li>• Litter collection and disposal</li> <li>• Environmental Responsibilities</li> </ul>	✓
5	<b>Transport &amp; Travel Rules</b> <ul style="list-style-type: none"> <li>• Seat belt use</li> <li>• Speed Limit</li> </ul>	✓
6	<b>Personal Protective Equipment (PPE)</b> <ul style="list-style-type: none"> <li>• PPE required for the worker/supervisors, coverall, shoes.</li> <li>• PPE required in camp work areas, safety shoes for construction work in the operation and administration areas</li> </ul>	✓
7	<b>Health and Hygiene</b> <ul style="list-style-type: none"> <li>• Reporting illnesses to doctor/Nurse/Paramedic</li> </ul>	✓

8	<b>Heat Management</b> <ul style="list-style-type: none"> <li>• Protective clothing</li> <li>• Water use</li> <li>• Symptoms of heat cramps, heat exhaustion and heat stroke</li> </ul>	✓
9	<b>Emergency Response Procedure</b> <b>Fire</b> <b>Earthquake etc</b>	✓
10	<b>Safety is Everyone Responsibility</b> <ul style="list-style-type: none"> <li>• Discussion</li> </ul>	✓
11	<b>Restricted Areas</b> <ul style="list-style-type: none"> <li>• Restricted Areas in the Project</li> <li>• Protocols in the restricted area</li> </ul>	✓
11	<b>Community Matters</b> <ul style="list-style-type: none"> <li>• Role and Responsibility of employee during community matters</li> <li>• Avoidance of interaction with communities</li> <li>• Role of CSR Representative in the project</li> </ul>	✓
9	Any Questions?	

Signature of Employee M. Haseeb Basim

Signature of HSE Representative: 

Date: 28-11-2015

## GulPur Hydropower Project EPCC

### EMPLOYEE HSE INDUCTION FORM

Name	Zeesam Talib
Nationality	Pakistani
Company	DAELIM
Position	Cad operator
Date of visit	29-11-2015
Duration of visit	10:00 am to 10:30 am

Sr.	Description	
1	<b>Camp/office Facilities and Arrangements</b> <ul style="list-style-type: none"> <li>• Camp/office plan (chart)</li> <li>• Location of fire assembly point, fire extinguishers</li> <li>• Location of working and restricted areas</li> <li>• Location of clinic &amp; first aid kits</li> <li>• Location of messing, rest, smoking and accommodation areas</li> <li>• Vehicle parking and one-way system., avoid reversing</li> <li>• Camp offices</li> <li>• Working hours &amp; meal times</li> <li>• No tampering with equipment or tools</li> <li>• HSE organisation structure</li> </ul>	
2	<b>Incident Prevention &amp; Incident/Hazard/Near Miss Reporting</b> <ul style="list-style-type: none"> <li>• STOP Card reporting system (to report hazards/near misses before accidents occur)</li> <li>• Report ALL incidents to management</li> </ul>	
3	<b>Fire Prevention</b> <ul style="list-style-type: none"> <li>• Types of fire and fire extinguishers type</li> <li>• Fire prevention and fire extinguisher use</li> </ul>	
4	<b>Environmental Preservation and Poonch River National Park Importance</b> <ul style="list-style-type: none"> <li>• Poonch River National Park and Importance</li> <li>• Litter collection and disposal</li> <li>• Environmental Responsibilities</li> </ul>	
5	<b>Transport &amp; Travel Rules</b> <ul style="list-style-type: none"> <li>• Seat belt use</li> <li>• Speed Limit</li> </ul>	
6	<b>Personal Protective Equipment (PPE)</b> <ul style="list-style-type: none"> <li>• PPE required for the worker/supervisors, coverall, shoes.</li> <li>• PPE required in camp work areas, safety shoes for construction work in the operation and administration areas</li> </ul>	
7	<b>Health and Hygiene</b> <ul style="list-style-type: none"> <li>• Reporting illnesses to doctor/Nurse/Paramedic</li> </ul>	

Inductee Number:

8	<b>Weather Management</b> <ul style="list-style-type: none"><li>• Protective clothing</li><li>• Water use</li><li>• Symptoms of heat cramps, heat exhaustion and heat stroke</li></ul>	
9	<b>Emergency Response Procedure</b> <ul style="list-style-type: none"><li>• Fire</li><li>• Earthquake etc</li></ul>	
10	<b>Safety is Everyone Responsibility</b> <ul style="list-style-type: none"><li>• Discussion</li></ul>	
11	<b>Restricted Areas</b> <ul style="list-style-type: none"><li>• Restricted Areas in the Project</li><li>• Current Construction Activities</li><li>• Protocols in the restricted area</li></ul>	
12	<b>Corporate Social Responsibility</b> <ul style="list-style-type: none"><li>• Role and Responsibility of employee during community matters</li><li>• Avoidance of interaction with communities</li><li>• Role of CSR Representative in the project</li></ul>	
9	<b>Any Questions?</b>	

Signature of Employee \_\_\_\_\_



Signature of HSE Representative: \_\_\_\_\_

Date: \_\_\_\_\_

29-11-2015

## Training Record Examples

<b>DAELIM</b>	<b>Gulpur Hydropower Project</b>	MIRA POWER LIMITED
<b>LOTTE E&amp;C</b>		MWH. Owner's Engineer
Attendance Sheet		

Meeting	Training	<input checked="" type="checkbox"/>	Toolbox	
Other			Date: 29-11-2015	

45 mins

S-No	Name	Designation/ Company	Signature
1-	M. Zubair	Mechanic PIR and co	زبير احمد
2-	M. Akhtar	Mechanicist "	m. AS
3-	M. Saleem	Tire man "	محمد سليم
4-	M. Saleem	Welder "	محمد سليم
5-	M. Ahmad	Electrician "	احمد
6-	Saeed Akhtar	Mechanic "	سعد اختر
7-	Mazhar Mehmood	welder "	mazhar
8-	Rafaat	Mechanic "	Rafaat
9-	M. Irfan	Mechanic "	ارфан
10-	M. Khalid	Mechanic "	خالد
11-	Pamsh Ali	Helper "	دانش
12-	Babas Nadeem	Drill opt "	بابا نديم
13-	Awaris Hussain	Helper "	ادريس
14-	Abtal Hussain	Ex. opt "	الطاف
15-	Farman Ali	Dumper Driver "	فرمان
16-	M. Irfan	Dumper Driver "	محمد ارباب
17-	Nouman Khalid	Helper "	نومان
18-	Shahid mehmood	Dumper Driver "	شاهد
19-	M. Zulwainain	Loader Helper "	ذوالقرنین
20-	M. Naveed	Dumper Driver "	نور
21-	Ajmal	Driver "	اجمل
22-	Majid Hussain	Dumper Driver "	ماجد حسين
23-	Ameer Gul	Loader Helper "	امير گل
24-	Zahid Islam	DOZOR operator "	Zahid Islam
25-	Ashfaq Hussain	Dumper Helper "	اشفاق حسين
26-	Saif ur Rehman	Blast helper "	سيف الرحمان
27-	Ghulam Din	" "	غلام دين
28-	Masroof Ahmad	" "	مسروف
29-	Wahed Khan	Shot Fixer "	وہد خان
30-	Nawaz	Blast man "	M. Nawaz Khan
31-	M. Saad	Flag man "	سعد
32-	Nasir Mehmood	Time keeper "	Nasir
33-	M. Wassam	" "	محمد وسام
	Comments/ Topics Fire fighting - Use of fire Extinguishers		



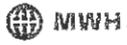
<b>DAELIM</b>	<b>Gulpur Hydropower Project</b>	 MIRA POWER LIMITED
<b>LOTTE E&amp;C</b>		 MWH. Owner's Engineer
Attendance Sheet		

Meeting	Training	✓	Toolbox	
Other			Date: 29.11.2015	

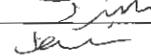
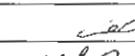
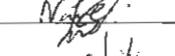
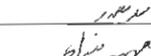
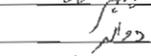
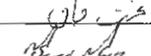
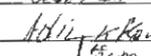
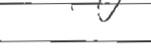
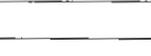
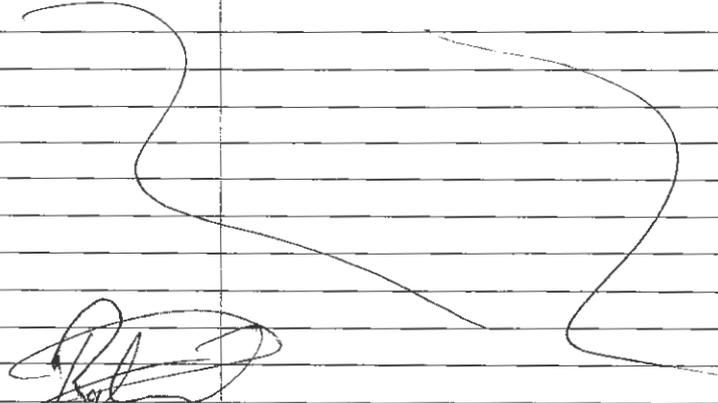
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1-	M. Waseem	Time keeper	Pixandco
2-	Masid Mehmood	"	"
3-	M. Sawab	Flagman	"
4-	M. Nawaz	Blast man	M. Naveez Khan
5-	Saif ur Rahman	"	"
6-	Ghulam Din	"	"
7-	Masroof Ahmed	"	"
8-	Wahid Khan	Sheet fixer	"
9-	Ashfaq Hussain	Dumper helper	"
10-	Zaid Islam	Dozer operator	"
11-	Anees Gul	Loader Helper	"
12-	Majid Hussain	Dumper Driver	"
13-	Ajmal	Driver	"
14-	M. Nawaz	Dumper Driver	"
15-	M. Zubair	Loader Helper	"
16-	Shahid mehmood	Dumper Driver	"
17-	Nowman Khalid	Helper	"
18-	M. Ifan	Dumper Driver	"
19-	Abdul Hussain	En. Opt	"
20-	Awaris Hussain	Helper	"
21-	Babar Nadeem	Drill opt	"
22-	Bamish Ali	Helper	"
23-	M. Khalid	Mechanic	"
24-	M. Ifan	"	"
25-	Rafiqat	"	"
26-	Mazhar Mehmood	welder	"
27-	Saeed Akhtar	Mechanic	"
28-	M. Ahmad	Electrician	"
29-	M. Saleem	welder	"
30-	M. Saleem	Tide man	"
31-	M. Akhtar	Mechanic	"
32-	M. Zubair	Mechanic	"
33-	Adnan Riaz	Blast man	"
<p style="text-align: right;">40 mins</p>			
<p style="text-align: center;">Comments/ Topics</p> <p style="text-align: center;">work at height , Manual Handling</p>			





<b>DAELIM</b>	<b>Gulpur Hydropower Project</b>	 MIRA POWER LIMITED
<b>LOTTE E&amp;C</b>		 MWH Owner's Engineer

Meeting	Training	Toolbox (site tool box) ✓
Other		Date: 27.11.15

S-No	Name	Designation/ Company	Signature
1	Rafiq	Castro	
2	Shahzad	Labour	
3	Tasif	"	
4	Aarif	"	
5	Mahad	"	
6	Bilal	Formain (T.T.C)	
7	Murtaza	Labour (T.T.C)	
8	Mudsar	"	
9	Faheem Shah	"	
10	Dilaver	"	
11	Bakhtai Jan	"	
12	Masrur Khan	Surveyor (T.T.C)	
13	Adil	Surveyor Helper	
14	Alam	Site Engg (T.T.C)	
15	AFzal	Labour (T.T.C)	
			
Comments/ Topics <i>Housekeeping, Manual handling</i>			

<b>DAELIM</b>	<b>Guipur Hydropower Project</b>	MIRA POWER LIMITED
<b>LOTTE E&amp;C</b>		MWH. Owner's Engineer

Meeting	Training <input checked="" type="checkbox"/>	Toolbox
Other		Date: <u>26/11/15.</u>

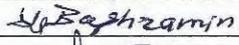
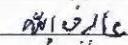
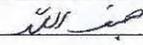
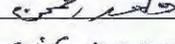
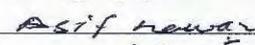
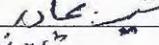
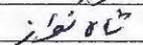
S-No	Name	Designation/ Company	Signature
1	Tariq	Cook helper	Tariq
2	Kashif	waiter	Kashif
3	Atta ur Rahman	waiter	Atta
4	Adel	waiter	Adel
5	Mumtaz	Swaper	Mumtaz
6	Ubaid	"	Ubaid
7	Masood	waiter	Masood
8	Farooq	"	M. Farooq
9	Haseeb	Helper	M-H Q
10	Tahir	waiter	Tahir
11	Asif	Helper	Asif
12	Nadeem	waiter	Nadeem
13	Noor A. Khan	Cook	Noor Khan
14	Mushafiq	cook	Mushafiq
15	Shahbaz	Helper	Shahbaz
16	Talib Zahoor	Manager	Talib

50 mins

Comments/ Topics  
Deep cleaning

<b>DAELIM</b>	<b>Gulpur Hydropower Project</b>	 MIRA POWER LIMITED
<b>LOTTE E&amp;C</b>		 MWH. Owner's Engineer
Attendance Sheet		

Meeting	Training ←	Toolbox	
Other		Date: 31/07/15	7:30am

S-No	Name	Designation/ Company	Signature
1)	Baghzamin	Helper / T.T.C	
2)	Ayaz	Driver / "	
3)	Amjid	Helper / "	
4)	Arief-ul-Jah	Driver / "	
5)	Rob Nawaz	Driver / "	
6)	M. Zaib	Driver / "	
7)	Naseeb Khan	Driver / "	
8)	M. Ali	Helper / "	
9)	Syed Zaman	Driver / "	
10)	Saif-ul-Jah	Driver / "	
11)	Wahid Zada	Helper / "	
12)	Wahid Rehman	Helper / "	
13)	Asif Nawaz	Driver / "	
14)	Shah Bahadur	Driver / "	
15)	Shah Nawaz	Helper / "	
Comments/ Topics Training In Dumper driver about speed.			







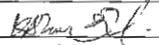
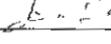
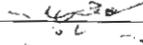
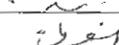
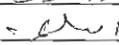
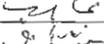
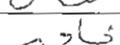
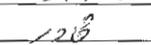
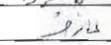


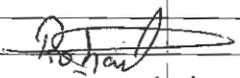
Start from height.

<b>DAELIM</b>	<b>Gulpur Hydropower Project</b>	 MIRA POWER LIMITED
LOTTE E&C		 Owner's Engineer
Attendance Sheet		

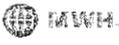
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Other	Time: 30		Date: 28/02/2015	

Block C, L, L2.

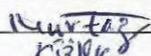
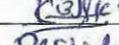
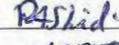
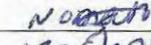
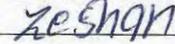
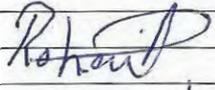
S-No	Name	Designation/ Company	Signature
1	KAZIM	supervisor Act.	
2	Sabzar Ali	TILE Fixer	
3	Saeed	"	
4	Wahed	"	
5	Rizwan	"	
6	Aslam	"	
7	Imran	"	
8	Mukhtar	"	
9	Asif	"	
10	Mushtaq	"	
11	Gadax	Painter	
12	Mehran	"	
13	Mushtaq	"	
14	ADEEL MUMTAZ	site sup	
15	Abdul Aziz	mason	
16	M- Hamid	"	
17	M- Aslam	"	
18	M- Isham	"	
19	Tanzil	"	
20	Asif	labour	
21	Abel	"	
22	Shahid	"	
23	M- Ajeem	"	
24	Khali'd	"	

  
28/2/15.

Comments/ Topics Proper use of PPE's. specially Full body harness on height and

<b>DAELIM</b>	<b>Gulpur Hydropower Project</b>	 MIRA POWER LIMITED
LOTTE E&C		 MWH Owner's Engineer
Attendance Sheet		

Meeting		Training	<input checked="" type="checkbox"/>	Toolbox	
Other		Electrical		Date:	19.02.2015.

S-No	Name	Designation/ Company	Signature
1)	Murtaza Nazir	Safety Officer	
2)	Abdulkhalique	Safety officer	
3)	RASHID JIJA	Elecation ACT	
4)	Noman Maroof	Elecation ACT	
5)	Zeshan Nasir	Elecation ACT	
6)	KASHIF	Elecation ACT	
7)	ABDUL RAZZAQ	Elecation DAELIM	
			
	19/02/2015.		
Comments/ Topics		Electrical hazards,	



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**Exhibit 10 – Tool box talk**

(Please see the next page)

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## Toolbox Meeting Record / Schedules







## Schedule for Toolbox Meeting

January - 2016

No.	Date	Name of the Speaker		
		Main Muster Point	Tunnels	Batching Plant
1.	01-01-2016	Sahibzada Tanzeel	Israr Ahmed	Syed Salman Ahmad
2.	02-01-2016	Muneeb Manzoor	Yasir Saeed	Raja Arsalan Pervez
3.	03-01-2016	Ramiz Iftikhar Lone	Sibtain Haider Ali	Ahmed Tabraiz
4.	04-01-2016	Hannan Rasheed	Usman Iftikhar	Khurram Abbas Khan
5.	05-01-2016	Bilal Ahmed	Israr Ahmed	Malik Mudassar Ali
6.	06-01-2016	Yaser Zeb	Yasir Saeed	Rahim-ud-Din
7.	07-01-2016	Muhammad Anees	Sibtain Haider Ali	M. Naseem Akhtar Khan
8.	08-01-2016	Khyzer Ahmed Sheikh	Usman Iftikhar	Muhammad Aslam
9.	09-01-2016	Naweed Saher	Israr Ahmed	Zaheer ud Din
10.	10-01-2016	Ramiz Arshad	Yasir Saeed	Asim Munir
11.	11-01-2016	Mehmood Ahmed	Sibtain Haider Ali	Saqib Ilyas Abbasi
12.	12-01-2016	Zahid Iqbal	Usman Iftikhar	Syed Abdul Basit
13.	13-01-2016	Samandar Khan	Israr Ahmed	Faisal Imran
14.	14-01-2016	Umar Draz Khan	Yasir Saeed	Syed Salman Ahmad
15.	15-01-2016	Farhad Awais Ali	Sibtain Haider Ali	Raja Arsalan Pervez
16.	16-01-2016	Furqan Ahmad	Usman Iftikhar	Ahmed Tabraiz
17.	17-01-2016	Arslan Haider	Israr Ahmed	Khurram Abbas Khan
18.	18-01-2016	Gul Kayani	Yasir Saeed	Malik Mudassar Ali
19.	19-01-2016	Sahibzada Tanzeel	Gohar Siddique	Rahim-ud-Din
20.	20-01-2016	Muneeb Manzoor	Usman Iftikhar	M. Naseem Akhtar Khan
21.	21-01-2016	Ramiz Iftikhar Lone	Israr Ahmed	Muhammad Aslam
22.	22-01-2016	Hannan Rasheed	Yasir Saeed	Zaheer ud Din
23.	23-01-2016	Bilal Ahmed	Gohar Siddique	Asim Munir
24.	24-01-2016	Yaser Zeb	Usman Iftikhar	Saqib Ilyas Abbasi
25.	25-01-2016	Muhammad Anees	Israr Ahmed	Syed Abdul Basit
26.	26-01-2016	Khyzer Ahmed Sheikh	Yasir Saeed	Faisal Imran
27.	27-01-2016	Naweed Saher	Gohar Siddique	Syed Salman Ahmad
28.	28-01-2016	Ramiz Arshad	Usman Iftikhar	Raja Arsalan Pervez
29.	29-01-2016	Mehmood Ahmed	Israr Ahmed	Ahmed Tabraiz
30.	30-01-2016	Zahid Iqbal	Yasir Saeed	Khurram Abbas Khan
31.	31-01-2016	Samandar Khan	Gohar Siddique	Malik Mudassar Ali

DONGHO LEE  
PROJECT MANAGER

**Exhibit 11- Drills**  
**Exhibit 12 – Environmental Social Management &  
Monitoring Plan**

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(Please see the next page)

# Fire Drills Sample



## Emergency Fire Drill

Fire Drill Plan	Job Levels	Critical Safety Points
<ul style="list-style-type: none"><li>DLJV-HSE-FD-0001</li></ul>	<ul style="list-style-type: none"><li>All</li></ul>	<ul style="list-style-type: none"><li>Emergency / Fire extinguisher Drill</li><li>PPEs</li></ul>



**Objective:** Identify the types and uses of portable fire extinguishers that are available to suppression Personnel.

**Purpose:** To become more familiar with types of extinguishers, uses of extinguishers, locations for Storage and usage techniques for each type and evacuation procedure.

**Prerequisite Knowledge/Skills:** Classes of fire, rating systems, use and limitations of each type, operating methods, selection process and proper handling and care of portable extinguishers.



### **Procedure:**

1. Identify the types and classifications of extinguishers available on apparatus and within specified Locations.



- Class A, B, C, D, K types
- Specialty types of extinguishers
- Sizes of each type
- Storage/mounting methods
- Inspection data
- Servicing / replacement procedures



2. Review the classification marking system on extinguishers.
3. Identify the ratings of each extinguisher and determine the approx. size of fire that each is able to control
4. Demonstrate (as possible) the use of each type of extinguisher and the proper maintenance  
Procedures used to return the extinguisher to service.
5. Complete any documentation or record keeping for use of extinguishers used by the HSE department.
6. Review HSE department inspection procedures for apparatus and mounted extinguishers in station.

#### Discussion

- On what size or types of fire would you bring an extinguisher from the engine?
- What PPE is used when discharging extinguishers?
- Match sample scenarios of incipient fires with your extinguishers
  - > Electrical motor fire
  - > Trash can fire
  - > Pan fire on kitchen stove
  - > Mattress fire outside structure
  - > Small gasoline spill fire
  - > Smoke investigation





## 1. Description

On August 28, 2015 an emergency fire drill was conducted by HSE Staff personal after TOOLBOX MEETING at 8:15 hours. Daelim, Sambu, TTC Higher Management, staff and other workers participated in the fire drill. At first classes of fire and use of different types of fire extinguishers was discussed with the personnel and after that a fire was ignited to show the workers that how they will extinguish fire with fire extinguisher. All personnel were briefed practically about extinguishing fire with the help of fire extinguisher.

The personnel were also informed about evacuation procedure if a fire is set inside a building. They were briefed about what they have to do while initiation of fire and during fire to evacuate the building.

## 2. Initiating the Fire

- The personnel will shout as fire', fire
- Siren will be blown to aware the personnel about fire
- There would be the special team of fire fighters to bring people out of building
- Fire extinguishers should be mounted on wall s to extinguish fire on early stage

## 3. During the Fire Drill

Supervisory staffs are to monitor the evacuation process and note any of the following:

- Are individuals closing the doors upon exiting rooms?
- Are individuals remaining calm and proceeding towards the nearest exit?
- Are individuals assembling at the designated muster point?
- Are fire wardens (if applicable) ensuring the safe evacuation of all individuals?
- Are all individuals being accounted for (if applicable)?
- Are exits guarded to prevent re-entry into the building?

DLJV-HSE Date: 11-09-2015



## Appendix



DLJV-HSE Date: 11-09-2015



DLJV-HSE Date: 11-09-2015



# Fire Drill Report

# 화재 비상 드릴 보고서 [FIRE EMERGENCY DRILL REPORT]

CIVIL DIVISION/ GULPUR HYDRO POWER PROJECT SITE

2015-09

## 【 Contents 】

I .

[Introduction of FIRE EMERGENCY EVACUATION DRILL]

II .

[Activity photos of FIRE EMERGENCY EVACUATION DRILL]

III .

[Conclusion of FIRE EMERGENCY EVACUATION DRILL]

## Introduction of EMERGENCY EVACUATION DRILL

· Day & Date	Tuesday 28 August 2015
· Time	07:30 A.M
· Drill Duration	15 minutes
· Location	Gulpur Hydropower Project-GHPP
· Assembly area	In front of DAELIM field office in Assembly area
· Activity	No hot activity
· Emergency Scenario	<p>While workers were performing with their routine work at Gulpur Hydropower Project Site, a fire appeared in the middle of the ground. where some raw packing material existed. The fire spread to all the available combustibile material. Luckily no one was available in the vicinity of fire and a worker on spotting the fire raised the alarm. Some workers shouted fire fire which alerted the surrounding areas workers. The call of the concerned worker was heard by the Supervisors and Safety Officers onsite and decided to extinguish the small fire.</p> <p>Workers were trained physical and in house by the Health Safety Department on Fire Fighting Procedures.</p>
· Communication	Mobile Phone / Mobilink / Megaphone

# Activity photos of FIRE MUSTER DRILL



View of Toolbox Meeting Ground



Paper Cardboard present in the middle of the ground



Cardboards caught fire



Workers and Staff rushing to extinguish fire

## Activity photos of EMERGENCY EVACUATION DRILL



Workers arrive on the scene upon notified by the workers and informing fire fighting team



Worker bringing fire extinguisher to extinguish fire



Worker extinguishing the fire



Workers roll count at the assemble area

# Activity photos of EMERGENCY EVACUATION DRILL



In house training to fire fighting team on fire safety



In house training to fire fighting team on fire safety



Final practical fire emergency training to all project staff



Final practical fire emergency training to all project staff on fire extinguisher use

## Conclusion of FIRE EMERGENCY DRILL

### ■ Good Points

- Workers did not panic during the drill even though it was unannounced
- Group Leader and supervisors were of the actions which need to be taken during emergencies
- Contractor and sub-contractor heads participated in the drill
- Timely response of the fire assistance

### ■ Needs Improvement

No.	Description	Recommendations	Action By	Date
1	Fire fighting water truck was not ready during the drill	Water tanker to arrive at fire emergency situation and be ready for the fire fighting	Camp Management	06 September 2015
2	Some workers in accommodations did not responded to alarm set for fire	The supervisors to ensure all workers assemble in the toolbox meeting ground during emergency situation. Regular discussion on fire assembly in daily toolbox meetings.	ALL	06 September 2015
3	Not enough fire extinguishers bring by workers	Workers arriving at scene of fire should carry fire extinguisher from nearest building or area Regular discussion on bringing fire extinguisher to fire area in daily toolbox meetings	ALL	06 September 2015
4	Roll count of workers not upto mark	The Sub Contractor supervisors to trained on roll count during emergency situation	ALL	06 September 2015

# Medevac Drill Scenario

	<b>MEDEVAC PLAN FOR TUNNELS</b>	

## Medevac Emergency Drill Scenario Proposal

### Scope

The document covers the plan of action which will be implemented in case of an emergency situation created by poisonous/toxic air. The document explains the standard instructions which will be followed to rescue a person affected by inhalation of poisonous at work site.

### Background

A worker falls senseless as a result of inhaling toxic air which is contaminated by blasting product gases like Sox, NOx, COx & dust. While working on tunnel / during shotcrete, a worker inhaled contaminated air for he wasn't wearing the respirators or the respirator's bed was too exhausted to absorb the toxic gases & provide clean air for breathing.

The worker is out of senses & needs to be rescued & provided with first aid.

### Scenario

The following can be a scenario & the action plan for how can the effected person be rescued from the unsafe condition;

- As soon as the person is seen affected by poisonous gases, others would be warned by the supervisor/line manager & they would be told to stay upwind.
- The supervisor or line manager would lead a team to four competent personnel A, B, C & D.
- Two of the competent persons (A+B) would prepare for rescue operation. They would ensure to have worn a respirator & other PPE like goggles, reflective jackets, safety shoes, safety helmets, gloves.
- Two other competent personnel (C+D) would barricade the area at the same time & would not allow any other to enter into the dangerous area. Make sure that the barricading tape is available.
- The personnel (A+B) would take a stature for the effected person. Make sure that stature is available nearby.
- Rescue personnel would either use cotton, wool or damp cloth to cover nose for respiration if the respirator isn't available immediately or is not required (exposure would be too low).
- Holding the stature the personnel (A+B) would enter into the area & would reach the affected person. They would quickly put up & lay the affected person on the stature.
- The personnel (A+B) would move the stature to the ambulance. Make sure that the ambulance is available at site & the driver is reporting on duty.
- On evacuating from the dangerous zone, the affected person would be exposed to fresh air or preferably a respirator with oxygen supply should be worn into him inside the ambulance. Make sure that the ambulance is well equipped with oxygen supply bottle.

- The affected person would soon be shifted into the local clinic where the paramedic would give further aid to the affected & would examine him to decide the severity of the case.
- In case if the condition of patient is too critical/serious to be handled at the local clinic, the person would be shifted to the District Head Quarter hospital, Kotli.

Submitted by HSE Department

# Medevac drill Report

## Medevac Drill Report

**Dept. / Field / Location:** Construction/Gulpur Hydropower Project AJ&K Pakistan/Tunnel-1.

**Date:** 27<sup>th</sup> December, 2015.

**Area (carried out at):** Diversion Tunnel-1

**Drill Started at:** 10:28hrs.

**Drill Finished at:** 10:41hrs.

**Emergency Scenario:** MEDEVAC DRILL

**Drill Organized by:** EPCC EHS Dept.

### Name of ERT & EMT:

1.	Not designated	First Aider (OGP Level-2)
2.	Not Designated	First Aider (OGP Level-2)
3.	Not Designated	First Aider (OGP Level-2)
4.	Hannan Rasheed	Paramedic
5.	Not Appointed	Ambulance (A3) Driver
6.	Khaista Rehman	Supervisor
7.	Kim Hyung Chan	Site Manager
8.	Dongho Lee	Project Manager
9.	Song Jae Wook	Construction Manager

### In Supervision of:

1. Sahibzada Tanzeel Ahmed–Manager EHS (at Camp)
2. Syed Usman Iftikhar– HSO (in field)
3. Muhammad Anees– HSO (at camp)

### Description of Medevac Exercise:

- The Medevac drill was started on 27<sup>th</sup> Dec'15 at approx 10:28hrs. Activity was supervised by Syed Usman Iftikhar in the field & Manager EHS Sahibzada Tanzeel Ahmed in the camp.
- It was assumed that HSE Inspector who was on site visit for monitoring activities in field, while he moving alone, he suddenly collapsed and was observed unconscious.
- At 10:28hrs victim collapsed down.
- At 10:00hrs a site supervisor (Mr. Khaista Rehman) checked pulse & breathing of the victim. He declared that breathing & pulse is ok but the victim is unconscious.
- At 10:32hrs site supervisor told his labor to get the Stretcher and available vehicle.
- At 10:33hrs site surveyor (Mr. Sadiquallah) gave CPR to the patient.
- At 10:35hrs vehicle reached at the location.
- At 10:34hrs site supervisor MR. khaista rehman used portable stretcher to shift the victim in the the vehicle.

- Site supervisor decided to shift the victim in ambulance and started communication with paramedics and Manager EHS.
- At 10:37hrs they shifted the victim in site clinic.
- At 10:38hrs paramedics examined the patient.
- At 10:40hrs paramedic informed a non- traumatic case of the patient who lost consciousness with poor vital signs and informed radio of his location. BP=120/80. Patient was on Oxygen.
- At 10:48 hrs paramedic was instructed to bring in patient to clinic for further evaluation and management.
- At 10:40hrs all concerned parties were informed about the incident who immediately reported at site clinic.
- At 10:41hrs patient was stable
- At 10:41hrs drill was ended.

### **Positive Points:**

- Paramedic managed well in camp and prepared the clinic in advance of arrival to speed up the stabilisation and patient diagnostic time.
- Most of the telephone numbers for contacting respective offices and emergency management teams worked well and connected with correct people without delay.
- Paramedic directed field workers and gave clear instructions on phone.
- Good communication was performed between field and camp staff through mobile phones.
- Field staff showed a quick response and shifted the patient to the clinic in nine minutes.

### **Areas of Concern:**

- Ambulance wasn't available because its driver was still not appointed.
- After shifting the stretcher in the vehicle, the stretcher almost fell down because the back door was open.
- Inappropriate mode of transport was used to shift the patient due to unavailability of ambulance.
- Stretcher handling team insufficient in number when moving the casualty from vehicle to the clinic. Designate more team members for this function and ensure sufficient people to hold each point of stretcher – ergonomically difficult to get the guy out of the vehicle so it is important to have enough stretcher bearers.
- Stretcher handling in the field was not very satisfactory with the patient moved too much (While falling he could have had spine injury).
- No certified First Aider was available in the field
- First Aid performances on the field unsatisfactory. No recovery position applied for an unconscious victim.
- Quality of messages passed was poor. Clear messages are necessary as communication is of a paramount importance in such case.
- There were no radio communication facility available at the whole project.
- ERT was not designated.

## Recommendations:

S. No.	Action Point	Action Party	Target Date
1.	Daelim admin. Department should hire a driver for ambulance on immediate grounds.	Daelim Admin.	1 <sup>st</sup> Jan' 2016
2.	Radio facility should be provided for emergency response teams.	HSEA/ Crew Doctor	20 <sup>th</sup> Jan' 2016
3.	Reinforce first aid training for field crews.	HSO/ Paramedics	1 <sup>st</sup> Jan' 2016
4.	Perform additional stretcher training involving medical personnel.	HSO/ Paramedics	1 <sup>st</sup> Jan' 2016
5.	Emergency Response Teams should be designated and training should be given to them.	EPCC EHS	1 <sup>st</sup> Jan'2016

Prepared by: Syed Usman Iftikhar (HSO, EPCC)

Reviewed by: Sahibzada Tanzeel Ahmed (Manager EHS)

## Photographs of the Event:





# Waste Storage Record for Metallic Waste and Disposal

# GULPUR HAYDROW POWER PROJECT DAELIM

AZAD JAMU KASMIR

Sr No. 36  
Vehicle No. : MRHA346  
Party : 1 1  
Product : 1 SCRAPES

Date: 20-01-16  
Time: 6:38:37PM

Legend	Weight	Time	Date	Type
Gross----->	3540	6:38:14 PM	20/1/16	Auto
Tare----->	1820	3:56:48 PM	20/1/16	Auto

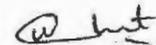
Net Weight: 1720 Kgs. (40)Kgs: 43 Mnds Kg

Cash Receipt : Rs. 0

Remarks : Without Driver.

Note:- Only Weight is Guaranteed. Not responsible for Goods.

Supplied By :

  
Weighing Supervisor

Software Developer : IagSoft Multan .

# Waste Disposal Contractor Licence

# MUNICIPAL CORPORATION

KOTLI (AZAD KASHMIR)



Ref. No. 90/15

Date 12-5-2015

To: **Project Manager  
DAELIM LOTTE (JR)**

It is to inform you that Mr. Shoukat Iqbal resident of Barali Village will dispose the waste material to our main waste pit. Hence permission is granted to him for this specific job for a period of two years. Now onwards he reserves the right to supply waste material.

*S*  
*13/15*  
**Dupty. Administrator  
Municipal Corporation  
Kotli (A.K)**

**Deputy Administrator  
Municipal Corporation  
Kotli (A.K)**



# Water Quality Records for Drinking Water Parameters

**PAKISTAN COUNCIL OF RESEARCH IN WATER RESOURCES**

Ministry of Science &amp; Technology, Government of Pakistan

Khiaban-e-Johar, H-8/1, Islamabad

[www.pcrwr.gov.pk](http://www.pcrwr.gov.pk)LAB 048  
17025**WATER QUALITY TEST REPORT (CHEMICAL ANALYSIS)**

Report Serial No	Chem-1177	Total No. of Pages	1
Client Name & Address	DAELIM LOTTE, House # 172, Street # 7, Phase-3, Bahria Town, Islamabad.		
Sampling Date	12-11-15	Sampling Time	09:00 (am)
NWQL Sample Code.	MCL-0705 (3)-15	Client Code	Restaurant
Temperature of sample at receipt °C	18 °C	Sample Receipt Date	12-11-15
Date (s) of Analysis	12-11-15 to 12-11-15	Reporting Date	13-11-15

**PHYSICAL & AESTHETIC PARAMETERS**

Sr. #	Water Quality Parameter	Units	Det. Limit	Reference Method	Permissible Limits (PSQCA/NSDWQ, 2010)	Results	Measurement Uncertainty
1.	Turbidity	NTU	0.2	APHA, 22 <sup>nd</sup> Edition	<5	0.96	± 29%

NGVS: No Guideline Value Set WHO: World Health Organization APHA: American Public Health Association, BDL: Below Detection Limit, QC: Quality Control CSS: Customer Service Section, PSQCA: Pakistan Standard Quality Control Authority, NEQS: National Environment Quality Standards

Quality of Water*	Safe <input type="checkbox"/>	Unsafe <input type="checkbox"/>
Quality of Wastewater*	Safe <input type="checkbox"/>	Unsafe <input type="checkbox"/>

Non-Accredited parameters are indicated by asterisk

**Terms & Conditions:**

- Test results in this report relate only to the test item/sample submitted and tested.
- The test report shall not be reproduced except in full, without written approval of NWQL-PCRWR
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Prepared by	 Abdul Jabbar	Tech. Manager (Chem.)	 Farah Naz	Tech. Manager (QC)	 Dr. Fouzia Altaf
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**PAKISTAN COUNCIL OF RESEARCH IN WATER RESOURCES**

Ministry of Science &amp; Technology, Government of Pakistan

Khiaban-e-Johar, H-8/1, Islamabad

[www.pcrwr.gov.pk](http://www.pcrwr.gov.pk)LAB 048  
17025**WATER QUALITY TEST REPORT (MICROBIOLOGICAL ANALYSIS)**

Report Serial No	Micro-920	Total No. of Pages	1
Client Name & Address	DAELIM LOTTE, House # 172, Street # 7, Phase-3, Bahria Town, Islamabad.		
Sampling Date & Time	12-11-15, 09:00 (am)	Client Sample Code	Restaurant
NWQL Sample Code.	MCL-0705 (3)-15	Sample Receipt Date	12-11-15
Temperature of sample at receipt °C	18 °C	Humidity (%) at receipt	56%
Date (s) of Analysis	12-11-15 to 14-11-15	Reporting Date	17-11-15

Sr. #	Parameter	Unit	Det. Limit	Reference Method	Permissible Limits		Results	Uncertainties/ Confidence Interval
					Potable water (PSQCA/NSD WQ 2010)	Bottled water (PSQCA)		
1.	Total Coliforms	MPN/100ml CFU/100ml	<2	APHA, 22 <sup>nd</sup> Edition	-ve	-ve	-ve	-
2.	Fecal Coliforms	MPN/100ml CFU/100ml	<2	APHA, 22 <sup>nd</sup> Edition	-ve	-ve	-ve	-
3.	E. coli	+ve/-ve	<2	APHA, 22 <sup>nd</sup> Edition FAO, 1998 (Internal method based on APHA Standard Methods:9221B-C)	-ve	-ve	-ve	-

WHO: World Health Organization

MPN: Most Probable Number

USEPA: United States Environmental Protection Agency

AOAC: Association of Official Analytical Chemists

APHA: American Public Health Association,

FAO: Food &amp; Agriculture Organization

PSQCA: Pakistan Standard Quality Control Authority

Quality of Water *	Safe <input checked="" type="checkbox"/>	Unsafe <input type="checkbox"/>
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Non-Accredited parameters are indicated by asterisk

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Prepared by	 Abda Jabbar	Tech. Manager (Micro.)	 Kiran Anwaar	Tech. Manager (QC)	 Dr. Fouzia Altaf
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NWQL-TR-10

Revision No. : 11

Revision Date: 27-10-2015



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LAB 048  
17025

**WATER QUALITY TEST REPORT (CHEMICAL ANALYSIS)**

Report Serial No	Chem-1176	Total No. of Pages	1
Client Name & Address	DAELIM LOTTE, House # 172, Street # 7, Phase-3, Bahria Town, Islamabad.		
Sampling Date	12-11-15	Sampling Time	09:00 (am)
NWQL Sample Code.	MCL-0705 (2)-15	Client Code	Batching Plant
Temperature of sample at receipt °C	18 °C	Sample Receipt Date	12-11-15
Date (s) of Analysis	12-11-15 to 12-11-15	Reporting Date	13-11-15

**PHYSICAL & AESTHETIC PARAMETERS**

Sr. #	Water Quality Parameter	Units	Det. Limit	Reference Method	Permissible Limits (PSQCA/NSDWQ, 2010)	Results	Measurement Uncertainty
1.	Turbidity	NTU	0.2	APHA, 22 <sup>nd</sup> Edition	<5	2.02	± 29%

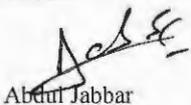
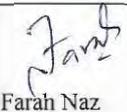
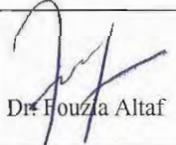
NGVS: No Guideline Value Set WHO: World Health Organization APHA: American Public Health Association, BDL: Below Detection Limit, QC: Quality Control CSS: Customer Service Section, PSQCA: Pakistan Standard Quality Control Authority, NEQS: National Environmental Quality Standards

Quality of Water*	Safe <input type="checkbox"/>	Unsafe <input type="checkbox"/>
Quality of Wastewater*	Safe <input type="checkbox"/>	Unsafe <input type="checkbox"/>

Non-Accredited parameters are indicated by asterisk

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Prepared by	 Abdul Jabbar	Tech. Manager (Chem.)	 Farah Naz	Tech. Manager (QC)	 Dr. Fouzia Altaf
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[www.pcrwr.gov.pk](http://www.pcrwr.gov.pk)LAB 048  
17025**WATER QUALITY TEST REPORT (MICROBIOLOGICAL ANALYSIS)**

Report Serial No	Micro-919	Total No. of Pages	1
Client Name & Address	DAELIM LOTTE, House # 172, Street # 7, Phase-3, Bahria Town, Islamabad.		
Sampling Date & Time	12-11-15, 09:00 (am)	Client Sample Code	Batching Plant
NWQL Sample Code.	MCL-0705 (2)-15	Sample Receipt Date	12-11-15
Temperature of sample at receipt °C	18 °C	Humidity (%) at receipt	56%
Date (s) of Analysis	12-11-15 to 14-11-15	Reporting Date	17-11-15

Sr. #	Parameter	Unit	Det. Limit	Reference Method	Permissible Limits		Results	Uncertainties/ Confidence Interval
					Potable water (PSQCA/NSD WQ 2010)	Bottled water (PSQCA)		
1.	Total Coliforms	MPN/100ml CFU/100ml	<2	APHA, 22 <sup>nd</sup> Edition	-ve	-ve	-ve	-
2.	Fecal Coliforms	MPN/100ml CFU/100ml	<2	APHA, 22 <sup>nd</sup> Edition	-ve	-ve	-ve	-
3.	E. coli	+ve/ -ve	<2	APHA, 22 <sup>nd</sup> Edition FAO, 1998 (Internal method based on APHA Standard Methods:9221B-C)	-ve	-ve	-ve	-

WHO: World Health Organization

MPN: Most Probable Number

USEPA: United States Environmental Protection Agency

AOAC: Association of Official Analytical Chemists

APHA: American Public Health Association,

FAO: Food &amp; Agriculture Organization

PSQCA: Pakistan Standard Quality Control Authority

Quality of Water *	Safe <input checked="" type="checkbox"/>	Unsafe <input type="checkbox"/>
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Non-Accredited parameters are indicated by asterisk

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Prepared by	 Abdul Jabbar	Tech. Manager (Micro.)	 Kiran Anwaar	Tech. Manager (QC)	 Dr. Fouzia Altaf
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17025**WATER QUALITY TEST REPORT (CHEMICAL ANALYSIS)**

Report Serial No	Chem-1175	Total No. of Pages	1
Client Name & Address	DAELIM LOTTE, House # 172, Street # 7, Phase-3, Bahria Town, Islamabad.		
Sampling Date	12-11-15	Sampling Time	09:00 (am)
NWQL Sample Code.	MCL-0705 (1)-15	Client Code	Tube Well
Temperature of sample at receipt °C	18 °C	Sample Receipt Date	12-11-15
Date (s) of Analysis	12-11-15 to 12-11-15	Reporting Date	13-11-15

**PHYSICAL & AESTHETIC PARAMETERS**

Sr. #	Water Quality Parameter	Units	Det. Limit	Reference Method	Permissible Limits (PSQCA/NSDWQ, 2010)	Results	Measurement Uncertainty
1.	Turbidity	NTU	0.2	APHA, 22 <sup>nd</sup> Edition	<5	BDL	-

NGVS: No Guideline Value Set WHO: World Health Organization APHA: American Public Health Association, BDL: Below Detection Limit, QC: Quality Control CSS: Customer Service Section, PSQCA: Pakistan Standard Quality Control Authority, NEQS: National Environment Quality Standards

Quality of Water*	Safe <input type="checkbox"/>	Unsafe <input type="checkbox"/>
Quality of Wastewater*	Safe <input type="checkbox"/>	Unsafe <input type="checkbox"/>

Non-Accredited parameters are indicated by asterisk

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Prepared by	 Abdul Jabbar	Tech. Manager (Chem.)	 Farah Naz	Tech. Manager (QC)	 Dr. Fozzia Altaf
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[www.pcrwr.gov.pk](http://www.pcrwr.gov.pk)LAB 048  
17025**WATER QUALITY TEST REPORT (MICROBIOLOGICAL ANALYSIS)**

Report Serial No	Micro-918	Total No. of Pages	1
Client Name & Address	DAELIM LOTTE, House # 172, Street # 7, Phase-3, Bahria Town, Islamabad.		
Sampling Date & Time	12-11-15, 09:00 (am)	Client Sample Code	Tube Well
NWQL Sample Code.	MCL-0705 (1)-15	Sample Receipt Date	12-11-15
Temperature of sample at receipt °C	18 °C	Humidity (%) at receipt	56%
Date (s) of Analysis	12-11-15 to 14-11-15	Reporting Date	17-11-15

Sr. #	Parameter	Unit	Det. Limit	Reference Method	Permissible Limits		Results	Uncertainties/ Confidence Interval
					Potable water (PSQCA/NSD WQ 2010)	Bottled water (PSQCA)		
1.	Total Coliforms	MPN/100ml CFU/100ml	<2	APHA, 22 <sup>nd</sup> Edition	-ve	-ve	-ve	-
2.	Fecal Coliforms	MPN/100ml CFU/100ml	<2	APHA, 22 <sup>nd</sup> Edition	-ve	-ve	-ve	-
3.	E. coli	+ve/-ve	<2	APHA, 22 <sup>nd</sup> Edition FAO, 1998 (Internal method based on APHA Standard Methods:9221B-C)	-ve	-ve	-ve	-

**WHO:** World Health Organization**MPN:** Most Probable Number**USEPA:** United States Environmental Protection Agency**AOAC:** Association of Official Analytical Chemists**APHA:** American Public Health Association,**FAO:** Food & Agriculture Organization**PSQCA:** Pakistan Standard Quality Control Authority

Quality of Water *	Safe <input checked="" type="checkbox"/>	Unsafe <input type="checkbox"/>
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Non-Accredited parameters are indicated by asterisk

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Prepared by	 Abdul Jabbar	Tech. Manager (Micro.)	 Kiran Anwaar	Tech. Manager (QC)	 Dr. Fouzia Altaf
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## Air Quality Monitoring Results





## Light Intensity Monitoring Results

<b>DAELIM</b>	<b>Gulpur Hydropower Project</b> Inspection Checklist-00-Blasting Inspection	 MIRA POWER LIMITED
LOTTE E&C		 MWH. Owner's Engineer

## LIGHT INSPECTION

Inspection Date : 29.11.2015

Inspection Time : 10:10 PM

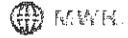
Site : Tunnel 2

Inspected by : EPCC EHS

Sr. No.	Station	Readings
1.	0 + 240	12
2.	0 + 213	12
3.	0 + 197	11
4.	0 + 171	13
5.	0 + 120	13
6.	0 + 99	7.2
7.		
8.		
9.		
10.		

Inspector's Name: Rehail Asghar

Inspector's Sign: 

<b>DAELIM</b>	<b>Gulpur Hydropower Project</b>	 MIRA POWER LIMITED
LOTTE E&C	Inspection Checklist-00-Blasting Inspection	 KOWELEC Owner's Engineer

## LIGHT INSPECTION

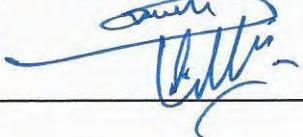
Inspection Date : 29-11-15 Inspection Time : 09:30

Site : Tunnel 2

Inspected by : EPCC EHS

Sr. No.	Station	Readings
1.	0+240	14
2.	0+210	13
3.	0+170	15
4.	0+115	14
5.	0+85	70
6.		
7.		
8.		
9.		
10.		

Inspector's Name: Syed Usman Afrikhar

Inspector's Sign : 



<b>DAELIM</b>	<b>Gulpur Hydropower Project</b>	 MIRA POWER LIMITED
LOTTE E&C	Inspection Checklist-00-Blasting Inspection	 KAWH Owner's Engineer

## LIGHT INSPECTION

Inspection Date : 27-11-15

Inspection Time : 14:15

Site : Tunnel 2

Inspected by : EPCC EHS

Sr. No.	Station	Readings
1.	0+230	15
2.	0+190	13
3.	0+145	14
4.	0+105	16
5.	0+95	72
6.		
7.		
8.		
9.		
10.		

Inspector's Name: Syed Usman Afkiron

Inspector's Sign: 

<b>DAELIM</b>	<b>Gulpur Hydropower Project</b> Inspection Checklist-00-Blasting Inspection	 MIRA POWER LIMITED
LOTTE E&C		 RWH Owner's Engineer

## LIGHT INSPECTION

Inspection Date : 25-11-15

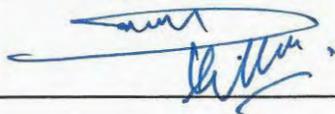
Inspection Time : 10:00

Site : Tunnel 2

Inspected by : EPCC EHS

Sr. No.	Station	Readings
1.	<u>0+230</u>	<u>14</u>
2.	<u>0+190</u>	<u>12</u>
3.	<u>0+165</u>	<u>9</u>
4.	<u>0+120</u>	<u>13</u>
5.	<u>0+90</u>	<u>72</u>
6.		
7.		
8.		
9.		
10.		

Inspector's Name: Syed Usman Gillani

Inspector's Sign : 

<b>DAELIM</b>	<b>Gulpur Hydropower Project</b> Inspection Checklist-00-Blasting Inspection	 MIRA POWER LIMITED
LOTTE E&C		 MWH. Owner's Engineer

## LIGHT INSPECTION

Inspection Date : 30-11-15

Inspection Time : 10:30

Site : Tunnel 1

Inspected by : \_\_\_\_\_

Sr. No.	Station	Readings
1.	0+240	15
2.	0+210	11
3.	0+160	14
4.	0+100	16
5.	0+80	80
6.		
7.		
8.		
9.		
10.		

Inspector's Name: Syed Usman Afkhar

Inspector's Sign : 

<b>DAELIM</b>	<b>Gulpur Hydropower Project</b>	 MIRA POWER LIMITED
LOTTE E&C	Inspection Checklist-00-Blasting Inspection	 MWH Owner's Engineer

## LIGHT INSPECTION

Inspection Date : 26-11-15 Inspection Time : 09:00  
 Site : Tunnel 1  
 Inspected by : EPCC GHS

Sr. No.	Station	Readings
1.	0+241	17
2.	0+205	12
3.	0+170	13
4.	0+110	11
5.	0+90	68
6.		
7.		
8.		
9.		
10.		

Inspector's Name: Syed Usman Afrikhar

Inspector's Sign : 

<b>DAELIM</b>	<b>Gulpur Hydropower Project</b> Inspection Checklist-00-Blasting Inspection	 MIRA POWER LIMITED
LOTTE E&C		 MWH. Owner's Engineer

## LIGHT INSPECTION

Inspection Date : 27.11.2015

Inspection Time : 09:15 PM

Site : Tunnels

Inspected by : EPCC EHS

Sr. No.	Station	Readings
1.	0 + 235	11
2.	0 + 215	11
3.	0 + 190	12
4.	0 + 170	12
5.	0 + 135	14
6.	0 + 95	75
7.		
8.		
9.		
10.		

Inspector's Name: Rohail Asghar

Inspector's Sign : 

## Noise Monitoring Results

Event Report: Event List - c:\blastware 10\event\daelim all\2016-01-30.18\dir001

Type	Serial No.	Date/Time	No. Chan	Trigger	Tran Peak (mm/s)	Vert Peak (mm/s)	Long Peak (mm/s)	Mic Peak (dB)	PVS1 (mm/s)	Description
W	UM6887	Feb 9 /15 3:35:32 PM	4	Vert	0.095	0.158	0.102	<88L	0.194	H-B
W	UM6887	Feb 9 /15 3:35:41 PM	4	Vert	0.102	0.158	0.095	<88L	0.197	H-B
W	UM6887	Feb 9 /15 3:35:51 PM	4	Vert	0.102	0.158	0.102	<88L	0.194	H-B
W	UM6887	Feb 9 /15 3:36:00 PM	4	Vert	0.102	0.158	0.102	<88L	0.191	H-B
W	UM6887	Feb 9 /15 3:36:10 PM	4	Vert	0.110	0.158	0.087	<88L	0.193	H-B
W	UM6887	Feb 9 /15 3:36:19 PM	4	Vert	0.095	0.166	0.102	<88L	0.200	H-B
W	UM6887	Feb 9 /15 3:36:29 PM	4	Vert	0.110	0.166	0.087	<88L	0.198	H-B
W	UM6887	Feb 9 /15 3:36:38 PM	4	Vert	0.118	0.158	0.095	<88L	0.197	H-B
W	UM6887	Feb 9 /15 3:36:48 PM	4	Vert	0.102	0.158	0.095	<88L	0.196	H-B
W	UM6887	Feb 9 /15 3:36:57 PM	4	Vert	0.102	0.150	0.087	<88L	0.194	H-B
W	UM6887	Feb 9 /15 3:37:07 PM	4	Vert	0.102	0.158	0.095	<88L	0.200	H-B
W	UM6887	Feb 9 /15 3:37:16 PM	4	Vert	0.110	0.158	0.102	<88L	0.203	H-B
W	UM6887	Feb 9 /15 3:37:28 PM	4	Tran	0.213	0.134	0.134	<88L	0.249	H-B
W	UM6887	Feb 9 /15 3:37:38 PM	4	Vert	0.118	0.158	0.134	<88L	0.202	H-B
W	UM6887	Feb 9 /15 3:47:05 PM	4	Vert	0.110	0.150	0.102	93.64L	0.167	H-B
W	UM6887	Feb 9 /15 3:47:14 PM	4	Vert	0.150	0.221	0.134	93.21L	0.265	H-B
W	UM6887	Feb 9 /15 4:31:12 PM	4	Vert	0.110	0.181	0.079	<88L	0.202	H-B
W	UM6887	Feb 9 /15 4:31:21 PM	4	Vert	0.134	0.173	0.110	<88L	0.228	H-B
W	UM6887	Feb 9 /15 4:31:31 PM	4	Vert	0.142	0.173	0.102	<88L	0.234	H-B
W	UM6887	Feb 9 /15 4:31:40 PM	4	Vert	0.142	0.173	0.110	<88L	0.229	H-B
W	UM6887	Feb 9 /15 4:31:50 PM	4	Vert	0.142	0.181	0.102	<88L	0.226	H-B
W	UM6887	Feb 9 /15 4:31:59 PM	4	Vert	0.134	0.173	0.102	<88L	0.226	H-B
W	UM6887	Feb 9 /15 4:34:48 PM	4	Vert	0.079	0.173	0.134	<88L	0.224	H-B
W	UM6887	Feb 9 /15 4:34:57 PM	4	Vert	0.118	0.166	0.087	<88L	0.209	H-B
W	UM6887	Feb 9 /15 4:35:07 PM	4	Vert	0.118	0.158	0.095	<88L	0.202	H-B
W	UM6887	Feb 9 /15 4:35:16 PM	4	Vert	0.126	0.166	0.095	<88L	0.209	H-B
W	UM6887	Feb 9 /15 4:35:26 PM	4	Vert	0.118	0.166	0.102	<88L	0.213	H-B

## Noise Graph for Noise Level Monitoring

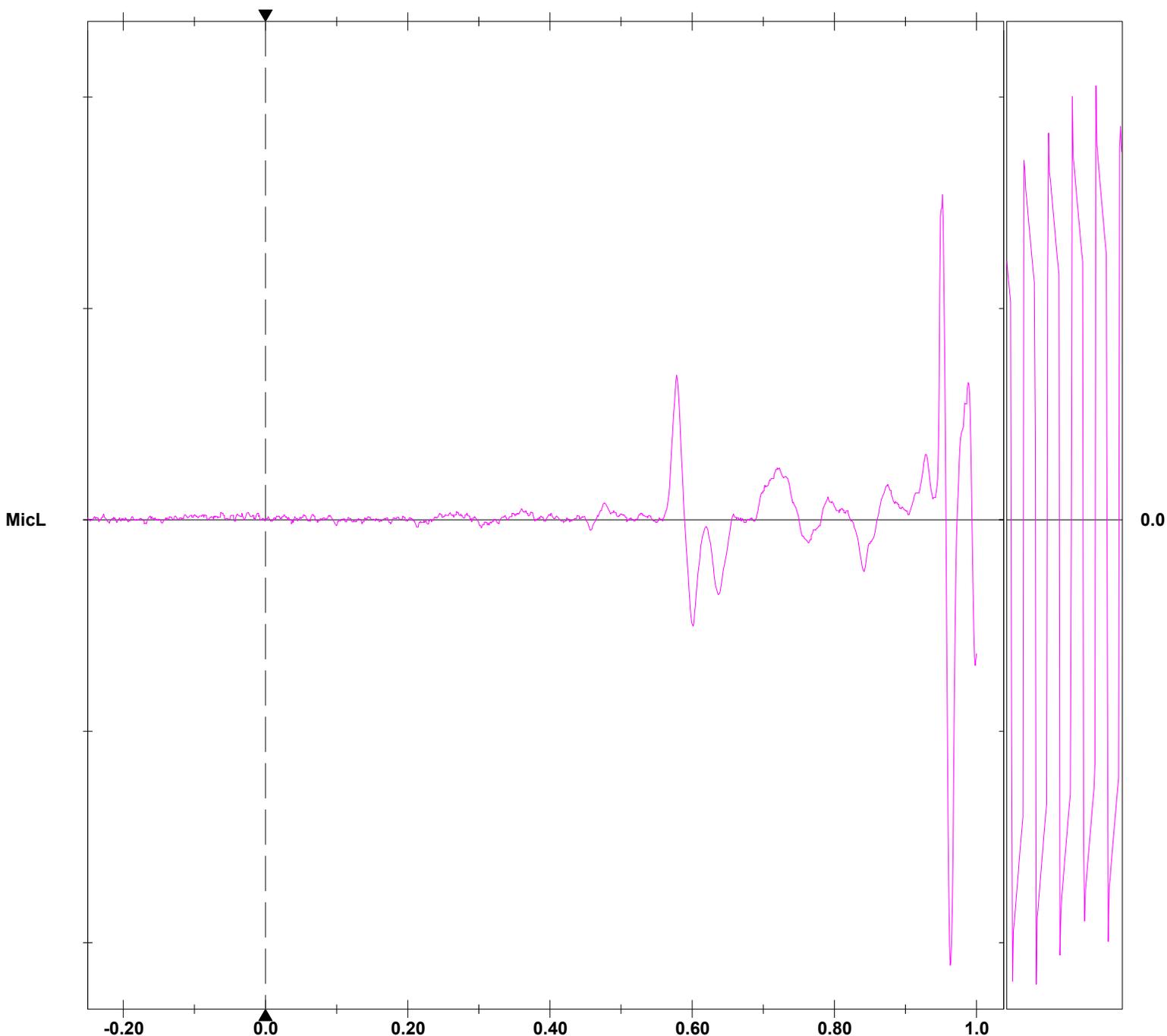
**Date/Time** Vert at 5:06:15 PM February 8, 2015  
**Trigger Source** Geo: 0.127 mm/s, Mic: 131.0 dB(L)  
**Range** Geo: 254.0 mm/s  
**Record Time** 3.0 sec at 1024 sps  
**Operator/Setup:** Operator/factory.MMB

**Serial Number** UM6887 V 10-74 Micromate ISEE  
**Battery Level** 3.8 Volts  
**Unit Calibration** January 9, 2015 by InstanTel  
**File Name** UM6887\_20150208170615.IDFW

### Notes

Location: H-B  
Client: MIRA POWER  
User Name: DAELIM  
General:

**Microphone** Linear Weighting  
**PSPL** 114.4 dB(L) at 0.963 sec  
**ZC Freq** 32 Hz  
**Channel Test** Passed (Freq = 19.7 Hz Amp = 1512 mv )



Time scale has been modified and may not represent the actual length of the event record

Time Scale: 0.10 sec/div Amplitude Scale: Mic: 5.000 pa.(L)/div

Trigger =

Sensor Check

Kitchen, Food Preparation Area, Toilets, Clinic and Other  
Areas Inspection

## Gulpur Hydropower Project Health and Hygiene Checklists

### 1. Area: Food Store

Department:

Date: 29-08-2015

Y=Yes N=No N/A= Not Applicable	Result		
	Y	N	N/A
Enforcement of "Authorized Personnel Only"	✓		
Good ventilation or cooling provided	✓	✗	
Dry food stuff stored in its selling packaging	✓		
All bulk foods stored in covered containers			✓
Food store with sufficient lighting	✓		
Food store equipped with air conditioning for dry and raw products	✓		
Products sorted on shelves with heavy ones down and lighter ones on upper shelves		✓	
No egg based food stored in the dry store except lyophilized ones	✓		
Dry products in plastic bags are poured in plastic hermetic containers after opening		✓	
Dry food in sacks and vegetables are stored lifted from floor (pallets)	✓		
Food stock checked and recorded on a daily basis to rotate stocks	✓		
Products out of use-by date, damaged cans and packaging are to be discarded	✓		
Store adequate in size - no overcrowding		✓	
Electrical fittings adequate		✓	
Fruits and vegetables should be stored in well-ventilated areas and protected from insects, rodents and animals. Do not store fruits and vegetables on floors.	✓		
Immediately discard fruits and vegetables when they start to spoil. If there is only a small bad spot, cut it off and use the remaining part.	✓		
All bulk foods stored in covered containers			
Daily products & tinned foods inspected regularly for expired items			✓
Flammable items (Matches, napkins, etc) not stored with food stuffs	✓		
General high standard of cleanliness and tidiness	✓		
Discarded paper cartons & packing boxes not accumulated	✓		
Posted schedules for weekly cleaning of food store		✓	
Posted schedule for inspection of standards by camp boss	✓		
Food store audited minimum weekly by medical staff	✓	✗	
Electrical fittings adequate		✓	
Restocking controlled and inspected by camp boss	✓		
Emergency firefighting equipment nearby	✓		
The entry date of the food will be clearly labelled		✓	
Food samples prepared on daily basis	✓		
Care should be taken to rotate stored foodstuffs so that expiration dates are not exceeded.	✓		
<b>Freezers</b>			
Temperature gauge fitted	✓		
Record of temperature (below -18°C)			✓
Clean	✓		
No signs of blood staining	✓		
Correct separation of food	✓		
<b>Signs /</b>			
No Smoking	✓		

# DAELIM

## 2. Area: kitchen

Department: \_\_\_\_\_

Date: \_\_\_\_\_

Y=Yes N=No N/A= Not Applicable	Result		
	Y	N	N/A
Mosquito screens at doors and windows	✓		
Enforcement of "Authorized Personnel Only"	✓		
The name list of the authorized personnel is pasted in entrance		✓	
Worktops and sinks made of stainless steel	✓		
Sinks sized to enable cleaning any kitchen utensils or drums	✓		
Hot, soapy and drinkable water available for washing dishes	✓		
Drinkable water (purified and/or filtered) used to wash and cook food	✓		
Dedicated sink for hand washing with antiseptic soap (liquid dispenser) and nail brush		✓	
Kitchens equipped with efficient air extractors		✓	
Sufficient lighting and emergency light fitted		✓	
No leakage on the floor, no leakage on taps or under sinks			
Water analysis done before operation starts then every month. Initial test must mention chemical and heavy metals status, and then regular tests would have at least biological parameters. Water samples have to be collected from tanks, water trucks and kitchen	✓		
Standard hygiene signs set, chopping colour code, handling of frozen food, and water saving signs posted and respected. Posters must be translated in English and local	✓		
No smoking in kitchens	✓		
General kitchen and fridges/freezers cleaning schedules posted and respected		✓	
Extractors' filters shall be cleaned on a weekly basis			✓
Kitchens and messes tidied and cleaned after each meals	✓		
Waste bins with lids, respecting segregation plans	✓		
Use of waste plastic bag compulsory	✓		
Waste bins emptied after each meals		✓	
Waste bins cleaned with detergent on a weekly basis		✓	
Kitchen fitted with a fly killer light	✓		
"Mini-maxi" type thermometers in each fridges and freezers	✓		
Freezers defrosted at least once a month	✓		
Fridges cleaned on a weekly basis; cleaning schedule posted and records kept		✓	
Max fridges temperature is 0-5°C	✓		
Standard freezers temperature is -18°C	✓		
Fridges and freezers temperatures are recorded on a daily basis (form posted on each fridge)		✓	
Packaging removed before food is placed in freezers	✓		
Minimum of three identified plastic chopping boards (raw meat – cooked meat – vegetables and fruits)		✓	
Dedicated towels or absorbent paper to dry hands		✓	
Dedicated and clean towels to dry dishes		✓	
Kitchen utensils and devices clean and tidy – knives and chopper stored apart	✓		
Knives and choppers handles in good condition	✓		
Insulated cooking gloves available	✓		
Stainless steel chopping gloves available		✓	
Plastic gloves used to prepare food	✓		
Kitchen personnel endowed with a minimum of two set of cotton (100%) uniforms, paper hat and good condition shoes. Plastic aprons are forbidden		✓	
List of authorized personnel posted – Authorized personnel only sign posted	✓	✓	

# DAELIM

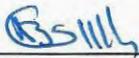
Weekly HSE meeting for kitchen personnel, waiters and room boys	✓		
Kitchen personnel and waiters passed food handling certificate less than 6 months old		✓	
Kitchen personnel and waiter hygiene include clean nails, short and clean hairs, no skin infections or cuts on hands and a daily hygiene	✓		
Personnel trained in using kitchen safety equipment		✓	
Personnel trained in first aid	✓		
Personnel aware of hand washing after handling raw aliments against salmonellas			✓
Use of non toxic insecticide		✓	
<b>KITCHEN (FIRE HAZARD)</b>			
Kitchen equipped with CO2 extinguisher - personnel trained in using		✓	
Kitchen equipped with a fire blanket - personnel trained in using it on burning drum	✓		
Only specific fryer is used to fry, frying pan is banned		✓	
Kitchen fitted with a manual emergency gas cut off inside	✓		
<b>KITCHEN – GAS COOKING</b>			
Kitchen / cooker fitted with an emergency gas cut off painted in red / yellow on the main gas pipe	✓		
Gas bottles in use are connected outside the kitchen, protected from the sun		✓	
Gas bottles are stored, buried or place in such a way to prevent deflagration and protected from the sun (buried, behind a sand bag wall...). Empty and full gas bottles are segregated, chained together and stored upright			✓
Proper gas pipes are used and they are changed every 6 months or as marked. Pipe-collar are used	✓		
Cooker fitted with an emergency cut off button			✓
<b>MESS</b>			
Capacity equals at least 50% of personnel number	✓		
Sufficient lighting and emergency light fitted	✓		
Access between kitchen and mess is stable and protected from sand/pests	✓		
Mess fitted with a fly killer	✓		
Mess fitted with a fire alarm		✓	
Mess is a no smoking place – signs are posted	✓		
Mess is fitted with mosquito nets on openings		✓	
Waiters wear clean uniforms	✓		
<b>FOOD HANDLING</b>			
Food is kept with lid in fridge with raw food down and cooked food in the upper compartments	✓		
Raw eggs are kept in specific places in fridges, avoiding contact with other food	✓		
No opened can stored in fridges (botulism)	✓		
Frozen food are wrapped in plastic sheets and labeled (type of product and freezing date)		✓	
Cold food kept covered		✓	
Food preparation (cutting and peeling) on work tops, at distance from prepared food	✓		
Fruits and vegetable are washed before consumption	✓		
Dry food and seasoning are stored in hermetic boxes			✓
Cooking oil is changed once a week	✓		
Food storage is limited to a minimum necessary in the kitchen	✓		
Defrosting in water is forbidden but can be done in hermetic container inside fridges	✓		
Cook washes his hands after action without food handling and dried by napkin	✓		
The finger nails of the cook is short and clean	✓		
Good ventilation or cooling provided, room temperature minimal		✓	
Store adequate in size – no over crowding		✓	
Shelving constructed of material that can be easily cleaned – Well painted plywood or aluminium / stainless steel.		✓	
All food stuffs properly organized or shelves & labelled accordingly		✓	
All bulk foods stored in covered containers.	✓		
Washing soaps/detergents isolated from food items	✓		

# DAELIM

Inspection Remarks:

There is no ventilation and exhaust system in kitchen. Drain pipes under sinks are blocked by waste material.

Name: Saboor

Signature: 

→ Imran shaukal - Owner  
 → Inayat - Manager  
 → Hamnan - Pamer meeli

## Gulpur Hydropower Project Health and Hygiene Checklists

### 1. Area: Food Store

Department: HSE  
 Date: 15-Jan-16

	Result		
	Y	N	N/A
<b>Y=Yes</b>			
<b>N=No</b>			
<b>N/A= Not Applicable</b>			
Enforcement of "Authorized Personnel Only"			✓
Good ventilation or cooling provided			✓
Dry food stuff stored in its selling packaging	✓		
All bulk foods stored in covered containers			✓
Food store with sufficient lighting	✓		✓
Food store equipped with air conditioning for dry and raw products	✓		
Products sorted on shelves with heavy ones down and lighter ones on upper shelves			✓
No egg based food stored in the dry store except lyophilized ones			✓
Dry products in plastic bags are poured in plastic hermetic containers after opening	✓		
Dry food in sacks and vegetables are stored lifted from floor (pallets)	✓		
Food stock checked and recorded on a daily basis to rotate stocks			✓
Products out of use-by date, damaged cans and packaging are to be discarded	✓		
Store adequate in size - no overcrowding	✓		
Electrical fittings adequate	✓		
Fruits and vegetables should be stored in well-ventilated areas and protected from insects, rodents and animals. Do not store fruits and vegetables on floors.			✓
Immediately discard fruits and vegetables when they start to spoil. If there is only a small bad spot, cut it off and use the remaining part.	✓		
All bulk foods stored in covered containers			✓
Daily products & tinned foods inspected regularly for expired items	✓		
Flammable items (Matches, napkins, etc) not stored with food stuffs	✓		
General high standard of cleanliness and tidiness			✓
Discarded paper cartons & packing boxes not accumulated			✓
Posted schedules for weekly cleaning of food store			✓
Posted schedule for inspection of standards by camp boss			✓
Food store audited minimum weekly by medical staff			✓
Electrical fittings adequate	✓		
Restocking controlled and inspected by camp boss			✓
Emergency firefighting equipment nearby			✓
The entry date of the food will be clearly labelled	✓		
Food samples prepared on daily basis	✓		
Care should be taken to rotate stored foodstuffs so that expiration dates are not exceeded.			✓
<b>Freezers</b>			
Temperature gauge fitted			
Record of temperature (below -18°C)			
Clean			
No signs of blood staining			
Correct separation of food			
<b>Signs /</b>			
No Smoking	✓		

*Not working*

# DAELIM

Authorized personnel only	✓		
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Audit Remarks:

Name:

Sahibzada Tanzeel Ahmet

Signature:

Tanzeel Ahmet

# DAELIM

## 2. Area: kitchen

Department:

Date: 15-Jan-16

Y=Yes N=No N/A= Not Applicable	Result		
	Y	N	NA
Mosquito screens at doors and windows	✓		
Enforcement of "Authorized Personnel Only"		✓	
The name list of the authorized personnel is pasted in entrance		✓	
Worktops and sinks made of stainless steel	✓		
Sinks sized to enable cleaning any kitchen utensils or drums	✓		
Hot, soapy and drinkable water available for washing dishes	✓		
Drinkable water (purified and/or filtered) used to wash and cook food	✓		
Dedicated sink for hand washing with antiseptic soap (liquid dispenser) and nail brush	✓		
Kitchens equipped with efficient air extractors	✓		
Sufficient lighting and emergency light fitted		✓	
No leakage on the floor, no leakage on taps or under sinks	✓		
Water analysis done before operation starts then every month. Initial test must mention chemical and heavy metals status, and then regular tests would have at least biological parameters. Water samples have to be collected from tanks, water trucks and kitchen	✓		
Standard hygiene signs set, chopping colour code, handling of frozen food, and water saving signs posted and respected. Posters must be translated in English and local	✓	✓	
No smoking in kitchens	✓		
General kitchen and fridges/freezers cleaning schedules posted and respected	✓	✓	
Extractors' filters shall be cleaned on a weekly basis	✓	✓	
Kitchens and messes tidied and cleaned after each meals	✓	✓	
Waste bins with lids, respecting segregation plans	✓	✓	
Use of waste plastic bag compulsory		✓	
Waste bins emptied after each meals	✓	✓	
Waste bins cleaned with detergent on a weekly basis		✓	
Kitchen fitted with a fly killer light		✓	
"Mini-maxi" type thermometers in each fridges and freezers		✓	
Freezers defrosted at least once a month		✓	
Fridges cleaned on a weekly basis; cleaning schedule posted and records kept		✓	
Max fridges temperature is 0-5°C		✓	
Standard freezers temperature is -18°C		✓	
Fridges and freezers temperatures are recorded on a daily basis (form posted on each fridge)		✓	
Packaging removed before food is placed in freezers		✓	
Minimum of three identified plastic chopping boards (raw meat – cooked meat – vegetables and fruits)		✓	
Dedicated towels or absorbent paper to dry hands		✓	
Dedicated and clean towels to dry dishes		✓	
Kitchen utensils and devices clean and tidy – knives and chopper stored apart		✓	
Knives and choppers handles in good condition		✓	
Insulated cooking gloves available		✓	
Stainless steel chopping gloves available		✓	
Plastic gloves used to prepare food		✓	
Kitchen personnel endowed with a minimum of two set of cotton (100%) uniforms, paper hat and good condition shoes. Plastic aprons are forbidden		✓	
List of authorized personnel posted – Authorized personnel only sign posted	✓		

Tempered -  
13/Jan

No sampling done

17/Jan



# DAELIM

Inspection Remarks:

Fire extinguisher expired.  
Voltage box open.  
Broken glass.

Name: Sahibzada Tanzeel.

Signature: Tanzeel

## DAELIM

→ No cleaning Schedules posted

→ Mess

→ food store

→ Labors side

→ No plastic Bag. →

Manager informed its short.

→ Noor Alam / cook. (Dedicate wrong statement)

→ Used oil in use.

→ Exhaust in bread preparation room dirty

→ Uniform. - All water provided

→ Aprons worn out

→ No identification of pulses supply, old or expire

# DAELIM

## 4. Area: Health and Hygiene

Department:  
Date: 15-Jan-16

Y=Yes N=No N/A= Not Applicable	Result		
	Y	N	NA
<b>Messing area</b>			
Floor keep clean	✓		
Table and chairs are tidy and cleaning	✓		
Window and door are fitted the fly screen	✓		
Utensils are sterilized by heater			✓
Freezer is cleaned and tidiness, temperature is recorded		✓	
Safety warning signs were pasted			
<b>Kitchens</b>			
Clean, hygienic, washable floor			
Separate chopping boards, knives			
Disinfected the work table and tools daily			
Stainless work surface			
Surfaces smooth, easily cleaned			
Pest killer is function			
<b>Kitchen personnel</b>			
Medically checked every 3 months		✓	
Clean uniforms/hats/gloves		✓	
Adequate laundry facilities		✓	
Convenience			
Washable floor, running water, liquid soap			
Clean uniforms/hats/gloves			
Hygienic food storage preparation			
Raw food segregated from cooked food			
Food chilled before freezing			
Cooked food stored above ground			
Water not chilled in food freezer			
Kitchen/food preparation areas screened			
Adequate ventilation			
Remain the food sample 48 hours			
Audit Remarks:			
Name: _____			
Signature: <u>Sahibzada (HSE M)</u> <u>Taqatullah</u>			

# DAELIM

## 5. Area: Clinic

Department: HSE

Date: 15-01-2016

Y=Yes N=No N/A= Not Applicable	Result		
	Y	N	N/A
Clinic manned by medical doctor or nurse at all times	✓		
Medical staff attention the clinic are accommodated near clinic	✓		
Medical Doctors involved in first aid training & Health lectures to employees	✓		
All new staff are medically checked before employment	✓		
Referral clinic and DHQ established	✓		
Referral clinic at Kotli has 24 hour coverage for emergency	✓		
MEDEVAC plan established and drill carried out monthly	✓		
Medical statistics are evaluated and medical LTI's investigated	✓		
Camp is regularly sterilized, minimum once per month	✓		
Medical doctor advise on accident classification	✓		
Door of clinic large enough for stretcher access	✓		
Clinic is well ventilated & cooled	✓		
Adequate clinic for patient consultant			✓
Wash hand basin with running water & paper towels available	✓		
First aid materials store in available, clean & organized	✓		
Staff wear clean white uniforms, minimum 2 pairs per staff member	✓		
A suitable system is in place for record keeping arranged properly in filing cabinets.	✓		
Medical equipment was maintained by medics	✓		
Medics know well the listing of medicine	✓		
Communication is available for medics	✓		

Audit Remarks:

Name:

Signature



# Monthly Inspection Report

# Inspection Report

Document: IR Version: D01

1st Report

**Daelim & Lotte**

12<sup>th</sup> July 2015

DAELIM-LOTTE  
House #172, Street #7, Phase 3,  
Bahria Town, Islamabad  
DAELIM-LOTTE

DAELIM-LOTTE has prepared this report in accordance with the instructions of Best Industrial Practices for the client's sole and specific use. Any other persons who use any information contained herein do so at their own risk.

<b>Inspection Report: Gulpur hydropower Project</b>		
<b>HSE INSPECTION REPORT</b> Duration: June 2015	<b>Health Safety &amp; Environment</b>	<b>DAELIM</b> <b>LOTTE E&amp;C</b>
<b>Prepared By the Health and Safety Manager EPCC –</b>		
<b>Reviewed By the Health and Safety Manager EPCC</b>		Date:12-07-15
<b>Project Code:</b> IR-01	<b>Pages:</b> 10	<b>Distribution:</b> OE, EPCC,Mira

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## Appendices

### 1 Inspection of Food Store

As per the Inspections performed in June and July 2015, following non-compliances were noted;

No.	Non Compliances	Recommendations
1	The entry date of food was not labelled.	Entry date for each food must be clearly labeled so that expiration dates are not exceeded.
2	Rotation of food stuffs was not ensured.	Care should be taken to rotate stored food stuffs so that the expiry dates are not reached.
3	Cooling capacity of deep freezer was found insufficient.	Freezer should be repaired so that a temperature as low as -18 °C can be achieved.
4	Refrigerator has some food items packed in Plastic Bag.	All food items must not be kept in plastic bags inside refrigerator.
5	Kitchen staff does not use gloves while cutting & handling food items.	Kitchen staff must use steel gloves for cutting & plastic gloves for handling food items.

## 2 Inspection of Kitchen

Following are the non-compliances & recommendations based on the HSE inspection of kitchen;

No.	Non Compliances	Recommendations
1	Mosquito screens at doors & windows were not fulfilling the purpose.	Gap between wall & screen should be removed.
2	The name list of authorized personnel was not posted in the entrance.	List of authorized personnel should be displayed in the entrance.
3	There was no dedicated sink with hand sanitizer for washing hands, for the personnel.	APs working inside kitchen should have their dedicated sink with hand sanitizer.
4	There was leakage from the sink pipes.	Leakage from pipes should be rectified.
5	No thermometer is there in the fridge & freezer to show temperature at different points.	"Mini-Maxi" type thermometer in each fridge & freezer is recommended.
6	There were no dedicated towels to dry hands.	Dedicated towels & absorbent paper should be used for drying hands.
7	Gloves were not available for use.	It is highly recommended to use insulated cooking gloves, stainless steel chopping gloves, plastic gloves in the kitchen.
8	Kitchen personnel were not wearing proper uniform.	Kitchen personnel should be endowed with a minimum of two sets of cotton uniforms, paper hat & good condition shoes.
9	Kitchen personnel & waiters do not have food handling certificates.	Kitchen personnel & waiters should be certified in food handling.
10	Personnel not properly trained in using kitchen safety equipment.	They should be trained to use the kitchen safety equipment.
11	Kitchen / cooker not fitted with an emergency gas cut off valve.	Kitchen / cooker should be fitted with an emergency gas cut off valve painted in red /yellow on the main gas pipe.
12	Insect killer / fly catcher in the mess is out of order.	They should be repaired or replaced ASAP.

### 3 Inspection of Buildings

No	Non Compliances	Recommendations
1	Some of the HSE signage are tampered with, at Block C.	HSE signage should not be tampered or removed from the walls.
2	In Block C&E some of the First Aid Kits are missing.	First Aid Kits should never be stolen or kept in rooms. Their presence & amount should be ensured by all residents.
3	Secondary cover for some of the tube lights is broken & some of the lights are out of order.	All the electrical appliances should be properly maintained by the electrician.
4	At block C & E, some of the rooms have hangers mounted on the wall just below the tube light.	Since clothes are combustibles. So they must be placed away from electrical wiring.
5	Some of the water pipes below the sinks are broken at Block E	All piping inside should be properly maintained by Plumber.
9	Some of the shower valves are broken at Block C.	All valves inside baths & toilets should be properly maintained by Plumber.
10	Crakes on the walls near the ceiling.	All the walls should be inspected by the camp boss & repairs should be made.
11	'Some of the door locks are broken at Block C.	The door locks needs to be repaired.
12	Some of the washing shower pipes are broken.	Should be repaired by the plumber.
13	Windows of Block E & C are not tidy & clear.	All windows should be properly cleaned & maintained.
14	Mud inside the wash rooms at Block C & E.	All washrooms & bathrooms should be kept clean & tidy.
12	At Block C & E some of the ceiling is broken.	Such repairs should be make immediately.
13	At the entrance of Block C, there is stagnant water after each rain.	It should be rectified.

14	Resident are complaining about water supply	Water supply to be maintained well by Sub Contractor administration
15	Food material taken into the rooms causing reptiles and snakes intrusion risk	The residents to be warned about the hazards of food material keeping inside the rooms and inform the Sub Contractor administration about issue.
16	Sweepers are lacking in buildings	Each building to be maintained by dedicated sweeper for general cleanliness and toilets by Sub Contractors
17	Waste Material generated is present in front of the buildings	The waste material stored in front of the waste bins should be fetched on regular intervals and on daily basis. Transportation of materials to dedicated place is issue of sub Contractor and responsibility.

# Appendix A

Photographs

## HSE Inspections



*No Smoking signage tampered with*



*First aid box missing*



*Secondary cover of tube light broken*



*Clothes hangers mounted beneath tube light*



*Shower & tape valve broken*



*Pipe beneath the sink is broken*



*Tool Box Meeting*



*Scattered Tools in M Block building of TTC*

## Daelim Inspection Committee



*HSE Manager conducting inspection of buildings*



*'General Manager EPCC and Finance Manager among team of inspection*



*GM EPCC and Security Manager inspecting toilets*

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**Exhibit 13 – Medical Report March-December 2015**

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(Please see the next page)

Medical Report -Daily , Weekly Monthly By Medical Department











20-May-15	8:50:00 AM	Murtaza	TTC	HSE Officer	Flu	Tab Panadol CF04 Qumic 04
20-May-15	11:38:00 AM	Nafes	TTC	Driver	Dental Pain	Cap Amoxil 03 Dicloran 03 Flagyl 03
20-May-15	11:40:00 AM	zeeshan	AES	Labor	Flu	Tab Qumic 3 Panadol CF 03
20-May-15	11:50:00 AM	Adnan	AES	Labor	Weakness	Calci 01
20-May-15	1:36:00 PM	Atisham	TTC	Labor	Urinary tract infection	Cap Amoxil 03 Buscopan plus 03 Diagesic 02
20-May-15	2:30:00 PM	Khaista	TTC	Labor	Acute Peptic Disease	Syp Dijex Mp 01 Tab Panadol 04
20-May-15	4:30:00 PM	Fraz	Restaurant	Cooks	Hypertension	calci 02
20-May-15	5:52:00 PM	M Zubir	TTC	Driver	Headache	Tab Zopan DS 02
21-May-15	7:30:00 AM	Ansar	Daelim	Store Keeper	Pain	Tab Dicloran 05 Diagesic p 02
21-May-15	7:35:00 AM	Waheed	TTC	Mason	Throat infection	Tab erythocin 02 Diagesic 02
21-May-15	9:50:00 AM	Najeeb Ullha	TTC	Steel Fixer	Injury	Wash Wound
21-May-15	9:55:00 AM	Hamza	TTC	Steel Fixer	Injury	Wash Wound
21-May-15	10:55:00 AM	M Abdulla	TTC	Labor	Fever	Cap Amoxil 04 Tab Panadol 04
21-May-15	11:00:00 AM	Arshad	AES	Labor	Eye	Tab Dicloran
21-May-15	4:00:00 PM	M Tahir	J-E	Foreman	Pain	Tab Dicloran 02 Diagesic 2 Calci 02
21-May-15	5:28:00 PM	Amjid	TTC	Labor	Pain	Tab Dicloran 02 Panadol 02
21-May-15	6:10:00 PM	Babar	TTC	Supervisors	Headache	Tab Panadol 05
21-May-15	6:15:00 PM	Najeeb Ullha	TTC	Surveyor	Throat infection	Tab Erythocin 03 Panadol CF 03 Diagesic 02
1-Jun-15	8:00:00 AM	M Tariq	Security	Security guard	Abdominal pain	Tab Zantac 3 ORS 1 Syp Dijex MP 01
1-Jun-15	10:57:00 AM	M Naseem	Sambu	Driver	Throat infection	Tab Erythocin 03 Panadol 03
1-Jun-15	11:24:00 AM	Zulfiqar	Daelim	Officer	Pain	Tab Dicloran 02 Diagesic 02
1-Jun-15	11:45:00 AM	Azeem	Daelim	Driver	Abdominal pain	Tab Diagesic 02 Flagyl 03
1-Jun-15	5:58:00 PM	Israr Shah	ACT	Labor	Injury	ASD
1-Jun-15	6:30:00 PM	M Shir	ACT	Labor	Injury	ASD
1-Jun-15	6:35:00 PM	Imtiaz	Security	Security guard	Abcess	Cap Amoxil 03 Panadol 03
2-Jun-15	7:40:00 AM	Shahid	TTC	Mason	Back Pain	Tab Dicloran 02 Diagesic p 02
2-Jun-15	9:25:00 AM	Abid	Restaurant	Helper	Diarrhea	Tab Novidate 04 Flagyl 04 ORS 02 Calci 01
2-Jun-15	1:45:00 PM	Nadeem	TTC	Steel Fixer	Urinary tract infection	Tab Novidate 03 Tab Dicloran 02
2-Jun-15	3:30:00 PM	Gulam Mustafa	Sambu	Operator	Injury	Tab Dicloran 02
2-Jun-15	4:07:00 PM	Israr	Restaurant	Waiter	Flu	Tab Panadol CF 02
2-Jun-15	4:15:00 PM	Gulam Muiduiadeen	TTC	Labor	Pain	Tab Dicloran 02
2-Jun-15	4:30:00 PM	Najeeb Ullha	TTC	Surveyor	Allergy	Tab Zolan 02
2-Jun-15	4:45:00 PM	Hadir	TTC	Surveyor	Headache	Tab Panadol 02
3-Jun-15	9:25:00 AM	Akhter	TTC	Labor	Throat infection	Tab Panadol 02
3-Jun-15	12:19:00 PM	Khasta Rehman	TTC	Labor	Injury	Wash ASD
3-Jun-15	1:00:00 PM	Amir Rawan	TTC	Labor	Injury	Wash Tab Panadol 03
3-Jun-15	2:30:00 PM	Abid Ali	TTC	Helper	Abcess	Cap Amoxil 3 Panadol 03
3-Jun-15	3:30:00 PM	Maraj Ali	TTC	Mason	Abdominal pain	Tab Novidate 3 Flagyl 03 Buspan plus 02 ors 01 Zantac 02
3-Jun-15	6:16:00 PM	Farooq	Sambu	Cleaners	Throat infection	Tab Qumic 3 Diagesic 3 Zantac 2
4-Jun-15	7:30:00 AM	Dil Mohammad	Sambu	Foreman	Allergy	Tab Dicloran 03
4-Jun-15	12:20:00 PM	Zil Hasanain	TTC	Helper	Injury	
4-Jun-15	12:25:00 PM	Majid khan	TTC	Helper	Injury	
4-Jun-15	2:19:00 PM	M Waqas	Sambu	Welder	Burn	Tab Dicloran 03 polyfex skin
4-Jun-15	2:25:00 PM	Madaser khan	Sambu	Store Keeper	Weakness	Calci 02
4-Jun-15	2:30:00 PM	Sajid Ali	Sambu	Operator	Dental Pain	Cap Amoxil 03 Flagyl 03 Zantac 02
4-Jun-15	3:36:00 PM	Khadam Hussan	Daelim	Operator	Injury	Wash Tab Dicloran 03
4-Jun-15	3:40:00 PM	M Islam	TTC	Operator	Allergy	Tab Zolain 02
4-Jun-15	4:17:00 PM	Alcef	Daelim	Mechanic	Acute Peptic Disease	Syp Digex M P 01
4-Jun-15	5:50:00 PM	saeed Badash	Sambu	Operator	Diarrhea	Tab Navidate 03 Flagyl 03 ORS 02
4-Jun-15	6:10:00 PM	Zahid Iqbal	Daelim	Engineer	Pain	Tab Dicloran 03
4-Jun-15	6:15:00 PM	Ibrar	Steco	Labor	Eye	Wash EYE
4-Jun-15	6:20:00 PM	Abid	Restaurant	Cooks	Pain	Tab Diagesic 03 Calci 02
5-Jun-15	8:00:00 AM	M Rafiq	AES	Labor	Diarrhea	Tab Novidate 3 Flagyl 03 Panadol 03
5-Jun-15	8:30:00 AM	Mazafar	TTC	Steel Fixer	Pain	Tab Diagesic 03
5-Jun-15	9:50:00 AM	M Hanif	Restaurant	Cooks	Burn	Wash Tab Dicloran 04
5-Jun-15	10:05:00 AM	Nasir Javid	TTC	Labor	Abcess	I D Cap Amoxil 03 Dicloran 03
5-Jun-15	10:55:00 AM	Zahid	Daelim	Engineer	Dental Pain	Tab Dicloran 05 Flagyl 03
5-Jun-15	11:47:00 AM	M Saghir	Daelim	Security guard	Acute Peptic Disease	Tab Zantac 03
6-Jun-15	7:48:00 AM	M Younis	Daelim	Electrician	Pain	Tab Dicloran 03
6-Jun-15	7:55:00 AM	Haider	TTC	Surveyor	Diarrhea	Tab Novidate 03 Flagyl 03 ORS 01
6-Jun-15	9:19:00 AM	Bilal	Police	Police	Diarrhea	Tab Novidate 03 Flagyl 03 Buscopan Plus 02 ORS 02
6-Jun-15	9:20:00 AM	Nasir Javid	TTC	Operator	vomiting	Inj Dicloran im Inj Devom im Stat
6-Jun-15	9:24:00 AM	Hamad	ACT	Labor	Abdominal pain	Tab Qumic 3 Dicloran 03
6-Jun-15	9:50:00 AM	Ayaz	Daelim	Driver	Abcess	Cap Amoxil 3 Panadol 03
6-Jun-15	10:28:00 AM	M Hanif	TTC	Security guard	Fever	Tab Diagesic P 03
6-Jun-15	11:07:00 AM	Gulam Mustafa	Sambu	Operator	Throat infection	Tab Erythocin 3 Dicloran 03
6-Jun-15	12:20:00 PM	M Sharif	TTC	Operator	Acute Peptic Disease	Tab Zantac 04 Syp Digex mp 01
6-Jun-15	12:30:00 PM	Soaib	Steco	Labor	Diarrhea	Tab Novidate 03 Flagyl 3 ORS 01
6-Jun-15	12:40:00 PM	Hakam Sharif	Sambu	Labor	Injury	Tab Dicloran 03
6-Jun-15	4:00:00 PM	Faheem	Daelim	Electrician	Injury	
6-Jun-15	5:00:00 PM	M Idrees	Daelim	Electrician	Pain	Tab Dicloran 03
6-Jun-15	5:22:00 PM	M Shair	TTC	Labor	Flu	Tab Panadol CF 03
6-Jun-15	6:35:00 PM	Sultan Zaib	TTC	Helper	Allergy	Tab Erythocin 03 Panadol 03 Zalain 02
7-Jun-15	7:20:00 AM	Sajid	Restaurant	Cooks	Pain	Tab Diagesic p 3 Dicloran 01
7-Jun-15	7:30:00 AM	M Hanif	Restaurant	Cooks	Burn	Cap Amoxil 03 Dicloran 03 Change Dressing
7-Jun-15	8:20:00 AM	M Ayub	Sambu	Surveyor	Acute Peptic Disease	Tab Zantac 03 Syp Dijex Mp 01
7-Jun-15	9:25:00 AM	M Akram	TTC	Surveyor	Acute Peptic Disease	Tab Zantac 03 Syp Dijex Mp 01
7-Jun-15	9:35:00 AM	Hameed	TTC	Surveyor	Throat infection	Tab Erythocin 03 Diagesic 03
7-Jun-15	11:15:00 AM	Akhlaq	TTC	Operator	Flu	Tab Panadol CF 03 Zalain 02
7-Jun-15	2:00:00 PM	Majid khan	TTC	Labor	Allergy	Tab Zalain 02
7-Jun-15	2:10:00 PM	M Abdulla	TTC	Labor	Abdominal pain	Tab Buscopan plus 02
7-Jun-15	3:10:00 PM	M Haroon	Restaurant	Helper	Flu	Tab Panadol CF 03
7-Jun-15	4:00:00 PM	Maraj Ali	TTC	Driver	Loose motion	Calci 01
7-Jun-15	4:20:00 PM	Adil Ali	TTC	Surveyor	Loose motion	Calci 01
7-Jun-15	5:30:00 PM	Hafeez	Daelim	Surveyor	Cough	Tab Erythocin 03 Zalain 02
8-Jun-15	8:00:00 AM	M Ramzan	TTC	Labor	Throat infection	Tab Qumic 03 Diagesic p 03
8-Jun-15	8:30:00 AM	M Zamin	TTC	Labor	Urinary tract infection	Tab Qumic 03 Dicloran 03
8-Jun-15	9:50:00 AM	Khasta Rehman	TTC	Labor	Hearoride	Tab Qumic 03 Flagyl03 Diclorab 03
8-Jun-15	4:15:00 PM	Gulam Mustafa	Sambu	Operator	Throat infection	Tab Qumic 3 Panadol 03
8-Jun-15	5:10:00 PM	M Sajid	TTC	Labor	Eye	Remove Foran Bady
8-Jun-15	6:25:00 PM	Shamiraz	ACT	Supervisors	Throat infection	Tab Qumic 04 Panadol 04
8-Jun-15	6:40:00 PM	Naseeb	TTC	Security guard	Dental Pain	Tab Flagyl 03 Cap Amoxil 03 Dicloran 03
9-Jun-15	8:28:00 AM	Jamil	Police	Police	Abdominal pain	Tab Novidate 02 Flagyl 1 Buscopan Plus 01
9-Jun-15	8:43:00 AM	Maqsood	Restaurant	Helper	Hypertension	Tab Copation 1
9-Jun-15	9:25:00 AM	Ali Imran	AES	Welder	Headache	Tab Zopan DS 02 Calci 01
9-Jun-15	1:42:00 PM	M Bashir	Security	Security guard	Hypertension	Tab Copatin 25 S/I Stat Reffer to DHQ
9-Jun-15	2:30:00 PM	M Sajid	TTC	Labor	Back Pain	Tab Dicloran 02
9-Jun-15	4:00:00 PM	m saeed	JV-1	Driver	ENT	Tab Dicloran 03 Erythocin 03
9-Jun-15	5:20:00 PM	M Safder	AES	Welder	Allergy	Tab Zalain 02
10-Jun-15	7:00:00 AM	Hamad	Daelim	Laboratory Assistant	Diarrhea	Tab Novidate 3 Flagyl 03
10-Jun-15	7:20:00 AM	Bacha Khan	TTC	Labor	Back Pain	Tab Diagesic p 03
10-Jun-15	8:00:00 AM	M younas	Security	Security guard	Pain	Tab Dicloran 3 Diagesic p 3
10-Jun-15	8:40:00 AM	Mana Khan	TTC	Operator	Injury	ASD Tab Panadol 03
10-Jun-15	9:51:00 AM	m ifran	TTC	Supervisors	Acute Peptic Disease	Tab Zantac 2 Syp Dijex Mp 01
10-Jun-15	9:55:00 AM	M Ayaz	TTC	Supervisors	Diarrhea	Tab Flagyl 03 Novidate 03
10-Jun-15	11:20:00 AM	israr ahmed	Restaurant	Waiter	Throat infection	Tab Erythocin 03 Panadol CF 03
10-Jun-15	12:10:00 PM	M Azhar	Sambu	Operator	Weakness	Calci 01 ORS
10-Jun-15	1:20:00 PM	Adeeb	TTC	Helper	Injury	
10-Jun-15	1:36:00 PM	Kamran	TTC	Painter	Fever	Cap Amoxil 03 panadol 03
10-Jun-15	3:40:00 PM	Rehmat	TTC	Labor	Headache	Tab Panadol 03
10-Jun-15	3:50:00 PM	Shoab	Police	Police	Throat infection	Cap Amoxil 03 Panadol 03
11-Jun-15	7:20:00 AM	Shair Rehman	Sambu	Foreman	Back Pain	Tab Diageric 03 Dicloran 03















































Medical Screening Record for Staff / Sample Reports



# Al-Qamaran Clinical Lab

DHQ Hospital Road, Kotli Azad Kashmir .  
Ph: 05826-445691

24 hrs. Service  
Fully Automated  
& Computerized

**Patient Name:** Farooq Ahmed      **Age:** 30yrs      **Sex:** Male  
**Specimen:** Blood      **Collection:** Out      **Date:** 25-06-2015  
**Test Req:** CP, ESR      **Rep Date:** 25-06-2015  
**Ref By:** Self      **Lab No:** 9630-29

Professional  
Staff

## HAEMATOLOGY REPORT

TEST	RESULT	UNITS	REF. VALUES
Haemoglobin	16.2	g/dl	M=14-17.5, F=12.3-15.3
WBC's Counts	5,100	/cmm	4000-11000

## DIFFERENTIAL LEUCOCYTES COUNT

Neutrophils	42	%	40 - 75
Lymphocytes	52	%	20 - 45
Monocytes	05	%	02 - 10
Eosinophils	01	%	01 - 06
Basophils	00	%	00 - 01
ESR	04	mm/1 <sup>st</sup> Hr	M: 0 - 9 , F: 0 - 15
Platelets Count	163,000	/Cmm	150,000 - 4,50000
TRBCs	5.9	Million/ul	M:4.5 - 6.5 F:4.0-6.0
PCV/HCT	50	%	32 - 53
MCV	85	fl	79 - 100
MCH	28	Pg	27 - 32
MCHC	33	g/dl	31 - 37
RDW	43	fl	31-48

**Note:** Results Generated from Sysmex KX-21(Made in JAPAN) Fully Automated Haematology Analyser

Same Day  
Reporting

Excellent in  
Quality.

Erroneous Result  
Contact 45691  
or Visit Lab

Collection Point:  
Link Road, Opp. Aftab-E-Qadria  
Hospital. 0312-9445691

Technologist

القمران کلینیکل لیب ڈی ایچ کیو ہسپتال روڈ کوٹلی آزاد کشمیر

Haematology  
Histopathology

Clinical Chemistry  
Special Chemistry

Micro Biology  
Serology



# Al-Qamaran Clinical Lab

DHQ Hospital Road, Kotli Azad Kashmir .  
Ph: 05826-445691

24 hrs. Service  
Fully Automated  
& Computerized

**Patient Name:** Farooq Ahmed    **Age:** 30yrs.    **Sex:** Male  
**Specimen:** Blood    **Collection:** Out    **Date:** 25-06-2015  
**Test Req:** BSR    **Rep Date:** 25-06-2015  
**Ref By:** Self    **Lab No:** 9630

Professional  
Staff

## Bio Chemistry

Same Day  
Reporting

<u>Test</u>	<u>Result</u>	<u>Units</u>	<u>Normal Values</u>
<b>Serum:</b>			
BSR	75	mg/dl	(80 – 140 mg/dl)
	4.2	m mol/l	(4.4 – 7.7 m mol/l)

Excellent in  
Quality.

Erroneous Result  
Contact 45691  
or Visit Lab

~~Technologist~~

Collection Point:  
Link Road, Opp. Aftab-E-Qadria  
Hospital. 0312-9445691

القمران کلینکل لیب ڈی ایچ کیو ہسپتال روڈ کوٹلی آزاد کشمیر

Haematology  
Histopathology

Clinical Chemistry  
Special Chemistry

Micro Biology  
Serology



# Al-Qamaran Clinical Lab

DHQ Hospital Road, Kotli Azad Kashmir .  
Ph: 05826-445691

24 hrs. Service  
Fully Automated  
& Computerized

**Patient Name: Farooq Ahmed Age:30Yrs. Sex: Male**

**Specimen: Blood**

**Collection: Out Date: 25-06-2015**

**Test Req: HBsAg, HCV, HIV ½**

**Rep Date: 25-06-2015**

**Ref By: Self**

**Lab No: 9630**

Professional  
Staff

## SEROLOGY

<u>TEST</u>	<u>RESULT</u>
Hepatitis-B-Surface Antigen (Australia Antigen)	Non Reactive
Antibodies To Hepatitis-C-Virus	Non Reactive
HIV1/2 (I.C.T.Method)	Negative

Same Day  
Reporting

Excellent in  
Quality.

Erroneous Result  
Contact 45691  
or Visit Lab

**Technologist**

Collection Point:  
Link Road, Opp. Aftab-E-Qadria  
Hospital. 0312-9445691

القمران کلینیکل لیب ڈی ایچ کیو ہسپتال روڈ کوٹلی آزاد کشمیر

Haematology  
Histopathology

Clinical Chemistry  
Special Chemistry

Micro Biology  
Serology

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## **Exhibit 14 – Summary of Complaints**

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(Please see the next page)

Gulpur Hydropower Project Community Complain's & Events Register						
complaint No	Name	Location	Date & details of complaint	Name of Receiver	Action taken /required	Status/ Remarks
C00055	Mirdad Hussain S/O Badar Ali	Seharmandi Kamilli	15-12-2015 My home is near to site CRS due to blasting my house is badly affected. Two room which are for cattle and goats are completely damaged and residential house walls, floor & roof have cracks because of blasting kindly visit & compensate the loss.	Tariq Baralvi CLO	CLO told this issue to manager CSR Mira power , manager HSE Daelim & manager planning. Manager HSE visited the affected house and got pictures. CLO arranged a meeting with Daelim managers along with affected person . Mutually it was decided that 100000 will be given to affected person against this loss & each year onwards Daelim will pay \$500 to that person. The decided amount will be paid by daelim with in two weeks.	Issue is sloved n 22-12-2015 & affected person is satisfied
C00054	Raja shokat S/O Umar Hayat (APS)	Barali	13-12-2015 project is working for more then one year but community of Barali is still deprive from its basic right which were given to community according to rules and regulations. We were hoping for different kind of services from the project such as jobs , transport & business. if we are not qualify then EPPC can apply other options , so kindly give us jobs and other leagle rights .	Tariq Baralvi CLO		
C00053	Raja Adil focal person for Extreme engineer	Muzaffarabad AIK	10-12-2015 complaint against procurement department regarding sand & crush supply contract. Mr Adil said that he submitted bid for above items but contract is given to pir & co without adopting any proper procedure . Our company is not called or informed by procurement department . why we are ignored	Tariq Baralvi CLO	CLO arranged the meeting of Mr Adil with planning contractor Manager Mr.Moon Daelim . CLO requested to Mr.Moon that consider the complaint of Extreme Engineer regarding particular case . He gave assurance that Daelim will consider with in possible scope .	on 15-12-2015 meeting was done .
C00052	1:M Abid 2:H Aziz 3:Akhtar Hussain 4:M Ashraf	Rehmani Mohallah Barali	29-11-2015 Due to loud voice of blasting we are disturbed. Over daily work is also disturb specially during rest time other then this our houses are also damage due to high ratio of blasting material. So please night blasting should be prohibited and explosive is use with in limits	Tariq Baralvi CLO	CLO raised this issue to safety manager EPPC and informed about community grvance regarding blasting . The manager has ensured community that in future community grievance will be addressed properly. Blasting voice and margin will control and proper steps will be taken	Community satisfied on 30-11-2015
C00051	Gulbar Hussain S/O Abdul karim	Rehmani Mohallah Barali	25-11-2015 workers & other people are using my land as public path I am requisiting & informing for a long time to built a boundary wall but still no action is taken so once again i am informing for a boundary wall , take immediate action regarding this issue .	Tariq Baralvi CLO	immediate action is taken and security person is appointed , & instructions given to stope the workers. Instructions are also given in TBM by HSE manager.	issue is resolved by security Manager in 27-11-2015
C00050	1: Sarfraz 2:Farooq 3:M Serwar	Barali	16-11-2015 The transport of project such as Dampers , trucks & jeeps are driven very high speed in populate area which can cause accident. So clear instruction should be given to all drivers for careful driving.	Tariq Baralvi CLO	CLO raised the issue to manager HSE Daelim regarding over speed of project drivers . The manager strictly adviced to all drivers in TBM to reduce speed in community area and drive carefully.	11-11-2015 completed
C00049	Muhammad Amtiaz S/O Mian Ishaq	Kotli	10-11-2015 I had a incident of Dumper at dumping area due to helper mistake. PM Pir & co removed three drivers including me from job. He said that our management decided to avoid the local hiring that is why we are removing you.	Tariq Baralvi CLO	CLO raised the issue to manager HSE Daelim regarding drivers removing issue.The manager called Pir & co PM in his office and told him about the sensitivity of issue. He told PM that local are our partner & neighbour and it is their right to get job in the project where they qualify .	issue resolve PM offered to all three drivers for rejoin but they refused willingly
C00048	Hafiz Abas S/O Haneef	Rehmani Mohallah Barali	02-11-2015 Material excavated such as stone are putting on our beloved graves by dampers (trucks). Which means they are disrespecting our graveyard . We can,t bear such kind of activities in graveyard area . I am informing you for cleaning the graves immediately	Tariq Baralvi CLO	CLO visited the graveyard and observed some stones over graves. Then HSE manager is told about the sensativity of graveyard the HSE manager took immediate action and made the graveyard , clean with the help of operational company. The issue is resolved withi a day.	02-11-2015 issue is resolved and Mr Abbas is satisfied by action
C00047	Gulbar Hussain S/O Abdul karim	Rehmani Mohallah Barali	22-10-2015 Complained that material excavated is placed in the way of water in the track leading to culvert . Secondly he said that it was promised with me by the project team composed of Mr Moon . & Mr Hun etc. That project authorities will erect the left over wall with in four weeks. There is no progress about this wall so far.	Tariq Baralvi CLO	CLO submitted the complant to Daelim construction department , asked for clear the place which is filled by excavated material . Further CLO also context with Mr Moon & Mr Hun and remanded them their promise which they made with Mr Gulbar regarding erection of boundary wall . they gave assurance that this wall will be completed within time	
C00046	1: H A ziz 2:Akhtar Hussain 3:Gulbar Hussain 4:Kashif Shazad	Rehmani Mohallah Barali	14-10-2015 We are neighbour of the project & also affected persons . We heard that ground breaking ceremony of the project is going on tomorrow but we are not invited in the ceremony Mira power issued invitation card to partispants but we did not recive cards . we want to attend this ceremony where Prime Minister of pakistan is comming to as a Chief gust. please make sure our partispation in ceremony regarding the status of APS.	Tariq Baralvi CLO	CLO told them that Mira Power always do care & keep regard of APS . The invitation card is issued to APS representatives and local community representatives Due to some restrictions by PM house Mira power could not invite to all APS Because of PM protocole and security risks Mira power is bound to invite limited people CLO raised this issue to Manager CSR manager talked to concern authority Mira power and asked for favour for APS . On 15 of october Manager HRM handed over four invitation cards to CLO on behalf of manager CSR . CLO hanede over cards to four APS . they were obliged to Mira power for this favour	15-10-2015 invitation cards issued to APS .They were very happy & excited because they were authorized to attend the ceremony.
C00045	Altaf Hussain S/O Ghulam Hussain	Rehmani Mohallah Barali	02-10-2015 Our graveyard which is situated in the site , that is going to be disrespt by workers during workig hours . We local community are worried & have serious concern that graveyard should be baricade forom all sides .	Tariq Baralvi CLO	CLO inform Mr Tanzeel manager HSE about the concern of community . He took action and forwarded the complaint to construction department for immediately baricade the community graveyard from all side .	on 3-10-2015 this issue is resolved and graveyard is baricaded from all sides . Now it is fully secured community is very happy .



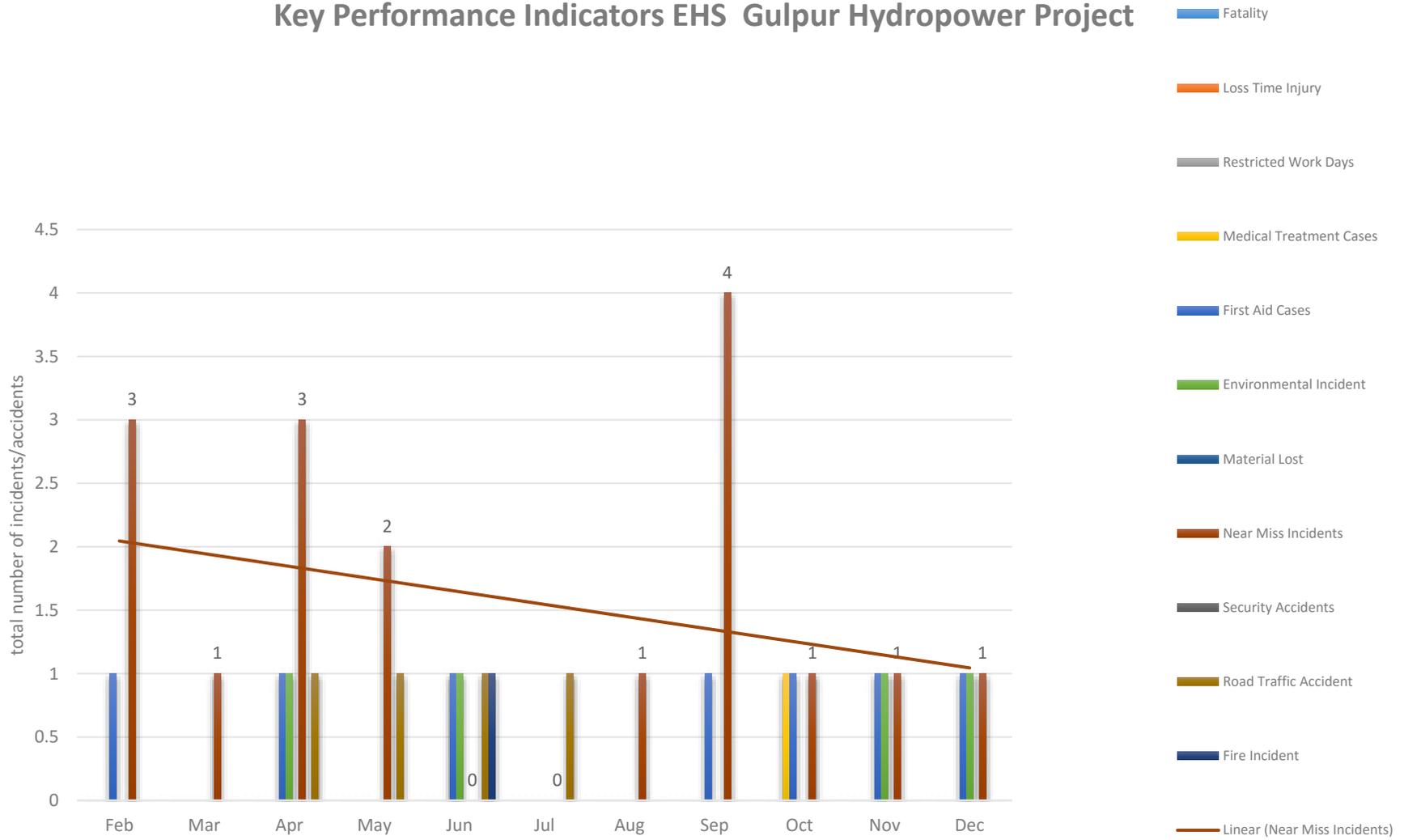


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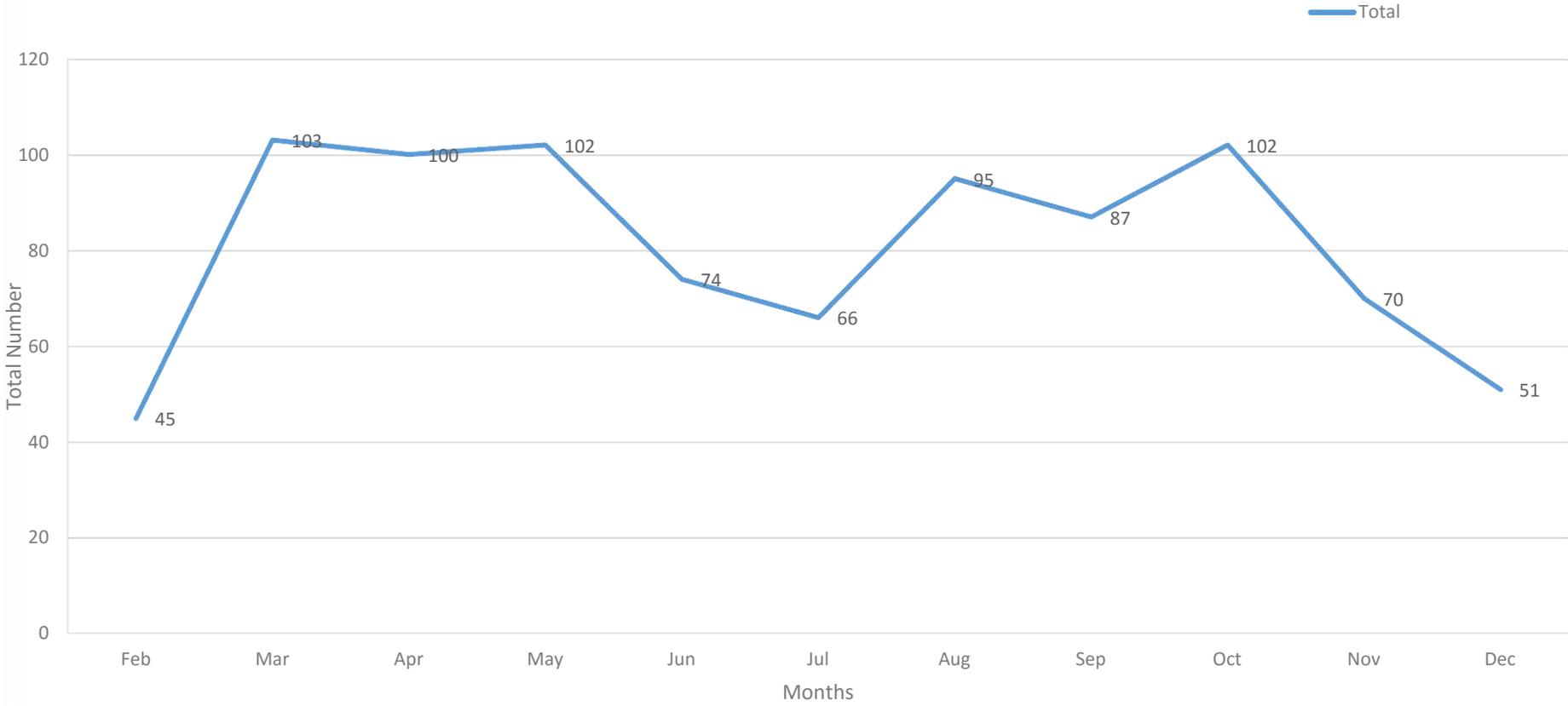
## Exhibit 15 – Trend chart analysis

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## Key Performance Indicators EHS Gulpur Hydropower Project



Unsafe Acts and Unsafe Conditions Variations during year 2015



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## **Exhibit 16 - Inspections**

(Please see the next page)

Kitchen, Food Preparation Area, Toilets, Clinic and Other  
Areas Inspection

## Gulpur Hydropower Project Health and Hygiene Checklists

### 1. Area: Food Store

Department:

Date: 29-08-2015

Y=Yes N=No N/A= Not Applicable	Result		
	Y	N	N/A
Enforcement of "Authorized Personnel Only"	✓		
Good ventilation or cooling provided	✓	✗	
Dry food stuff stored in its selling packaging	✓		
All bulk foods stored in covered containers			✓
Food store with sufficient lighting	✓		
Food store equipped with air conditioning for dry and raw products	✓		
Products sorted on shelves with heavy ones down and lighter ones on upper shelves		✓	
No egg based food stored in the dry store except lyophilized ones	✓		
Dry products in plastic bags are poured in plastic hermetic containers after opening		✓	
Dry food in sacks and vegetables are stored lifted from floor (pallets)	✓		
Food stock checked and recorded on a daily basis to rotate stocks	✓		
Products out of use-by date, damaged cans and packaging are to be discarded	✓		
Store adequate in size - no overcrowding		✓	
Electrical fittings adequate		✓	
Fruits and vegetables should be stored in well-ventilated areas and protected from insects, rodents and animals. Do not store fruits and vegetables on floors.	✓		
Immediately discard fruits and vegetables when they start to spoil. If there is only a small bad spot, cut it off and use the remaining part.	✓		
All bulk foods stored in covered containers			
Daily products & tinned foods inspected regularly for expired items			✓
Flammable items (Matches, napkins, etc) not stored with food stuffs	✓		
General high standard of cleanliness and tidiness	✓		
Discarded paper cartons & packing boxes not accumulated	✓		
Posted schedules for weekly cleaning of food store		✓	
Posted schedule for inspection of standards by camp boss	✓		
Food store audited minimum weekly by medical staff	✓	✗	
Electrical fittings adequate		✓	
Restocking controlled and inspected by camp boss	✓		
Emergency firefighting equipment nearby	✓		
The entry date of the food will be clearly labelled		✓	
Food samples prepared on daily basis	✓		
Care should be taken to rotate stored foodstuffs so that expiration dates are not exceeded.	✓		
<b>Freezers</b>			
Temperature gauge fitted	✓		
Record of temperature (below -18°C)			✓
Clean	✓		
No signs of blood staining	✓		
Correct separation of food	✓		
<b>Signs /</b>			
No Smoking	✓		

# DAELIM

## 2. Area: kitchen

Department: \_\_\_\_\_

Date: \_\_\_\_\_

Y=Yes N=No N/A= Not Applicable	Result		
	Y	N	N/A
Mosquito screens at doors and windows	✓		
Enforcement of "Authorized Personnel Only"	✓		
The name list of the authorized personnel is pasted in entrance		✓	
Worktops and sinks made of stainless steel	✓		
Sinks sized to enable cleaning any kitchen utensils or drums	✓		
Hot, soapy and drinkable water available for washing dishes	✓		
Drinkable water (purified and/or filtered) used to wash and cook food	✓		
Dedicated sink for hand washing with antiseptic soap (liquid dispenser) and nail brush		✓	
Kitchens equipped with efficient air extractors		✓	
Sufficient lighting and emergency light fitted		✓	
No leakage on the floor, no leakage on taps or under sinks			
Water analysis done before operation starts then every month. Initial test must mention chemical and heavy metals status, and then regular tests would have at least biological parameters. Water samples have to be collected from tanks, water trucks and kitchen	✓		
Standard hygiene signs set, chopping colour code, handling of frozen food, and water saving signs posted and respected. Posters must be translated in English and local	✓		
No smoking in kitchens	✓		
General kitchen and fridges/freezers cleaning schedules posted and respected		✓	
Extractors' filters shall be cleaned on a weekly basis			✓
Kitchens and messes tidied and cleaned after each meals	✓		
Waste bins with lids, respecting segregation plans	✓		
Use of waste plastic bag compulsory	✓		
Waste bins emptied after each meals		✓	
Waste bins cleaned with detergent on a weekly basis		✓	
Kitchen fitted with a fly killer light	✓		
"Mini-maxi" type thermometers in each fridges and freezers	✓		
Freezers defrosted at least once a month	✓		
Fridges cleaned on a weekly basis; cleaning schedule posted and records kept		✓	
Max fridges temperature is 0-5°C	✓		
Standard freezers temperature is -18°C	✓		
Fridges and freezers temperatures are recorded on a daily basis (form posted on each fridge)		✓	
Packaging removed before food is placed in freezers	✓		
Minimum of three identified plastic chopping boards (raw meat – cooked meat – vegetables and fruits)		✓	
Dedicated towels or absorbent paper to dry hands		✓	
Dedicated and clean towels to dry dishes		✓	
Kitchen utensils and devices clean and tidy – knives and chopper stored apart	✓		
Knives and choppers handles in good condition	✓		
Insulated cooking gloves available	✓		
Stainless steel chopping gloves available		✓	
Plastic gloves used to prepare food	✓		
Kitchen personnel endowed with a minimum of two set of cotton (100%) uniforms, paper hat and good condition shoes. Plastic aprons are forbidden		✓	
List of authorized personnel posted – Authorized personnel only sign posted	✓	✓	

# DAELIM

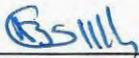
Weekly HSE meeting for kitchen personnel, waiters and room boys	✓		
Kitchen personnel and waiters passed food handling certificate less than 6 months old		✓	
Kitchen personnel and waiter hygiene include clean nails, short and clean hairs, no skin infections or cuts on hands and a daily hygiene	✓		
Personnel trained in using kitchen safety equipment		✓	
Personnel trained in first aid	✓		
Personnel aware of hand washing after handling raw aliments against salmonellas			✓
Use of non toxic insecticide		✓	
<b>KITCHEN (FIRE HAZARD)</b>			
Kitchen equipped with CO2 extinguisher - personnel trained in using		✓	
Kitchen equipped with a fire blanket - personnel trained in using it on burning drum	✓		
Only specific fryer is used to fry, frying pan is banned		✓	
Kitchen fitted with a manual emergency gas cut off inside	✓		
<b>KITCHEN – GAS COOKING</b>			
Kitchen / cooker fitted with an emergency gas cut off painted in red / yellow on the main gas pipe	✓		
Gas bottles in use are connected outside the kitchen, protected from the sun		✓	
Gas bottles are stored, buried or place in such a way to prevent deflagration and protected from the sun (buried, behind a sand bag wall...). Empty and full gas bottles are segregated, chained together and stored upright			✓
Proper gas pipes are used and they are changed every 6 months or as marked. Pipe-collar are used	✓		
Cooker fitted with an emergency cut off button			✓
<b>MESS</b>			
Capacity equals at least 50% of personnel number	✓		
Sufficient lighting and emergency light fitted	✓		
Access between kitchen and mess is stable and protected from sand/pests	✓		
Mess fitted with a fly killer	✓		
Mess fitted with a fire alarm		✓	
Mess is a no smoking place – signs are posted	✓		
Mess is fitted with mosquito nets on openings		✓	
Waiters wear clean uniforms	✓		
<b>FOOD HANDLING</b>			
Food is kept with lid in fridge with raw food down and cooked food in the upper compartments	✓		
Raw eggs are kept in specific places in fridges, avoiding contact with other food	✓		
No opened can stored in fridges (botulism)	✓		
Frozen food are wrapped in plastic sheets and labeled (type of product and freezing date)		✓	
Cold food kept covered		✓	
Food preparation (cutting and peeling) on work tops, at distance from prepared food	✓		
Fruits and vegetable are washed before consumption	✓		
Dry food and seasoning are stored in hermetic boxes			✓
Cooking oil is changed once a week	✓		
Food storage is limited to a minimum necessary in the kitchen	✓		
Defrosting in water is forbidden but can be done in hermetic container inside fridges	✓		
Cook washes his hands after action without food handling and dried by napkin	✓		
The finger nails of the cook is short and clean	✓		
Good ventilation or cooling provided, room temperature minimal		✓	
Store adequate in size – no over crowding		✓	
Shelving constructed of material that can be easily cleaned – Well painted plywood or aluminium / stainless steel.		✓	
All food stuffs properly organized or shelves & labelled accordingly		✓	
All bulk foods stored in covered containers.	✓		
Washing soaps/detergents isolated from food items	✓		

# DAELIM

Inspection Remarks:

There is no ventilation and exhaust system in kitchen. Drain pipes under sinks are blocked by waste material.

Name: Saboor

Signature: 

→ Imran shaukal - Owner  
 → Inayat - Manager  
 → Hamnan - Pamer meeli

## Gulpur Hydropower Project Health and Hygiene Checklists

### 1. Area: Food Store

Department: HSE  
 Date: 15-Jan-16

	Result		
	Y	N	N/A
<b>Y=Yes</b>			
<b>N=No</b>			
<b>N/A= Not Applicable</b>			
Enforcement of "Authorized Personnel Only"			✓
Good ventilation or cooling provided			✓
Dry food stuff stored in its selling packaging	✓		
All bulk foods stored in covered containers			✓
Food store with sufficient lighting	✓		✓
Food store equipped with air conditioning for dry and raw products	✓		
Products sorted on shelves with heavy ones down and lighter ones on upper shelves			✓
No egg based food stored in the dry store except lyophilized ones			✓
Dry products in plastic bags are poured in plastic hermetic containers after opening	✓		
Dry food in sacks and vegetables are stored lifted from floor (pallets)	✓		
Food stock checked and recorded on a daily basis to rotate stocks			✓
Products out of use-by date, damaged cans and packaging are to be discarded	✓		
Store adequate in size - no overcrowding	✓		
Electrical fittings adequate	✓		
Fruits and vegetables should be stored in well-ventilated areas and protected from insects, rodents and animals. Do not store fruits and vegetables on floors.			✓
Immediately discard fruits and vegetables when they start to spoil. If there is only a small bad spot, cut it off and use the remaining part.	✓		
All bulk foods stored in covered containers			✓
Daily products & tinned foods inspected regularly for expired items	✓		
Flammable items (Matches, napkins, etc) not stored with food stuffs	✓		
General high standard of cleanliness and tidiness			✓
Discarded paper cartons & packing boxes not accumulated			✓
Posted schedules for weekly cleaning of food store			✓
Posted schedule for inspection of standards by camp boss			✓
Food store audited minimum weekly by medical staff			✓
Electrical fittings adequate	✓		
Restocking controlled and inspected by camp boss			✓
Emergency firefighting equipment nearby			✓
The entry date of the food will be clearly labelled	✓		
Food samples prepared on daily basis	✓		
Care should be taken to rotate stored foodstuffs so that expiration dates are not exceeded.			✓
<b>Freezers</b>			
Temperature gauge fitted			
Record of temperature (below -18°C)			
Clean			
No signs of blood staining			
Correct separation of food			
<b>Signs /</b>			
No Smoking	✓		

Not working

# DAELIM

Authorized personnel only	✓		
---------------------------	---	--	--

Audit Remarks:

Name:

Sahibzada Tanzeel Ahmet

Signature:

Tanzeel Ahmet

# DAELIM

## 2. Area: kitchen

Department:

Date: 15-Jan-16

Y=Yes N=No N/A= Not Applicable	Result		
	Y	N	NA
Mosquito screens at doors and windows	✓		
Enforcement of "Authorized Personnel Only"		✓	
The name list of the authorized personnel is pasted in entrance		✓	
Worktops and sinks made of stainless steel	✓		
Sinks sized to enable cleaning any kitchen utensils or drums	✓		
Hot, soapy and drinkable water available for washing dishes	✓		
Drinkable water (purified and/or filtered) used to wash and cook food	✓		
Dedicated sink for hand washing with antiseptic soap (liquid dispenser) and nail brush	✓		
Kitchens equipped with efficient air extractors	✓		
Sufficient lighting and emergency light fitted		✓	
No leakage on the floor, no leakage on taps or under sinks	✓		
Water analysis done before operation starts then every month. Initial test must mention chemical and heavy metals status, and then regular tests would have at least biological parameters. Water samples have to be collected from tanks, water trucks and kitchen	✓		
Standard hygiene signs set, chopping colour code, handling of frozen food, and water saving signs posted and respected. Posters must be translated in English and local	✓	✓	
No smoking in kitchens	✓		
General kitchen and fridges/freezers cleaning schedules posted and respected	✓	✓	
Extractors' filters shall be cleaned on a weekly basis	✓	✓	
Kitchens and messes tidied and cleaned after each meals	✓	✓	
Waste bins with lids, respecting segregation plans		✓	
Use of waste plastic bag compulsory		✓	
Waste bins emptied after each meals	✓	✓	
Waste bins cleaned with detergent on a weekly basis		✓	
Kitchen fitted with a fly killer light		✓	
"Mini-maxi" type thermometers in each fridges and freezers		✓	
Freezers defrosted at least once a month		✓	
Fridges cleaned on a weekly basis; cleaning schedule posted and records kept		✓	
Max fridges temperature is 0-5°C		✓	
Standard freezers temperature is -18°C		✓	
Fridges and freezers temperatures are recorded on a daily basis (form posted on each fridge)		✓	
Packaging removed before food is placed in freezers		✓	
Minimum of three identified plastic chopping boards (raw meat – cooked meat – vegetables and fruits)		✓	
Dedicated towels or absorbent paper to dry hands		✓	
Dedicated and clean towels to dry dishes		✓	
Kitchen utensils and devices clean and tidy – knives and chopper stored apart		✓	
Knives and choppers handles in good condition		✓	
Insulated cooking gloves available		✓	
Stainless steel chopping gloves available		✓	
Plastic gloves used to prepare food		✓	
Kitchen personnel endowed with a minimum of two set of cotton (100%) uniforms, paper hat and good condition shoes. Plastic aprons are forbidden		✓	
List of authorized personnel posted – Authorized personnel only sign posted	✓		

Temper -  
13/Jan

No sampling done

17/Jan

# DAELIM

Weekly HSE meeting for kitchen personnel, waiters and room boys	✓				On 16-Jan
Kitchen personnel and waiters passed food handling certificate less than 6 months old		✓			
Kitchen personnel and waiter hygiene include clean nails, short and clean hairs, no skin infections or cuts on hands and a daily hygiene	✓				
Personnel trained in using kitchen safety equipment	✓				
Personnel trained in first aid	✓				→ 13/Jan
Personnel aware of hand washing after handling raw aliments against salmonellas	✓				
Use of non toxic insecticide			✓		
<b>KITCHEN (FIRE HAZARD)</b>					
Kitchen equipped with CO2 extinguisher - personnel trained in using	✓				
Kitchen equipped with a fire blanket - personnel trained in using it on burning drum	✓				
Only specific fryer is used to fry, frying pan is banned				✓	
Kitchen fitted with a manual emergency gas cut off inside			✓		
<b>KITCHEN - GAS COOKING</b>					
Kitchen / cooker fitted with an emergency gas cut off painted in red / yellow on the main gas pipe				✓	
Gas bottles in use are connected outside the kitchen, protected from the sun					
Gas bottles are stored, buried or place in such a way to prevent deflagration and protected from the sun (buried, behind a sand bag wall...). Empty and full gas bottles are segregated, chained together and stored upright				✓	
Proper gas pipes are used and they are changed every 6 months or as marked. Pipe-collar are used				✓	
Cooker fitted with an emergency cut off button					
<b>MESS</b>					
Capacity equals at least 50% of personnel number	✓				
Sufficient lighting and emergency light fitted				✓	
Access between kitchen and mess is stable and protected from sand/pests	✓				
Mess fitted with a fly killer	✓				
Mess fitted with a fire alarm	✓				
Mess is a no smoking place – signs are posted	✓				
Mess is fitted with mosquito nets on openings	✓				
Waiters wear clean uniforms	✓				
<b>FOOD HANDLING</b>					
Food is kept with lid in fridge with raw food down and cooked food in the upper compartments					
Raw eggs are kept in specific places in fridges, avoiding contact with other food					
No opened can stored in fridges (botulism)					
Frozen food are wrapped in plastic sheets and labeled (type of product and freezing date)					
Cold food kept covered					
Food preparation (cutting and peeling) on work tops, at distance from prepared food					
Fruits and vegetable are washed before consumption					
Dry food and seasoning are stored in hermetic boxes					
Cooking oil is changed once a week					
Food storage is limited to a minimum necessary in the kitchen					
Defrosting in water is forbidden but can be done in hermetic container inside fridges					
Cook washes his hands after action without food handling and dried by napkin					
The finger nails of the cook is short and clean					
Good ventilation or cooling provided, room temperature minimal					
Store adequate in size – no over crowding					
Shelving constructed of material that can be easily cleaned – Well painted plywood or aluminium / stainless steel.					
All food stuffs properly organized on shelves & labelled accordingly					
All bulk foods stored in covered containers.					
Washing soaps/detergents isolated from food items					

checking of  
→ alcohol  
sheet

# DAELIM

Inspection Remarks:

Fire extinguisher expired.  
Voltage box open.  
Broken glass.

Name: Sahibzada Tanzeel.

Signature: Tanzeel

## DAELIM

→ No cleaning Schedules posted

→ Mess

→ food store

→ Labors side

→ No plastic Bag. →

Manager informed its short.

→ Noor Alam / cook. (Dedicate wrong statement)

→ Used oil in use.

→ Exhaust in bread preparation room dirty

→ Uniform. - All water provided

→ Aprons worn out

→ No identification of pulses supply, old or expire

# DAELIM

## 4. Area: Health and Hygiene

Department: \_\_\_\_\_  
 Date: 15-Jan-16

Y=Yes N=No N/A= Not Applicable	Result		
	Y	N	NA
<b>Messing area</b>			
Floor keep clean	✓		
Table and chairs are tidy and cleaning	✓		
Window and door are fitted the fly screen	✓		
Utensils are sterilized by heater			✓
Freezer is cleaned and tidiness, temperature is recorded		✓	
Safety warning signs were pasted			
<b>Kitchens</b>			
Clean, hygienic, washable floor			
Separate chopping boards, knives			
Disinfected the work table and tools daily			
Stainless work surface			
Surfaces smooth, easily cleaned			
Pest killer is function			
<b>Kitchen personnel</b>			
Medically checked every 3 months		✓	
Clean uniforms/hats/gloves		✓	
Adequate laundry facilities		✓	
Convenience			
Washable floor, running water, liquid soap			
Clean uniforms/hats/gloves			
Hygienic food storage preparation			
Raw food segregated from cooked food			
Food chilled before freezing			
Cooked food stored above ground			
Water not chilled in food freezer			
Kitchen/food preparation areas screened			
Adequate ventilation			
Remain the food sample 48 hours			
Audit Remarks:			
Name: _____			
Signature: <u>Sahibzada (HSE M)</u> <u>Taqatullah</u>			

# DAELIM

## 5. Area: Clinic

Department: HSE

Date: 15-01-2016

Y=Yes N=No N/A= Not Applicable	Result		
	Y	N	N/A
Clinic manned by medical doctor or nurse at all times	✓		
Medical staff attention the clinic are accommodated near clinic	✓		
Medical Doctors involved in first aid training & Health lectures to employees	✓		
All new staff are medically checked before employment	✓		
Referral clinic and DHQ established	✓		
Referral clinic at Kotli has 24 hour coverage for emergency	✓		
MEDEVAC plan established and drill carried out monthly	✓		
Medical statistics are evaluated and medical LTI's investigated	✓		
Camp is regularly sterilized, minimum once per month	✓		
Medical doctor advise on accident classification	✓		
Door of clinic large enough for stretcher access	✓		
Clinic is well ventilated & cooled	✓		
Adequate clinic for patient consultant			✓
Wash hand basin with running water & paper towels available	✓		
First aid materials store in available, clean & organized	✓		
Staff wear clean white uniforms, minimum 2 pairs per staff member	✓		
A suitable system is in place for record keeping arranged properly in filing cabinets.	✓		
Medical equipment was maintained by medics	✓		
Medics know well the listing of medicine	✓		
Communication is available for medics	✓		

Audit Remarks:

Name:

Signature



# Monthly Inspection Report

# Inspection Report

Document: IR Version: D01

1st Report

**Daelim & Lotte**

12<sup>th</sup> July 2015

DAELIM-LOTTE  
House #172, Street #7, Phase 3,  
Bahria Town, Islamabad  
DAELIM-LOTTE

DAELIM-LOTTE has prepared this report in accordance with the instructions of Best Industrial Practices for the client's sole and specific use. Any other persons who use any information contained herein do so at their own risk.

**Inspection Report: Gulpur hydropower Project****HSE INSPECTION REPORT**

Duration: June 2015

**Health Safety &  
Environment****DAELIM**  
**LOTTE E&C****Prepared By the Health and Safety Manager EPCC –****Reviewed By the Health and Safety Manager EPCC**

Date:12-07-15

**Project Code:**

IR-01

**Pages:**

10

**Distribution:**

OE, EPCC,Mira

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<b>3 Inspection of Buildings</b>	<b>5</b>

## Appendices

### 1 Inspection of Food Store

As per the Inspections performed in June and July 2015, following non-compliances were noted;

No.	Non Compliances	Recommendations
1	The entry date of food was not labelled.	Entry date for each food must be clearly labeled so that expiration dates are not exceeded.
2	Rotation of food stuffs was not ensured.	Care should be taken to rotate stored food stuffs so that the expiry dates are not reached.
3	Cooling capacity of deep freezer was found insufficient.	Freezer should be repaired so that a temperature as low as -18 °C can be achieved.
4	Refrigerator has some food items packed in Plastic Bag.	All food items must not be kept in plastic bags inside refrigerator.
5	Kitchen staff does not use gloves while cutting & handling food items.	Kitchen staff must use steel gloves for cutting & plastic gloves for handling food items.

## 2 Inspection of Kitchen

Following are the non-compliances & recommendations based on the HSE inspection of kitchen;

No.	Non Compliances	Recommendations
1	Mosquito screens at doors & windows were not fulfilling the purpose.	Gap between wall & screen should be removed.
2	The name list of authorized personnel was not posted in the entrance.	List of authorized personnel should be displayed in the entrance.
3	There was no dedicated sink with hand sanitizer for washing hands, for the personnel.	APs working inside kitchen should have their dedicated sink with hand sanitizer.
4	There was leakage from the sink pipes.	Leakage from pipes should be rectified.
5	No thermometer is there in the fridge & freezer to show temperature at different points.	"Mini-Maxi" type thermometer in each fridge & freezer is recommended.
6	There were no dedicated towels to dry hands.	Dedicated towels & absorbent paper should be used for drying hands.
7	Gloves were not available for use.	It is highly recommended to use insulated cooking gloves, stainless steel chopping gloves, plastic gloves in the kitchen.
8	Kitchen personnel were not wearing proper uniform.	Kitchen personnel should be endowed with a minimum of two sets of cotton uniforms, paper hat & good condition shoes.
9	Kitchen personnel & waiters do not have food handling certificates.	Kitchen personnel & waiters should be certified in food handling.
10	Personnel not properly trained in using kitchen safety equipment.	They should be trained to use the kitchen safety equipment.
11	Kitchen / cooker not fitted with an emergency gas cut off valve.	Kitchen / cooker should be fitted with an emergency gas cut off valve painted in red /yellow on the main gas pipe.
12	Insect killer / fly catcher in the mess is out of order.	They should be repaired or replaced ASAP.

### 3 Inspection of Buildings

No	Non Compliances	Recommendations
1	Some of the HSE signage are tampered with, at Block C.	HSE signage should not be tampered or removed from the walls.
2	In Block C&E some of the First Aid Kits are missing.	First Aid Kits should never be stolen or kept in rooms. Their presence & amount should be ensured by all residents.
3	Secondary cover for some of the tube lights is broken & some of the lights are out of order.	All the electrical appliances should be properly maintained by the electrician.
4	At block C & E, some of the rooms have hangers mounted on the wall just below the tube light.	Since clothes are combustibles. So they must be placed away from electrical wiring.
5	Some of the water pipes below the sinks are broken at Block E	All piping inside should be properly maintained by Plumber.
9	Some of the shower valves are broken at Block C.	All valves inside baths & toilets should be properly maintained by Plumber.
10	Crakes on the walls near the ceiling.	All the walls should be inspected by the camp boss & repairs should be made.
11	'Some of the door locks are broken at Block C.	The door locks needs to be repaired.
12	Some of the washing shower pipes are broken.	Should be repaired by the plumber.
13	Windows of Block E & C are not tidy & clear.	All windows should be properly cleaned & maintained.
14	Mud inside the wash rooms at Block C & E.	All washrooms & bathrooms should be kept clean & tidy.
12	At Block C & E some of the ceiling is broken.	Such repairs should be make immediately.
13	At the entrance of Block C, there is stagnant water after each rain.	It should be rectified.

14	Resident are complaining about water supply	Water supply to be maintained well by Sub Contractor administration
15	Food material taken into the rooms causing reptiles and snakes intrusion risk	The residents to be warned about the hazards of food material keeping inside the rooms and inform the Sub Contractor administration about issue.
16	Sweepers are lacking in buildings	Each building to be maintained by dedicated sweeper for general cleanliness and toilets by Sub Contractors
17	Waste Material generated is present in front of the buildings	The waste material stored in front of the waste bins should be fetched on regular intervals and on daily basis. Transportation of materials to dedicated place is issue of sub Contractor and responsibility.

# Appendix A

Photographs

## HSE Inspections



*No Smoking signage tampered with*



*First aid box missing*



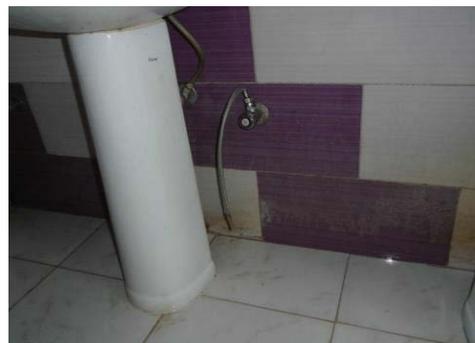
*Secondary cover of tube light broken*



*Clothes hangers mounted beneath tube light*



*Shower & tape valve broken*



*Pipe beneath the sink is broken*



*Tool Box Meeting*



*Scattered Tools in M Block building of TTC*

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## **Exhibit 17 – Mandatory Critical Procedures**

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(Please see the next page)

## Critical Procedures for EHS

<b>DAELIM</b>	<b>Gulpur Hydropower Project</b> Health and Safety Communication	
<b>LOTTE E&amp;C</b>		

Department: Health and Safety	Health and Safety Communication–Procedure- HSC-01	Written by SahibzadaTanzeel Ahmed (EPCC Health & Safety Manager)	Validated by --
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Revision No.	Revision Date:	Revised:	Commented By	Approved By
Rev 1.0	2/27/15	SahibzadaTanzeel Ahmed (EPCC Health and Safety Manager)	--	Jahanzeb Murad (Manager EHS & CSR Mira)
Rev 1.1	06/09/15	SahibzadaTanzeel Ahmed (EPCC Health and Safety Manager)	--Hafsa Idrees	Jahanzeb Murad (Manager EHS & CSR Mira)

## PURPOSE

To ensure that information of Health and Safety Incident/community Issues is shared in time through proper channel for effective communication to Internal (EPCC) and external stakeholders (Mira Power Ltd & Owners Engineers).

## SCOPE

This communication procedure applies to all activities of construction carried out by the contractors and sub-contractors at Gulpur Hydropower Project (GHPP).

## RESPONSIBILITIES

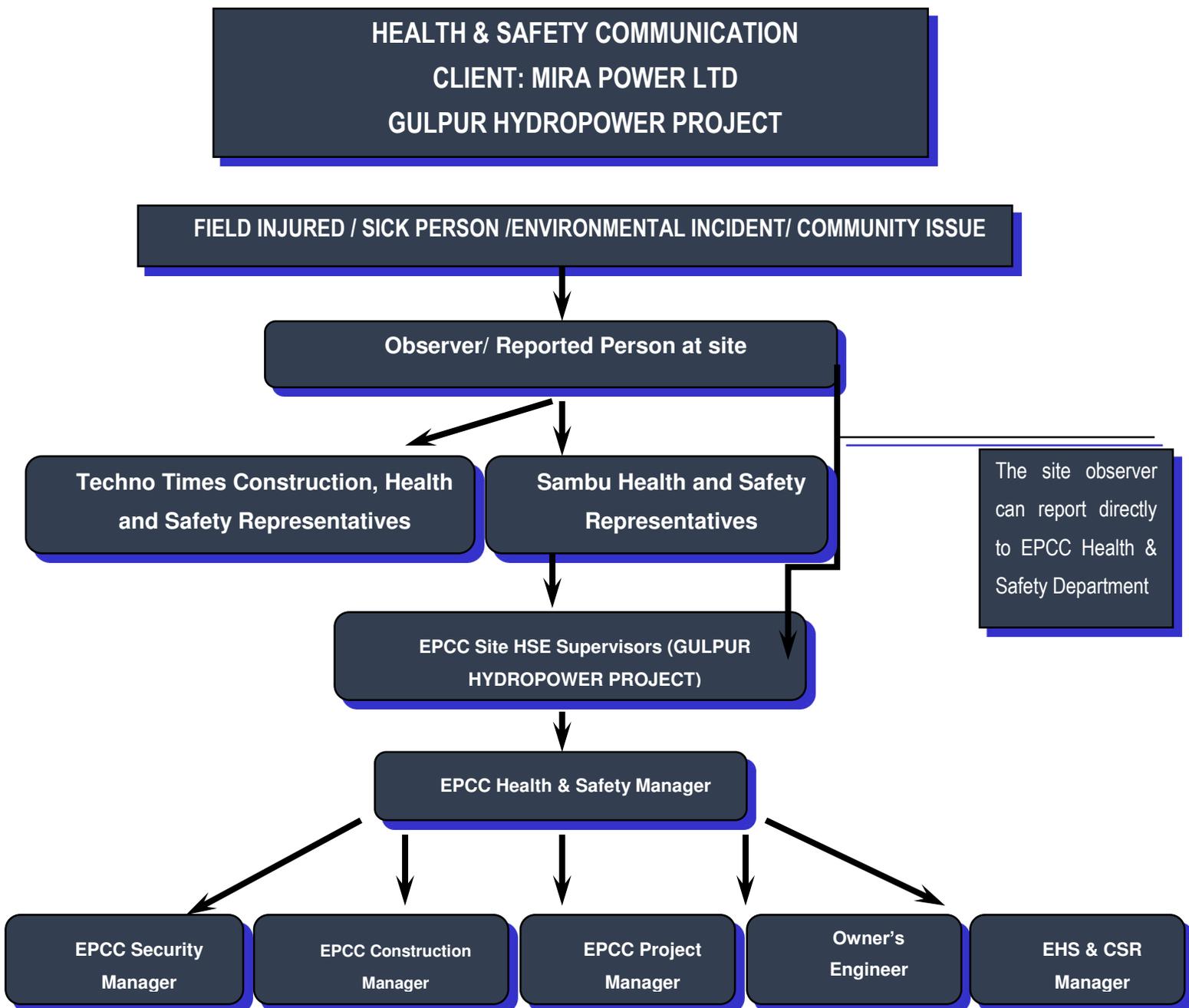
Good communication is especially important when employees are carrying out activities which are hazardous and have residual risk levels.

**OBSERVER:** All the Project personnel at Gulpur Hydropower Project site, in case of any kind of emergency, shall provide the information to *Health and Safety Representatives* at site. The Health and Safety Department shall on wards disseminate the information. Onsite information shall be communicated through Health and Safety Department present at the Project site.

<b>DAELIM</b>	<b>Gulpur Hydropower Project</b> Health and Safety Communication	
<b>LOTTE E&amp;C</b>		

**THE HEALTH & SAFETY REPRESENTATIVE** of EPCC in Health and Safety Department at site shall stay in close contact with the Health and Safety Manager. In case of the unavailability of the Health & Safety Representative, his/her responsibility shall be delegated and higher level management within EPCC would be aware of it.

**THE HEALTH & SAFETY MANAGER** The information will be shared by H&S Manager with EPCC Higher Management and high level internally. He will also ensure information dissemination to Mira EHS & CSR Manager and Owner's Engineers for external communication.



<b>DAELIM</b>	<b>Gulpur Hydropower Project</b> Inspection	
<b>LOTTE E&amp;C</b>		

Department: Health and Safety	Housekeeping –Procedure- HSC-10	Written by Sahibzada Tanzeel Ahmed (EPCC Health & Safety Manager)	Validated by --
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Revision No.	Revision Date:	Revised:	Commented By	Approved By
Rev 1.0	03/01/15	Sahibzada Tanzeel Ahmed (EPCC Health and Safety Manager)	--	Jahanzeb Murad (Manager EHS & CSR Mira)
Rev 1.1	06/09/15	Sahibzada Tanzeel Ahmed (EPCC Health and Safety Manager)	Hafsa Idrees	Jahanzeb Murad (Manager EHS & CSR Mira)

## PURPOSE

The purpose of this procedure is to ensure compliance with national, local laws, and regulations as well as contract requirements with Mira Power Ltd. It is also used to identify and highlight potential problem areas and recommend improvements.

## SCOPE

Its scope applies to the team that is conducting a visit, inspection of Gulpur Hydropower Project (GHPP). This procedure is also applicable to inspect a potential subcontractor prior to using its services.

## INSPECTION PROGRAM

This is a scheduled and specific inspection of the facilities, tools, equipment, etc., used Contractors, Sub-Contractors and its status of compliance with client standard operating procedures. This can be either a partial or complete inspection depends on the need of the construction activities. This inspection can be led by EPCC Management/Health and Safety department/Construction Department.

<b>DAELIM</b>	<b>Gulpur Hydropower Project</b> Inspection	
<b>LOTTE E&amp;C</b>		

**INSPECTION TEAM** Leader should possess excellent knowledge, skills and experience in Health and Safety activities with prior inspection experiences. The minimum competency requirements of the inspection Team Leader for the above inspection are as follows:

- Prior experience as a team member in conducting at least one complete Health and Safety inspection of construction activities or similar operations.
- A comprehensive knowledge of Health and Safety, programs and activities.

**INSPECTION TEAM MEMBERS** should have the basic skills and knowledge to conduct a successful inspection. Preferably they should have the following background:

- A comprehensive knowledge of Health and Safety systems relevant (EPCC HSEMS is in progress), programs and activities.
- Have worked in construction operations.
- Priority is given to those with formal inspection training or having Nebosh/IOSH/OSHA qualifications
- Prior experience in Health and Safety inspection is preferred but not required.

## INSPECTION FREQUENCY

The Client Mira Power Ltd. will issue an inspection schedule which the management office shall use to issue a corresponding plan and schedule. Specifically the following frequencies shall be planned under normal circumstances:

- Inspection---To be scheduled by the EPCC Health and Safety Department as per client requirements

## INSPECTION TOOLS

EPCC WILL ISSUE a complete set of **checklists** to be used during Health and Safety monitoring of construction activities covering key aspects of construction operations. A partial inspection can be conducted on selected areas by taking those checklists from the complete set.

<b>DAELIM</b>	<b>Gulpur Hydropower Project</b> Inspection	
<b>LOTTE E&amp;C</b>		

## RESPONSIBILITIES

Action	Responsible Party
1. Decide the scope of inspection (specific facilities, equipment, tools, etc) that will be inspected.	Inspection Team Leader
2. Use the EPCC Inspection Checklist and forms	Inspection Team Leader

## PREPARE AN INSPECTION REPORT

The inspection report shall contain at least the following items:

- Name and title of team members.
- Date and duration of inspection.
- Scope and specific facilities, equipment, tools, etc., inspected.
- Specific EPCC inspection checklists and forms used and completely filled out.
- Prepare a EPCC Environmental Social Management Action Register for all deficiencies noted with

## DISTRIBUTION OF VISIT/AUDIT/INSPECTION REPORT

The inspection reports will be distributed to EPCC Health and Safety Department, Supervisors, and Management.

<b>DAELIM</b>	<b>Gulpur Hydropower Project</b> Health and Safety Signs	
<b>LOTTE E&amp;C</b>		

Department: Health and Safety	Housekeeping –Procedure- HSC-09	Written by SahibzadaTanzeel Ahmed (EPCC Health & Safety Manager)	Validated by --
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Revision No.	Revision Date:	Revised:	Commented By	Approved By
Rev 1.0	03/01/15	SahibzadaTanzeel Ahmed (EPCC Health and Safety Manager)	--	Jahanzeb Murad (Manager EHS & CSR Mira)
Rev 1.1	06/09/15	SahibzadaTanzeel Ahmed (EPCC Health and Safety Manager)	--Hafsa Idrees	Jahanzeb Murad (Manager EHS & CSR Mira Power Ltd)

## PURPOSE

The purpose of this procedure is to ensure good housekeeping practices are implemented at Gulpur Hydropower Project including the maintenance of yards by Contractors and Sub-contractors of EPCC. This procedure provides a guideline for Good Housekeeping Practice at the yards and construction areas.

## SCOPE

Its scope is applied to all the activities of construction carried out by the EPCC, contractors and sub-contractors at Gulpur Hydropower Project (GHPP).

## STANDARDS AND SPECIFICATIONS (GENERAL)

- All Areas should be properly labeled and marked, and the labels must remain clean and visible.
- All working areas must be kept in good condition and tightly closed when not in use.
- Practical, chemicals, fluids and supplies should be kept indoors.
- If fuel storage drums or fluids are stored outside, they must be covered and placed on spill platforms.
- Keep storage areas clean and well organized.
- Spill kits and drip pans must be kept near any liquid transfer areas protected from rainfall.
- Absorbent spill clean-up materials must be available in maintenance areas and shall be disposed of properly after use.
- Place trash, dirt and other debris in the waste collection bins of different colors and coding provided at respective areas by EPCC and Contractors.

<b>DAELIM</b>	<b>Gulpur Hydropower Project</b> Health and Safety Signs	
<b>LOTTE E&amp;C</b>		

- All waste collection sources on campus should remain covered and not leaking.
- Collect waste fluids in properly labeled containers and dispose of them properly.
- Nails should be removed from used load before stacking.
- Proper stacking methods shall be used while stacking materials.
- Combustible scrap and debris must be removed at regular intervals during the course of construction without increasing the hazard exposure to employees who remove such debris
- EPCC will establish and maintain a recycling program by disposing papers, cans, bottles and trash in designated bins.
- Access and egress routes inside areas, rooms or buildings where dangerous goods are stored or handled in excess of minimum quantities, are kept clear at all times
- Flammable and combustible liquids must not be stored or used where they may jeopardize escape from a building in the event of fire
- All fire-escape routes should be kept completely clear at all times

#### **MATERIALS LOADING AND UNLOADING:**

- During loading and unloading of materials, prevent and/or minimize spills.
- All collected materials shall be either reused or properly discarded.
- Sweeping should be conducted once a week to get rid of dirt and other debris.
- Sweeping should also be conducted immediately following loading/unloading activities, when practical.
- Minimize the tracking of materials from storage and loading/unloading areas.
- Minimize the distance of materials which are transported during loading/unloading activities.
- Any materials that are stored outside must be covered when not actively being used.

#### **RESPONSIBILITIES**

**SUB-CONTRACTORS** are responsible for ensuring good housekeeping of areas belonging to them.

**THE EPCC PROJECT MANAGER** and **HEALTH SAFETY MANAGER** will ensure that during the walkthrough visits shall be done for housekeeping of the areas like construction yards, welding cutting yard, roads and buildings.

**EPCC SITE HEALTH & SAFETY SUPERVISORS** will be responsible for implementation of Good housekeeping practices by supervision, Toolbox talks, Trainings, Meetings and capacity building activities.

**EMPLOYEES** will ensure that items such as tools, equipments, materials are not placed in unauthorized places

#### **IMPLEMENTATION**

Maintaining clear corridors and exits can be ensured by:

- internal audits;
- workplace inspections;
- EPCC hazard identification and reporting (hazard Cards); and

<b>DAELIM</b>	<b>Gulpur Hydropower Project</b> Health and Safety Signs	
<b>LOTTE E&amp;C</b>		

- Workplace supervision.

<b>DAELIM</b>	<b>Gulpur Hydropower Project</b> Permit to Work Procedure	
<b>LOTTE E&amp;C</b>		

Department: Health and Safety	Permit to Work- HSC-08	Written by Sahibzada Tanzeel Ahmed (EPCC Health & Safety Manager)	Validated by --
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Revision No.	Revision Date:	Revised:	Commented By	Approved By
Rev 1.0	03/01/15	Sahibzada Tanzeel Ahmed (EPCC Health and Safety Manager)	--	Jahanzeb Murad (Manager EHS & CSR Mira)
Rev 1.1	06/09/15	Sahibzada Tanzeel Ahmed (EPCC Health and Safety Manager)	--Hafsa Idrees	Jahanzeb Murad (Manager EHS & CSR Mira Power Ltd)

## PURPOSE

To ensure that all the hazardous jobs are conducted in a safe manner and the tasks are known and recorded by the EPCC project personnel including the contractors and sub-contractors. The Objective of the PTW system is “to provide a system which could ensure that non-routine and hazardous activities can be worked on in a safe manner”. To achieve safety at the workplace, the PTW system must ensure that everyone is aware of the hazards involved in their work and of the precautions they must take to work safely.

## SCOPE

Scope applies to all the activities of construction carried out by the contractors and sub-contractors at Gulpur Hydropower Project (GHPP). The procedure explains the “Principles of Permit” and defines activities for which a permit to work is required. It also states how permits are approved and controlled. The details are given in the procedure. Permits are issued by EPCC/Contractors/Sub-contractors management for work in areas where there may be a hazard to personnel, asset, or environment and communities around GHPP. Permits will be proposed by the section heads carrying the job. EPCC permit system is used for crew related activities requiring a permit.

**To help ensure this, the Permit to Work System requires:**

<b>DAELIM</b>	<b>Gulpur Hydropower Project</b> Permit to Work Procedure	
<b>LOTTE E&amp;C</b>		

**TRAINING:** To ensure everyone understands the PTW System and how to use it.

**PLANNING:** To ensure that work is well planned, with the workforce and equipment prepared for the job.

**WORK DEFINITION:** To ensure that everyone understands the work content and how and where it shall be done.

**HAZARD MANAGEMENT:** To ensure that the hazards involved in the work are identified and the precautions and personal protection required for a task are correctly defined.

**CO-ORDINATION:** To prevent conflicting activities from being authorized.

**COMMUNICATION:** To ensure that all personnel understand the work content.

**AUTHORIZATION:** Formal approval to do the work.

**SUPERVISION:** Providing a person in charge of each work site, who is responsible for ensuring that work party complies with the requirements of the Permit to Work.

**BRIEFING:** Toolbox Talks at the worksite to discuss the job, how it will be done, and the precautions required.

**HOUSEKEEPING:** To ensure that the work site is kept clean and safe all times.

## RESPONSIBILITIES

The Construction Manager/Sr. Engineer EPCC is the only authorized person who can sign a PTW request. It is the responsibility of the individual conducting the work to complete and obtain the correct authorization.

## PROCEDURE:

EPCC has developed a Permit to Work (PTW) system to ensure the safety of all employees and third party personnel during potentially hazardous work operations. All construction departments, contractors and sub-contractors shall implement and maintain a PTW system.

The PTW system is in place to provide the following;

- A written record of permission to carry out the work;
- Ensure all parties are aware of the work to be conducted;
- Ensure all safe guards are in place;

<b>DAELIM</b>	<b>Gulpur Hydropower Project</b> Permit to Work Procedure	
<b>LOTTE E&amp;C</b>		

- Inspection of the work/work area;
- Identification of all potential hazards.

No hazardous work, as defined in this procedure, shall be conducted by any person on any equipment or plant unless permission has been granted by the appropriate authority.

## **TYPES OF WORK REQUIRING A PERMIT**

EPCC has identified the following work activities as requiring a PTW;

- Blasting Activity
- Hot Work – Including Welding, Oxy Cutting, Grinding (portable hand grinding machine) outside the designated area.
- Electrical Work.
- Work at height – 2 meters and above.
- Crane lifting
- Work around community premises

## **STEPS OF PERMIT TO WORK**

Prior to the commencement of any work which requires a PTW, the following steps must be completed first;

- a) Identify the scope of the work to be completed;
- b) Obtain a PTW form from the Health and Safety Department EPCC and complete the 1<sup>st</sup> section of the form;
- c) The person who is to carry out the work must ensure all required safety equipment is in place and all persons associated with the work know how to use the equipment;
- d) Ensure a watchman is on site during any hot work or confined space entry activity is conducted;
- e) Obtain any require “clearance” certificates. (i.e. gas free certificate for enclosed space entry, tunneling etc);
- f) Obtain and review the Job Hazard Analysis for the task being conducted;
- g) Hold a toolbox meeting with all personnel involved in the task;
- h) Ensure all systems, as required, are Locked Out and Tagged Out;
- i) The Construction Manager/Sr. Engineer/ Health & Safety Rep EPCC shall make a final inspection of the site before approving the PTW;
- j) Obtain the signed PTW form from the Construction Manager/Sr. Engineer/ Health & Safety

<b>DAELIM</b>	<b>Gulpur Hydropower Project</b> Permit to Work Procedure	
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When the above has been completed, the work can be commenced and continued until the completion or the expiry of the permit, whichever is first. If the PTW time frame expires before the work is completed, the work must stop and the permit reissued.

On completion of the work the person conducting the work shall return all equipment to its correct location and inform the Construction Manager/Sr. Engineer/ Health & Safety if any piece of equipment requires servicing after being used. (i.e. fire extinguishers)

When notified that the work has been completed, the Construction Manager/Sr. Engineer/ Health & Safety shall inspect the work site to ensure that no hazards exist. In the case of hot work the fire watchman must remain at the work site, for a minimum of 30 minutes after the last hot work gets completed, to ensure no unobserved "hot spot" ignites.

When the Construction Manager/Sr. Engineer/ Health & Safety is completely satisfied that the work site and surrounding areas are all clear and no danger is present from the work activity, PTW form will be signed confirming final completion of the work.

### **OBTAINING AND FILLING IN PERMIT FORMS**

Departments who apply for Permits shall obtain the PTW form. These may be obtained from Health and Safety Office at GHPP site.

The Permit is divided into sections. It is mandatory to provide the required information correctly. Where any box on a Permit form is not used, it should be marked as N/A. or have a line drawn through it. Boxes must not be left blank.

Permits must be completed in with clear hand writing. No changes to the wording on a Permit are allowed. If changes are required, a new Permit must be raised. The only exception is correcting small mistakes, where the mistake is crossed out; the change shall be initialed by the person applying for the permit.

### **PERSON APPLYING FOR PERMIT**

The Permit Applicant, normally the supervisor of the personnel doing the work, must have attended the EPCC PTW Training session. Person applying for the permit will then fill details of the activity by entering the following information into the appropriate boxes.

- The exact place in the construction site at the GHPP site where the work is to be carried out. Different activities can be included under the same permit if the department carrying out the work is same.
- The maximum number of members in the team carrying out the job. The planned start and finish time for the work including preparation.
- The work description must include enough information to allow Supervisors of contractors, sub-contractors to identify the hazards involved in the work and the precautions necessary to control them.
- Permit is written for fault finding. It is important that the work description shall not allow the work party to proceed with repair activities without the risks involved being assessed. **The work description should include:**

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<b>LOTTE E&amp;C</b>		

- Define the safety precautions required. Include a worksite examination to identify and assess the hazards.

## RESPONSIBILITIES

- Ensure that the Permit has been authorized by the Responsible Supervisor before it is given to the work team.
- Ensure that there is a trained person in charge of the work for all periods when work is being done under a Permit. Ensure that the work force is briefed on the work, hazards and controls.
- The Permit must be cancelled if no more work has to be done under it.

## RESPONSIBLE SUPERVISOR (THE ONE APPLYING FOR PERMIT)

- The Responsible Supervisor is responsible for the co-ordination of Permit work in his area, and for any worksite examinations required before Authorization of a Permit.
- Examine the worksite, before applying for permit, to ensure that all hazards have been identified and controls specified. He may however delegate this but the person he delegating to must be competent.
- Decide whether it is necessary to restrict other work at the site while the work is being done. Ensure that the work description is clear, complete and correct, discussing it with the work force where necessary.
- Agree that the work should be done on this equipment at the proposed time.
- Ensure that all hazards have been identified. Review the Job to ensure that it includes the controls needed to prevent harm to personnel, equipment and the environment.

## PERSON AUTHORISE THE PERMIT

- EPCC Construction manager/Sr. Engineer can authorize the permits.
- EPCC Construction manager/Sr. Engineer is responsible for authorizing a Permit before work starts.
- He will normally do this at the Permit Issue Point for his area.
- If required by the Permit ensures the work party follows their responsibilities declared on the form and examines the worksite before the start of work to ensure that it is safe for work.
- Ensure that the work will not conflict with other work in the area.
- Make sure toolbox talks for activities he considers may hold a higher level of risk.

### Cancel the Permit.

Responsible person will cancel the permit once the job is completed and then inform the Construction Manager/Sr. Engineer/ Health & Safety.

## TRAINING REQUIREMENT

Person applying for the permit must obtain the necessary EPCC in house training before applying for permit.

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<b>LOTTE E&amp;C</b>		

## RECORDS

All completed PTW forms will be retained for a period of 12 months from date of issue.

### **NOTE:**

In the absence of EPCC Construction manager/Sr. Engineer, a designated person can also approve and issue a permit

<b>DAELIM</b>	<b>Gulpur Hydropower Project</b> Job Safety Analysis	
<b>LOTTE E&amp;C</b>		

Department: Health and Safety	Job Safety Analysis– Procedure- HSC-07	Written by Sahibzada Tanzeel Ahmed (EPCC Health & Safety Manager)	Validated by --
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Revision No.	Revision Date:	Revised:	Commented By	Approved By
Rev 1.0	03/01/15	Sahibzada Tanzeel Ahmed (EPCC Health and Safety Manager)	--	Jahanzeb Murad (Manager EHS & CSR Mira)

## PURPOSE AND INTRODUCTION

The Job Safety Analysis (JSA) is an analytical tool which can improve an EPCC overall performance by identifying and correcting undesirable events during the construction and relevant activities. These activities could result in accidents, illnesses, injuries, and reduced quality and production during the construction phase of Gulpur Hydropower Project. The JSA is an employer/employee participation program in which job activities are observed, divided into individual steps, discussed, and recorded with the intent to identify, eliminate, or control hazardous events.

Department heads (Construction site Managers/supervisors, Sub contractor Site Managers/supervisors) are JSAs key to success. Department heads are important because of their understanding of the work process, potential hazards, and the need for corrective actions at each step. The JSA also provides an opportunity to the department heads where they could interact with employees while completing the JSA. As employees see that their input is important in establishing safe work procedures and equipment modifications, they become more willing to participate in (and follow) the program.

*The responsibility for conducting the JSA lays with the department head.* These managers/Senior Engineers have first-hand knowledge of the work and daily contact with employees who perform the work. However, department heads must be trained in hazard recognition and the procedures needed to perform a JSA. This training also guides them how JSA could be explained to their employees.

The JSA:

- Creates job safety awareness,
- Establishes a way of thinking about job hazards,
- Develops or revamps safe job procedures,
- Trains new or transferred employees and
- Is used in accident investigations

## SCOPE

Its scope is applied to all the activities of construction carried out by the contractors and sub-contractors at Gulpur Hydropower Project (GHPP).

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<b>LOTTE E&amp;C</b>		

## CONDUCTING A JSA

1. **Select the job to analyze.** To determine which jobs should be analyzed first, reviewing the job injury and illness reports and listing the jobs in the following order:
  1. Jobs with the highest accident rates.
  2. Jobs that produce lost-time injuries.
  3. Jobs that are potentially life threatening.
  4. New jobs and jobs in which changes were made to equipment or procedures.
  5. Ultimately, all jobs.
2. **Involve the employee who is doing the job.** Discuss the JSA procedure with the employee who is doing the job and explain its purpose. Involve the employee in all phases of the analysis, from reviewing the job steps to discussing potential hazards and recommended solutions.
3. **Conduct a job site inspection.** Before you begin a JSA, take a look at the general conditions under which the job is performed and create a checklist. You may ask some of the following questions:
  1. Can materials trip an employee on the deck or ground?
  2. Is lighting adequate?
  3. Are tools, including hand tools, machines, and equipment, in need of repair?
  4. Are there any electrical hazards at the job site?
  5. Are explosive hazards associated with the job or likely to develop?
  6. Is excessive noise, which could hinder communication, in the work area?
  7. Is fire protection equipment readily accessible? Have employees been trained to use it?
  8. Are employees who are operating vehicles and equipment properly trained and authorized to do so?
  9. Are employees wearing the proper personal protective equipment (PPE) for the job they are performing?
  10. Is ventilation adequate especially in confined spaces?
4. **Break the job down into successive steps.** Nearly every job can be broken down into steps. In the first part of the job hazard analysis, list each step in order of occurrence. The **Job Safety Analysis Worksheet** helps in this task.
5. **Identify hazards or potential hazards.** After you have recorded the job steps, examine each step individually to determine the hazards which exist or could occur. Ask yourself these kinds of questions:
  1. Are work positions, machinery, and hazardous operations adequately guarded?
  2. Are lockout procedures used for machinery and equipment deactivation during maintenance procedures?
  3. Is the employee wearing clothing or jewelry that could get caught in the machinery or equipment?
  4. Are fixed objects, such as sharp edges on machinery or equipment, in the area?
  5. Can the employee get caught in or between machine parts?

<b>DAELIM</b>	<b>Gulpur Hydropower Project</b> Job Safety Analysis	
<b>LOTTE E&amp;C</b>		

6. Is the employee at any time in an off-balance position?
  7. Is the employee required to make movements that could cause overexertion; i.e., lifting, pulling, pushing, or reaching?
  8. Can the employee be struck by an object, or lean against or strike an object?
  9. Can the employee fall from one level to another?
  10. Can the employee be injured from lifting or pulling objects, or from carrying heavy objects?
6. **Develop solutions to eliminate hazards or minimize exposure.** After reviewing each hazard or potential hazard with the employees who perform the job, determine whether the job could be performed in another way to eliminate the hazards.
1. **Find a new way.** Determine the job goal and then analyze different approaches to reach the goal.
  2. **Change physical conditions.** Can the equipment be redesigned? Can changing tools or other equipment eliminate the hazard?
  3. **Employee instructions.** Get employees to think about a job step-by-step, to recognize each hazard and determine how to minimize or avoid it. Each employee should understand the safe job procedures for each specific job.
  4. **Reduce exposure.** If possible, reduce the frequency of performing the job.
  5. **Investigate changes in the job procedure.** For each hazard and potential hazard listed, find practical solutions which could minimize or eliminate the hazard.

## REVISING THE JSA

A JSA can do much to reduce accidents and injuries; however, it is only effective if it is reviewed and updated periodically. Even for jobs that have not been changed, hazards which were missed in an earlier analysis could be detected.

If an accident or injury occurs on a specific job, the JSA should be reviewed immediately to determine if changes are needed in the job procedure. In addition, if the accident occurs as a result of employee's failure to follow the job procedure, it must be communicated to all other employees performing the job especially during daily toolbox talks and training sessions.

<b>DAELIM</b>	<b>Gulpur Hydropower Project</b> Health & Safety Incident Reporting	
<b>LOTTE E&amp;C</b>		

Department: Health and Safety	Health and Safety Incident Reporting–Procedure- HSC- 05	Written by SahibzadaTanzeel Ahmed (EPCC Health & Safety Manager)	Validated by --
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Revision No.	Revision Date:	Revised:	Commented By	Approved By
Rev 1.0	2/27/15	SahibzadaTanzeel Ahmed (EPCC Health and Safety Manager)	--	Jahanzeb Murad (Manager EHS & CSR Mira)

## PURPOSE

To ensure that employees involved in the incident reporting are aware of the key steps of reporting, requirements, responsibility and authority.

## SCOPE

This procedure shall cover the all incidents which might occur at the construction site or with operations carried out by the contractors and sub-contractors at Gulpur Hydropower Project (GHPP).

## AUTHORITY AND RESPONSIBILITIES

The reporting of an incident is managed under a “No Blame” culture. All work-related injuries, illnesses or incidents involving EPCC employees, contractors, sub-contractors or visitors shall be reported. EPCC Gulpur Hydropower Project encourages the reporting of all incidents in order to foster a proactive safety culture; it will also facilitate the construction of a realistic company-specific incident profile for appropriate control measures in order to prevent future injury, damage or environmental incidents.

<b>DAELIM</b>	<b>Gulpur Hydropower Project</b> Health & Safety Incident Reporting	 MIRA POWER LIMITED
<b>LOTTE E&amp;C</b>		

**EPCC Health & Safety Department** is responsible for

- Responding and investigation of accidents and injuries
- Developing corrective actions
- Contacting the appropriate Manager for accidents/incidents occurring on construction site.

**Construction Department employees** are responsible for:

- Reporting unsafe conditions to EPCC Health and Safety Department
- Reporting all incidents/accidents to EPCC Health and Safety Department,
- Completing the required documents details related to the incident/accident investigation of all injuries; and
- Implementing corrective actions

**Employees, Contractors and Sub-contractors** are responsible for:

- Reporting unsafe conditions to supervisors;
- Immediately reporting any accident/injury to their supervisors, Senior Engineers,
- Completing the required documents details related to the incident/accident investigation of all injuries;

**EPCC Administration & General Manager** is responsible for:

- Processing incident/accident reports; and
- Receiving and processing medical bills and workers compensation claims resulting from work related injuries

### **Actions**

All the incidents are reported in the EPCC daily report. The classification of the incidents/accidents is done by the Health and Safety Representative & Project EPCC Doctor (Future Hiring). The initial report is submitted to Mira Power Ltd in 24 hours. The final report must be submitted within seven days to Mira Power Ltd.

In the event of an incident resulting in major injuries (Loss Time Injury), localized damage or leak and spill, Project Manager EPCC, Mira EHS & CSR Manager, Mira EHS site representative & OE representative needs to be informed.

The incident report for the initial incident will be submitted to the Mira Power Ltd & Owners Engineer within 24 hours of incident occurring. The EPCC shall use its own EPCC incident reporting form.

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<b>LOTTE E&amp;C</b>		

In the case of a fatality or a very serious injury, the EPCC Higher Management shall immediately notify the Daelim Headquarters and Mira Power Ltd. Local authorities (Kotli Police).

### Accident Investigation Report/Form

Last Name:	First Name	Occupation/Job Title	Yrs. Experience in Occupation
Full Address:			
City/Town			Postal Code
Division/Branch		Date of Occurrence	Time
Location		Date Reported	Time
<input type="checkbox"/> Hazardous Situation	<input type="checkbox"/> Incident	<input type="checkbox"/> First Aid	<input type="checkbox"/> Health Care
		<input type="checkbox"/> Lost Time	<input type="checkbox"/> Critical Injury
Describe what happened and, if applicable, describe injury. Attach an accident/incident diagram, if appropriate.			
Describe the nature, date and time of first aid treatment, if applicable.			
<b>Part of Body Injured</b> (Indicate "R", "L", or "B", where applicable)		Signature of person reporting incident	
<input type="checkbox"/> Head	<input type="checkbox"/> Lower back	<input type="checkbox"/> Hand/fingers	<input type="checkbox"/> Ankle/foot
<input type="checkbox"/> Eye	<input type="checkbox"/> Upper Arm	<input type="checkbox"/> Hip	<input type="checkbox"/> Other
<input type="checkbox"/> Neck	<input type="checkbox"/> Elbow	<input type="checkbox"/> Upper leg	
<input type="checkbox"/> Shoulder	<input type="checkbox"/> Lower Arm	<input type="checkbox"/> Knee	
<input type="checkbox"/> Upper back	<input type="checkbox"/> Wrist	<input type="checkbox"/> Lower leg	
<b>Type of Accident/Incident</b>			
<b>Check off (✓) statements that best describe the accident/incident:</b>			
<input type="checkbox"/> Repetitive Strain	<input type="checkbox"/> Slip/fall	<input type="checkbox"/> Exposure to	
<input type="checkbox"/> Acute Strain (lifting, pulling, carrying)	<input type="checkbox"/> Vehicle	<input type="checkbox"/> Other (explain)	
<input type="checkbox"/> Caught in/under/between	<input type="checkbox"/> Client/employee action		
<input type="checkbox"/> Struck, contacted by/with/against	<input type="checkbox"/> Cut/bruise		

<b>DAELIM</b>	<b>Gulpur Hydropower Project</b> Health & Safety Incident Reporting	
<b>LOTTE E&amp;C</b>		

<b>Witnesses</b>	
Name	Telephone
Address	
Name	Telephone
Address	
Physician's Name	Telephone
Address	
Remember to attach witness(es) statement(s) on the Witness Statement form.	
<b>Causes: Check (✓) all that are applicable</b>	
<p><b>Conditions</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Congestion or restricted action</li> <li><input type="checkbox"/> Poor housekeeping; disorderly workplace</li> <li><input type="checkbox"/> Slip/trip hazards</li> <li><input type="checkbox"/> Lack of or inappropriate furniture/equipment</li> <li><input type="checkbox"/> Design or arrangement of furniture/equipment</li> <li><input type="checkbox"/> Defective furniture, tools, equipment or materials</li> <li><input type="checkbox"/> Inadequate or excessive illumination</li> <li><input type="checkbox"/> Inadequate ventilation</li> <li><input type="checkbox"/> Excessive noise</li> <li><input type="checkbox"/> Inadequate or improper protective equipment</li> <li><input type="checkbox"/> Fire and explosion hazards</li> <li><input type="checkbox"/> Inadequate warning systems</li> <li><input type="checkbox"/> Irate client/employee action</li> <li><input type="checkbox"/> Adverse weather</li> </ul>	<p><b>Practices</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Improper body position/posture</li> <li><input type="checkbox"/> Tasks not varied/micro breaks not taken</li> <li><input type="checkbox"/> Unnecessary rushing</li> <li><input type="checkbox"/> Improper lifting</li> <li><input type="checkbox"/> Unsafe loading/placement</li> <li><input type="checkbox"/> Using defective equipment</li> <li><input type="checkbox"/> Using equipment improperly</li> <li><input type="checkbox"/> Altering or modifying equipment</li> <li><input type="checkbox"/> Not using personal protective equipment or failing to use it properly</li> <li><input type="checkbox"/> Not following appropriate procedures</li> <li><input type="checkbox"/> Inappropriate conduct</li> <li><input type="checkbox"/> Hazardous personal attire</li> <li><input type="checkbox"/> Other (explain):</li> </ul>

<b>DAELIM</b>	<b>Gulpur Hydropower Project</b> Health & Safety Incident Reporting	
<b>LOTTE E&amp;C</b>		

<input type="checkbox"/> Other (explain):		
What are the reasons for the existence of these practices and/or conditions?		
<b>Prevention/Corrective Action</b>		
Actions to prevent accident/incident recurrence. Check (✓) those actions taken to prevent recurrence. Mark with (P) other corrective actions decided upon or planned but not yet carried out. More than one item may apply.		
<input type="checkbox"/> Training/instruction of person involved	<input type="checkbox"/> Request ergonomic assessment	
<input type="checkbox"/> Improve work procedures	<input type="checkbox"/> Request environmental assessment	
<input type="checkbox"/> Inform staff/managers of safe work procedures	<input type="checkbox"/> Correction of work area	
<input type="checkbox"/> Perform job safety analysis	<input type="checkbox"/> Recommend development/improvement to training/HEALTH AND SAFETY program	
<input type="checkbox"/> Inform staff/managers of hazard and how to protect themselves	<input type="checkbox"/> Reassess work standards	
<input type="checkbox"/> Notify appropriate individuals	<input type="checkbox"/> Reassignment of person	
<input type="checkbox"/> Improve engineering/design	<input type="checkbox"/> Improve housekeeping	
<input type="checkbox"/> Improve inspection procedures	<input type="checkbox"/> Other (describe):	
<input type="checkbox"/> Tools, equipment, furniture repair or replacement		
Remember that ALL corrective action shall be documented on the Corrective Action form.		
Describe actions taken.		
<b>Investigated by:</b>		
Manager's Signature	Name (print)	Date (dd-mmm-yyyy)
<b>Review by:</b>		
Project Manager's Signature	Name (print)	Date (dd-mmm-yyyy)

<b>DAELIM</b>	<b>Gulpur Hydropower Project</b> Health & Safety Incident Reporting	
<b>LOTTE E&amp;C</b>		

**First Aid Accident Record**

Date	Time of Accident	Time/Date Reported	Name	Occupation	Description of Accident	Nature of Injury	Treatment	FAA Initials	Deposition of Case & Remarks

REFERENCE DOCUMENT:

## Minimum PPE Requirements for GULPUR Hydropower Project

	Driver	Mechanic	Welder	Electrician	Fuel Clerk	Surveyor/Engineer	Driller	Blast Man	Medic	Laundry Worker	Labours	House Keeper	Cook	Carpenter
Uniform	√	√	√	√	√	√	√	√ (Anti-static)	√	√	√	√	√	√
Safety Boots	√	√	√	√	√	√	√	√	√	√	√	√	√	√
safety rubber boots *	√				√									
Helmet		√		√		√	√	√			√			
Light Gloves						√	√	√			√	√	√	√
Heavy Duty Gloves		√		√										
Medical Gloves									√					
Rubber Gloves *					√					√		√		
Welding Gloves			√											
Electrical Gloves				√										
Safety Glasses		√	√											
Safety Goggles			√		√		√	√						
Ear Protection		√		√		√	√							
Face Shield		√	√											
Leather Apron			√											
Shin Guard														
Rubber Apron			√											
Rain Coat	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Sun Safety Glasses	√		√			√		√						√
Caps	√		√			√	√	√						√

In addition to the above, additional PPE shall be provided based on requirements of operating condition, The minimum PPE requirements shall be updated as per need.

\* The rubber gloves and boots should be hydrocarbon resistant

<b>DAELIM</b>	<b>Gulpur Hydropower Project</b> PPE Issuance & Inspection Procedure	
<b>LOTTE E&amp;C</b>		

Department: Health and Safety	Personal Protective Equipment Issuance & Inspection–Procedure- HSC-04	Written by SahibzadaTanzeel Ahmed (EPCC Health & Safety Manager)	Validated by --
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Revision No.	Revision Date:	Revised:	Commented By	Approved By
Rev 1.0	2/27/15	SahibzadaTanzeel Ahmed (EPCC Health and Safety Manager)	--	JahanzebMurad(Manager EHS & CSR Mira)
Rev 1.1	06/09/15	SahibzadaTanzeel Ahmed (EPCC Health and Safety Manager)	Hafsa Idrees	JahanzebMurad(Manager EHS & CSR Mira)

## PURPOSE

To ensure the workers are protected against residual risks from the Gulpur Hydropower Project by proper and selective issuance of Personal Protective Equipment (PPE) as per job requirement along with inspection program to ensure proper issuance and use of PPE

## SCOPE

This PPE issuance and inspection procedure applies to all activities of construction carried out by the contractors and sub-contractors at Gulpur Hydropower Project (GHPP).

## REQUIREMENTS

PPE shall be in place and must be worn as last defense after controls such as elimination, substitution, engineering and administration. EPCC will ensure proper issuance of PPE to employees, workers of contractors, sub-contractors as per IFC EHS guidelines and specification of contracts.

<b>DAELIM</b>	<b>Gulpur Hydropower Project</b>	
<b>LOTTE E&amp;C</b>	PPE Issuance & Inspection Procedure	

Minimum PPE requirements shall be issued by the EPCC Health & Safety Department for the construction activities at Gulpur Hydropower Project. Workers will be given instructions on the proper use and maintenance of their

PPE during the HSSE orientation tour with additional training for specific PPE required for certain types of work.

**SUB-CONTRACTORS** are responsible for ensuring their employees have proper PPE as required for various construction activities.

**THE EPCC PROJECT MANAGER** and **HEALTH SAFETY MANAGER** will ensure the PPE issuance and inspection for the EPCC and sub-contractors, for certain types of workers like drivers, welders, electricians, crane operators, fork lift and operators etc.

**EPCC SITE HEALTH & SAFETY SUPERVISORS** will be responsible for conducting the inspections of the PPE, and its compliance according to the Minimum PPE requirement matrix for Gulpur Hydropower Project.

#### **REFERENCE**

Minimum PPE Requirements for Gulpur Hydro Power Project

<b>DAELIM</b>	<b>Gulpur Hydropower Project</b> Minimum Training Requirements	
<b>LOTTE E&amp;C</b>		

Department: Health and Safety	Minimum Training Requirements–Procedure- HSC-03	Written by Sahibzada Tanzeel Ahmed (EPCC Health & Safety Manager)	Validated by --
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Revision No.	Revision Date:	Revised:	Commented By	Approved By
Rev 1.0	2/27/15	Sahibzada Tanzeel Ahmed (EPCC Health and Safety Manager)	--	Jahanzeb Murad (Manager EHS & CSR Mira)
Rev 1.1	06/09/15	Sahibzada Tanzeel Ahmed (EPCC Health and Safety Manager)	Hafsa Idrees	Jahanzeb Murad (Manager EHS & CSR Mira)

## PURPOSE

To ensure the minimum requirements for the Health and Safety Trainings and Induction are conducted as per requirements of the personnel job descriptions.

## SCOPE

This minimum Training requirement procedure applies to all employees involved in the activities of construction carried out by the EPCC, contractors and sub-contractors at Gulpur Hydropower Project (GHPP).

## RESPONSIBILITIES

The matrix below describes the Health and Safety Training requirements that EPCC will insist on for all its employees and management staff. For contractors and sub-contractors, an additional training matrix shall be provided to facilitate the effectiveness of trainings. In addition all personnel will comply with the relevant local regulations and lenders requirements for trainings.

<b>DAELIM</b>	<b>Gulpur Hydropower Project</b> Minimum Training Requirements	
<b>LOTTE E&amp;C</b>		

Training Topics	New Assignees	Senior Managers	Field Engineers	Operators/ Supervisors
<b>EPCC MANAGEMENT SYSTEMS</b>				
Health and Safety management system – top management		•		
Health and Safety management system – supervisory personnel			•	
Meetings & committee organization			•	
Incident prevention	•			
Incident reporting/classification			•	
Incident investigation (supervisors)			•	
Incident investigation (managers)		•	•	
Auditing techniques		•	•	
Unsafe act/condition auditing		•	•	
<b>EMERGENCY RESPONSE</b>				
Emergency procedures	•	•	•	
<b>ENVIRONMENTAL &amp; EXTERNAL AFFAIRS</b>				
Environmental preservation	•		•	
General environmental management	•		•	
Hazardous and other waste management	•		•	
Hazardous material handling	•			
Community relations	•			
<b>EQUIPMENT</b>				

<b>DAELIM</b>	<b>Gulpur Hydropower Project</b> Minimum Training Requirements	
<b>LOTTE E&amp;C</b>		

Equipment safety	●			
Machinery				●
Cutting & welding (gas & electric)				●
Pressure systems in work place in Tunneling works	●		●	●
Mechanical handling				●
Workshop practices			●	
Electrical safety	●		●	●
<b>FIRE PREVENTION, DETECTION &amp; FIGHTING</b>				
Fire prevention & control	●		●	
Basic fire fighting techniques				●
Fire warden				●
Advanced fire fighting – marine operations				●
<b>MATERIAL HANDLING</b>				
Manual handling & lifting	●			●
PTW, LOTO				
Permit to work	●		●	●
Lockout / tagout	●		●	●
Confined spaces	●			●
Journey Management				
Transport & Travel	●			
<b>OCCUPATIONAL HEALTH</b>				

<b>DAELIM</b>	<b>Gulpur Hydropower Project</b> Minimum Training Requirements	
<b>LOTTE E&amp;C</b>		

Basic First Aid	•			
Advanced First Aid				•
Blood borne pathogens (HIV, hepatitis, etc.)	•			
Personal health & hygiene	•			
Substance abuse	•			
Substance abuse monitoring & testing		•	•	
Hearing conservation	•			
On site – Food handling & hygiene				•
<b>PERSONAL PROTECTIVE EQUIPMENT</b>				
PPE – its proper use	•			
Safety harnesses			•	•
Breathing			•	•
Working at heights	•			•
<b>RISK ASSESSMENT / ANALYSIS</b>				
Job hazard analysis		•		
Tunneling and Blasting			•	
<b>WEATHER &amp; TERRAIN CONDITIONS</b>				
Heat / cold management			•	
Mountaineering			•	
<b>Blasting Activities</b>				
Drilling Health and Safety			•	

<b>DAELIM</b>	<b>Gulpur Hydropower Project</b> Minimum Training Requirements	
<b>LOTTE E&amp;C</b>		

Blasting Activities			•	
Transportation				
Defensive driving	•			•
Off-road driving				•
Vehicle recovery				•
Operations on public highway				•

<b>DAELIM</b>	<b>Gulpur Hydropower Project</b> Minimum Training Requirements	
<b>LOTTE E&amp;C</b>		

REFERENCE DOCUMENT:

<b>DAELIM</b>	<b>Gulpur Hydropower Project</b> Health and Safety Induction & Training	
<b>LOTTE E&amp;C</b>		

Department: Health and Safety	Health and Safety Induction & Training–Procedure- HSC-02	Written by Sahibzada Tanzeel Ahmed (EPCC Health & Safety Manager)	Validated by --
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Rev 1.0	2/27/15	Sahibzada Tanzeel Ahmed (EPCC Health and Safety Manager)	--	Jahanzeb Murad (Manager EHS & CSR Mira Power Ltd)
Rev 1.1	06/09/15	Sahibzada Tanzeel Ahmed (EPCC Health and Safety Manager)	--Hafsa Idrees	Jahanzeb Murad (Manager EHS & CSR Mira Power Ltd)

## PURPOSE

To ensure that all employees are competent to meet their responsibilities and aware of the risks of activities during Gulpur Hydropower Project.

## SCOPE

This Training and Induction procedure applies to all activities of construction carried out by the contractors and sub-contractors at Gulpur Hydropower Project (GHPP).

## RESPONSIBILITIES

Training in Gulpur Hydropower Project includes Health & Safety training and job-related professional and technical training whereas Health and Safety training is a priority. All employees of EPCC and Sub-contractors will receive specific job related training sessions according to EPCC Health and Safety training requirements, local regulations and project contract requirements. The employees shall also receive valid certificate if required for construction activities.

<b>DAELIM</b>	<b>Gulpur Hydropower Project</b> Health and Safety Induction & Training	
<b>LOTTE E&amp;C</b>		

**SUB-CONTRACTORS** are responsible for ensuring that their employees have valid certificates as required for various construction activities.

**THE EPCC PROJECT MANAGER** and **HEALTH SAFETY MANAGER** will ensure that the training sessions are conducted as planned by a competent person . This will also include keeping several records such as certificates, if any, for certain types of workers i.e. blasters, drivers, welders, electricians, crane operators and fork lift operators etc.

**EPCC SITE HEALTH & SAFETY INSPECTORS** will be responsible for conducting the training & Induction sessions as planned and maintaining the training matrix for project.

#### **VISITORS**

All visitors shall report immediately to the Construction Manager or designee to receive the Health & Safety Briefing. The construction site of Gulpur Hydropower Project shall have a system in place to ensure that all visitors report immediately to the Construction Manager or Security Manager.

#### **ORIENTATION**

All newly hired employees shall receive general and job-specific orientations in Health & Safety prior to their first work assignment. Employees transferring to new positions or locations shall receive formal orientation about specific Health & Safety issues related to their new locations. Local induction programs in Urdu including any specific customer requirements shall be in place to communicate the information in local languages when necessary.

#### **HEALTH AND SAFETY INDUCTION PROGRAM**

All newly hired employees shall be given a Health & Safety induction in the EPCC Conference room prior to proceeding to the workplace in order to ensure safely carry out duties. All newly hired employees shall receive appropriate general and job specific inductions in Health & Safety before their first work assignment.

#### **HEALTH & SAFETY BRIEFING**

<b>DAELIM</b>	<b>Gulpur Hydropower Project</b> Health and Safety Induction & Training	
<b>LOTTE E&amp;C</b>		

The Health & Safety Briefing shall be completed upon arrival at the Gulpur Hydropower Project for all EPCC employees, contractors, sub-contractors third party persons, and visitors. A log/record shall be kept indicating completion of all Health & Safety Briefings.

## **RECORDS**

### **OHS TRAINING RECORDS**

The training undertaken shall be recorded in order to ensure that the health and safety personnel have comprehensively and affectively demonstrated during the training sessions. These sessions are meant for staff that they supervise for their work safety. The EPCC Health and Safety department has a developed a simple Performa which will be used to record attendance at Health and Safety training and shall be available for audits.

### **REFERENCE DOCUMENT:**

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## **Exhibit 18 – Social Complaint Register**

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(Please see the next page)

## Gulpur Hydropower Project Community Complains & Events Register

complaint No	Name	Location	Date & details of complaint	Name of Receiver	Action taken /required	Status/ Remarks
C00055	Mirdad Hussain S/O Badar Ali	Seharmandi Kamilli	15-12-2015 My home is near to site (CR5). Due to blasting my house is badly affected. Two room which are for cattle and goats are completely damaged and residential house walls , floor & roof have got crackes because of blasting kindly visit & compensate the loss.	Tariq Baralvi CLO	CLO told this issue to Manager CSR Mira power , Manager HSE Daelim & Manager planning. Manager HSE visited the affected house and got pictures. CLO arranged a meeting with Daelim Managers along with affected person . Mutually it was decided that 100000 will be payed to affected person against this loss & each year onwards Daelim will pay \$500 to that person. The decided amount will be paid by daelim with in two weeks.	Issue is sloved on 22-12-2015 & affected person is satisfied
C00054	Raja shokat S/O Umar Hayat (APS)	Barali	13-12-2015 Project is working for more then one year but community of Barali is still deprive of its basic rights which were given to community according to rules and regulations. We were hoping for different kind of services from the project such as jobs , transport & business. If we are not qualify then EPCC can apply other options , so kindly give us jobs and other leagle rights .	Tariq Baralvi CLO		
C00053	Raja Adil focal person for Extreme engineer	Muzaffarabad AJK	10-12-2015 Complaint against procurement department regarding sand & crush supply contract. Mr Adil said that he submitted bid for above items but contract is given to Pir & Co without adopting any proper procedure . Our company is not called or informed by Procurement department . why we are ignored	Tariq Baralvi CLO	CLO arranged the meeting of Mr Adil with planning contractor Manager Mr.Moon Daelim . CLO requested to Mr.Moon that consider the complaint of Extreme Engineer regarding particular case . He gave assurance that Daelim will consider with in possible scope .	on 15-12-2015 meeting was done .
C00052	1:M Abid 2:H Aziz 3:Akhtar Hussain 4:M Ashraf	Rehmani Mohallah Barali	29-11-2015 Due to loud noise of blasting we disturb and our daily work is also disturb specially during rest time. Other then this our houses are also damaged due to high noise of blasting . So please night blasting should be prohibited and explosive use should be with in limits	Tariq Baralvi CLO	CLO raised this issue to safety Manager EPCC and informed about community grivience regarding blasting . The Manager ensured community that in future community grievance will be addressed properly . Blasting noise will not disturb the community people.	Community satisfied on 30-11-2015
C00051	Gulbar Hussain S/O Abdul karim	Rehmani Mohallah Barali	25-11-2015 workers & other people are using my land as public path I am requesting & informing for a long time to built a boundary wall but still no action is taken So once again I am informing for a boundary wall. Please take immediate action regarding this issue . 16-11-2015 The transport of project such as Dumpers , trucks & jeeps are driven in very high speed in populated area which can cause accident. So clear instruction should be given to all drivers for carefull driving.	Tariq Baralvi CLO	Immediate action is taken and security person is appointed , & instructions given to stop the workers. Instructions are also given in TBM by HSE Manager.	Issue is resolved by security Manager in 27-11-2015
C00050	1: Sarfraz 2:Farooq 3:M Serwar	Barali	10-11-2015 I had a incident of Dumper at dumping area due to helper mistake . PM Pir & Co removed three drivers including me from job. He said that our management decided to avoid the local hiring that is why we are removing you.	Tariq Baralvi CLO	CLO raised the issue to Manager HSE Daelim regarding over speeding of project drivers . The manager strictly advised to all drivers in TBM to reduce speed in community area and drive carefully.	11-11-2015 completed
C00049	Muhammad Amtiaz S/O Mian Ishaq	Kotli	02-11-2015 Material excavated such as stone are putting on our beloved graves by dumpers (trucks) Which means they are disrespecting our graveyard . We can,t bear such kind of activities in graveyard area . I am informing you for cleaning the graves immediately	Tariq Baralvi CLO	CLO raised the issue to manager HSE Daelim regarding drivers removing issue.The manager called Pir & Co PM in his office and told him about the sensitivity of issue. He told PM that locals are our partner & neighbour and it is their right to get job in the project where they qualify .	Issue resolve PM offered to all three drivers to rejoin but they refused willingly
C00048	Hafiz Abas S/O Haneef	Rehmani Mohallah Barali	22-10-2015 Complained that excavated material is placed in the way of water in the track leading to culvert . Secondly he said that it was promised with me by the project team comprised of Mr Moon & Mr Hun etc. that project authorities will erect the left over wall with in four weeks. There is no progress about this wall so far.	Tariq Baralvi CLO	CLO visited the graveyard and observed some stones over graves. Then HSE Manager is told about the sensitivity of graveyard . The HSE manager took immediate action and made the graveyard ,clean with the help of operational company. The issue is resolved within an hour.	02-11-2015 Issue is resolved and Mr Abbas is satisfied by action
C00047	Gulbar Hussain S/O Abdul karim	Rehmani Mohallah Barali	14-10-2015 We are neighbour of the project & also affected persons . We heard that ground breaking ceremony of the project is going on tomorrow but we are not invited in the ceremony Mira power issued invitation card to partipants but we did not recive cards . we want to attend this ceremony where Prime Minister of pakistan is comming as a Chief gust. please make sure our participation in ceremony regarding the status of APS.	Tariq Baralvi CLO	CLO submitted the complaint to Daelim construction department , asked for clear the place which is filled by excavated material . Further CLO also contact with Mr Moon & Mr Hun and reminded them their promise which they made with Mr Gulbar regarding erection of boundary wall. they gave assurance that this wall will be completed within time	
C00046	1: H A ziz 2: Akhtar Hussain 3: Gulbar Hussain 4: Kashif Shazad	Rehmani Mohallah Barali	14-10-2015 We are neighbour of the project & also affected persons . We heard that ground breaking ceremony of the project is going on tomorrow but we are not invited in the ceremony Mira power issued invitation card to partipants but we did not recive cards . we want to attend this ceremony where Prime Minister of pakistan is comming as a Chief gust. please make sure our participation in ceremony regarding the status of APS.	Tariq Baralvi CLO	CLO told them that Mira Power always do care & keep regard of APS . The invitation card is issued to APS representatives and local community representatives. Due to some restrictions by PM house Mira power could not invite to all APS Because of PM protocole and security risks Mira power is bound to invite limited people. CLO raised this issue to Manager CSR, Manager talked to concern authority Mira power and asked for favour for APS . On 15 of october Manager HRM handed over four invitation cards to CLO on behalf of Manager CSR . CLO hanede over cards to four APS . They were obliged to Mira power for this favour	15-10-2015 Invitation cards issued to APS .They were very happy & excited because they were authorized to attend the ceremony.

C00045	Altaf Hussain S/O Ghulam Hussain	Rehmani Mohallah Barali	02-10-2015 Our graveyard which is situated in the site , that is going to be disrespt by workers during workign hours . We local community are worried & have serious concern that graveyard should be baricaded from all sides .	Tariq Baralvi CLO	CLO inform Mr Tanzeel Manager HSE about the concern of community . He took action and forwarded the complaint to construction department to immediately baricade the community graveyard from all side .	On 3-10-2015 this issue is resolved and and graveyard is baricaded from all sides . Now it is fully secured community is very happy . On 02-10-2015 Mr Munwar called for interview through CLO & he is appointed as driver in Daelim co .
C00044	Munwar Hussain S/O Jan M (APS)	Rehmani Mohallah Barali	15-9-2015 I am driver by profession & trying for job in the project from couple of months but still I am jobless while I am neighbour & APS of the project	Tariq Baralvi CLO	CLO talked to EPCC of the project regarding APS concerns & specially requested for jobs.They were committed to consider him .	
C00043	M Sajid S/O M Shareerf	Rehmani Mohallah Barali	Electricity main line proposed survey is touching my house boundary wall . Which can be dangerous in future for my family during any activity . I have children who are usually paly beside the wall and they are not aware of expected danger . I am requesting you to take necessary action in this regard and if possible please change the survey. I am hoping that my request will be considered on priority basis .	Tariq Baralvi CLO	CLO delivered the request to daelim concerning department and HSE department . Both the departments gave assurance that electricity line will not be any cause of danger for the neighbours . Further , we will review the survey and if observed any kind of inconvenience or danger then we will change it .	16-11-2015 Issue solved
C00042	Gulbar Hussain S/O Abdul karim	Rehmani Mohallah Barali	25-9-2015 My home is beside the site and my family is affected due to absense of boundary wall.	Tariq Baralvi CLO	CLO negotiated with HSE Manager Daelim regarding boundary wall to construct immediately to avoid any social issue . HSE Manager committed that boundary wall will be constructed with in four weeks .	Issue resolved .
C00041	Mr Tanzeel & Mr Abo Alin (APS)	Seharmandi	15-08-2015 No jobs (unskilled) being offered to him inspite of regular follow up .	Tariq Baralvi CLO	The issue was raised by CLO & Manager EHS & CSR during weekly meeting with EPCC . EPCC has ensured to engage maximum people from community and APS .	01-09-2015 Both APS selected for relevent job .
C00040	Abdul Rehman , Muhammad Younas & two others	Seharmandi kamilli	03-08-2015 We have no access to Barali because there was chair lift on river poonch which was destroyed by flood . Our childrens' education is badly affected due uneasy access to Barali School . We were hoping that Mira Power will arrange new chair lift .	Tariq Baralvi CLO	CLO raised this issue to Mira power CSR department . Manager CSR agreed for chair lift & told CLO for communicate the message to seharmandi community that Mira Power will address the issues of community on priority bases . We will discuss in our meeting and will arrange budget for chair lift in mid of october .	07-09-2015 completed
C00039	Amjad Manzoor S/O Manzoor Hussain (APS)	Seharmandi	25-06-2015 From our land trees are cutting down but EPCC is not giving us wood of trees. Because these trees are planted by us so it is our right to get wood of these trees	Tariq Baralvi CLO	CLO put this request to GM Daelim and requested for favour to APS regarding cutting trees . Told him that this is just obligation to APS otherwise we are not legally owner of trees or any other property of project . Permission is granted to Mr Amjad by EPCC .	07-09-2015 completed
C00038	Ghulam Hussain S/O Muhammad Alam (APS)	Seharmandi	03-06-2015 As APS it is our right that job & other favour like business chances are given to us , I am a businessman by profession & I have some products which can supply to the project . I was thinking that companies will consider me in business , I have spare parts of vehicles , oil of different variety and body parts in my shop . I will give all items on market rate, so give me chance	Tariq Baralvi CLO	CLO took action and informed the Manager CSR . The manager raised the issue in EPCC meeting and gave them instruction that APS should be consider in relevant areas . He said that community and APS are our partners . We have to oblige them and EPCC consider them on priority basis . The GM daelim gave assurance that they will consider the applicant in future .	On 05-06-2015 message is conveyed to GM daelim
C00037	H.M Altaf , Abdul Aziz , & M. Arif	Rehmani Mohallah Barali	05-04-2015 we have two relation with project . One is APS & other that we are the neighbour of the project . We need excavated material for our private land We tried to get such material from TTC company but they refused According to our point of view this is waste material ,we are stated that give us permission by considering the our status .	Tariq Baralvi CLO	CLO consulted to Manager CSR MPL regarding the grant permission for excavated material to the community . The Manager explained the mechanism of the requested material . He told that we are bounded by the Government to put such material to awarded land only . If community /APS required any favour then they will have to get permission from Government first . Then CLO told to applicants the procedure of demanded material . They followed instruction & adopted the procedure . They got permission from local Government and submitted the request for excavated material in Daelim through CLO .	At last permission is granted by MPL & Daelim excavated material is started to put in applicants private land . They are very happy & obliged .
C00036	Gohar Siddiquee S/O M siddiquee	Hajeera Distric	01-04-2015 I am civil Engineer by profession and have a four Years experience in Neelam Jhelum project . I came here so many times for job but I could not present my CV so far because I had no access to operational companies . My request is at least to provide me opportunity to prove my abilities in any relevant job & department .	Tariq Baralvi CLO	CLO took action and addressed the complaint properly also informed the situation to Manager CSR MPL . The CV is presented in construction department Daelim by CLO in weekly meeting with EPCC. The Manager CSR gave clear instruction to Daelim that community is main stake holder of the project. If some one from community is qualify the relevant job then they should be considered . The applicant was called by Daelim in Oct. 2015 as per vacancy . His interview was taken and he was selected as per his qualification and ability . CLO appreciated his patience and motivated him that in future , if any job vacant he will be called for interview . If he fulfills the merit then he will be selected . CLO presented his CV to all operational companies in the project .	01-10-2015 Mr Gohar siddiquee got job in october because relevant job was vacant in this month .
C00035	Farhan Idrees S/O Idrees	Kuriti kotli	05-03-20 15 I am a civil Engineer and want job here in the project . I completed my education from U.K and when I heard that GHPP is started then I left U.K I presented my C.V to Dealim for job but so far no response	Tariq Baralvi CLO		JV2 call him for interview on 01-09-2015 and he is selected .
C00034	Abdul Raziq	Kotli khourata	05-03-2015 I am Civil Engineer & also local . I heard that Mira Power intends to give jobs to locals who will qualify in relevant departments . I am trying for job in the project but did not get any job or offer so far .	Tariq Baralvi CLO	CLO agreed with his views regarding Mira Power intends for the locals . CLO took his CV & presented it to operational companies in the project. Gave Mr Raziq assurance that he will be considered when any job will be available in the project	01-10-2015 After Many interviews in different companies Mr Raziq is selected in TTC company as site Eng.

C00033	Nazak Hussain S/O M Shareef	Sehar Mandi	03-03-2015 No job opportunity offered by project companies to us while I visited the site many time for job (unskilled) but they sent back by saying that I have no skill .	Tariq Baralvi CLO	CLO raised this issue to manager CSR Mira Power . The manager CSR raised this issue in weekly meeting with EPCC . He told them that we had obligations to the APS ( unskilled ) .	On 01-10-2015 job is done in TTC company as watchman .
C00032	Aftab Hussain shah	Hill kallah kotle	02-03-2015 Project construction is started & we did not receive compensation amount . Rest the rate of our land is very low	Tariq Baralvi CLO	CLO told him the procedure of amount which is given to APS . All payments against the land compensation is given through collector land so he should with the collector office . Further if he have any objection regarding rates of land then he have to submit reference in collector office .	02-03-2015 issue is solved
C00031	Fazal Ahmed S/O Nizam din	Sehar Mandi	23-02-2015 No jobs (unskilled) being offered to me , I visited the site many time and request for job but could not get job so far .	Tariq Baralvi CLO	CLO talked to SAMBU labour supervisor for locals labour jobs . He gave commitment that on 1st of march they will adjust him.	On 01-03-2015 job is done
C00030	Khadim iqbal S/O M Iqbal	Barali	22-02-2015 No job available for the local while I am a driver gave land for project. I am really deserve a job .	Tariq Baralvi CLO	CLO talked to Manager CSR, Manager CSR raised this issue in weekly meeting EPCC gave assurance that we will consider the locals on priority basis . Rest they agreed that they will give opportunity to locals first if they qualify .	Job is given to Mr Khadim on 01-03-2015
C00029	Arshad Iqbal S/O Raj Muhammad	Barali	21-01-2015 I have water tank along with Tractor . I want to involve my tractor Tanker in project on rent basis . On my own level I tried my best to enter this tractor in the project on rent but there is no response from EPCC .	Tariq Baralvi CLO	CLO negotiated with Daelim the contractor of the project & told them regarding the rights of APS . They agreed & gave commitment that this tractor tanker will be hired from 1st of March	EPCC consider the complaint & contract is done on 1st March
C00028	M Azeem S/O Faqeer Muhammad	Barali	19-02-2015 We had 15 kanal land while we received amount against 7 kanal land .	Tariq Baralvi CLO	CLO consulted with land department & got the set criteria of compensation . They told that there are three types of land 1:crown land 2:shamlat 3:private ownership of people . People can take compensation only for their ownership land . Crown land's ownership belong to government . CLO told to Mr Azeem that you were owner of 7 kanal land that's why you received 7 kanal land compensation .	On 20-02-2015 completed the complaint Mr Azeem is satisfied
C00027	Abdul Razaq APS	Dera Nawab Khan	19-02-2015 Compensation rate of land is very low that is why we are not receiving compensation amount and we will take stay from court against land acquisition .	Tariq Baralvi CLO	CLO told him that stay is not fruitful for him in this case . If APS are not satisfied by the given rate of compensation then according to law you should go in court by filling a case through reference . If court decide to increase the rate then Mira power will follow the court decision .	Procedure of relevant law is understand by Mr Razaq & he is satisfied .
C00026	Tanzeel sb Manager EHS Daelim	Site Area	Tanzeel sb called CLO and told that he received a complaint from working area that some persons throw stones to laboures who are working on bridge from the top of hill . Further , he told that Mr Majid civil engineer Daelim informed me through a phone call .	Tariq Baralvi CLO	CLO took action and called a person who belong to relevant area . CLO assesses the situation and asked the person to go at top of hill where there is stones thrown complaint . After one hour the person told the CLO that there was no person at all . He said that this was blame & not a single stone is thrown. After complete investigation CLO informed the Manager CSR & EHS Mira Power and Manager Daelim about fake story told by Majid civil Eng irresponsibility of Majid wasted time of all involved persons . Mr Lee , Mr Tanzeel , CLO & a community person involved in this issue .	
C00025	M M Hussain ,Raja Shokat , H sadique , M Rehman ,Arshad Iqbal & community people	Barali	08-02-2016 We are neighbour and affected people of this project.work is started form more than three months but still no response from EPCC . It is over right as Neighbour & APS to adjust us in this project by giving jobs , sub contracting , transportation and many other services which are involved in the project . we are depressed and grieved by the behaviour of EPCC . we are watching here the people whom are not from community got jobs and others facilities from project and also for his relatives e.g Mr Majid .we lost our lands, houses and environment but in return we got nothing . in site area a restaurant was opened & we tried to take it .We met Mr Moom and requested him but he misbehaved us and refused to do so . we faced all above ignorance but made no protest or any illegal action. Because we want to see this project in progress . in future we do not accept any ignorance and stand up for our rights	Tariq Baralvi CLO	CLO listed all complaints of people in a calm & cool way. CLO told them that this project is in initial stage . You people need to be patience . Mira power consider you partner . CSR is active and they are making plans for community development , but it will take some time . The company Manager always raise his voice during meeting with EPCC . CLO told the community that Mira power keeps highly regards of APS further when project goes ahead then community will be accommodated in jobs and other services .	After presentation of CLO community people satisfied .
C00024	M . Hanif	Rehmani Mohallah Barali	26-01-2015 A labour is died by electric short during work at Rehmani mohallah out of site Area there were some people trying to put this accident in project .	Tariq Baralvi CLO	CLO sharply handle this with the help of higher management . CLO involved some wise and positive people from the community . They managed the accident wisely by the guidance of CLO . In short CLO manage this issue very wisely using his skills .	

C00023	Raja Riasat khan & community people of Gulpur	Gulpur	24-01-2015 some community people from Gulpur leading by Raja Riasat khan came to awarded area and stoped TTC workers for dumping because according to them the particular area is specified for community graveyard . It was against the fact and against the record .	Tariq Baralvi CLO	CLO told Raja Riasat that Mira power follow all rules and regulations and your action is illegale and against the law. later CLO met with community people and told them importance of project & their illegal actions CLO told them if this area is specified for graveyard then you must have written proof. CLO make them sure that legally you have no right to take any action .	Raja & community people understand the facts & they gave assurance that they will not create any hurdle in future . Issue solved .
C00022	Haji Naseeb ullah S/O Shah Muhammad	Site Area	8-01-2015 Mr Abas local person along with unknown person came here in duty area . I am watch man for heavy machinery under supervision of (TTC) . I asked these people why you come here late night they did not satisfied me so I found them suspicious because where they came that area was irrelevant for them . 30-01-2015 Our houses compensation amount is still pending & deputy commissioner office is not releasing the amount .	Tariq Baralvi CLO	CLO went there at site area and investigate those people & also warned them. Their parents gave assurance that next time they will never come to project area . CLO took action & met with DC several time but he was delaying . Ultimately CLO efforts bring result and amount is releasing by DC office	On 08-01-2015 issue is solved  APS were happy on this & also thanks MPL on this action .
C00021	M .Abid , M . Sajid	Barali				
C00020	Nazarat Hussain S/O M shreef	Sehermandi	01-01-2015 APS of seharmandi are being ignored in jobs & other outcomes from the project . So kindly consider us and give us our due rights .	Tariq Baralvi CLO	CLO told that now this project is in premature stage and after few months people specialy APS will be adjusted , CLO also told them that according to agreement they are partner of project so no need to worry .	Mr Nazarat was satisfied .
C00019	M Hussain PM of TTC	Site Area	31-12-2014 Local boys plays cricket in site area due to this our working is disturbed .we try to stop them but no result .	Tariq Baralvi CLO	CLO apporched the guys and told them about project site area rules and regulation , and told them that this is not play ground .	Boys understood the issue & issue is resolved at the end .
C00018	Mr Sarfraz Ahmed	kotli	30-12-2014 I am a nature lover , especially of wild life . I observe that people are catching fish in the river through electric current & blasting . Please do some thing to stop this . 27-12-2014 The APS & community people came here at site .they were unhappy because of ignorance in jobs & other things like business etc . Mr Shoukat Iqbal was specially very unhappy because he want to run the resturaurant here at site .	Tariq Baralvi CLO	CLO appreciated his thoughts assured him t that illegal hunting of fishes will be stopped & also blasting issue will be resolved. Later these issue were resolved with the assistance of MPL .	Mr Sarfraz went back happy .
C00017	APS / Community	Barali		Tariq Baralvi CLO	CLO motivated & convinced them that they will be given priority in future CLO also informed MPL about these issues & request them to take steps in this regard	Issue solved .
C00016	M Ashraf S/O ALLAH Ditta	Barali	15-12-2014 I belong to APS and Mira Power consider us neighbour & partner but till now there is no response I have a tractor trolley & I was hoping that it will invlove in work with EPCC on the basis of resonable rent,so I will stop their tractor trolleys by force .	Tariq Baralvi CLO	CLO guide him very generously & politely that this is very small issue & you will be accommodated soon . No need to take any illegal action , because MPL consider us partner in project .	Mr Ashraf was satisfied & gave assurance that he will take no illegale action .
C00015	N Younas S/O M Fazal	Seharmandi	12-12-2014 we are affected by Gulpur Hydro power project but did not receive any compensation . Our land is affected by project .	Tariq Baralvi CLO	CLO motivated him & tell him status of his land . Actually his claimed land is not his ownership . CLO make him understand that this land is crown land that means that government is owner of this land . In this way you did not get any response from company or local government .	12-12-2014 Younas is satisfied at last
C00014	M Arshad , Akhtar Ali , M Khaliq , Talib Hussain & M Abas	Barali	11-12-2014 These people are planning to create trouble & disturbance in site area . They are misleading community , they are ready to disturb EPCC even they dad decided to take action & stop work . They informed CLO that they can not tolerate work force in our lands .	Tariq Baralvi CLO	CLO got information through sources & took action, arranged a meeting with reasonable personalities from community . CLO listen their points & arguments CLO tried to make them understand that their arguments are totally irrelavent & against the facts . Further CLO told them the affects of their planned activities . Moreover MPL consider you partner .	These four people agreed with me & they promise to avoid from any negative activity in future .
C00013	Hafiz Abas S/O Haneef	Barali	Mr Hafiz came across the working site and try to create trouble . He was showing his reaction because boundary wall is not constructed .	Tariq Baralvi CLO	CLO take action in time & called the responsible community person and tell them about Mr Hafiz illegale activity . They assured that in future this thing will never be repeated CLO visite there & meet with community people & tell them about importance of project . Make them sure that issue will solve very soon .	without any problem issue is solved .
C00012	Hafiz, Nazakat Hussain & others	Seharmandi	We will not allow to start construction in our land . Because we are not satisfied with compensation rate . Work should not be started untill rate issue is not solved .	Tariq Baralvi CLO	They agreed conditionally with CLO till good & positive response from company .	work is in progress under EPCC supervision
C00011	Hadaiat S/O Abdul karim	Barali	07-12-2015 No action is being taken regarding our graveyard boundary wall . In front of our eyes it is daily being disrespected . It require immediate action to construct boundary wall for our soul satisfaction .	Tariq Baralvi CLO	This issue is raised in EPCC meeting by EHS & CSR . Action is taken & boundary wall is in progress .	on 10-12-2014 community is satisfy .
C00010	Haji M Khan	Seharmandi	03-12-2014 we want to know about jattah bridge that it destroy by erosion and flood after raising the water level weather MPL lift up or keep it as its current position. We want him secure & safe for community . 15-11-2014 our cable wire is broken because of cutting trees at site area Barali several occasions we inform CLO about loss but no compensation is given . The loss is approximately 7000 .our company is still wating for positive response .	Tariq Baralvi CLO	CLO told the issue to Manager CSR MPL . The manager CSR gave assurance that no community source will be affected due to project . Rest Jattah bridge will be up lift by MPL in future .	Assurance by Manager CSR is communitated to focal person regarding bridge & he is satisfied .
C00009	Majid Royal cable & owner of cable Mr Amjad Manzoor	Gulpur		Tariq Baralvi CLO	CLO visited the area where the cable wire was broken . After examining the place it was observed that palce was not situated in site area jurisdiction . The owner of cable is now satisfied & has withdrawn from his clam .	16-11-2014 completed

C00008	M Younas S/O M Fazal	Seharmandi	28-11-2014 we have many expectation from project such as education , health & other necessities of life .There is no school, health care & easy access to our locality .we are all also APS so we are hopeful that MPL will address our issues properly & on priority basis .	Tariq Baralvi CLO	CLO told him that in future CSR department will address your basic issues on priority bases . It was discussed in weekly meeting by manager CSR MPL .	completed .
C00007	Talib Hussain S/O fazal Hussain	Barali	25-11-2014 Owner of 5 donkeys complain is same as below .	Tariq Baralvi CLO	CLO & Manager CSR raised this issue in weekly meeting with EPCC	
C00006	M Khaliq S/O Abdul karim	Barali	Same complain as below	Tariq Baralvi CLO	CLO & Manager CSR raised this issue in weekly meeting with EPCC	
C00005	M Maroof S/O Bag Hussain	Barali	My source of income is sand selling with the help of donkeys from site area but after project this area is prohibited for all activities . Because of this my business is badly affected & I am jobless I am requesting to MPL to arrange my job in project .	Tariq Baralvi CLO	CLO & Manager CSR raised this issue in weekly meeting with EPCC	Mr Liaquat brother of Maroof got job & issue is solved .
C00004	Sarfraz Ahmed	Gulhar Jamalpur	No job opportunities for the local community being offered while we are still waiting for jobs in project Also no proper drinking water & no prayer place is specified in site area .	Tariq Baralvi CLO	The issue is raised by CSR in weekly meeting with EPCC . They committed that in future we will do co-operate with local community . This issue was raised by CLO & Manager EHS & CSR during weekly meeting with EPCC . The EPCC ensured to secure the graveyard by making wall .	on 25-12-2014 Sarfraz Ahmed got contract of building by the effort of CSR department .
C00003	M Haneef S/O Fathe Muhammad	Rehmani Mohallah Barali	19-11-2014 In site area our graveyard is going to disrespect & insecure due to work .	Tariq Baralvi CLO	The ESIA of the project does not envisage any such impacts , However their will ongoing monitoring of effectiveness of plans . The system does have provide to adopt any measures if required .	15-12-2014 Boundary wall is constructed by EPCC issue is resolved .
C00002	Ch M Yousaf S/O Said M	Seharmandi	19-11-2014 When water will raise after completion of project then our lands will badly influenced .	Tariq Baralvi CLO	This issue is raised by CLO & Manager EHS in weekly meeting with EPCC The EPCC has ensured to engage maximum people	08-10-2015 gave assurance for compensation on any damage .
C00001	Talib Hussain S/O fazal Hussain	Rehmani Mohallah Barali	10-11-2015 No jobs (unskilled) offered to me despite of extensive follow up.	Tariq Baralvi CLO		18-11-2015 completed