

Environmental and Social Monitoring Report

Project Number: 38928
June 2014

PAKISTAN: New Bong Escape Hydropower Project Laraib Energy Limited Environmental and Social Issues Compliance Report (April 2014 to June 2014)

Prepared by Laraib Energy Limited for the Asian Development Bank

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New Bong Escape Hydroelectric Power Project

Environmental and Social Issues Compliance Report

Quarterly Report

Apr 01, 2014 –June 30, 2014

Laraib Energy Limited

Islamabad

ENVIRONMENTAL AND SOCIAL COMPLIANCE

1. Incidents of Violations or Non-Compliance

1. The following information regarding incidents of violations or non-compliance has been recorded
 - (i) Nature of non-compliance
 - (ii) Violation or non-compliance based on environmental standards and regulations
 - (iii) Recorded dates and authorities
 - (iv) Media or community reactions (if any)
 - (v) Corrective actions, deadlines, identification of responsible parties

2. Incidents of violation and noncompliance along with its corrective actions in the form of ESOHS Corrective Action Plan (ESOHS CAP) are attached as “**Exhibit-27**”. The following is the status of ESOHS CAP as of Jun 30, 2014.
 - Total number of observations 106
 - Number of Issues closed 103
 - Number of Issues In Progress 01
 - Number of Issues open 02

2.0 HSE Statistics:

The summary of accidents encountered from Apr to Jun 2014, are as follows;

Safe Man Hours	First Aid (FA)	Incidents	Medical Treatment (MT)	Restricted Work Injury (RWI)	Lost Work Injury (LTI)	Near Miss
401484	01	00	00	00	00	00

3.0 Development of QMS 9001, EMS 14001 and OHSAS 18001

FAS International was hired by TNBRP AJK as a consultant in order to achieve its goal of Certification.

FAS International has conducted the necessary awareness sessions and also provided mandatory drafts to the management for their review and necessary feedback. Internal Audit Training for the ISO committee members was conducted during this month, as scheduled.

3.1 Quality Management System (QMS) ISO 9001:2008

TNBRP AJK’s Quality Management System at New Bong Escape Hydroelectric Power Complex, is to be based on the requirements of ISO 9001:2008.

Management Representative (MR): **Samsudin Ahmad**

Document Controller (DC): **Zahid Hussain**

<u>Activity Description</u>	<u>Progress</u>	<u>Remarks</u>
Awareness Training	Done	3 Sessions have been conducted
Gap Analysis	Done	Conducted by FAS International
Quality Manual Level 1 Preparation	Done	Prepared by MR
Quality Manual Level 1 Review	Done	
Procedure Level 2 & Level 3 Preparation	Done	<ul style="list-style-type: none"> ▪ Sample of general procedures provided by FAS ▪ Quality Procedures have been prepared as per the approved format.
Procedures, Work Instructions, Forms & Check sheets Review	Done	
Distribution of ISO Documents	Done	Controlled copies have been distributed as per the relevant procedure
System Familiarization	2 Weeks	
Internal Audit Training	Done	Conducted by FAS International in April 2014
Internal Audit	12 & 13.06.2014	Activity carried out by trained internal auditors and reports submitted to MR.
Management Review Meeting	24.06.2014	
External Audit by Certification Body	25.06.2014	Certified by DAS Certification UK with 2 minor NCR's & 4 Observations.

3.2 Environmental Management System EMS 14001:2004

TNBRP AJK's Environmental Management System at New Bong Escape Hydroelectric Power Complex, is to be based on the requirements of ISO 14001:2004.

Management Representative (MR): **Jamdi Bin Mohd Noor**

Document Controller (DC): **Farman Ullah**

<u>Activity Description</u>	<u>Progress</u>	<u>Remarks</u>
Awareness Training	Done	3 Sessions have been conducted
Gap Analysis	Done	Conducted by FAS International
Aspect Impact Training	Done	
Quality Manual Level 1 Preparation	Done	Prepared by HSE Manager

Quality Manual Level 1 Review	Done	Reviewed by MR (EMS)
Procedure Level 2 Preparation	Done	
Procedures, Aspect Impact Register, Forms Preparation & Review	Done	
Distribution of ISO Documents	14.05.2014	Controlled copies have been distributed as per the relevant procedure
System Familiarization	2 Weeks	
Internal Audit Training	Done	Conducted by FAS International in April 2014
Internal Audit	12 & 13.06.2014	Activity carried out by trained internal auditors and reports submitted to MR.
Management Review Meeting	24.06.2014	
External Audit by Certification Body	04.06.2014	Certified by Royal Cert Germany with 2 minor NCR's & 4 Observations

3.3 Occupational Health & Safety Management System OHSAS 18001:2007

TNBRP AJK's Occupational Health and Safety Management System at New Bong Escape Hydroelectric Power Complex, is to be based on the requirements of OHSAS 18001:2007.

Management Representative (MR): **Bilal Khan**

Document Controller (DC): **Farman Ullah**

<u>Activity Description</u>	<u>Progress</u>	<u>Remarks</u>
Awareness Training	Done	3 Sessions have been conducted
Gap Analysis	Done	Conducted by FAS International
HIRARC Training	Done	
Quality Manual Level 1 Preparation	Done	Prepared by HSE Executive
Quality Manual Level 1 Review	Done	Reviewed by MR (OH&S)
Procedure Level 2 Preparation	Done	
Procedures, HIRARC, Forms Review	Done	01.04.2014 – 09.04.2014
Distribution of ISO Documents	10.04.2014	
System Familiarization	2 Weeks	
Internal Audit Training	Done	Conducted by FAS International in April 2014
Internal Audit	12 & 13.06.2014	Activity carried out by trained internal auditors and reports submitted to MR.
Management Review Meeting	24.06.2014	
External Audit by Certification Body	26.05.2014	Certified by DAS Certification UK with 3 minor NCR's & 3 Observations

4.0 HSE Induction:

HSE induction for all new inductees, trainees, internees and visitors is being carried out as per the procedure. A proper record of all induction sessions is maintained.

In this quarter HSE Induction session was conducted for forty-two visitors, one trainee engineer and two workers from Italtec hired for Annual Maintenance at NBE HPP.

4.1 HSE Induction highlights in April

S. No.	HSE Induction Sessions for	No. of Personnel
1	Employees (Permanent or Temporary)	02
2	Visitors	35

4.2 HSE Induction highlights in May

S. No.	HSE Induction Sessions for	No. of Personnel
1	Employees (Permanent or Temporary)	00
2	Visitors	02

4.3 HSE Induction highlights in March

S. No.	HSE Induction Sessions for	No. of Personnel
1	Employees (Permanent or Temporary)	01 (Internee)
2	Visitors	10

5.0 Safety Management Committee (SMC)

Safety Management Committee is comprised of representatives both from staff as well as management. All SMC meetings are chaired by Plant General Manager, Chairman of SMC.

Fourth quarterly meeting of SMC was held on May 28, 2014. All important matters like ISO Certification, moving on to adopt Du-Pont system as desired by HUBCO, LEL's Parent Company, were discussed along with all other relevant HSE issues.

Mr. Jamdi Bin Mohd Noor, Head of Maintenance, attended the meeting as Management Rep. in place of Mr. Abdul Rais Abdul Hamid.

Next quarterly meeting of SMC is scheduled in second week of July 2014.

6.0 HSE Awareness Programs

6.1 Health & Safety Leaflet for Staff, Contractors and Visitors

Health and Safety Leaflet gives a brief description of necessary HSE Policies and Procedures being followed at New Bong Escape Hydroelectric Power Plant.

The leaflet is currently being used for our guests visiting the plant site and it narrates the emergency response procedure and steps to be taken during any sort of emergency like Fire etc.

6.2 Safety Tool Box Talk

Maintenance Log books along-with Toolbox Records have been developed that are being conducted by relevant Supervisor (Senior Engineer / Chargeman). These log books are being properly maintained by all the three sections, i.e. C&I, Electrical and Mechanical.

6.3 HSE Bulletin

Safety and Health Bulletins is one of OSHA's tool used to inform internal staff and the public of significant occupational health and safety issues concerning hazard recognition, evaluation, and control in the workplace and at emergency response sites.

Legislation:

- OSHA Instruction CPL 02-00-065
- OSHA 29 CFR 1926
- OHSAS 18001:2007 Best Practices

EHS Department issues monthly bulletin to all departments along with display on notice boards as well.

6.4 Health & Safety Posters

HSE department develops and communicates Job Specific and Activity relevant Notices / Posters. This is a very effective tool and promotes health and safety awareness for employees, visitors and the general public.

Health and Safety is our number one priority and we believe that 'one accident is too many' so we highlight HSE issues through good health and safety posters in designated locations.



In order to make our safety campaign more effective and for the easy understanding of most of the workers, Notices in local language (Urdu) are being prepared. This will help us in communicating our message to the ones who do not understand English.



6.5 Safety Dialogue

Safety dialogues on topics like Attitude towards HSE and Safety training, Awareness on safety relevant matters, emergency response and evacuation, hearing protection and importance of the proper use of safety gears are being carried out frequently with the staff.

7.0 Contractor HSE Compliance:

HSE team of TNBRP AJK with commitment and continuous support of the management is fully committed to develop, promote and sustain a true safety culture at New Bong Escape Hydroelectric Power Plant (NBE HPP).

During Management Safety Audits or other site inspections, if any Unsafe Condition / Unsafe Act (UA/UC's) are observed during sub-contractor's activities, necessary remedial measures are taken immediately.

Some good practices like barricading the area for hazardous activity were also observed. Supervisory staff of all these activities was appreciated for their good work and motivated to keep-up the good practices.

8.0 HSE Trainings:

8.1 External HSE Trainings

Following are the details;

8.1.1 Two Days Internal Audit Training by FAS International

<u>Activity</u>	<u>Status / Remarks</u>
Training Date	28 th & 29 th April, 2014
Training Topics	Internal Audit Training
Training Organizer	HSE Department
Trainer(s)	Ajmal Shah, Senior Trainer & Auditor, FAS
Training Participants	ISO Committee members (13)
Training Duration	16 Hours
Training Venue	NBE HPP, Mirpur AJK
Training Material	None.
Participant's Evaluation	All participants carried out Internal Audit of different departments on the second day. These reports were discussed with management and finally submitted to MR for QMS 9001.
Certification	Certificates for participants shall be provided by FAS International.

8.1.2 Training on SCBA by PETROFLO Trading Company (Supplier)

<u>Activity</u>	<u>Status / Remarks</u>
Training Date	30 th April, 2014
Training Topics	1. Safe use / storage of SCBA 2. Pre-Use Inspection 3. Donning / Doffing SCBA
Training Organizer	HSE Department
Trainer(s)	Shaikh Kamran, Shaikh Imran, PETROFLO
Training Participants	TNBRP O&M staff (03), Security Staff (02)
Training Duration	One (01) Hour

Training Venue	NBE HPP, Mirpur AJK
Training Material	None
Participant's Evaluation	Practical assessments were carried out after each training session.
Certification	None

8.1.3 Fire Safety & First Aid Training by PIFFERS Team

<u>Activity</u>	<u>Status / Remarks</u>
Training Date	21 st May, 2014
Training Topics	Fire Safety, First Aid, Use of Fire Extinguisher
Training Organizer	HSE Department
Trainer(s)	Ummat Rasool, Nabeel Yousaf, PIFFERS
Training Participants	Security Staff (23)
Training Duration	3 Hours
Training Venue	NBE HPP, Mirpur AJK
Training Material	Booklets provided to staff.
Participant's Evaluation	Practical demonstration of using Fire extinguishers.
Certification	None.

8.1.4 Training by Civil Defence & Rescue 1122, Mirpur AJK

<u>Activity</u>	<u>Status / Remarks</u>
Training Date	26 th to 30 th May, 2014
Training Topics	<ol style="list-style-type: none"> 1. Fire Safety 2. First Aid 3. Emergency Response Equipment 4. Bomb Threat Safety 5. Fire Drill
Training Organizer	HSE Department
Trainer(s)	<ol style="list-style-type: none"> 6. Raja Muhammad Ishtiaq 7. Tariq Mehmood 8. Abdul Rauf 9. Jamil Hamid
Training Participants	TNBRP O&M (09), Security Staff (07), LEL (03)

Training Venue	NBE HPP, Mirpur AJK
Training Material	None
Participant's Evaluation	Practical assessments were carried out after the training session.
Certification	Successful Participants shall be provided with certificates by Civil Defence.

8.2 In-House HSE Trainings

Following HSE Trainings were conducted for employees in this quarter;

8.2.1 Emergency Response Team (ERT) Training Sessions

	Shift B	Shift B (Mock Drill)
Training Date	6 th May 2014	7 th May 2014
Trainer(s)	Bilal Khan, HSE Manager	Bilal Khan, HSE Manager
Training Participants	ERT members (09)	ERT members (09)
Training Duration	03 hours	01 hour
Training Venue	Control Room, NBE HPP	Control Room, NBE HPP

	Shift A	Shift A (Mock Drill)
Training Date	14 th May 2014	15 th May 2014
Trainer(s)	Bilal Khan, HSE Manager	Bilal Khan, HSE Manager
Training Participants	ERT members (08)	ERT members (09)
Training Duration	03 hours	01 hour
Training Venue	Control Room, NBE HPP	Control Room, NBE HPP

8.2.2 HSE Training Sessions

Trainer	Bilal Khan, HSE Manager
Training Venue	Conference Room, NBE HPP

<u>No.</u>	<u>Training Name</u>	<u>Date</u>	<u>Participants</u>
1	Incident Reporting and	20 th	16

2	Accident Prevention	May 2014	
	Permit To Work Revised – Refresher	16 th June 2014	12
3	Full Body Harness	17 th June 2014	12
4	Hand & Portable Power Tools	17 th June 2014	12

8.2.3 HSE Awareness Sessions

Trainer	Farman Ullah, HSE Executive
Training Venue	Guest Room, NBE HPP
Training Duration	0.5 Hours Each
Training Frequency	Weekly

8.2.3.1. For ITALTEC Support Staff

<u>No.</u>	<u>Training Name</u>	<u>Date</u>	<u>Participants</u>
1	Safety Training & Our Attitude	15 th April 2014	08 / 14
2	Fire Safety Training Session 1	22 nd April 2014	09 / 14
3	Fire Safety Training Session 2	29 th April 2014	08 / 14
4	Fire Safety Training Session 3	6 th May 2014	12 / 14
5	Health and Safety Signs	14 th May 2014	13 / 14
6	Exit Routes and Signs – Session 1	20 th May 2014	14 / 14
7	Exit Routes and Signs – Session 2	27 th May, 2014	10 / 14

8	Summer Safety Campaign – Session 1	3 rd June 2014	13 / 14
9	Summer Safety Campaign – Session 2	10 th June 2014	13 / 14
10	Summer Safety Campaign – Session 3	17 th June 2014	13 / 14
11	Awareness on TNBRP AJK's HSE Policy	24 th June 2014	10 / 14

8.2.3.2. For Maintenance Staff

<u>No.</u>	<u>Training Name</u>	<u>Date</u>	<u>Participants</u>
1	HSE Induction Refresher	27 th May 2014	10 / 12
2	Attitude towards HSE and Safety Training	3 rd June 2014	08 / 12
3	Emergency Evacuation & Response Plan	11 th June 2014	06 / 12
4	Introduction to HSE	17 th June 2014	07 / 12
5	Awareness on TNBRP AJK's HSE Policy	26 th June 2014	09 / 12

9.0 HSE Audits / Inspections:

Regular HSE audit/inspection of the plant area is conducted to ensure the procedural compliances. Shortcomings observed during the audit were conveyed to the concerned.

Following inspections / audits were carried out during the last month.

- Monthly housekeeping Inspection conducted
- PPEs Compliance Survey – Italtec camp boss has provided

necessary PPEs (helmets and safety shoes) to staff from support service department working at NBE HPP. Some of the maintenance staff is yet to receive replacement for their worn-out safety shoes.

- First Aid Boxes
- Ambulance Inspection
- Monthly Fire Extinguisher Inspection.

9.1 Management HSE Walkabout

In the month of April, one HSE walkabout was conducted by a team lead by Plant General Manager on 21st April. He was accompanied by Head of Maintenance, HSE Manager and SO to PGM.

Another walkabout was conducted by a team lead by Plant General Manager on 23rd April. He was accompanied by Head of Maintenance, Senior Engineer P&P, SSCE (Shift D) and SO to PGM.

Pictorial reports of all observations during these walkabouts were prepared by SO to PGM and discussed with the staff in weekly executive meeting.

They were all requested to take necessary remedial actions as advised by PGM and revert back with the updated status through HSE department.

In last SMC meeting it was decided to develop a schedule for Management HSE Walkabout. The monthly schedule has been developed and forwarded to Plant General Manager given as under.

Management Safety Walkabout (MSW) Schedule

1st week of _____ 2014

S. No.	Names	Designation	MSW Role
1	Mohd. Azam Sulaiman	Plant General Manager	Team Lead
2	Bilal Khan	HSE Manager	Member
3	Safdar Hussain Shah	Sr. Engineer Mechanical	Member
4	Zahid	HR officer / SO to PGM	Member

2nd week of _____ 2014

S. No.	Names	Designation	MSW Role
1	Samsudin Ahmad	Head of Operations	Team Lead
2	Farman Ullah	HSE Executive	Member
3	Akbar Ali	Sr. Engineer Electrical	Member
4	Imran Ali	Chargeman Electrical (Maintenance Rep.)	Member

3rd week of _____ 2014

S. No.	Names	Designation	MSW Role
1	Syed Mujahid Ali Jafri	Head Support Services	Team Lead
2	Bilal Khan	HSE Manager	Member
3	Muhammad Iqbal	Security Manager	Member
4	Muhammad Tariq	Finance Assistant (SS Rep.)	Member

4th week of _____ 2014

S. No.	Names	Designation	MSW Role
1	Jamdi Bin Mohd. Noor	Head of Maintenance	Team Lead
2	Farman Ullah	HSE Executive	Member
3	Ghulam Waqas Shahzad	Sr. Engineer P&P (Operations Rep.)	Member
4	Arif Hussain	Chargeman C&I	Member

After approval, the schedule shall be communicated to all relevant head of departments on monthly basis and activity to be carried out accordingly.

9.2 Management Safety Audit (MSA)

Management Safety Audit by LEL management on regular basis. They are accompanied either by HSE Officer LEL or ESOHS Manager LEL during the MSA.

MSA observations are communicated to TNBRP management through an MSA Audit form. All observations are then forwarded to relevant sections for necessary action in order to close the highlighted issues.

In this quarter nine (09) MSA's were conducted by LEL management representatives with several observations. All these MSA observations have been updated by HSE TNBRP AJK. Most of the issues highlighted have been closed.

10.0 Emergency Evacuation Drills

Annual Plan for the 2nd agreement year 2014-15 has been developed and communicated with management.

<u>S. No.</u>	<u>Activity</u>	<u>Month</u>
1	Emergency Evacuation Mock Drill	April 2014
2	Emergency Evacuation Mock Drill	July 2014
3	Emergency Evacuation Mock Drill	November 2014
4	Emergency Evacuation Mock Drill	February 2015

First emergency evacuation (mock) drill was conducted on 1st April 2014, as per the schedule. LEL's representatives were invited to participate in the activity and act as observers. They were deputed at various locations to observe and report inadequacies, if any.

The activity was carried out as planned. Following is a brief description of all activities:

- Fire (virtual) observed by an employee;
- Informed CCR through a phone call;
- CCR sent JBO to the reported site for verification and assessment of situation;
- Reported back to CCR and requested evacuation;
- CCR announced emergency evacuation by PA (Public Address) System;
- All staff, except the Emergency Response Team (ERT) members, evacuated;
- ERT team lead by Shift Control Engineer gathered at CCTV Room;
- Head count at Assembly point 1 was done;
- One member from Janitorial staff was reported missing;
- Other members from different sections gathered at Assembly Point after the due time, as they were busy working and could listen to the announcement
- ERT was informed about the situation
- ERT members rushed to the location as mentioned by supervisor of Janitorial staff;

- The affected employee was found lying on the ground and rescued after necessary CPR by the Male Nurse;
- ERT members responsible for fire fighting fought the fire (virtually) and reported back to their team leader;
- ERT team gathered at the Assembly Point 1 after clearing the area;
- Head Support Services addressed the staff regarding this activity;
- All Clear signal was given by CCR;
- Staff returned back to their respective areas.

LEL team who was observing all activities mentioned above, discussed all their observations with TNBRP's management immediately after the drill. Following personnel attended the meeting:

List of Attendees

TNBRP AJK		Laraib Energy Ltd	
Samsudin Ahmad	PGM (Acting) & Head of Operations	Muhammad Abbas Shahani	Plant Manager
Abdul Rais Abdul Hamid	Head of Maintenance	Mustafa Umar Riaz	Senior Manager Operations
Syed Mujahid Ali Jafri	Head of Support Services	Sami Ullah Chaudhry	Manager Special Projects
Bilal Khan	HSE Manager	Muhammad Asif	Assistant Manager Mechanical
Farman Ullah	HSE Inspector	Farrukh Ahmad	AM ESOHS
		Muhammad Sohail	Senior Officer ESOHS
		Umair Arif	Admin & HR Officer

Minutes of meeting were prepared by HSE TNBRP, verified by Head of Operations (acting PGM) and forwarded to LEL' management. Observations were reported under the following headings:

1. Reporting of the Incident / emergency
2. Communication of the Emergency
3. Evacuation
4. Emergency Response Team (ERT)
5. Other



Staff evacuating the Power Plant Building



Staff gathered at Assembly Point



Staff who arrived late



Address by Head Support Services



Emergency Response Team (in High-Visibility vests)



Male Nurse (ERT member) with Ambulance

11.0 Third Party Inspection / Monitoring

11.1 Lifting Tools

As per the requirement of OHSMP, Lifting tools at NBE HPP were inspected and Certified by Inspectest based in Lahore. Inspectest carried out all required inspections on their site, found most of the items satisfactory and reported some items to be defective / un-satisfactory.

Rejected items have been sent for necessary rectification and shall only be accepted after third party certification by a reliable company. Response from vendor is still awaited.

No update on this matter has been received yet.

12.0 CSR Activities

Following CSR activities have completed in this quarter;

- Laraib Energy sponsored a cricket tournament and announce 30,000 PKR cash price for winner.
- Laraib Energy sponsored a volleyball tournament and announce 25,000 PKR cash price for winner.
- Laraib Celebrated world environment day on June 05, 14 with the collaboration of Environmental Protection Agency AJK.
- Laraib Donated Medical Equipment to Basic health Unit in Lehri Village. Total Cost of all equipment was more the 0.5 million PKR.
- Roof repairing and water tank Installation of Basic Health Unit.
- Laraib Energy construct a shed and install a water cooler, Fans and White board in local village school.
- Laraib Energy constructed a PCC tailrace bridge link road for community. Total cost of this project was 1 million.



World Environment Day Celebration



Bridge Link Road

Exhibit 27 – ESOHS CAP

ESOHs RECOMMENDED ACTION ITEMS/ CORRECTIVE ACTION PLAN

Source	No	Location	Finding	Reference/Date	Action Required	Target Date	Responsibility	Status	Remarks
LEL Comments	103C	Landscaping	Rain cuts and damage water trenches observed in different areas of landscaping	Inspection by LEL Feb 13,2013	ensure the good maintenance practice including repairing of rain cut, watering, trimming and repairing of water trenches.	On going Activity	Manager HSE	Close	Done by Sambu/ TNBRP
LEL Comments	2	Precurment	Some workers of TNBRP were found working without Life Jackets and Safety Harniss.	Inspection by LEL May 15,2013	Precurment of life jackets and safety harniss is mandatory.	15-Jun-13	Manager HSE	Close	-
LEL Comments	3	Outside Power House	This is observed that there is no sufficient arrangment for night shift security guards	Inspection by LEL May 16,2013	Provision of mosqioto repelent is very necessary in these wheather condition.	28-May-13	Manager HSE	Close	-
LEL Comments	4	Machine Hall	Naked wire of vaccume cleaner have plugged directly.	Inspection by LEL May 26,2013	Arrange the 2 pin shoes and the attached with vacume cleaner wire	Immediate	Manager HSE	Close	-
LEL Comments	5	Power House	Lock out /Tag out sytem are found missing	Inspection by LEL May 26,2013	Prepare a LOTO procedure and implement accordngly.	15-Jun-13	Manager HSE/Operation	Close	-
LEL Comments	6	Headrace area	A lot of trash accomulated at stoplog area.	Inspection by LEL Jun 17,2013	Clean up the entire area safely.	20-Jun-13	Manager HSE	Close	-
LEL Comments	7	Headrace area	Dead animals was floating at headrace and creating a lot bad smell.	Inspection by LEL Jun 17,2013	Arrange a crane and proper PPEs for the safe escape of dead animal from water surface of headrae.	21-Jun-13	Manager HSE	Close	-
LEL Comments	8	Overhead Crane	Oil leakage from slings of overhead canes.	Inspection by LEL Jun 17,2013	Identify the root cause and fix the issue as soon as possible.	21-Jun-13	Manager HSE	Close	-
LEL Comments	9	PPEs Non Compliance	A TNB's worker observed without safety shoes at 245 elevation.	Inspection by LEL Jun 26,2013	Arrange & provide safety shoes to him and ensure the 100 % PPEs compliance . Picture of this guy is already share with HSE department TNB	28-Jun-13	Manager HSE	Close	-
LEL Comments	10	245-Elevation	Safety railing of unit 3 found missing.	Inspection by LEL Jun 26,2013	This is an unsafe condition may leads to a major accident so portable raing is already available to secure the area. Ensure the compliance.	Immediate	Manager HSE	Close	-
LEL Comments	11	245-Elevation	Security guard is deputed at 245-elevation to check the PPEs of all contractors, sub contractors, consultants and client but during my today's survey it was observed that many employee were working at 245-elevation without PPEs.	Inspection by LEL Jun 26,2013	Keep the strict check and ensure the compliance and conduct daily inspection, surprize audits and training regading importance of PPEs and other safe work practices.	Immediate	Manager HSE	Close	-
TNBRP comments	12	Procedural Voilation	Some worker not of Andritz and Sambu observed working without PTW.	Inspection by TNB Jun 26,2013	This is a clear procrdural voilation , all contractor must be follow the company procedure and this should be implemented immedialy.	Immediate	Management	Close	Panni sb circulate an email regarding compliance of PTW procedure to all concerns.

ESOHs RECOMMENDED ACTION ITEMS/ CORRECTIVE ACTION PLAN

Source	No	Location	Finding	Reference/Date	Action Required	Target Date	Responsibility	Status	Remarks
LEL Comments	13	245-Elevation	Wire plug-in directly without using the 2 pin shoe.	Inspection by LEL July 2nd,2013	Immediately arrange a 2 pin shoe and installed before starting the activity.	Immediate	TNBRK HSE Manager	Close	-
LEL Comments	14	Intake	Stoplog gate opening of Unit 4 found without cover and railing and warning sign board also found missing at upstream stoplog area.	Inspection by LEL July 2nd,2014	Cover the open area / if any maintenance work is in-progress, block the access with scaffolding, install warning board and employee must wear life jackets and safety harness before execution of any activity.	Immediate	TNBRK HSE Manager	Close	
LEL Comments	15	Water Treatment Plant	Stagnant water observed in water treatment plant at 245-elevation.	Inspection by LEL July 2nd,2015	First of all rectify any leakage if observed in water treatment plant and then clean up the entire area.	-	TNBRK HSE Manager	Close	TR has been raised for uneven surface of water treatment floor to Sambu by TNBRP.
LEL Comments	16	LandScaping & Plantation	Landscaping and plantation of entire power house badly affected by last 2-3 days rain.	Inspection by LEL July 2nd,2016	Expedite the maintenance activity of landscaping	-	TNBRK HSE Manager	Close	
LEL Comments	17	Machine Hall	Poor housekeeping observed at 245-elevation creating the slip, trip and falling hazard.	Inspection by LEL July 2nd,2017	Clean up the entire area to avoid any undesired incident.	Immediate	TNBRK HSE Manager	Close	
TNBRP comments	18	WareHouse	The Chemicals provided by EPC Contractor without Proper Labeling (Manufacturer Name, Chemical Name,concentration) etc.	Inspection by TNB Jun 26,2013	Contractor asked to fulfill the standard requirements.	-	1-EPC Representative 2- Head of Maint. 3-Warehouse Officer	Close	A reminder will be send to EPC contractor in coming week.
TNBRP comments	19	PPEs Non Compliance	A Contractor workers observed without safety shoes at 245 elevation.	Inspection by TNBRP July 02,2013	Arrange & provide safety shoes to all the contractor staff and Contractor / TNBRP ensure the 100 % PPEs compliance .	Immediate	EPC Representative / Manager EHS	Close	
TNBRP comments	20	WareHouse	Improper storage arrangements for oils / paints etc	Inspection by TNBRP July 02,2013	All such items in the warehouse need to be stored in a proper manner as they are hazardous in nature	21-Jul-13	TNBRP	Close	
TNBRP comments	21	Plant Main Entrance (Security)	Entry Pass System for Complex	Inspection by TNBRP July 02,2013	All Companies must be followed the entry pass and issue employment cards to all their employees working at NBE HPP	Immediate	EPC/OE/TNBRP	Close	Issue is still open due unavailability of employees list of Androtz and Sambu.
LEL Comments	22	270 Elevation	Some workers observed working in unsafe manner without PTW.	Inspection by LEL July 17,2013	Stop the activity and arrange a certified crane for the execution of work.	Immediate	EPC/OE/TNBRP	Close	
LEL Comments	23	Power House	Awariness session regarding accident reporting needed to be conducted for O&M contractor.	Inspection by LEL Aug 08,2013	A full training session needed to be conducted by LeL with the coordination of TNB HSE deptt.	31-Aug-13	Officer ESOHS LEL/Manager EHS TNB	Close	

ESOHs RECOMMENDED ACTION ITEMS/ CORRECTIVE ACTION PLAN

Source	No	Location	Finding	Reference/Date	Action Required	Target Date	Responsibility	Status	Remarks
LEL Comments	24	Power House	Scaffolding erected by sambu near transformer dyke is not safe for working.	Inspection by LEL Aug 08,2013	Complete scaffolding inspection needed to be carried out by a competent person and after rectification of all discrepancies employees allow to use otherwise it may cause an accident.	31-Aug-13	TNBRK HSE Manager	Close	
LEL Comments	25	NBE Gates	Local people are fishing near NBE gates which are on high risk.	Inspection by LEL Aug 08,2013	TNB security should stopped the all local to enter in the identified. Because section 144 are still applicable. CLO meet with SDM and discuss the matters and solve it ASAP.	Immediate	Manager Security/ CLO	Close	
LEL Comments	26	Power House	Construction worker was observed working at height without coupling the harness with scaffolding pipe .	Inspection by LEL Aug 17,2013	conduct a tool box talk on safe working at heaight and keep strickt check on all activities of power house.	31-Aug-13	TNBR HSE Manager	Close	
LEL Comments	27	Power House	Hight of Emergency light hanger at diffrent elevation is not suitable and have the potential to cause serious injury.	Inspection by LEL Aug 22,2013	Fix all hangers above six feet height	31-Aug-13	TNBRP HSE Manager	Close	
LEL Comments	28	Landscaping	Landscaping & plantation of power are not maintaining properly.	Inspection by LEL Aug 28,2013	Entire landscaping needs proper trimming immediatly.	Onging Process	TNBRP HSE Manager	in-progress	-
LEL Comments	29	Elevation 245 (Machine Hall)	Termination cables of Diesel generator was found without cover.Theseare high voltage cables which could be dagrous when diesel generator was operational.	Inspection by LEL Sep 08,2013	Cover with (Rubber) terminal insulator. Or communicate with maitenance department taking the proper remedial measure.	10-Oct-13	TNBR HSE Manager	Close	
LEL Comments	30	Elevation 245 (Machine Hall)	A lot of waste observed at unit 2 and unit three.	Inspection by LEL Sep 09,2013	Communicate to concernd department and cleaning and house keeping of this area	16-Sep-13	TNBR HSE Manager	Close	
LEL Comments	31	Headrace area	Some gardner are working without gloves and safety shoes	Inspection by LEL Sep 10,2013	Provide gloves and safety shoes to avoid the bio hazards.	12-Sep-13	TNBR HSE Manager	Close	
LEL Comments	32	Procedure	Some comments in risk assessment procedure is highlightd and communicated to TNB.	Inspection by LEL Sep 16,2013	Address all comments and submitt the final procedure.	24-Sep-13	TNBR HSE Manager	Close	
LEL Comments	33	Firefighting Equipment	Inspection tags found missing on portable fire extinguisher	Inspection by LEL Sep 23,2013	Prepare, inspection tags for all extinguisher and inspect frequently	15/10/2013 10/11/2013	Medium	Close	PO has been issued
LEL Comments	34	Elevation 227	Open main hole obseved without barication.	Inspection by LEL Sep 23,2013	Baricade if working on it and cover if no work remaining.	08-Oct-13	Medium	Close	This activity has been included in risk reduction project , which will be initiated on 01 Nov, 2013.

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Source	No	Location	Finding	Reference/Date	Action Required	Target Date	Responsibility	Status	Remarks
LEL Comments	35	Power House	Tagging is found missing at Machine hall and 251 El. Of power house.	Inspection by LEL Sep 28,2013	Tag the entire power house for the identification of area and equipment.	15-Oct-13	TNBR HSE Manager	Close	
LEL Comments	36	Power House	Noise test is pending since long time.	Inspection by LEL Sep 28,2013	Conduct 3rd party noise tecting and prepare a map on the basis of results	15-Oct-13	TNBR HSE Manager	Close	-
LEL Comments	37	Power House	Noise level poster/Tags of each elevation is not available on notice board.	Inspection by LEL Oct 22,2013	Prepare a Noise Map for each section of Power House and proposed PPEs will also mention in that map.	15-Nov-13	HSE Officer LEL, TNBRP HSE Manager	Close	-
LEL Comments	38	-	Comment of MM on ESMP and OHSMP is still pending.	Inspection by LEL Oct 24,2013	Address these comment ASAP for apporoval of plans.	01-Nov-13	TNBRP HSE Manager, HSE Officer LEL	Close	-
LEL Comments	39	-	It was observed that Evacuation Plans of each elevation was not available.	Inspection by LEL Oct 27,2013	This is very necessary that peoples has to be aware about evacuation in any emergency situation. Prepare a plan and fix on suitable location of power house.	20/11/2013, 13/12/2013	TNBR PHSE Manager.	Close	-
LEL Comments	40	-	Risk Assessment of power house is still pending.	Inspection by LEL Oct 27,2013	Start the risk assessment accoding to the submitted procedure.	20/11/2013, 13/12/2013	TNBRP HSE Manager.	Close	-
LEL Comments	41	-	It was observed that HSE statistics received on Oct 30 was report on previous catagorization, only summy was changed.	Inspection by LEL Oct 30,2013	study the OSHA Clause 1904.7 for incident recording and change the definitions in exiting formate and report accordingly.	05-Nov-13	TNBRP HSE Manager.	Closed	Summary of incident reporting was OK as described in OSHA.
LEL Comments	42	Elevation 251, 245	Tripping Hazard due to joint repairing methodology on the floor of 245 and 251 elevation.	Inspection by LEL Nov04,2013	Fluorescent Paint should applied for warning of tripping Hazard.	10/12/2013 10/01/2014	TNBRP HSE Manager.	Close	-
LEL Comments	43	Power House	Tagging is found missing on emergency calling booths, main breakers and eye & head wash shower.	Inspection by LEL Nov04,2013	Tagging and posters plays a vital to improve the awarness level among employees so all identified location needed to be tagged.	27/11/2013	TNBRP HSE Manager.	Close	-
LEL Comments	44	227-Elevation	Passage way obseved block which could be very severe in emergency situation	Inspection by LEL Nov04,2013	All scaffolding pipes, planks and joints which cause blokage of passage way needed to remove.	27/11/2013	TNBRP HSE Manager.	Close	-
LEL Comments	45	Power House	Poor Housekeeping observed in water treatment plant and workshop.	Inspection by LEL Nov11,2013	Entire area needed to be clean and Clear.	27/11/2013	TNBRP HSE Manager.	Close	
LEL Comments	46	Overhead Crane Entry Point	Open electrical box of emergency light with naked wires was observed.	Inspection by LEL Nov11,2013	elecrical box should be closed or isolate if some work needed to be done.	26/11/2013	TNBRP HSE Manager.	Close	
LEL Comments	47	245-Elevation	HVAC duct Safety cover found missing in air compressor area.	Inspection by LEL Nov19,2013	Fabricate and install safety cover on identified location.	10/12/2013	TNBRP HSE Manager.	Close	Risk Reduction project has been temporary stoped due to Annual
LEL Comments	48	Work Shop	Some Gardners were observed without PPEs in work shop area	Inspection by LEL Nov22,2013	Entry should be restricted in workshop, only relevant employees allow to enter the workshop.	27/11/2013	TNBRP HSE Manager.	Close	

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Source	No	Location	Finding	Reference/Date	Action Required	Target Date	Responsibility	Status	Remarks
LEL Comments	49	Plant Elevator	No tag has been found inside the elevator which guide in emergency situations	Inspection by LEL Nov22,2013	Guidance poster/Tag needed to be paste in side elevator which properly guide the user.	15/12/2013	TNBRP HSE Manager.	Close	
LEL Comments	50	NBE Gates	Life Jacket Tags found missing at NBE gates.	Inspection by LEL Dec 01, 2013	Life jacket Tag should be pasted on avery gate for the awareness of staff.	15/12/2013	TNBRP HSE Manager.	Close	
LEL Comments	51	Transformer Deck	A proper cover was not placed on Transformer oil drainage tank.	Inspection by LEL Dec 12, 2013	Proper cemented/metallic cover needed to cover the tank	22/12/2013	TNBRP HSE Manager.	Close	
LEL Comments	52	Transformer Deck	Cable Trench found open in transformer deck.	Inspection by LEL Dec 17, 2013	All trenched sould be cover with suitable covers.	22/12/2014	TNBRP HSE Manager.	Close	
LEL Comments	53	Parking Area	A trench covers with wooden piece near parking area which is a tripping hazard.	Inspection by Ceo LEL Jan15,2014	It should be properly covered with a cemented blocks.	01/03/2013	TNBRP HSE Manager.	Close	
LEL Comments	54	Work Shop Store	Metal scrape was dumped in very poor manner near parking area with gardener's routine used equipment.	Inspection by Ceo LEL Jan15,2014	Specific area should be designated for the scrape which should be separated from all routine work areas.	01/03/2014	TNBRP HSE Manager.	Close	
LEL Comments	55	CCTV Room 255-Elevation	CCTV Camera No. 24 found out of order and display screen is very small.	Inspection by Ceo LEL Jan15,2014	Camera has to installed according to drawing and small screen should be replace with large one	-	TNBRP HSE Manager.	Close	24th No is a spare CCTV Camera connection, rest are OK.
LEL Comments	56	Electrical Room 1	Portable fire extinguisher inspection tags found blank.	Inspection by Ceo LEL Jan15,2014	All inspection tags should be up to date according to inspection frequency.	16/01/2014	TNBRP HSE Manager.	Close	
LEL Comments	57	Elevation 245 (Machine Hall)	Oil spill observed on the floor of 245-elevation which is slipping hazard.	Inspection by Ceo LEL Jan15,2014	Floor should be clean and dry.	16/01/2014	TNBRP HSE Manager.	Close	
LEL Comments	58	Elevation 245 (Machine Hall)	Trench cover has found on floor which is tripping hazard.	Inspection by Ceo LEL Jan15,2014	During maintenance work area should be barricaded.	16/01/2014	TNBRP HSE Manager.	Close	
LEL Comments	59	Elevation 245 (Machine Hall)	A laborer was performing cleaning of metal with oil without wearing the gloves.	Inspection by Ceo LEL Jan15,2014	Rubber gloves should be used which working with oil / chemicals.	16/01/2014	TNBRP HSE Manager.	Close	
LEL Comments	60	Elevation 245 (Machine Hall)	Loose portable railing observed at unit one 245-elevation.	Inspection by CEO LEL Jan15,2014	A warning tag and tape should display at location.Raise TR for the rectification of issue.	-	TNBRP HSE Manager.	Open	TR has been raised .
LEL Comments	61	Elevation 245 (Machine Hall)	Portable railing chain of Unit 1 (bulb nose hatch cover) was not properly installed and has a potential of serious injury (tripping and falling hazard).	Inspection by Ceo LEL Jan15,2014	Acess way which used for monkey ladder accesss should clear and chain needed to be remove from access way.	16/01/2014	TNBRP HSE Manager.	Close	
LEL Comments	62	227-Elevation	Some emergency lights found out of order, it could very dangerous in emergency situation.	Inspection by Ceo LEL Jan15,2014	A thorough inspection of all emergency lights should be carried out during the annual turn around.	16/02/2014	TNBRP HSE Manager.	Close	Rectification work is in progress
LEL Comments	63	227-Elevation	Slippery stairs and floor of 227-Elevation.	Inspection by Ceo LEL Jan15,2014	Floor should be clean and dry.	-	TNBRP HSE Manager.	Close	This point will be close after annual maintenance.

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Source	No	Location	Finding	Reference/Date	Action Required	Target Date	Responsibility	Status	Remarks
LEL Comments	64	227-Elevation	Oil pump motor covers with plastic sheet.	Inspection by Ceo LEL Jan15,2014	A proper shed has to fabricate to avoid the seepage water.	16/02/2014	TNBRP HSE Manager.	Close	A fiber cover has already fabricated which is removed temporarily due to annual turn around
LEL Comments	65	227-Elevation	Drainage waterarea Lights at 227-elevation observed out of order and No alternative arrangement is available.	Inspection by Ceo LEL Jan15,2014	TR Needed to be raised	-	TNBRP HSE Manager.	Close	TR has been raised
LEL Comments	66	Control Room	Loose wiring used in control with SCADA system.	Inspection by Ceo LEL	All loose wiring needed to be channelize properly through a duct.	-	TNBRP HSE Manager.	Close	-
LEL Comments	67	Transformer Deck	Rusty scaffolding used to barricade the transformer area.	Inspection by Ceo LEL Jan15,2014	Scaffolding should be painted.	28/02/2014	TNBRP HSE Manager.	Close	-
LEL Comments	68	Intake Stop log area	Electric cable lying on ground at intake stop log area which is a tripping hazard.	Inspection by Ceo LEL Jan15,2014	Cable should be passing through the underground.	-	TNBRP HSE Manager.	Open	TR raised
LEL Comments	69	227-Elevation	Rusty door observed at 227-elevation,	Inspection by Ceo LEL Jan15,2014	it should be painted in annual turn around.	28/02/2014	TNBRP HSE Manager.	Close	-
LEL Comments	70	Elevation 245 (Machine Hall)	Tea containers placed on electric cable tray near entrance door to stairs for Elevation 227 where No tray to collect dripping tea.	Inspection by LEL Jan29,2014	Tea container valve (tap) needed to rectify and area should be clean.	28/02/2014	Business Support Services	Close	-
LEL Comments	71	Elevation 245 (Machine Hall)	Warning sign found missing on all doors accessing to the cable shaft which is falling hazard and have a potential of fatality	Inspection by LEL Jan29,2014	All doors which are not used in routine should be locked. And warning sign should be pasted on all doors accessing the cable shaft	28/02/2014	HSE Dept.	Close	-
LEL Comments	72	Elevation 245 (Machine Hall)	Telephone connection boxes found open and improper cables observed.	Inspection by LEL Jan29,2014	All wiring should be properly dressed and cover closed.	28/02/2014	Maintenance (C & I)	Close	-
LEL Comments	73	Elevation 245 (Machine Hall)	Waste material observed behind newly installed 11 kV colony power supply feed	Inspection by LEL Jan29,2014	Area should be cleaned	28/02/2014	Business Support Services	Close	-
LEL Comments	74	Elevation 245 (Machine Hall)	750 kVA DG radiator's water overflow pipe direction on floor which may cause slippery hazard when overflow.	Inspection by LEL Jan29,2014	Plastic contained be placed under the overflow pipe.	28/02/2014	Operation Dept.	Close	-
LEL Comments	75	Elevation 241	Sewerage tank overflow on El. 241 causing bad smell in stair case and adjoining floor.	Inspection by LEL Jan29,2014	TR should be raised and matter needed to resolve on urgent basis.	28/02/2014	Maintenance (C & I)	Close	-
LEL Comments	76	Elevation 255	"No smoking" signboard found missing inside visitor room of Power Complex.	Inspection by LEL Feb 03,2014	No Smoking board should be pasted on wall.	15/02/2014	TNBRP HSE Manager.	Close	-
LEL Comments	77	Elevation 255	Area segregation signboard inside the workshop is found missing for essential requirement of PPEs.	Inspection by LEL Feb 03,2014	Poster should be pasted for the clarity of red and green zone.	02/03/2014	TNBRP HSE Manager.	Close	-

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Source	No	Location	Finding	Reference/Date	Action Required	Target Date	Responsibility	Status	Remarks
LEL Comments	78	Power House	Warning sign found missing on all doors accessing to the cable shaft which falling hazard and have a potential of fatality.	Inspection by LEL Feb 03,2014	All doors which are not used in routine should be locked and warning sign should be pasted on all doors and panels.	02/03/2014	TNBRP HSE Manager.	Close	-
LEL Comments	79	Elevation 255	Portable fire extinguisher at El. 255 is not inspected and duly filled inspection card.	Inspection by LEL Feb 03,2014	All extinguishers should be inspected on regular interval as defined in procedure.	02/03/2014	TNBRP HSE Manager.	Close	-
LEL Comments	80	Elevation 245 (Machine Hall)	Safety hand railing at EL. 245 is found loose which has potential of fatality during the maintenance activities.	Inspection by LEL Feb 03,2014	Proper arrangement be made for properly fixing the safety railing.	02/03/2014	TNBRP HSE Manager.	Close	-
LEL Comments	81	Elevation 245 (Machine Hall)	Signboard for Emergency exit /evacuation plan found missing on each notice boards at each Elevations.	Inspection by LEL Feb 03,2014	Evacuation plan for each elevation have already prepared and should be displayed on each elevation.	02/03/2014	TNBRP HSE Manager.	Close	-
LEL Comments	82	Elevation 265, 270	Warning signs on doors accessing to cable shaft as highlighted earlier by other team members are still missing at both elevations.	Inspection by LEL Feb 12,2014	All doors which are not used in routine should be locked and warning sign should be pasted on all doors and panels.	02/03/2014	TNBRP HSE Manager.	Close	-
LEL Comments	83	Elevation 265, 270	Safety Cover on Starting Switch to operate fire shutter in case of emergency is found missing at El 265.	Inspection by LEL Feb 12,2014	Requisite arrangement to avoid mishandling is required to be provided at the earliest	02/03/2014	TNBRP HSE Manager.	Close	-
LEL Comments	84	Elevation 265, 270	Special arrangements at emergency exit access ladder at El 265 may be provided to avoid falling hazard.	Inspection by LEL Feb 12,2014	Requires discussion and implementation, if required by considering all safety parameters	02/03/2014	TNBRP HSE Manager.	Close	-
LEL Comments	85	Elevation 265, 270	Pressure Gauge of portable fire extinguisher at El 265 is showing pressure near to the alarming level.	Inspection by LEL Feb 12,2014	Monitoring is required on regular basis to fulfill the requisite purpose.	02/03/2014	TNBRP HSE Manager.	Close	-
LEL Comments	86	Elevation 265, 270	Hard Copies of As Built Drawings and O&M Manuals are placed near 400V Electrical Panels inside Fire Fighting Room at El 265 which can become source of fire in case of short circuiting.	Inspection by LEL Feb 12,2014	Immediate action is required to store the data in an appropriate manner to avoid any mishap.	02/03/2014	TNBRP HSE Manager.	Close	-
LEL Comments	87	Elevation 265, 270	Inspection of Portable Fire Extinguisher inside Telecom Room at El 265 is not carried out.	Inspection by LEL Feb 12,2014	Monitoring of firefighting equipment should be implemented as per preventive maintenance schedule.	02/03/2014	TNBRP HSE Manager.	Close	-
LEL Comments	88	Elevation 265, 270	Maintenance of PABX is carried out but unnecessary material is left inside the Panel.	Inspection by LEL Feb 12,2014	Compliance of standards to clear the area after completion of work is required to be implemented at all times.	02/03/2014	TNBRP HSE Manager.	Close	-

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LEL Comments	89	Elevation 265, 270	Violation of smoking policy was observed at El 270, as unnecessary stuff was spread all over the place even below the Water Tank.	Inspection by LEL Feb 12,2014	Relevant section to monitor and ensure implementation of policy.	02/03/2014	TNBRP HSE Manager.	Close	-
LEL Comments	90	Elevation 265, 270	Both Inlet and Outlet valves of Water Tank were found unlocked.	Inspection by LEL Feb 12,2014	These must be kept locked to avoid any mishandling.	02/03/2014	TNBRP HSE Manager.	Close	-
LEL Comments	91	Elevation 255	It was observed that electric wires lying in passage way which has potential of tripping.	Inspection by LEL Apr 04,2014	All electric wires remove from passage way to avoid any mishap and work in progress sign should be displayed.	08/04/2014	TNBRP HSE Manager.	Close	-
LEL Comments	92	Elevation 255	EL255 Area near parking area is being used as scrap yard without Indication of scrap area.	Inspection by LEL Apr 04,2014	A specific area has to designate as scrap yard with sign board and scrap should be segregated in proper manner.	08/04/2014	TNBRP HSE Manager.	Close	-
LEL Comments	93	Elevation 255	An electric board slot on wall observed open in visitor room which decreases the beauty of guest room.	Inspection by LEL Apr 04,2014	It should be closed with proper cover.	08/04/2014	TNBRP HSE Manager.	Close	-
LEL Comments	94	Elevation 255	Washroom housekeeping was not good.	Inspection by LEL Apr 04,2014	It needs to be improved.	08/04/2014	TNBRP HSE Manager.	Close	-
LEL Comments	95	Elevation 227	Usage of electrical equipment without ELCBs are not allowed.	Inspection by LEL May 06,2014	Procure ELCB immediately to avoid any delay in your maintenance activities.	10/05/2014	TNBRP HSE Manager.	Close	-
LEL Comments	96	Elevation 227	Pressure gauges found missing on cylinders.	Inspection by LEL May 06,2014	Ensure all gas cylinders to be install with gauges	10/05/2014	TNBRP HSE Manager.	Close	-
LEL Comments	97	Elevation 227	Scaffolding installed at elevation 227. Which have found substandard.	Inspection by LEL May 06,2014	It is recommended to dismantle the scaffolding	10/05/2014	TNBRP HSE Manager.	Close	-
LEL Comments	98	Elevation 227	Housekeeping found unsatisfactory.	Inspection by LEL May 06,2014	Housekeeping during and after completion of works has to be improved further by all sections	10/05/2014	TNBRP HSE Manager.	Close	-
LEL Comments	99	Elevation 227	Operation department involvement in improving the housekeeping standard.	Inspection by LEL May 06,2014	Operation department must ensure all housekeeping works has been done before cancellation of PTW.	10/05/2014	TNBRP HSE Manager.	Close	-
LEL Comments	100	Elevation 241	Washroom cleaning material observed in a passage which was posing a bad image of housekeeping	Inspection by LEL May 07,2014	Cleaning material and chemical should be placed in designated area.	21/05/2014	TNBRP HSE Manager.	Close	-
LEL Comments	101	Elevation 241	Inappropriate location of Fire extinguisher near Fire water tank make-up pumps in water treatment plant.	Inspection by LEL May 07,2014	Extinguisher needed to relocate at appropriate location.	21/05/2014	TNBRP HSE Manager.	Close	-
LEL Comments	102	Elevation 241	Improper earthing with discharge line of fire water make up pump flow meter.	Inspection by LEL May 07,2014	This installation is as per the approved design by OE.	21/05/2014	TNBRP HSE Manager.	Close	-
LEL Comments	103	Elevation 241	Open switch board in electrical room 2 which have a potential of electrocution.	Inspection by LEL May 07,2014	A complete survey would be conducted to identify all open switch boards and rectify with suitable cover.	21/05/2014	TNBRP HSE Manager.	Close	-

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LEL Comments	104	Elevation 241	Old Box files were observed on the floor of electrical room No. 3.	Inspection by LEL May 07,2014	Remove all old files from identified location and area should be clean.	21/05/2014	TNBRP HSE Manager.	Close	-
LEL Comments	105	Elevation 241	Wiring for the installation of antenna of wireless communication system is not done properly.	Inspection by LEL May 07,2014	All wires should be channelized through a conduit.	21/05/2014	TNBRP HSE Manager.	Close	-
LEL Comments	106	Elevation 241	Corrosion found on pipe with first step of stair at 241 elevations.	Inspection by LEL May 07,2014	Pipe should be painted to avoid corrosion	21/05/2014	TNBRP HSE Manager.	Close	-