

# Environmental Monitoring Report

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# Semiannual Report  
April 2016

## IND: SASEC Road Connectivity Investment Program — Tranche 1

Prepared by the Project Implementation Unit, Public Works Department, Government of West Bengal for the Government of India and the Asian Development Bank.

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## **CURRENCY EQUIVALENTS**

(As of 26 March 2015)

Currency unit – Indian rupee (INR)

INR 1.00 = USD 0.01591

USD 1.00 = INR 62.84

## **ABBREVIATIONS**

AADT	Annual Average Daily Traffic
AAQM	Ambient Air Quality Monitoring
ADB	Asian Development Bank
AH	Asian Highway
ASI	Archaeological Survey Of India
BGL	Below Ground Level
BOQ	Bill of Quantity
CPCB	Central Pollution Control Board
DFO	Divisional Forest Officer
DPR	Detailed Project Report
EA	Executing Agency
EHS	Environment Health and Safety
EIA	Environmental Impact Assessment
EMOP	Environmental Monitoring Plan
EMP	Environmental Management Plan
GOI	Government of India
LHS	Left Hand Side
LPG	Liquefied Petroleum Gas
MOEF	Ministry of Environment and Forests
MORTH	Ministry of Road Transport and Highways
NGO	Non-Governmental Organization
NH / SH	National Highway / State Highway
NOC	No Objection Certificate
NBWL	National Board for Wildlife
PIU	Project Implementation Unit
PPE	Personal Protective Equipment
PUC	Pollution Under Control
PWD	Public Works Department
R & R	Rehabilitation and Resettlement
RCC	Reinforced Cement Concrete
RHS	Right Hand Side
ROB	Road Over Bridge
ROW	Right Of Way
SAARC	South Asian Association for Regional Corporation
SEIAA	State Environmental Impact Assessment Authority
WBSPCB	West Bengal State Pollution Control Board

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## 1 Introduction

The SASEC Road Connectivity Investment Program (SRCIP) will improve road connectivity and efficiency of the international trade corridor, by expanding about 500km of roads in the North Bengal and North Eastern Region (NB-NER) of India. The project area under SRCIP is a key strategic thoroughfare integrating the regions of South and South East Asia, and bordering the countries of Bangladesh, Bhutan, Myanmar, and Nepal. Improvements in road connectivity in NB-NER will enable efficient and safe transport within India and regionally with other South Asia Subregional Economic Cooperation (SASEC) member countries. Ultimately, SRCIP will pave the way from India and other South Asian countries to Myanmar, and further afield to link with the member countries of the Association of South East Asian Nations (ASEAN).

### 1.1 Project Objectives

The SRCIP will cover both national highways and state roads. The upgrading will be mainly 2-laning with paved shoulders, together with safety features including construction of flyovers at busy junctions and bypasses for smooth thorough traffic. Some sections will widen to 4 lanes to serve future traffic. Performance-based maintenance will be undertaken for 5 years after the construction. The authority's engineer were engaged for EPC contracts and at the contract level. In addition, the implementation support consultant (ISC) is engaged to support EAs including (i) external monitoring of safeguard implementation, (ii) third-party maintenance quality, (iii) road safety audit, (iii) financial management and (iv) subsequent PFRs submission to ADB.

### 1.2 Project Description

The Government of the India has applied for financial assistance from the Asian Development Bank (ADB) towards the cost of SRCIP which is a multi-tranche financing facility (MFF). The first tranche of the SRCIP covers two packages: Asian Highway No. 02 from Panitanki to Banglabandha (about 37km) and Asian Highway No. 48 from Changrabandha to Pasaka (about 91 km).

In Asian Highway No. 02 project corridor, the first 1.2 Km of the road from Kakarbitta in Nepal border is a state highway and then the project road joins NH31 C at Panitanki and takes north-east direction to reach Naxalbari and proceeds in mostly easterly direction to reach the junction with NH 31 at Bagdogra. This section from Panitanki to Bagdogra is NH31C and has a 2 lane carriageway. Periodic maintenance including adding paved shoulder in NH31C (Km 16 to Km 32.75 of NH31C in Panitanki – Bagdogra section) have been taken up recently and is nearly completed. The project road continues on NH 31/31C up to Shivmandir More and then project road turns in a southeast direction along the PWD road taking the Shivmandir More – Medical More – Naukhaghat – Teenbhatti More – Fulbari Junction to reach the Bangladesh border. The exiting surfacing is a black topped 2 lane road up to Fulbari Junction. The last section of Fulbari Junction to Bangladesh border, about 2 km is concrete road. Fulbari is connected through rail from New Jalpaiguri Station.

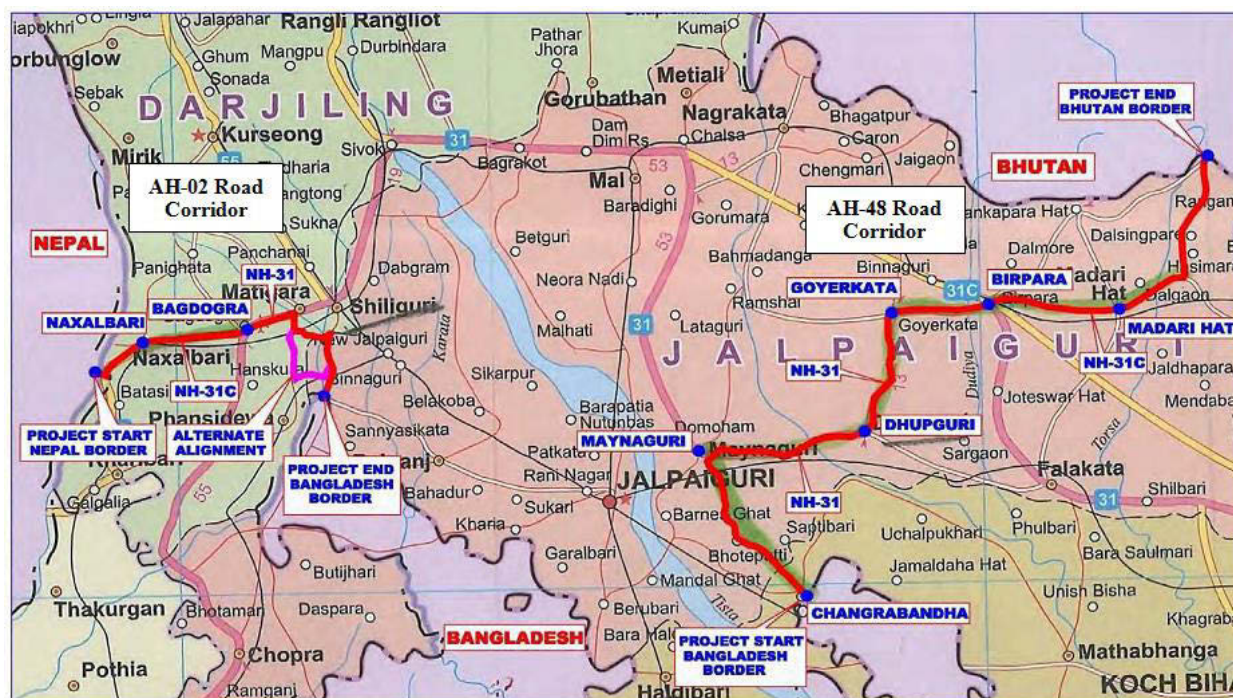


Figure 1-1: Project Location Map

The Asian Highway No. 48 project corridor, road starts from Bhutan Border at Phuentsholing and ends at Bangladesh border at Changrabandha comprising of the Phuentsholing – Jaigaon – Hasimara – Dhupguri – Mainaguri – Changrabandha – Burimari (about 91 km) with a proposed Pasaka access road, including one LCS along the Pasaka access road is situated in the State of West Bengal in the North Eastern Part of India.

Table 1-1: Sub – Projects and Their Characteristics

Sl. No.	Name of Road	Road Length (km)	Env. Category	Contractor's name	Date of Start/Date of Completion
1	AH-02, Panitanki – Banglabandha	37.271	A	Dineshchandra R. AgrawalInfraconPvt. Ltd.,	28/5/2015 for 30 months, 23 <sup>rd</sup> November 2017
2	AH-48, Phuentsholing (Bhutan) ends at Bangladesh border at Changrabandha	90.56	A	Punjj Lloyd India Ltd.,	

Various improvements to the project roads and structures that need to be built in the project are indicated in the **Table 1-2**.

Table 1-2: Project Components

Sl. No.	Description	Unit	AH-02	AH48
1.	Widening to 2 - Lane	Km	24.80	90.586
2.	Widening to 4 Lane	Km.	12.4	-

Sl. No.	Description	Unit	AH-02	AH48
4.	Realignment	Km.	1.07	-
5.	Bypass	Km.	1.25	10.458
6.	Service Road	Km	5.260	-
7.	Grade Separator	No.	2	-
8.	Major Bridge Repaired and Strengthening/New	Km	2/3	8/0
9.	Minor Bridge Repaired, Rehabilitation, widening/ Reconstruction /New	Km	0/4/0	21/2/1
10.	Flyover	No.	2	1
11.	Cattle and Pedestrian Underpass / VUP	No.	2	4/1
12.	Elephant Underpass.	No.	-	3
13.	ROB	No.	4	1
14.	Gabion Wall	Km.	-	1.754
15.	Toe Wall	Km.	1.005	0.740
16.	Retaining Wall Location.	Km.	0.100	4.250
17.	Reinforced Earth Wall	Km.	4.320	-
18.	Widening of Slab Culvert / Pipe Culvert	No	18/2	35/0
19.	Pipe Culvert Reconstruction / New Construction.	No.	-	1/1
20.	Box Culvert Reconstruction / New Construction.	No.	8/39	18/112
21.	Major Intersection	No.	10	10
22.	Minor Intersection	No.	24	77
23.	Road Side Drain	Km.	2*19.312	2*15.245
24.	Bus bays	No.	23	45
25.	Truck Lay Bys	No.	1	8

### 1.3 Scope of the Report

This is the first semi-annual environmental monitoring report for the SRCIP Tranche-1 project. It presents the environmental due diligence from July 2015 to Dec 2015 as per the requirements of the ADB. While the Tranche-1 covers 500 km of roads, this report pertains to the two roads of AH-02 and AH-48 in West Bengal. The report presents a review of the actions taken by various stakeholders in the project for compliance with the ADB environmental safeguard requirements and further states the actions that would be taken in the due course of the project.

## 2 Project Progress

The project loan is signed in March 2015 and the EPC contractors are appointed in May 2015. The two EPC contractors one for each road i.e., AH-02 and AH-48 are fully mobilized. In both the packages pre-construction activities of setting up of construction camps, tree cutting by forest department, design review etc., have been completed. The construction works are in progress at present. The details of current progress of works is presented in Table 2-1

Table 2-1: Progress of Work Upto December 2015

Sl. No.	Description	AH-02	AH-48	Remarks
		Status		
<b>Financial progress</b>				
	Mobilization Advance	1 <sup>st</sup> Instalment 2% of Contact sum Rs-8,54,50,518 2 <sup>nd</sup> Instalment 3% of Contract sum Rs-12,81,75,777	1 <sup>st</sup> Instalment 2% of Contact sum Rs-13,32,00,000 2 <sup>nd</sup> Instalment 3% of Contract sum Rs-19,98,00,000	
	Stage Payment		1 <sup>st</sup> Stage Payment – Rs 10,37,63,666.00 recommended by A.E.	
<b>A Pre construction Activities</b>				
1	Tree Cutting	Total trees to be cut-3412, Trees Felldown-3402, Total stretch has been cleared except few isolated trees near structures, remaining trees cutting are under progress.	Trees have been almost cut throughout the stretch	
2	Electric Pole	New EP erected between: Km 06+000-17+000, 18+000-24+000, 25+000-28+000, 30+000-31+000 & 33+000-37+000 (16 Km Service Line Charged) and in progress between Km 17+00-18+00, 24+00-25+000, 28+000-30+00 & 31+000-33+000 11 KVA line changed of about 12 Km	New EP are being erected between: Km 0+000-20+000 & 36+100 – 75+000), works progress are slow.	In AH-02 Shifting is being delayed by existing settlement on roadside land.
3	Water Pipe Line	Work is in progress between Km 3+000-17+000 & Km 17+500 - 22+00 Works substantially done in Darjeeling District. Under Jalpaiguri (Km 29+000 to 37+270) works are not started due to encroachment.		In AH-02 Shifting is being delayed by existing settlement on roadside land
	Applicable Insurances	Submitted by contractor as per provision of contract on dated-02-11-2015		
	<b>Applicable Permits</b>			
	Permission of state Government for Boulder extraction from quarry	Obtained for third party	In Process	
	Permission of village panchayat and PCB for Installation of crushers	Obtained for third party	NOC obtained from village Panchayat CTE obtained from PCB	
	License to use explosives	Applied	NA	
	Permission of state government for drawing water		NOC for bore well has been obtained from village panchayat, No	



Sl. No.	Description	AH-02	AH-48	Remarks
		Status		
			need for reservoirs.	
	License from inspector of factories / other competent executing agency for setting up batching plant	Permission obtained from PCB.	Permission obtained from PCB.	
	Clearance from PCB for setting up batching plant	NOC obtained from PCB	CTE obtained from PCB	
	Clearance of village panchayat and PCB from for setting up asphalt plant	NOC obtained from village Panchayat CTE obtained from PCB, CTO Applied	NOC obtained from village Panchayat CTE obtained from PCB	
	Permission of village panchayat and state Government for borrow earth	In Process	In process- required documents as per the guidelines of Ministry of Environment and Forest are not Submitted.	
4	R&R			
5	Affected Structure (excluding common property)	Disbursement of payment to DP's 2639 nos. Amounting to Rs-3169.57 Lacs in Darjeeling Districts - ( Km 0+00 -28+950) are completed & Disbursement of payment to DP's 1288 nos. Amounting to Rs-1535.31 Lacs under Jalpaiguri District (km (28+950 - 37+270) are in progress Disbursement of 74DP's added due to design requirement at Matigara block is in progress	Coochbehar Districts -107 nos., Jalpaiguri District-910 nos. & Alipurduar District-542 nos. Total-2469 nos.,	
6	Affected Structure (common property)	Darjeeling Districts -88nos.(Km 0+00 -28+950) & Jalpaiguri District-22 nos. (km (28+950-37+270) Total-110 nos.	Coochbehar Districts, Jalpaiguri District & Alipurduar District Total-140 nos.	
7	Amount Details			
8	Total Entitle Amount (R&R)	Darjeeling Districts –Rs 3235.11 lac & Jalpaiguri District- Rs1535.31 lac-Total-Rs. 4770.42 lac	Coochbehar Districts–Rs 82.70 lac & Jalpaiguri District-Rs 897.94 lac & Alipurduar District - Rs 515.48 lac Total-Rs. 1495.60 lac	In AH-02, Fund Placed with DM Darjeeling Rs.3169.57 lac ,out of which Rs.3169 lac disbursed to entitled 2639 nos. of PAPs and Fund Placed with DM Jalpaiguri Rs.1535.31lac for 1228 nos. of PAPs. In AH-48, Fund Placed with DM Coochbehar Rs.82.70lac (Disbursed), with DM Jalpaiguri Rs.897.94 lac (Disbursed) & with

Sl. No.	Description	AH-02	AH-48	Remarks
		Status		
				DM Alipurduar Rs.515.48 out of which Rs.238.75 lac disbursed to entitled.
9	Encroachment	Encroachments are under the process of removal.		
<b>B</b>	<b>Design Review</b>			
1	Plan & Profile	Plan and Profile drawing have been submitted by contractor vide letter no. DRA/AH-02/15-16/27. Date. 28-07-2015. & offered comments of AE are yet to be complied.	Plan & profile for (0+00 km to 20+400 km) have been conditionally approved vide letter ref-ICT-AH-48/402/RE/83 dated -28.11.2015. Contractors has not done the compliance, till dated-09-01-2016)	
2	Pavement Design	Observations given by Authority Engineer are yet to be complied by the contractor.	Advised for resubmission after incorporating Authority Engineer's observations are yet to be complied by the contractor.	
3	Major Br.(3Nos AH-02),	3 no. superstructure design and drawing was submitted for review by A.E., After review, comments have been given for compliance which is still awaited.		
4	Grade Separator (Flyover)	2 no. superstructure design and drawing was submitted for review by A.E., After review, comments have been given for compliance which are still awaited.	Design and drawing not submitted by contractor for review of A.E.	
5	VUP		Design and drawing not submitted by contractor for review of A.E.	
6	PUP		Design and drawing not submitted by contractor for review of A.E.	
	EUP		Design and drawing not submitted by contractor for review of A.E.	
7	Minor bridge	Out of 4 no. Minor Bridges for new construction, Drawing for 3 nos. have been submitted by the contractor for which comments given by A.E. are yet to be complied by the contractor. For 3 no. Minor Bridges for widening, drawing not submitted.	3 no. design and drawing Minor Bridges submitted by contractor have been reviewed by A.E. Advised for resubmission after incorporating Authority Engineer's observations are yet to be complied by the contractor.	
8	RCC Box culverts (67 nos. of AH-48) &(47 nos. of AH-02))	For 43 no. Box Culvert, standard drawing and design of (1.5 *1.5) M have been Final reviewed by Authority Engineer. For 4 nos. Box Culvert design and drawing are yet to be submitted by the	For 67 nos. Box culvert design and drawing has been Final reviewed by Authority Engineer.	






Sl. No.	Description	AH-02	AH-48	Remarks
		Status		
		contractor.		
9	Slab culverts	Out of 18 no. Slab Culvert for widening 2 no. have been Final reviewed by Authority Engineer, (Km. 20+337, Km. 21+565) & for Slab Culvert at Km. 19+855 A.E.'s comments are yet to be complied by the contractor.		
10	H.P. Culvert	Out of 2 no. H.P Culvert for widening, drawing not submitted by the contractor.		
11	ROB's	Detailed design & Drawing for ROB at Km. 7+498 has been submitted to the Railway Authority and for remaining 3 no. ROB's design and drawing is under review with proof consultant.		Design and drawing is not submitted by contractor for review of A.E.
	Drain	1M*1M , total scope- 4320 mt& 1M*1.5M total scope-19168 mt. Design and Drawing Final Reviewed by A.E.. Slab Cover Design and drawing are yet to be submitted by the contractor.		
<b>C</b>	<b>Environment, Social, Health safety and traffic issue</b>			
1	QAP	QAP, EMP, Safety Plan has been submitted by the Agency; observations given by AE & ISC for compliance. Modified plan yet to be submitted by the Agency		QAP, EMP, Safety Plan has been submitted by the Agency; observations given by AE & ISC for compliance. Modified plan yet to be submitted by the Agency
<b>D</b>	<b>Work Programme</b>	Submitted, observations were given by AE & ISC and compliance from Contractor is awaited.		Submitted, where first milestone has been extended from 180 days to 218 days. Observations were given by AE & ISC and compliance from Contractor is awaited.
<b>E</b>	<b>Construction methodology</b>	Reviewed and required comments were provided for implementation. GSB works started.		Reviewed and compliance of the observations given by AE is awaited from Contractor. WMM and DBM works started.
<b>F</b>	<b>Plant Status</b>			
1	HMP	Yet to be mobilized		<b>At Camp -1, Km 19+800 (Indira more) Maynaguri.</b> Installation and calibration completed and production started <b>At Camp-2, (Rangalibanza, Alipurduar)</b> , Installation and calibration completed and production started

Sl. No.	Description	AH-02	AH-48	Remarks
		Status		
2	Concrete Batching Plant	Commissioned & Production started	At Camp -1, Km 19+800 (Indira more) Maynaguri Installation completed and production started. At Camp-2, Km 75+160 (Rangalibanza, Alipurduar) Installation completed and production started	
3	WMM Plant	Erection and calibration completed.	At Camp -1, Km 19+800 (Indira more) Maynaguri Installation Completed, Calibration carried out and Production started, At Camp-2, Km 75+160 (Rangalibanza, Alipurduar) Installation Completed and production started.	
4	Crusher Plant		At Camp-2, Km 75+160 (Rangalibanza, Alipurduar) Installation completed and production started	
	Laboratory Set up	Central Lab established at Naxalbari	Established at Camp 1 and Camp-2 both.	
	Pre-Cast Works	Proposals for precast Box Culvert & drain of Size 1M*1M are Final Reviewed by A.E. Casting yard Finalized and 84 no. Precast box culvert segment are casted.		
<b>G</b>	<b>Mix Design</b>			
1	Concrete Mix Design	M15, M20, M25, M30, M35, M40 & M45 have been Reviewed by AE.	M15, M20, M25, M30 & M35, have been Reviewed by AE.	
2	GSB	Mix Design Reviewed by A.E.	Mix Design Reviewed by A.E.	
3	WMM	Mix Design Reviewed by A.E.	Mix Design Reviewed by A.E.	
<b>H</b>	<b>Civil work</b>			
<b>a</b>	<b>Highway</b>			
1	Clearing and Grubbing	LHS – 6.77 KM, RHS – 7.575 KM	7 km completed	MCW
		LHS-2.11 KM , RHS-2.99 KM		SR. ROAD
2	Embankment	LHS-3.045 KM (top), RHS-4.420 KM (top)	7 km completed	MCW
		LHS 1.26 KM, RHS 1.04 KM		SR. ROAD
3	Sub grade	LHS-2.390 KM (top), RHS-4.060 ( top) KM	6.05 km completed	MCW
		LHS-0.35 KM , RHS-0.62KM		SR. ROAD
4	GSB	Material stacking is in progress.	RHS Top Layer-5+000 LHS Top Layer- 1+650	
	WMM	-	RHS Top layer - 0.910 Km RHS 1 <sup>st</sup> Layer - 1+085 Completed (In widening portion)	
	DBM over laying		3+525 Km Completed	

Sl. No.	Description	AH-02	AH-48	Remarks
		Status		
<b>b</b>	<b>Structure</b>			
1		PCC for widening of Existing slab culverts@ Km 19+852 & Km 20+403, RHS is completed	Construction of RCC box culverts completed at 55 locations and under progress at 4 locations.	
<b>l</b>	<b>Survey Work</b>			
	<b>NGL</b>	29+990 Km. Completed for MCW	35 Km. Completed for MCW	
	<b>OGL</b>	MCW LHS-6.77 Km RHS- 7.575 Km Service Road LHS-1.76 Km RHS- 2.335 Km	30 Km. Completed for MCW	
	<b>TBM Fixing</b>	37+271 Km Completed		
	<b>Centre Marking Line</b>	Completed in Km 02+000 – 04+000 06+700 - 12+000, 16+760 - 17+320 20+880 - 24+860 33+000 - 37+000	Completed in Km 0+00- 20+400, 36+100 - 88+600 and Pasakha Bypass	
	<b>Traffic Survey</b>		Completed	

### 3 PROJECT ADMINISTRATIVE DETAILS

Implementing the project, its management and safeguards, involve a number of agencies. The roles assigned to the different entities as presented next.

	<b>Overall Coordination and Monitoring:</b> <i>Steering Committee SASEC Road Connectivity Investment Program, Chaired by Joint Secretary, MoRTH</i>
	<b>Executing Agency: MORTH</b>
<b>DUTIES:</b>	(a) inter-ministerial coordination, (b) day-to-day subproject management, (c) sector development implementation, (d) procurement (e) withdrawal applications, (f) project progress reports, (g) maintaining project accounts, (h) Complete loan financial records.
	<b>Implementing Agency:</b> <i>West Bengal Public Works Department (West Bengal PIU, entrusted to WBPWD)</i>
<b>DUTIES:</b>	(a) implement subprojects as MORTH agency, (b) inter-departmental coordination, (c) provide counterpart staff and land facilities, (d) report on progress of subprojects.
	<b>Authority's Engineer:</b> <i>For EPC contracts, MoRTH will recruit the consultants for construction supervision (called "Authority's Engineer") under the terms of reference as given in the standard EPC contract document of Government of India.</i>
<b>DUTIES:</b>	Construction supervision
	<b>Wildlife Conservation Agency:</b> <i>An agency will also be engaged during construction and initial operation periods [Being environmentally a category A project, this is triggered.]</i>
<b>DUTIES:</b>	External monitoring on wildlife conservation activities

## 4 Environmental Sensitivity and Due Diligence

An EARF prepared for the project has guided procedures for the selection, environmental assessment and implementation of environment safeguards for the subprojects and ensure compliance to relevant laws and policies of the Government of India and the ADB Safeguard Policy Statement (SPS) 2009.

AH-48, passes through a protected area (Jaldhpara National Park) for approximately 2.6 km, government reserved forests for approximately 2 km and includes construction of two new bypass roads totalling about 97km. One of the two bypasses falls within 10 km of the Buxa Tiger Reserve. No environmentally sensitive areas exist in the other subproject AH-02. As per a new notification issued by MOEF on 22 August 2013 (see para 5(i)), both roads do not require an environmental clearance. However, a forest clearance for diversion of forest land to non-forest purpose is required for AH-48 for the sections of about 5 km passing through the national park and government reserved forests.

Environmental Impact Assessment (EIA) reports have been prepared for the two subprojects (AH-2 and AH-48) identified under Tranche I as they are located in environmentally sensitive areas, and fall under category A according to the ADB Safeguard Policy Statement.

### 4.1 Compliance with respect to Environmental Provisions as per Loan Covenants

As per the Loan Agreement for SRCIP Tranche – 1, the safeguards are to be complied with as per the Schedule 5 to the FFA during implementation of the Facility. ADB's safeguard policies in effect as of the signing of legal agreements for a tranche will be applied with respect to the projects financed under such tranche. Schedule 5 to the FFA describes the environment assessment requirements and authorities responsibilities as below:

Clause and Para No.	Description	Compliance Status
Schedule 5, Para 1	<p>India will ensure, cause the Ministry of Road Transport and Highways (MoRTH), the Manipur Public Works Department (MPWD) and the West Bengal Public Works Department (WBPWD) to ensure, that all the requirements prescribed in this Schedule, and the following social and safeguard frameworks and plans that have been prepared with respect to the Facility and the first tranche and of which ADB has been provided full copies, and which are deemed incorporated herein by reference, are complied with during the processing and implementation of the components/projects under the Facility.</p> <p>(i) Environmental Assessment and Review Framework (ii) Resettlement Framework (iii) Indigenous Peoples Planning Framework (iv) Two Combined Resettlement Plan and Indigenous</p>	Complied

Clause and Para No.	Description	Compliance Status
	Peoples Plan for AH-2 and AH-48 and (v) Environmental Impact Assessment for AH-2 and AH-48	
Schedule 5, Para 2	The frameworks cover the Facility-specific information and requirements in accordance with ADB's safeguard policies: (i) the general anticipated impacts of the components or projects likely to be financed under the MFF on the environment, involuntary resettlement, and indigenous peoples; (ii) the safeguard criteria that are to be used in selecting components, projects; (iii) the requirements and procedure that will be followed for screening and categorization, impact assessments, development of management plans, public consultation and information disclosure (including the 120-day disclosure rule, if required), and monitoring and reporting; and (iv) the institutional arrangements (including budget and capacity building requirements), grievance redress mechanisms and the client's and ADB's responsibilities and authorities for the preparation, review and clearance of safeguard documents.	Complied
Schedule 5, Para 3	Prior to the preparation of each PFR, the applicability and relevance of each safeguard framework for environmental assessment, involuntary resettlement, and indigenous people will be reviewed by India, MoRTH, MPWD and WBPWD and updated to ensure relevance and consistency with applicable country legal frameworks and ADB's Safeguard Policy Statement (2009), as amended from time to time.	Complied
Schedule 5, Para 4	In all cases, for each new PFR preparation, India will cause MoRTH, MPWD and WBPWD to review on-going projects to check on the status of compliance with the social and environment safeguard plans and frameworks, and submit due diligence reports of the earlier PFR to ADB, together with other required safeguard documents and semi-annual monitoring reports relevant to the components/projects included in the tranche being processed. In any case if significant involuntary resettlement and environment issues are identified in the course of the implementation and review of ongoing projects, a corrective action plan will be prepared to address such issues and submitted to ADB.	This report is the first Semi-Annual Monitoring Report for Environmental Safeguards. Social safeguards Monitoring report has been submitted for 2 <sup>nd</sup> Semi-Annual. Implementation is in progress, no significant environmental issues which are not addressed in the EMP are encountered till date. Hence, this clause deemed to be Complied.

Clause and Para No.	Description	Compliance Status
Schedule 5, Para 5	Semi-annual monitoring reports that describe the progress of the implementation of resettlement and environmental activities and any compliance issues and corrective actions (if any) will be submitted to ADB.	Complied

#### 4.2 Contractors EMP, HSE, Wild life Management Plan etc.,

The documents prepared as part of the DPR and the safeguard requirements of ADB were reviewed and the contractors are advised to prepare the site specific EMP for their respective contract packages updating any requirements that are not addressed in the project documents so far. Both the EPC contractors of AH-02 and AH-48 have submitted a draft EMP documents, and HSE Plan.

The contractors have been advised by the ISC and External Monitor for Wildlife Conservation Activities (EMWCA) to include a reporting system that they would follow. The reporting system has been proactively designed by the ISC & EMWCA and provided to the contractors for further incorporation into their EMPs. Contractors have incorporated them into their EMPs and the Final EMPs are yet to be submitted. The Environmental Monitoring Plan, HSE plan, Waste Management Plan and Traffic Management Plan for both the contracts has been integrated into the EMPs.

Further, during implementation of the EMP, the AH-48 contractor has to implement the Wild Life Management Plan that would be prepared by the EMWCA. The EMWCA is yet to finalise the preparation of the Wildlife Management Plan for the project. AH-02 does not require a wildlife management plan as there are no sanctuaries or reserved forests that crosses along the proposed alignment.

#### 4.3 Compliance Status of Statutory / Regulatory Clearances

As stated in the FFA, MoRTH shall ensure that all subprojects and project facilities under the Facility are assessed, designed, implemented, constructed, operated, maintained, and monitored in accordance with all applicable environmental laws, rules, and regulations of India, the state, ADB's SPS; the IEE, and the EARF, as applicable and statutory clearances need to be obtained. In line with the above requirement, all statutory clearances that are required for the project at various stages of implementation have been assessed during the design.

Both the sub-project roads AH-02 and AH-48 do not require Environmental Clearance from MoEF. The statutory clearances prior to construction are related to removal of trees that should be obtained from the State Forest Department and clearances for some construction activities that needs to be obtained from the State Pollution Control Board (SPCB).

The implementing agencies for the project i.e., the PIUs for both the projects have obtained forest clearance for tree cutting from the Forest Department and trees are being removed from the RoW as per the Joint Inspection carried out during July – Nov 2015.



There is so far no permit required for permission of using ground water from the 'Ground Water Board'. Both the Contractors of USRIP-III have obtained labour license and Workmen Compensation Insurance. The Contractors have obtained Consent to Establish for Concrete Batching Plants, Crushers, and the Hot Mix plant. Contractor of AH-48 is yet to submit the CTE & CTO for WMM Plant while CTE & CTO are obtained from AH-02 contractor. CTO are at various stages of application for both the contracts. The Contractors has also been asked to submit Pollution under Control Certificate (PUC) for vehicles engaged on construction activity. Status of various clearances and consents are indicated in the Table 4-1. Copies of the clearances obtained are to be provided as annexures referred in the table.

Table 4-1: Status of Clearances

Sl.No	Clearances / Consent / Permissions Required	Statutory Authority	Status of Clearance	
			AH-02	AH-48
<b>Clearances by the PIU, WBPWD</b>				
1	Forest Clearance	Regional Office, Forest Department, Bhubaneswar	Not Applicable	Applied and under process for forwarding it to the Regional Office, Bhubaneshwar
2	Wildlife Clearance	NBWL, Govt. of India	Not Applicable	Applied and under process with State Chief Wildlife Warden, West Bengal for forwarding it to National Board for Wildlife
3	Tree cutting	State Forest Department, West Bengal, represented by respective DFOs and Range Officers.	Obtained, Ref No. 2452/28-15 dated 24 <sup>th</sup> Nov 2014 for 2434 trees and Ref 1734/8-14 dated 22 <sup>nd</sup> July 2015 for 59 trees from DFO Kurseong Division; and  Ref No. NIL dated 28 <sup>th</sup> Nov 2014 for 919 trees from Forest Range Officer, Ambari Range  <b>(Annexure - 1)</b>	Obtained., Permit No. 81/MDT 14-15 dated 03 <sup>rd</sup> Jan 2015 for 2350 trees from Range Officer, Madarihat Range  Permit No. 74/DLG (NOC), dated 02 <sup>nd</sup> Feb 2015 for 532 trees from Forest Ranger, Dalgaon Range  Permit No. 138/MRH of 15-15 dated 04 <sup>th</sup> Feb 2015 for 1420 trees from Forest Range Officer, Moraghat Range  Permit No. NIL dated 06 <sup>th</sup> Dec 2014 for 572 trees from Forest Range Officer,

Sl.No	Clearances / Consent / Permissions Required	Statutory Authority	Status of Clearance	
			AH-02	AH-48
				Mekhliganj Range  Permit No. NIL dated NIL for 101 trees from Forest Range Officer, Hamiltonganj Range  <b>(Annexure - 2)</b>
4	Certificate of Registration of Principal Employer	Ministry of Labour & Employment, Govt. of India, represented by Dy. Chief Labour Commissioner (Central), Kolkata	Obtained, Ref No. 46/R(31)/2015-E.2 dated 25 <sup>th</sup> August 2015  <b>(Annexure - 3)</b>	Obtained, Ref No. 46/R(30)/2015-E.2 dated 18 <sup>th</sup> Aug 2015  <b>(Annexure - 4)</b>
<b>Clearances by the EPC Contractor</b>				
5	CTE	West Bengal Pollution Control Board (WBPCB)	Obtained for Batching Plant, and WMM. Ref 1: NOC S.No. N0136456 dated 31 <sup>st</sup> Aug 2015 valid upto 31 <sup>st</sup> July 2020.  Obtained for HMP Ref 2: Memo No. N795/WPB/SRO/NOC/DAR/D.452.2015 dated 30 <sup>th</sup> Nov 2015	Obtained for Batching Plant, Batching Plant, HMP at both Mainagudi and Rangalibazna, CTE for crusher is also obtained. Ref 1: CTE for HMP – N584/WPB/SRO/JAL/P.178.2015. dated 25 <sup>th</sup> Feb 2015 Ref 2: CTE for HMP, Batching Plant, and Crusher at Camp 2 (Rangalibazna) – N630/WPB/NOC/SRO/JAL/P.180.2015 dated 28 <sup>th</sup> May 2015 Ref 3: CTE for Ready Mix Plant, N780/WPB/SRO/NOC/JAL/P.192.2015. dated 2 <sup>nd</sup> Nov 2015
5	CTO	WBPCB	Obtained. Ref 1: CTO for Batching Plant and WMM Plant, Consent Memo No. C1032/WPB/SRO/DAR/D .401.205 dated 9 <sup>th</sup> Dec 2015  Ref 2: CTO for HMP – Consent Memo No. C1083/WPB/SRO/DAR/D .405.2016 dated 28 <sup>th</sup> Jan 2016	Obtained Ref 1: CTO for Hot Mix Plant Consent Memo No. C857/WPB/SRO/JAL/P.142.2015 dated 24 <sup>th</sup> July 2015 at Camp 1, Mainagudi  Ref 2: CTO for Crusher, WMM and Hot Mix Plant, Consent Memo No. C1015/WPB/SRO/JAL

Sl.No	Clearances / Consent / Permissions Required	Statutory Authority	Status of Clearance	
			AH-02	AH-48
				/P.143.2015 dated 18 <sup>th</sup> Nov 2015 at Camp 2, Rangali Bazna
6	Labour License		Obtained. Ref: No. 46/L(293)/2015-E.2 dated 3 <sup>rd</sup> Nov 2015 for not more than 200 heads. Valid upto 2 <sup>nd</sup> Nov 2016	Obtained, Ref: No. 46/L(240)/2015 E.2 dated 17 <sup>th</sup> Sept 2015 for not more than 300 heads. Valid upto 10 <sup>th</sup> Sept 2016
7	Licence for Storage of Petroleum products	Petroleum & Explosives Safety Organisation (PESO), Ministry of Commerce & Industry	Obtained, Ref: No. A/P/EC/WB/14/3672 (P362497) dated 10 <sup>th</sup> Dec 2015	Applied for permit, Ref No. NIL dated 21 <sup>st</sup> Sept 2015 for 150,000 lit/month at Camp – 1, Mainagudi
8	Quarry Permissions	North Bengal Investigation Division	Obtained for 25.5 lac cft for various quarry sites to be supplied by M/s Alam Enterprises and DipaThapa	Applied for Licences vide ref: 1. AH-48/11-4/496 dated 14 <sup>th</sup> October 2015 to Executive Engineer, Teesta Canal Division  ref: 2. AH-48/11-4/497 dated 14 <sup>th</sup> October 2015 to Alipurduar Irrigation Division and  ref: 3. AH-48/11-4/497 dated 14 <sup>th</sup> October 2015 to Cooch Behar Irrigation Division  Replies to the above are awaited from the divisions. In the meantime, RBM and Sub-grade material is being procured from third party who are licenced and paying the Royalty
9	Borrow area clearance	SEIAA	Presently not taken as earth from borrow area are not being used in the project.	Presently not taken as earth from borrow area are not being used in the project.

#### 4.4 Public consultations & Meetings

Local public have been involved in the project right from the project design stage. In the present stage of construction also local public are being consulted on continuous basis. The EPC contractors are holding consultative meetings to know their overall perception of the project and

any grievances they are having. The consultations held in both the packages of AH-02 and AH-48 are listed in along with the brief outcome of the consultations.

**Table 4-2: Public Consultation Meetings**

Sl.No	Package & Location	Date of Consultation	Agenda	Participants	Brief Outcome
1	AH-02 at km 11+840	26 <sup>th</sup> Dec 2015	Consultation on the demolition of Temple structure	10 persons, local public, and devotees	<ol style="list-style-type: none"> <li>Public have been informed of demolition of the structure and relocation of the deity upon completion of the road works at appropriate location. There was no resistance from the people and they were obliged that alternate structure would be of same type be provided as part of the project.</li> <li>There is a general positive feedback on the project road construction and there are no grievances on the account of environmental aspects or cultural property relocation</li> </ol>
2	AH-48, km 16, km 45, km 65 and km 74	20 <sup>th</sup> Dec 2015	General perception of the public towards the project and their awareness on the road safety and environment along the road during construction	60 persons, local public at respective places	<ol style="list-style-type: none"> <li>Public are providing positive feedback about the project and requesting for frequent conduct of awareness programmes.</li> <li>Public at km 45 have expressed their grievance regarding dust rising at their settlement location. Accordingly, they have been informed regarding measures taken by increasing frequency of water sprinkling to reduce dust rising</li> </ol>

**Figure 4-1: Few Photographs of Public Consultations along AH-02 and AH-48**

**AH-02, km 11+840**



**AH-48, km 16**



AH-02, km11+840



AH-48, km 45



## 5 Compliance / Status of EMP Implementation

In accordance with the loan covenants, EMP implementation is being taken up during the present stage of the project implementation i.e., the construction stage. The PIU with the coordination with ISC and EMWCA has prepared standard formats for monitoring the implementation of the EMP by the contractors. The monitoring formats provide the information on statutory clearances, status of environmental monitoring, safety of workers at construction sites and camp sites, and measures adopted for pollution control etc.,.

The EMP implementation during the reporting period has commenced based on the draft EMPs prepared by the respective contractors for AH-02 and AH-48. The EMP Implementation during this period of July – Dec 2015 was found to be satisfactory, which is just initiated in the last few months and needs strengthening in the areas such as monitoring of environmental quality, top soil management, and usage of personal protective equipment by the workers.

### 5.1 EMP Implementation setup in the Project

For the effective implementation and management of the EMP, the Contractors for the respective sub-projects have appointed qualified Environmental and Safety Officers. The PIU have also nominated Assistant Engineers to closely monitor the implementation of the EMP and report to the PD. The task of supervision for EMP implementation is part of the scope of the EMWCA, with overall reporting responsibility of the environmental safeguards to PIU and ADB with ISC. The EMP implementation setup is indicated in the Figure 5-1. The role of each agency in the project is presented in the Table 5-1.

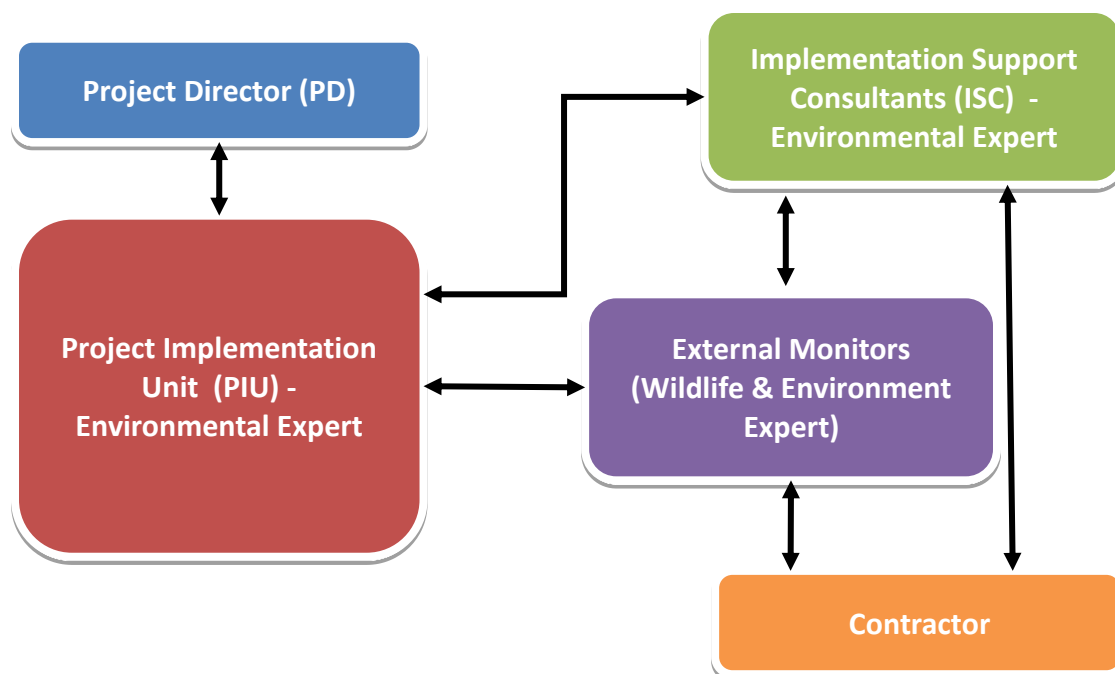


Figure 5-1: EMP Implementation Setup

Table 5-1: Role of Agencies towards EMP Implementation

Agency	Role
<b>Project Implementation Unit (PIU)</b>	<ul style="list-style-type: none"> <li>◦ Holds Overall responsibility with regard to EMP Implementation</li> <li>◦ Reporting to various stakeholders (ADB, Regulatory bodies) on status of EMP Implementation</li> <li>◦ Co-ordinating with Environmental Experts (ISC, AE, Contractors and External Monitors)</li> <li>◦ Responsible for obtaining Regulatory Clearances</li> <li>◦ Review of the progress made by Contractors</li> <li>◦ Ensure the BoQ items mentioned in EMP are executed as per contract provision</li> </ul>
<b>Implementation Support Consultant (ISC)</b>	<ul style="list-style-type: none"> <li>◦ Assisting PIU in overall implementation of EMP</li> <li>◦ Review of periodic reports on EMP implementation and advising PIU in taking corrective measures</li> <li>◦ Conducting periodic field inspection of EMP implementation</li> <li>◦ Assisting PIU and reporting to various stakeholders (ADB, Regulatory bodies) on status of EMP implementation</li> <li>◦ Conduct environmental training for field officers and engineers of contractor</li> </ul>
<b>External Monitor for Wildlife Conservation Activity (EMWCA)</b>	<ul style="list-style-type: none"> <li>◦ Environment Expert for supervising EMP &amp; EMOP implementation</li> <li>◦ Wildlife Expert for preparing and supervising implementation of Wildlife Management Plan (WMP)</li> <li>◦ Responsible for ensuring EMP implementation during construction and effectiveness during operation stage</li> </ul>

Agency	Role
	<ul style="list-style-type: none"> <li>◦ Maintaining progress reports on EMP implementation</li> <li>◦ Periodic reporting to PIU about the status of EMP implementation</li> <li>◦ Work in close co-ordination with Environmental Experts of PIU, ISC and the Contractor</li> </ul>
<b>Contractor</b>	<ul style="list-style-type: none"> <li>◦ Responsible for ensuring the implementation of EMP as per provision in the document</li> <li>◦ Discussing various environmental / social issues and environmental / social mitigation, enhancement and monitoring actions with all concerned directly or indirectly</li> <li>◦ To ensure environmentally sound and safe construction practices</li> <li>◦ Conducting periodic environmental and safety training for contractor's engineer, supervisors and workers</li> <li>◦ Sensitization on social issues that may be arising during the construction stage of the project</li> <li>◦ Conduct environmental monitoring and control activities including pollution monitoring, safety ; and</li> <li>◦ Preparing and submitting monthly reports to SC/ PIU on status of implementation of safeguard measures</li> </ul>




## 5.2 EMP Implementation Status



Various measures provided in the EMP for implementation during the pre-construction and construction stages of the project are examined at site. A brief status of the implementation of the major activities specified in the contractors draft EMP are presented in the Table 5-2

Table 5-2: Status of Implementation of the Environmental Management Measures as per the Contractors Draft EMP

Sl. No.	Environmental issues / impacts	Mitigation / Management Actions Proposed in the EMPs	Status of Management Actions	
			AH-02	AH-48
<b>1</b>	<b>Pre-Construction Stage</b>			
1.1	Tree clearance	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>Compensatory plantation &amp; additional plantation in available clear space</li> </ul> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>Only marked trees to be felled.</li> <li>Compensatory plantation @ 5 saplings for each tree felled. No. of tree felled will be as per the list approved by DFO for the project site.</li> <li>Removal of trees only within Col after joint verification with forest department.</li> </ul>	<ul style="list-style-type: none"> <li>Joint verification of trees to be cut has been completed and tree marking is completed for all stretches in the corridor</li> <li>Tree clearance has been completed from km 1+600 to km 19 and from km 21 to km 30</li> </ul>	<ul style="list-style-type: none"> <li>Joint verification of trees to be cut has been completed</li> <li>Trees in private lands and tea gardens are yet to be identified.</li> </ul>
1.2	Grubbing & levelling at along Project road	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>Removal of remains of trees to facilitate construction and carting away of remains</li> </ul> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>Contractor will carry out the clearing of stumps and levelling.</li> <li>Carting away will be done by the Public Works (Road Directorate) after the stumps are removed from the ground.</li> </ul>	<ul style="list-style-type: none"> <li>Stump removal from km 1.6 to km 18.5 and km 21 to 23.5. The stumps are kept on the road side for removal at a later date</li> </ul>	<ul style="list-style-type: none"> <li>Stump removal is completed for 26 km i.e., from km 41 to km 67. Stumps are kept on the road side for removal at a later date</li> </ul>
1.3	Siting of construction	<p><b>Enhancement / Mitigation Measures:</b></p>	<ul style="list-style-type: none"> <li>Camp site establishment is completed at km 8+600.</li> </ul>	<ul style="list-style-type: none"> <li>Camp sites are established at chainage km 19+800 in</li> </ul>





	<p>Camp</p>	<ul style="list-style-type: none"> <li>Sitting will be finalized after approval of Authority Engineer who will look into the site and planning of the Contractor</li> </ul> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>Contractor will prepare a site plan.</li> <li>The Contractor will avoid camp site near water courses (Major perennial rivers)</li> <li>Machinery and equipment area will be protected</li> <li>Vehicle refuelling sites will be avoided near water sources</li> </ul>	<ul style="list-style-type: none"> <li>Camp site and plant site at and km 9+777 for HMP and RE Panel Casting. Topsoil is preserved.</li> <li>Possession for Land in process at Km 22 for batching plant and Girder casting</li> <li>Topsoil is preserved at campsite of km 9+777</li> <li>Photo of Topsoil Preservation:</li> </ul> 	<p>Mainagudi, km 75+200 at RangaliBazna</p> <ul style="list-style-type: none"> <li>Topsoil is preserved for reuse at the campsite of RangaliBazna</li> <li>Photographs of Topsoil Preservation:</li> </ul>  
<b>2 Construction Phase</b>				
2.1	<p>Borrow pit exploitation causing loss of productive land (Borrow area development)</p>	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>Indemnity by contractors to Chief Engineer P-3, MORTH, New Delhi against third party claims.</li> </ul> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>Contractor will verify that enough quantity of borrow materials is available at identified borrow pits.</li> </ul>	<ul style="list-style-type: none"> <li>Borrow areas are not operated and only RBM is being used. The RBM is procured from licensed third party sources. Their licenses are being checked periodically.</li> </ul>	<ul style="list-style-type: none"> <li>Borrow areas are not operated and only RBM is being used.</li> <li>Request to respective irrigation divisions applied for extraction of RBM but it is yet to be obtained. In the meantime, the RBM is procured from licensed third party sources. Their licenses are being checked periodically</li> </ul>

<p>2.2</p>	<p>Erosion/ damage to embankments</p>	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>AH-48: Embankment portion at bridges, High embankment locations and ROB location (0.674 of Hasimara bypass), and locations of raised portions</li> </ul> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>Appropriate items in specification for retaining wall/ Toe wall of slope stabilization measures, monitoring of compliance during construction of retaining/ Toe wall and appropriate administration of contracts will be ensured.</li> </ul>	<ul style="list-style-type: none"> <li>Shoulder protection measures for protecting from erosion during November 2015 after monsoon have been undertaken</li> <li>Photos indicating shoulder protection works:</li> </ul> 	<ul style="list-style-type: none"> <li>Shoulder protection measures for protecting from erosion during monsoon have been undertaken</li> </ul> 
<p>2.3</p>	<p>Road side landscape development</p>	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>The positive impact will be on bio-aesthetes and beauty</li> <li>Landscaping and beautification of ponds and access roads will improve aesthetic considerations.</li> </ul> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>Turfing of the slopes to check soil erosion with grasses etc.,</li> <li>Suitable drainage measures will be taken to avoid water logging in adjoining area.</li> </ul>	<ul style="list-style-type: none"> <li>Turfing and landscaping will be carried out immediately after construction works are completed in the section</li> </ul>	<ul style="list-style-type: none"> <li>Turfing and landscaping will be carried out immediately after construction works are completed in the section</li> </ul>
<p>2.4</p>	<p>Safe site for construction worker's camp</p>	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>AH:48: Site will be located at least at 500 m downwind from habitations and major water</li> </ul>	<ul style="list-style-type: none"> <li>Camp site layout not reviewed. But the location of all equipment and machinery in the campsite are approved by WBSPCB</li> </ul>	<ul style="list-style-type: none"> <li>Camp site layout not reviewed. But the location of all equipment and machinery in the campsite are approved by WBSPCB</li> </ul>


		<p>course and at least 4 km away from Jaldapara National Park</p> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>Authority Engineer and PIU will approve the site chosen by the contractors condition will be put in contract document for location of site above specified distances.</li> </ul>		<ul style="list-style-type: none"> <li>Camp site of RangaliBazna at km 75+200 is more than 4 km away from Jaldapara National Park and there are no settlements in the 500 m radius of the camp site</li> </ul>
2.5	Sanitation and disposal facilities at construction worker's site	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>Proper availability of drinking water and sanitation facilities at worker's camp</li> </ul> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>Contractors will install temporary toilets with septic tank/ soak pits.</li> <li>Contractor will provide suitable collection and disposal system for collection of domestic refuse dustbins will be provided. The collected domestic kitchen / food waste shall be recycled as compost and disposed in pits dug in the camp areas.</li> </ul>	<ul style="list-style-type: none"> <li>Septic tank is installed for treatment of toilet wastes.</li> <li>Dust bins are installed for collection of solid wastes</li> <li>No compost pits have been provided as Food waste generated at the rate of 30 kg / day is being given to local people daily for use in their piggeries and other farms.</li> </ul>	<ul style="list-style-type: none"> <li>Septic tank is installed for treatment of toilet wastes.</li> <li>Dust bins are installed for collection of solid wastes</li> <li>No compost pits have been provided as Food waste is being given to local people daily for use in their piggeries and other farms.</li> </ul>
2.6	Cooking fuel at worker's camp	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>Workers' should not depend for cooking on fuel wood.</li> </ul> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>Contractors will ensure availability of kerosene oil/ LPG.</li> </ul>	<ul style="list-style-type: none"> <li>LPG commercial cylinder is being used for cooking in the campsites for all the staff and workers.</li> </ul>	<ul style="list-style-type: none"> <li>LPG commercial cylinder is being used for cooking in the campsites for all the staff and workers.</li> </ul>
2.7	Health facilities at worker's camp	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>Availability of first aid and Health</li> </ul>	<ul style="list-style-type: none"> <li>Three (3) no's of first aid boxes are placed at the campsites i.e., one in each location.</li> </ul>	<ul style="list-style-type: none"> <li>Two (2) no's of first aid boxes are placed at the campsites i.e., one in each location.</li> </ul>

		<p>facilities</p> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>The Contractors will ensure presence of first aid boxes in two numbers and make shift dispensary at respective camps.</li> </ul>	<ul style="list-style-type: none"> <li>A dedicated room and vehicle is provided at the campsite at km 8+600 along with a Male nurse at the camp</li> <li>The male nurse would provide timely medical help where needed including along the project road</li> </ul>	<ul style="list-style-type: none"> <li>Efforts are underway for appointing a doctor to attend to in case of injuries. A first aider is however, available at present</li> </ul>
2.8	HIV/ AIDS awareness campaign at workers' camp	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>Workers to be made aware of HIV/AIDS and protection measures.</li> </ul> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>To organize awareness programme every month</li> </ul>	<ul style="list-style-type: none"> <li>HIV / AIDS awareness camps are being planned to be organised from January 2016 onwards. Various NGOs are being explored for engaging them for the purpose of conducting the camps.</li> </ul>	<ul style="list-style-type: none"> <li>HIV / AIDS awareness camp is organised on Dec 1<sup>st</sup> 2015. A local NGO working in this sector has been engaged for the purpose.</li> </ul>
2.8.1	Provision of Clean drinking water	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>The previous of unhygienic conditions at work place of construction workers.</li> <li>The non-availability of good drinking water</li> </ul> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>At every work place, the good and sufficient water supply shall be maintained to avoid waterborne diseases and securing the health of worker.</li> <li>Adequate drainage, sanitation and waste disposal to be provided at workplace.</li> <li>Medical care to be provided to workers if falling ill.</li> </ul>	<ul style="list-style-type: none"> <li>Portable drinking water is being supplied to the workers at the camp site by installing the RO filter.</li> <li>All workers carry the water from camp to their respective work sites. All necessary bottles etc., are being provided to the workers for the purpose</li> <li>Drainage and sanitation is provided at the camp site to maintain hygienic conditions</li> <li>Medical care is being provided through a male nurse.</li> <li>Photo of RO system provided</li> </ul>	<ul style="list-style-type: none"> <li>Portable drinking water is being supplied to the workers at the camp site by installing the RO filter.</li> <li>All workers carry the water from camp to their respective work sites. All necessary bottles etc., are being provided to the workers for the purpose</li> <li>Drainage and sanitation is provided at the camp site to maintain hygienic conditions</li> <li>Photo of RO system provided at both the campsites in the project corridor</li> </ul>

				
<p>2.9</p>	<p>Damage to services running parallel of across the alignment of project road corridor during construction leading to interruption in supply</p>	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>Relocation of any potentially affected services prior to commencement of any construction works</li> <li>Contractor will be responsible for identifying and safeguarding services adjacent to works and for compensating statutory undertakers for any accidental damage to such services</li> </ul> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>Potential areas shall be identified and shared with AE</li> </ul>	<ul style="list-style-type: none"> <li>Utility shifting being carried out by EPC. PHED lines being shifted by concerned entity owing agency.</li> <li>No accidental damage has been reported so far</li> </ul>	<ul style="list-style-type: none"> <li>Utility shifting being carried out by EPC. PHED lines being shifted by concerned entity owing agency.</li> <li>No accidental damage has been reported so far</li> </ul>
<p>2.10</p>	<p>Damage to Archaeological and cultural sites &amp; properties</p>	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>No existence of archaeological sites are reported</li> <li>No monument exists in the corridor</li> </ul> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>Relocation of cultural properties</li> </ul>	<ul style="list-style-type: none"> <li>Relocation of cultural properties within the RoW is being handled by the PIU in coordination with the contractor. No relocation so far has been undertaken in the project area.</li> <li>No archaeological finds have been encountered till date</li> </ul>	<ul style="list-style-type: none"> <li>Relocation of cultural properties within the RoW is being handled by the PIU in coordination with the contractor. No relocation so far has been undertaken in the project area.</li> <li>No archaeological finds have been encountered till date</li> </ul>

		<ul style="list-style-type: none"> <li>Religious structures which are falling in the alignment will be suitably relocated in consultation with local people and authorities.</li> </ul>		
2.11	Fire Prevention	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>Adopt safe work practices and have adequate fire fighting facilities.</li> </ul> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>Provision of adequate fire fighting equipment will be made.</li> </ul>	<ul style="list-style-type: none"> <li>Necessary fire fighting arrangements including fire extinguishers are installed at the plant sites and camp sites.</li> <li>Fire drills are being conducted to ensure safe handling of the equipment and undertaking fire fighting appropriately in case of any fire incidence.</li> </ul>	<ul style="list-style-type: none"> <li>Necessary fire fighting arrangements including fire extinguishers are installed at the plant sites and camp sites.</li> <li>Fire drills are being conducted to ensure safe handling of the equipment and undertaking fire fighting appropriately in case of any fire incidence.</li> </ul>
2.12	Presences of contractor's work force increasing pressure on already strained local facilities including health & medical facilities	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>Contractor will provide own suitable equipped and staffed site emergency medical facilities</li> </ul> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>Monitoring of compliances during construction and proper administration of contracts will be ensured.</li> </ul>	<ul style="list-style-type: none"> <li>First aid box available and being replenished regularly. Total 3 boxes i.e. One each at the campsite and plant sites. Hence, no strain on local facilities is being anticipated</li> </ul>	<ul style="list-style-type: none"> <li>First aid box available and being replenished regularly. Total 3 boxes i.e. One each at the campsite and plant sites. Hence, no strain on local facilities is being anticipated</li> </ul>
2.13	Incomplete post –use clearance and reinstatement of construction camps leading to loss of land productivity or additional costs for land owners to reinstate land	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>Contractor will prepare site restoration plans for approval of authority Engineer and PIU to implement these plans fully prior to demobilization. All temporary work sites to be notified by the contractor prior to use.</li> </ul> <p><b>Management Action:</b></p>	<ul style="list-style-type: none"> <li>Site restoration plans are yet to be prepared</li> <li>Pre-use state photographs are taken for all the sites.</li> </ul>	<ul style="list-style-type: none"> <li>Site restoration plans are yet to be prepared</li> <li>Pre-use state photographs are taken for all the sites.</li> </ul>




		<ul style="list-style-type: none"> <li>Monitoring of compliances during construction and proper administration of contracts will be ensured.</li> <li>All sites will be photographed to record pre-use state.</li> <li>BOQ's will include nominated lump sum for reinstatement of temporary sites to pre-use status.</li> </ul>		
2.14	Pollution of land, ground water and surface water arising from sanitary and other wastes and spillage.	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>During construction it will be ensured that contractor does not dispose off debris in water bodies (River and streams being crossed by the project roads)</li> </ul> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>Monitoring of compliances during construction and strict administration of contracts will be ensured.</li> </ul>	<ul style="list-style-type: none"> <li>No work near surface water bodies is underway at present</li> <li>Measures for protection of groundwater from contamination due to sanitary wastes are being taken by providing septic tanks and soak pits</li> </ul>	<ul style="list-style-type: none"> <li>No work near surface water bodies is underway at present</li> <li>Measures for protection of groundwater from contamination due to sanitary wastes are being taken by providing septic tanks and soak pits</li> </ul>
2.15	Contamination of soil from fuel and lubricants	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>The impact will be negligible since the chemical nature of the soil will not change much</li> <li>Negligible impact on the growth of vegetation</li> </ul> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>Vehicles and machines are maintained and refilled in such a fashion that old diesel spillage does not contaminate the soil.</li> </ul>	<ul style="list-style-type: none"> <li>Waste oil is being collected at the rate of 100 lit / month</li> <li>Impervious surface for collection of waste oil is planned for construction</li> <li>Vehicle wash area is also planned for construction</li> </ul>	<ul style="list-style-type: none"> <li>Waste oil is being collected for reuse and recycling through authorised recyclers. Till date about 2300 lit has been collected and stored in the premises for sale to the recyclers</li> <li>Impervious surface for collection of waste oil is provided</li> </ul>

		<p>Impervious surface will be provided at the refuelling sites, bitumen, lubricant, fuel storage sites.</p> <ul style="list-style-type: none"> <li>Fuel storage and refilling sites shall be kept away from cross drainage structure and important water bodies.</li> <li>At spoils shall be disposed off as desired and the site shall be fully cleaned before handing over.</li> </ul>		 <ul style="list-style-type: none"> <li>Vehicle wash area is planned for construction</li> </ul>
2.16	Contamination of soil from construction wastes	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>The impact will be marginal of the soil quality</li> <li>The growth of vegetation will be partially disturbed</li> <li>Vehicle maintenance and refuelling will be confined to areas under construction yard to trap discarded lubricant and fuel spills.</li> </ul> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>The construction wastes shall be dumped in selected pits, developed in infertile land</li> <li>Follow the norms of SPCB</li> <li>Borrow pits to be filled by such wastes</li> <li>Ensure vehicles are cleaned, serviced and refuelled in the service area only</li> </ul>	<ul style="list-style-type: none"> <li>All wastes are being disposed within the RoW. Planned to reuse bituminous waste.</li> <li>Washing platform is provided. Planned to collect and reuse the water for dust control.</li> </ul>	<ul style="list-style-type: none"> <li>Vehicle washing platform is yet to be provided</li> <li>Waste disposal sites are to be identified before end of February 2016</li> </ul>
2.17	Contractor's water abstraction	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>Contractor will make suitable</li> </ul>	<ul style="list-style-type: none"> <li>Silt fencing shall be provided for about 300 m along the water</li> </ul>	<ul style="list-style-type: none"> <li>Silt fencing shall be provided along the water bodies that are close to the road. As work is not being done</li> </ul>



	resulting in depletion of scarce water resources with local uses and pollution of surface water bodies from construction activities	<p>arrangement for own supply and protection of water bodies from pollution</p> <ul style="list-style-type: none"> <li>Silt fencing will be provided all around the base of the stockpile of materials wherever material is stockpiled near water bodies</li> </ul> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>Monitoring of compliances during construction and strict administration of contracts will be ensured.</li> </ul>	bodies that are close to the road.	close to the water bodies at present, these are not being provided
2.18	Construction traffic causing pavement and structure damage to roads due to overloading increasing congestion and increased road safety hazards	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>Contractor will use appropriate vehicles and to comply with legal gross vehicle and axle load limits.</li> <li>Contractor will repair damage at own expense</li> </ul> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>Monitoring of compliances during construction and strict administration of contracts will be ensured.</li> </ul>	<ul style="list-style-type: none"> <li>No impacts till date have been identified</li> </ul>	<ul style="list-style-type: none"> <li>No impacts till date have been identified</li> </ul>
2.19	Road safety hazards associated with temporary traffic diversions	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>Contractor will take all reasonable measures to minimize interference with traffic flow and to provide safe transit at diversions. The contractor will maintain two way traffic at diversions and will inform to local traffic police about the traffic diversion.</li> </ul>	<ul style="list-style-type: none"> <li>Traffic management plans are prepared for diversions</li> <li>All road safety measures as per IRC: SP-55 are being followed.</li> </ul>	<ul style="list-style-type: none"> <li>Traffic management plans are prepared for diversions and submitted to AE for approval. Accordingly, diversions are being carried out on site</li> </ul>

		<p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>Monitoring of compliances during construction and strict administration of contracts will be ensured.</li> </ul>		
2.20	Pollution from Hot Mix Plant, Concrete batching Plant, Construction yard and due to movement and operation of construction vehicles and machinery.	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>Construction camps will be located in open areas and away from residential complexes.</li> </ul> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>Monitoring of air pollution and timely action to decrease the pollutant concentration by appropriate measure will be taken up.</li> </ul>	<ul style="list-style-type: none"> <li>Construction camps are more than 500 m away from settlements</li> <li>AAQM is yet to be initiated</li> </ul>	<ul style="list-style-type: none"> <li>Construction camps are more than 500 m away from settlements</li> <li>AAQM is yet to be initiated</li> </ul>
2.21	Emission from construction vehicle and machinery	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>Effect on human health</li> <li>Dust settled on leaves may reduce growth rate of the plants</li> <li>Crowded market places and construction sites will have higher degree of emission</li> </ul> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>All vehicles, equipment's and machinery used for construction shall be regularly maintained to ensure that the pollution emissions levels are as per norms of SPCB</li> <li>Monitoring of suspended particles test will be conducted as per the norms of SPCB</li> </ul>	<ul style="list-style-type: none"> <li>Construction camps are more than 500 m away from settlements</li> <li>AAQM is yet to be initiated</li> <li>Pollution under control certificates are being monitored and regularly updated</li> </ul>	<ul style="list-style-type: none"> <li>Construction camps are more than 500 m away from settlements</li> <li>AAQM is yet to be initiated</li> <li>Pollution under control certificates are being monitored and regularly updated (<b>Annexure - 5</b>)</li> </ul>

		<ul style="list-style-type: none"> <li>The human settlements shall be at least 500 m downward wind direction of asphalt mixing plant</li> </ul>		
2.21	Dust and its treatment	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>The impact of dust at construction sites is rather adverse, but localised in nature</li> <li>No serious health problem is likely to be caused</li> </ul> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>Precautions to reduce the level of dust emissions from the hot mix plants shall be taken</li> <li>The Hot Mix Plants be sited at least 500 m from nearest habitation. The plant will be including the dust extraction unit. Water sprinklers will be provided at the HMP dust collection pits to avoid dust rising.</li> <li>Water should be sprayed in the earth mixing sites, asphalt mixing site and service roads. In filling sub grade, water sprayed is needed to solidity the material. After the impacting, water should be sprayed regularly to prevent dust.</li> <li>Vehicles delivering material should be covered.</li> </ul>	<ul style="list-style-type: none"> <li>Sprinkling of water is being done with 2 water tankers for twice a day.</li> </ul>  <ul style="list-style-type: none"> <li>Trucks are being covered with tarpaulin while material is transferred</li> </ul> 	<ul style="list-style-type: none"> <li>Sprinkling of water is being done with 8 water tankers for 3 to 4 times a day.</li> </ul> 
2.22	Noise Levels	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>Construction camps will be</li> </ul>	<ul style="list-style-type: none"> <li>Construction working times are 8 Am to 5 pm and no working in the night time is being carried out</li> </ul>	<ul style="list-style-type: none"> <li>Construction working times are 7 am to 7 pm and no working in the night time is being carried out</li> </ul>

		<p>located in open areas as far as possible from residential areas.</p> <ul style="list-style-type: none"> <li>• All equipment will be maintained in good working order, properly designed engine enclosures and inbuilt silencers.</li> <li>• Construction work will be prohibited between 10.00 PM to 6.00 AM near residential areas.</li> </ul> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>• Contractor to set up the camp site as per the EMP conditions and seek approval of Authority Engineer</li> <li>• Ensure the equipment is maintained in good working condition</li> <li>• In construction sites within 150m radius where, there are human settlements, construction will be stopped between 10.00 pm and 6.00 am.</li> </ul>		
2.23	Noise from blasting operation	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>• The sudden and loud noise of blasting is disturbing and irritating</li> <li>• The intense noise may cause partial deafness</li> </ul> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>• People living near such sites will be given prior information of operational hours.</li> <li>• Blasting will be undertaken only in day time.</li> </ul>	<ul style="list-style-type: none"> <li>• No blasting is being carried out by the contractor as material is being procured from third party sources who are already licenced.</li> </ul>	<ul style="list-style-type: none"> <li>• No blasting is being carried out by the contractor as material is being procured from third party sources who are already licenced.</li> </ul>

2.24	Relocation of common property resources (CPRs)	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>AH-48: 19 Hand Pump, 12 tube well, 21 passenger sheds and 09 water taps within ROW. These need to be relocated in case of public assets of the owners need to be compensated in case of private asset</li> </ul> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>All common property resources shall be identified and relocated during the course of execution of the civil works but prior to dismantling of the asset.</li> </ul>	<ul style="list-style-type: none"> <li>No CPRs are relocated till date as none of them are affected from construction works carried out.</li> </ul>	<ul style="list-style-type: none"> <li>No CPRs are relocated till date as none of them are affected from construction works carried out.</li> </ul>
2.25	Relocation of Utility lines/ Community Utility	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>Short term negative impact during transitory phase of shifting of utility lines.</li> <li>No impact on shifting wells, hand pumps etc.</li> </ul> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>All utilities to be relocated with prior approval of the concerned agencies</li> <li>All communities' utilities such as sources of water to be relocated to suitable places</li> </ul>	<ul style="list-style-type: none"> <li>Relocation of utilities is being undertaken by the EA</li> </ul>	<ul style="list-style-type: none"> <li>Relocation of utilities is being undertaken by the EA</li> </ul>
2.26	Relocation of religious structures	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>53 small religious structures are falling in proposed ROW. These need to be relocated in</li> </ul>	<ul style="list-style-type: none"> <li>Relocation of religious structures will be undertaken by the EA</li> </ul>	<ul style="list-style-type: none"> <li>Relocation of religious structures will be undertaken by the EA</li> </ul>


		<p>consultation with locals.</p> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>Local people and authorities will be consulted</li> <li>Land for relocation will be identified in consultation with them</li> <li>Process for relocation will be initiated and relocated.</li> </ul>																																																	
2.27	Accidental hazards and Safety	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>The contractor will prepare a safety manual for all activities at construction as well as activities at construction camps. This manual will have safety measures to be adopted. The safety procedure for transpiration of construction materials will also detailed.</li> <li>The type of accidental risks may be due to ill-maintained machines and vehicles due to poor light conditions at the work place, or due to carelessness and poor management of the work involved</li> </ul> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>Safety Manual prepared and submitted to AE details out the management plans</li> <li>To ensure safe construction in the temporary accesses during construction, lighting devices and safety signal devices shall be</li> </ul>	<ul style="list-style-type: none"> <li>No fatalities have happened during construction till date</li> <li>DRA provides treatment for common ailments as well as work related injuries. The month wise number of cases reported are as below:</li> </ul> <table border="1"> <thead> <tr> <th rowspan="2">Month</th> <th colspan="2">No. of Cases</th> </tr> <tr> <th>Diseases</th> <th>Injuries</th> </tr> </thead> <tbody> <tr> <td>June 2015</td> <td>4</td> <td>1</td> </tr> <tr> <td>July 2015</td> <td>5</td> <td>Nil</td> </tr> <tr> <td>August 2015</td> <td>3</td> <td>2</td> </tr> <tr> <td>September 2015</td> <td>5</td> <td>Nil</td> </tr> <tr> <td>October 2015</td> <td>5</td> <td>2</td> </tr> <tr> <td>November 2015</td> <td>3</td> <td>5</td> </tr> <tr> <td>December 2015</td> <td>5</td> <td>4</td> </tr> <tr> <td><b>Total for reporting period</b></td> <td><b>30</b></td> <td><b>14</b></td> </tr> </tbody> </table>	Month	No. of Cases		Diseases	Injuries	June 2015	4	1	July 2015	5	Nil	August 2015	3	2	September 2015	5	Nil	October 2015	5	2	November 2015	3	5	December 2015	5	4	<b>Total for reporting period</b>	<b>30</b>	<b>14</b>	<ul style="list-style-type: none"> <li>No fatalities have happened during construction till date</li> <li>The month wise injuries reported are as below:</li> </ul> <table border="1"> <thead> <tr> <th>Month</th> <th>No. of Injuries</th> </tr> </thead> <tbody> <tr> <td>June 2015</td> <td>1</td> </tr> <tr> <td>July 2015</td> <td>Nil</td> </tr> <tr> <td>August 2015</td> <td>Nil</td> </tr> <tr> <td>September 2015</td> <td>1</td> </tr> <tr> <td>October 2015</td> <td>2</td> </tr> <tr> <td>November 2015</td> <td>1</td> </tr> <tr> <td>December 2015</td> <td>Nil</td> </tr> <tr> <td><b>Total for reporting period</b></td> <td><b>5</b></td> </tr> </tbody> </table> <ul style="list-style-type: none"> <li>All injuries are treated for first aid only and no referrals were needed</li> </ul>	Month	No. of Injuries	June 2015	1	July 2015	Nil	August 2015	Nil	September 2015	1	October 2015	2	November 2015	1	December 2015	Nil	<b>Total for reporting period</b>	<b>5</b>
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		<p>installed. Traffic rules and regulation to be strictly followed.</p> <ul style="list-style-type: none"> <li>• At blasting sites- the blasting time, signal and guarding will be regulated. Prior to blasting the site should be thoroughly inspected. Blasting will not be carried out during peak hours.</li> <li>• Safety of workers undertaking various operations during construction should be ensured by providing helmets, masks, safety goggles etc.</li> <li>• The electrical equipments should be checked regularly to avoid risks to workers.</li> <li>• At every work place, a ready available first aid unit including an adequate supply of dressing materials, a mode of transport.</li> </ul>		
2.28	Negative impact on Flora due to Cutting of Trees and removal of vegetation	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>• To compensate for 15997 numbers of trees to be cut 79,985 numbers of trees will be planted</li> </ul> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>• The number of trees felled will be confirmed by PD. To compensate the felled trees adequate number of trees as finalised by the PD will be planted.</li> </ul>	<ul style="list-style-type: none"> <li>• The compensatory afforestation will be taken up after completion of the road construction. Locations for afforestation and landscaping scheme are yet to be identified</li> </ul>	<ul style="list-style-type: none"> <li>• The compensatory afforestation will be taken up after completion of the road construction. Locations for afforestation and landscaping scheme are yet to be identified</li> </ul>
2.29	Road side plantation	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>• Heavy loss of roadside trees</li> </ul>	<ul style="list-style-type: none"> <li>• Location of compensatory plantation is yet to be identified</li> </ul>	<ul style="list-style-type: none"> <li>• Location of compensatory plantation is yet to be identified</li> </ul>

		<p>leading to increase in air and noise pollution.</p> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>• Trees will be removed as per the design with prior approval of DFO</li> <li>• Five trees will be planted in case of one removed.</li> </ul>		
2.30	Negative impact on Fauna.	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>• The compensatory plantation will provide nesting ground to avifauna as this will be done in available space on either side of road.</li> </ul> <p><b>For AH-48 only</b></p> <ul style="list-style-type: none"> <li>• Construction of three underpasses for the elephant crossing in Jaldapara Wild Life Sanctuary at KM 718, KM 86.173 AND KM 86.913.</li> <li>• The elephant underpass construction works will be taken up in December to May period when elephant movement is low.</li> <li>• Necessary signage on either side of project road will be provided at Jaldapara Wild Life Sanctuary and at locations of elephant underpasses to warn the road users.</li> <li>• Construction workers shall be trained about safe handling of animals if found by chance. Cost</li> </ul>	<ul style="list-style-type: none"> <li>• Location of compensatory plantation is yet to be identified. Rest of the items are not applicable for this package</li> </ul>	<ul style="list-style-type: none"> <li>• Location of compensatory plantation is yet to be identified.</li> <li>• Construction works in the premises near the sanctuary and in forest areas are not initiated yet as the Wild life clearance and forest clearance are yet to be received</li> <li>• Measures as required in the EMP will be undertaken prior to initiation of the construction works in the area</li> </ul>



		<p>of training built into training component cost.</p> <ul style="list-style-type: none"> <li>• Construction workers will be trained not to go for fishing in water bodies.</li> <li>• Noise barrier will be provided in the form of fibre sheet in the entire length of project road portion falling Jaldapara Wild Life Sanctuary (km 85.022 to 87.900)</li> </ul> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>• Necessary training to workers not hunt the animals and birds in Jaldapara Wild Life area.</li> <li>• Ensure Elephant underpasses are constructed as per specifications.</li> <li>• Noise barrier wall about 3 m height in the form of fibre sheet in entire length of project road falling in Jaldapara Wild Life Sanctuary.</li> </ul>		
2.31	Occupational Safety and Health	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>• Construction worker will be provided with personal protective equipment (PPE) such as ear plugs, helmets, safety shoes, gloves etc.</li> </ul> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>• The contractor will ensure adequacy and availability of PPEs</li> </ul>	<ul style="list-style-type: none"> <li>• All construction workers are provided training for use of PPE and tool box meetings are regularly conducted. Few photographs indicating use of PPE are as below.</li> </ul>	<ul style="list-style-type: none"> <li>• PPE are being issued on a regular basis to all workers. The number of PPE issued during the reporting period of June 2015 to December 2015 is provided in the <b>Annexure - 6</b></li> </ul>

				
			<ul style="list-style-type: none"> <li>The number of PPE issued during the reporting period of June 2015 to December 2015 is provided in the <b>Annexure - 6</b></li> </ul>	
2.32	Siltation in to water Bodies	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>The siltation will be avoided by not storing the construction waste, excavated earth etc. near the banks of surface water bodies.</li> </ul> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>Silt fencing using geo textiles will be provided. The details of silt fencing provided in 3900 m.in AH-48 and 300 m in AH-02</li> </ul>	<ul style="list-style-type: none"> <li>Silt fencing shall be provided for about 300 m along the water bodies that are close to the road.</li> </ul>	<ul style="list-style-type: none"> <li>Silt fencing shall be provided along the water bodies (cumulatively for about 3900 m) in stretches that are close to the road. As work is not being done close to the water bodies at present, these are not being provided</li> </ul>
2.33	Water Bodies and water sources	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>The part filling of a ponds will have only negative impact</li> </ul> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>Any source of water for community such as ponds, wells,</li> </ul>	<ul style="list-style-type: none"> <li>Presently source of water is borewell. No surface water sources are being used and no water body is getting affected due to construction works</li> </ul>	<ul style="list-style-type: none"> <li>Presently source of water is borewell. No surface water sources are being used and no water body is getting affected due to construction works</li> </ul>

		<p>tube-wells etc. lost incidentally shall be replaced immediately.</p> <ul style="list-style-type: none"> <li>All desired measures will be taken to prevent temporary or permanent flooding</li> </ul>		
2.34	Drainage and run-off water	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>The flow of runoff water will not be affected largely, excepting certain stretches where the drainage problem already exists.</li> </ul> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>At cross drainage channels, etc the earth stone or any other construction material shall be properly disposed of so as not to block the flow of water</li> <li>All necessary precaution shall be taken to construct temporary or permanent device to prevent water pollution.</li> </ul>	<ul style="list-style-type: none"> <li>These measures will be undertaken while working close to water bodies</li> </ul>	<ul style="list-style-type: none"> <li>These measures will be undertaken while working close to water bodies</li> </ul>
2.35	Contamination of water from construction wastes	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>All measures will be taken to prevent the waste water produced in construction site from entering directly in to water body as directed by Authority Engineer.</li> <li>Construction works near surface water sources shall be avoided during monsoon</li> <li>The discharge standards promulgated under the Environmental Protection Act,shall</li> </ul>	<ul style="list-style-type: none"> <li>These measures will be undertaken while working close to water bodies</li> </ul>	<ul style="list-style-type: none"> <li>These measures will be undertaken while working close to water bodies</li> </ul>

		<p>be strictly adhered to.</p> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>Condition will be included in contract document</li> </ul>		
2.36	Contamination of water from fuel and lubricants	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>The construction wastes may increase the suspended matter and clay in stagnant water bodies</li> <li>There will be very little increase in toxicity</li> <li>The community dependent on such water used for purpose other than drinking may be affected</li> <li>The fuel and lubricants may affect the both component of water bodies</li> </ul> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>Construction work close to the streams or other water bodies shall be avoided especially during monsoon</li> <li>All waste arising from the project is to be disposed of as per the norms of SPCB</li> <li>Waste products must be collected stored and transferred to disposal location.</li> <li>The slopes of embankment landing to water bodies should be modified and re-canalised so that contaminant may not enter the water body.</li> </ul>	<ul style="list-style-type: none"> <li>These measures will be undertaken while working close to water bodies</li> <li>Measures for provision of drainage are undertaken as part of the layout for camp site.</li> </ul>	<ul style="list-style-type: none"> <li>These measures will be undertaken while working close to water bodies</li> <li>Measures for provision of drainage are undertaken as part of the layout for camp site.</li> <li>Stream passing close to plant site is isolated through barricades to avoid runoff entering the water body</li> </ul>

		<ul style="list-style-type: none"> <li>To avoid contamination from fuel and lubricants the vehicles and equipment shall be properly maintained and refilled</li> </ul>																																																																		
2.37	Use of water for construction	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>The use of water from sources, already in use by local community may cause scarcity of water for community</li> <li>The easy availability of underground water will not affect the water tube</li> </ul> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>Arrangement of supply and storage of water will be made by the contractor in such a way so that the water availability and supply to nearby communities remain unaffected. If a new tube-well is to be bored, proper sanction and approval by Ground water department shall be obtained.</li> <li>The waste of water during the construction shall be minimised.</li> </ul>	<ul style="list-style-type: none"> <li>Water source for Construction water is borewell at the camp and plant sites. The details of sources of water are as below. These pumps are located at the campsites</li> </ul> <table border="1"> <thead> <tr> <th>Sl. No</th> <th>Location</th> <th>Depth (ft)</th> <th>Pump Capacity (hp)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>8+750</td> <td>260</td> <td>7.5</td> </tr> <tr> <td>2</td> <td>9+050</td> <td>240</td> <td>5.0</td> </tr> <tr> <td>3</td> <td>9+777</td> <td>260</td> <td>5.0</td> </tr> <tr> <td>4</td> <td>3+750</td> <td>240</td> <td>5.0</td> </tr> </tbody> </table>	Sl. No	Location	Depth (ft)	Pump Capacity (hp)	1	8+750	260	7.5	2	9+050	240	5.0	3	9+777	260	5.0	4	3+750	240	5.0	<ul style="list-style-type: none"> <li>Water source for Construction water is borewell at the camp and plant sites. The details of sources of water are as below. These pumps are located at the campsites</li> </ul> <table border="1"> <thead> <tr> <th>Sl.No</th> <th>Bore dia (in)</th> <th>Depth BGL (ft)</th> <th>Dsch, lit / min</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>6</td> <td>155</td> <td>30</td> </tr> <tr> <td>2</td> <td>4</td> <td>65</td> <td>15</td> </tr> <tr> <td>3</td> <td>4</td> <td>55</td> <td>15</td> </tr> <tr> <td>4</td> <td>4</td> <td>60</td> <td>20</td> </tr> <tr> <td>5</td> <td>4</td> <td>60</td> <td>20</td> </tr> <tr> <td>6</td> <td>4</td> <td>60</td> <td>20</td> </tr> <tr> <td>7</td> <td>4</td> <td>60</td> <td>20</td> </tr> <tr> <td>8</td> <td>4</td> <td>60</td> <td>20</td> </tr> <tr> <td>9</td> <td>4</td> <td>60</td> <td>20</td> </tr> <tr> <td>10</td> <td>6</td> <td>60</td> <td>35</td> </tr> </tbody> </table>	Sl.No	Bore dia (in)	Depth BGL (ft)	Dsch, lit / min	1	6	155	30	2	4	65	15	3	4	55	15	4	4	60	20	5	4	60	20	6	4	60	20	7	4	60	20	8	4	60	20	9	4	60	20	10	6	60	35
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2.38	Environmental monitoring during construction phase	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>Ambient air quality, water quality, noise and soil quality as per EMOP to be Monitored</li> <li>Monitoring of construction sites arrangements made for protection measures at storage areas,</li> </ul>	<ul style="list-style-type: none"> <li>Monitoring agency having NABL accreditation is being explored. Monitoring will be initiated from February 2016 onwards.</li> </ul>	<ul style="list-style-type: none"> <li>Monitoring agency having NABL accreditation is being explored. Monitoring will be initiated from February 2016 onwards.</li> </ul>																																																																

		<p>drainage arrangement and sanitation at construction camp.</p> <ul style="list-style-type: none"> <li>• Inspection of construction camps for sanitation.</li> </ul> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>• Environment monitoring for pollution control shall be as per Environment Monitoring Plan.</li> <li>• Record will be maintained for reporting and for future reference.</li> </ul>		
2.39	Biodiversity Assessment in Jaldapara Wild Life Sanctuary at Midterm of construction phase	<p><b>Enhancement / Mitigation Measures:</b></p> <ul style="list-style-type: none"> <li>• Biodiversity Assessment through an external expert at the midterm of construction to assess any damage or changes in the biodiversity in 3 km distance on either side in area due to construction</li> </ul> <p><b>Management Action:</b></p> <ul style="list-style-type: none"> <li>• The assessment will help to adopt more strict supervision and monitoring if any damage major changes are observed in comparison to baseline scenario</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>	<ul style="list-style-type: none"> <li>• Bio-diversity assessment will be conducted at the required stage of the construction works as per the EMP</li> </ul>


### 5.3 Pollution Monitoring as per the EMOP


Pollution monitoring for both the packages of AH-02 and AH-48 has not yet been initiated by the EPC contractors. The contractors are seeking quotations from NABL accredited laboratories for conduct of the monitoring. It is envisaged to conduct monitoring at 6 locations in each package to get a representative sample of the air, water, noise and soil quality along the corridors. The contractors have been advised to choose monitoring locations that would represent urban / semi-urban, rural, forest and other sensitive land uses apart from locations at their respective campsites / plant sites. Contractors have also been advised to select locations and inform the AE/EMWCA/AE as well as PIU for their consensus. Monitoring is scheduled to be initiated from January 2016 onwards representing the winter season. All parameters and locations will be incorporated into the final Environmental Monitoring Plan (EMOP) that will be updated by the contractors for implementation as part of the EMP.

### 5.4 Training & Capacity Building

Training and capacity building is an integral part of the EMP implementation. ISC and EMWCA are involved in training of the contractor's staff, Authority Engineer and PIU environment officers who are designated for supervision of EMP implementation. Two sessions of training have been conducted so far in the reporting period. First session is conducted by the ISC on Environmental Management and EMP Implementation and second session is conducted by the EMWCA on wild life management in the project corridors. The details of training are summarised in the Table 5-3 below.

**Table 5-3: Training details for Environmental Management**

Sl. No.	Training Session.	Topics Covered	No. of Participants / Remarks
1	September 15, 2015, Session I, Environmental Management	<ul style="list-style-type: none"> <li>• Overview of Rules and Regulation Adopted by MoEFCC and ADB Safeguards</li> <li>• Discussion on Relevant Rules and Regulations / Environmental Clearances required</li> <li>• Wild life Management in SRCIP</li> <li>• Environmental impact identification / assessment as per ADB guidelines and</li> <li>• Environmental Mitigation / Management Measures</li> <li>• Environmental Management Plan (EMP) Implementation - Roles and Responsibilities</li> <li>• Environmental Monitoring Measures</li> <li>• Environmental Safeguard provisions in the Bid Document</li> </ul>	17 Nos. Representatives from the Contractors of AH-02 and AH-48, Authority Engineer and PIU.  
2	September 15, 2015, Session II,	<ul style="list-style-type: none"> <li>• Meanings of some important terminology</li> </ul>	

Sl. No.	Training Session.	Topics Covered	No. of Participants / Remarks
	Wild life Management	<ul style="list-style-type: none"> <li>• Forest &amp; WL Clearances involved in the projects</li> <li>• Flora, Fauna &amp; Protected Areas in the project area</li> <li>• Impacts due to the Project</li> <li>• Mitigations as per EIA Report</li> <li>• Some Good Mitigation Practices</li> <li>• EMP as per Contract</li> <li>• EMoP as per Contract</li> </ul>	

### 5.5 Safety Drills and Tool Box Meetings

Regular safety drill and mock fire fighting sessions are being organised by both the EPC contractors of AH-02 and AH-48. The Environment, Health and Safety officers of both the packages have been adequately staffed to undertake safety measures and fire fighting in case of an incidence. Fire fighting arrangements are in place at the plant sites and camp sites of both the contractors and are found to be maintained in satisfactory and functional condition. Likewise tool box meetings are also being regularly conducted to ensure adequate awareness for the staff, labour and other workers in the project. The details of safety drills and tool box meetings conducted are presented in the Table 5-4

Table 5-4: Details of Safety drills and Tool Box Meetings

Sl.No.	Package / Location / Date of Meeting / Safety Drill	Agenda / No. of Participants	Remarks / Photographs
1.	Package AH-02, Naxalbari Camp, December 8 <sup>th</sup> 2015,	Fire Safety Mock Drill 15 Nos. from various divisions of the contractor	
2.	AH-48, Mainagudi camp, December 16 <sup>th</sup> 2015	Agenda 1: Safe driving in construction sites, training to the drivers  Agenda 2: Tool box talk  No. of Participants: 40 – All are staff of the contractor	
3.	AH-48, Mainagudi camp, July 18 <sup>th</sup> 2015	Fire Safety Mock Drill 30 Nos. from various divisions of the contractor	




Sl.No.	Package / Location / Date of Meeting / Safety Drill	Agenda / No. of Participants	Remarks / Photographs
			

### 5.6 Cleanliness Drives / Campaigns on Environment

As it has been realised over the last few years of working on several construction projects, that “a clean site is a safe site”, several efforts have been undertaken to ensure cleanliness across all construction sites as well as camp sites. Cleanliness drives and safety campaigns are organised by the contractors of AH-02 and AH-48 to implement the above motto. In addition, to increase the awareness of the environment and safety amongst the workers and staff of the project, World Environment Day on June 05<sup>th</sup> 2015 has also been organised by the AH-48 environment and safety staff. Details of the campaigns conducted are indicated in the Table 5-5 below.

Table 5-5: Details of Cleanliness Drives





Sl.No.	Package / Location / Date of Cleanliness Drives / Campaigns	Agenda / No. of Participants	Remarks / Photographs
1.	Package AH-02, Naxalbari Camp, December 8 <sup>th</sup> 2015,	Cleanliness campaign  5 Nos. from various divisions of the contractor	
2	Package AH-48, World Environment Day, June 05 <sup>th</sup> 2015	Training and awareness amongst the project staff on environment and safety. Participated by Approx – 70 Nos of participants across various divisions of the contractor	

### 5.7 Health Camps / HIV / AIDS Campaigns

Health of workers is given utmost priority in the project. The contractors have also been responding appropriately by conduct of health camps for regular health checks. Spreading of HIV / AIDS awareness amongst the workers is also very much important to safeguard them

from the risk of contracting or transferring the infections including STDs. Contractors of AH-02 are identifying the NGOs who can conduct the awareness campaigns on a regular basis. It is anticipated that the HIV / AIDS awareness campaigns will be initiated from January 2016 onwards in the AH-02. The contractor of AH-48 have organised health camps and HIV / AIDS Campaigns in their respective packages. The details of these camps are indicated in the Table 5-6 below.

**Table 5-6: Details of Health Camps and HIV / AIDS campaigns**

Sl.No.	Package / Location / Date of Health Camps / HIV AIDS Campaigns	Agenda / No. of Participants	Remarks / Photographs
1.	Package AH-48, Mainagudi camp, December 1 <sup>st</sup> 2015,	<p>HIV / AIDS Awareness campaign</p> <p>In the evening of the day, an audio visual programme on the AIDS awareness has also been organised.</p> <p>No. of Participants: 40 Nos across all divisions of the contractor</p>	  
2	Package AH-48, Mainagudi camp, December 30 <sup>th</sup> 2015,	<p>Health camp for the workers</p> <p>No. of Participants: 40 Nos across all divisions of the contractor</p>	

### **5.8 Any other Environmental Aspects / Impacts Observed that are not covered earlier**

There are no environmental impacts or other environmental aspects that have not been addressed in the EMP is being encountered so far in any of the contract packages.

## **6 Details of Public Complaints / Grievances and their addressal**

Public complaints and grievances in both the packages mostly relate to the compensation and assistance provided to the affected persons. Only one location at km 45 pertaining to the dust pollution as discussed in previous chapter has been encountered. It has been subsequently been resolved by increasing the frequency of watering. However, the contractors have been advised to maintain a complaint register and display a notice for the same for public to register their grievance with them in case of any complaints. Any complaints if received and reported by the contractor in the due course of the project will be duly summarised and presented from the next semi-annual environmental monitoring report.

## **7 Follow up Actions and Conclusions**

It has been observed that most of the measures suggested in the EMP are being implemented by the contractors. The contractors have not yet submitted their final EMPs though the Draft EMP is reviewed by ISC and copy of the same is given to the Contractor. The environmental monitoring has also not yet been initiated by the contractors of both the packages. They have been intimated accordingly about these lapses in EMP & environmental monitoring to be addressed immediately. Monitoring reports by the EMWCA to be initiated and submitted accordingly to different stakeholders of the project. These actions will be followed up and improvements will be reported in the further semi-annual environmental monitoring reports.

# **Annexures**

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**Annexure 1: Tree Cutting Permit of AH-02**

Government of West Bengal  
 Directorate of Forests  
 Office of the Divisional Forest Officer  
 Kurseong Division, Darjeeling 734204  
 Phone No: 0354-2332200; Fax No: 0354-2332200; Email: dfokgndowhill@gmail.com

No: 2452 / 28-15

Dated, Kurseong the, 24-11-2014

**From ::** The Divisional Forest Officer  
Kurseong Division

**To ::** The Executive Engineer  
N.H. Division No.IX  
Public Works (Roads) Directorate  
Siliguri, Dist Darjeeling.

**Sub ::** Widening of Kakarbhatta-panitanki-Fulbari-Changrabandha Road (Asian Highway-2) to 2/4 laning with Financial Assistant from Asian Development Bank (ADB).

**Ref ::** Our office letter No.2418/8-14, dated 20.11.2014.  
Your office memo no. A-57/1368, dated 21.11.2014.

\*\*\*\*\*

In continuation to the above mentioned letters, marking of trees under the jurisdiction of Bagdogra and Tukriajhar Range has been completed.

Felling permission for 1043 trees under Tukriajhar Range (179 trees under Block Land and Land Reform Officer, Khoribari and 864 trees under Block Land and Land Reform Officer, Naxalbari) and 1391 trees under Bagdogra Range (514 trees under Block Land Reform Officer, Naxalbari and 877 trees under Block Land and Land Reform Officer, Matigara) is hereby accorded.

The new marking list prepared by us and cross checked is enclosed for ready reference and taking necessary action.

*Sd/-*  
 Divisional Forest Officer, 24.11.2014  
 Kurseong Division.

No. /

Dated, Kurseong the 2014.

Copy forwarded for information and taking necessary action to:

1. The District Magistrate, Darjeeling.
2. The Sub-Divisional Land and Land Reform Officer, Siliguri.
3. The Block Land and Land Reform Officer, Khoribari, Naxalbari, Matigara.
4. The Range Officer, Tukriajhar Range.
5. The Range Officer, Bagdogra Range.

*Sd/-*  
 Divisional Forest Officer,  
 Kurseong Division.

*hwl jantn*



Government of West Bengal  
Directorate of Forests  
Office of the Divisional Forest Officer  
Kurseong Division, Darjeeling 734204



Phone No: 0354-2332200; Fax No: 0354-2332200; Email: [dfokgudowhill@gmail.com](mailto:dfokgudowhill@gmail.com)

No. / , Kurseong, the 2015.

From :: The Divisional Forest Officer  
Kurseong Division

✓ To :: The Project Director(AH-02)  
Project Implementation Unit-II  
P.W.(Roads) Directorate.

Sub :: Permission for trees felling (addl) for trees in ROW for widening and strengthening of akarbhitto-Panitanki-Phulbari-Banglabandhan Road (AH-2)-reg.

Ref :: Your memo no. ADB/AH-2/Tree/191, dated 12.06.2015.

With reference to above, marking of 59 trees has been completed by the Range Officer Tukriajhar Range.

Felling Permission for 59 trees under Tukriajhar Range is hereby accorded. You are requested to pay the Marking cost of 2493 trees (2434 trees earlier marked and 59 trees) @ Rs 25 amounting to RS. 62325/- (Rupees Sixty two thousand three hundred twenty five) only to the undersigned. The security cost of 2493 trees @ RS 40 /per trees amounting RS. 99720/- (Rupees ninety nine thousand seven hundred twenty) only has to be paid to the undersigned. The total amount 162045/- (Rupees one lakh sixty two thousand forty five) only has to be paid to us.

This for you information and taking necessary action.

Sd/-  
Divisional Forest Officer,  
Kurseong Forest Division.

No. 1734 / 3-14 , Kurseong, the 22.7 2015.

Copy forwarded for information and taking necessary action to:

1. The Addl. Principal Chief Conservator of Forest North Bengal.
2. The General Manager, Siliguri, Forest Development Corporation Division.
3. The Chief Conservator of Forest, Hill Circle, West Bengal.
4. The Sub- Divisional Land and Land Reform Officer, Siliguri
5. The Block Land and Land Reform Officer, Naxalbari
6. The Range Officer, Tukriajhar Range.

Action taken

1/3/15

File

Tree

Sd/-  
Divisional Forest Officer,  
Kurseong Forest Division.

2014

Permit no - 32 / AM of 2014-15

**THE KOLKATA GAZETTE, EXTRAORDINARY, FEBRUARY, 9, 2007**

**FROM III**

**Form for Permission for Felling / Disposing of Trees in Non – Forest Areas  
[ See Rule 5 ( 2 ) ]**

Permit No .....

Dated : .....

Whereas the applicant, Smt / Smt / Messrs. Acting Project Director .....

Address : SASEC Road Connectivity Project, Project Implementation Unit, has  
P.W. (Roads) Directorate, Siliguri,  
submitted an application with the prescribed fee on .....

Disposing of trees for the purpose of ..... at the following site :

- (a) Location : Kaukaghat Bridge to Bangladesh Border, (Banglabandha Road),
- (b) Details of Plot (s) of Land : Both Side,

AND Whereas the undersigned is satisfied with regard to the legality of documents towards the proof of ownership or lease of the land on which such tree stands ;

AND Whereas the purpose for which the trees are required to be felled is in conformity with rule 4 (1) of the West Bengal Trees ( Protection and Conservation in Non – Forest Areas ) Rules , 2006 :

AND Whereas an inquiry in the prescribed manner has been carried out on ..... and the undersigned has examined the inquiry report with due care ;

AND Whereas the land in question belongs to the ..... Tea Garden and the applicant has produced a specific scheme under the provisions of the Plantations Labour Act , 1951 for utilizing the sale proceeds strictly for the purpose of welfare of the labourers ;

AND Whereas the applicant is a developer who has already obtained a Certificate of Clearance No. .... dated ..... Issued by the undersigned and sanction of the building / construction plan by the sanctioning authority , viz ..... vide his letter No . .... Dated .....

AND Whereas it is found on inquiry that the proposed felling will not alter nature or character or mode of use of the land .

OR

The Applicant has produced the required permission under section 4C of the West Bengal Land Reforms Act, 1955 .





Annexure 2: Tree Cutting Permit of AH-48

(11)  
Form III

15

Form for permission for felling/ disposing of trees in non-forest areas  
[See Rule 5 (2)]

Permit No. 138/Num - of 15-15

Dated: 1/2/15

Whereas the applicant, Sri/Smt./Messrs Project Director  
Address : Anjan Hill Camp, A.P. Project, and Executive Engineer  
Submitted an application with the prescribed fee on Construction side of P.W.D. Road for permission for  
felling/disposing of trees for the purpose of Construction of Road at the following site :  
(a) Location: Jhunan to Kapanu Bridge.  
(b) Details of plot(s) of land: Nil

AND whereas the undersigned is satisfied with regard to the legality of documents towards the proof of ownership or lease of the land on which such tree stands;

AND Whereas the purpose for which the trees are required to be felled is in conformity with rule 4 (1) of the west Bengal trees (protection and conservation in non-forest areas) rules, 2006:

AND whereas an inquiry in the prescribed manner has been carried out on .....  
And the undersigned has examined the inquiry report with due care;

AND whereas the land in question belongs to the ..... Tea garden and the applicant has produced a specific scheme framed under the provisions of the plantations labor act, 1951 for utilizing the sale proceeds strictly for the purpose of welfare of the laborers;

AND Whereas the applicant is a developer who has already obtained a certificate of clearance no .....  
Dated..... issued by the undersigned and sanction of the building/construction plan by the sanctioning authority, viz ..... Vide his letter no .....  
Dated .....

AND whereas it is found on inquiry that the proposed felling will not alter nature or character or mode of use of the land.

OR

The Applicant has produced the requisite permission under section 4C of the West Bengal Land reforms Act, 1955.

(12)  
AND whereas the applicant has deposited the prescribed security amount for plantation trees to the undersigned.

OR

The applicant has been exempted by the undersigned from the obligation of plantation of trees under sub-rule (2) of rule 6 of the West Bengal Trees (Protection and Conservation in Non-Forest Areas ) Rules,2006.

OR

The applicant has expressed his inability to undertake the plantation to trees by himself and has deposited to the undersigned the amount for the designated agency as prescribed under sub-rule (3) of rule 6 of the West Bengal Trees (Protection and Conservation in Non-Forest Areas ) Rules,2007.

OR

The applicant is a developer and not required to deposit the security amount .

- Strike off if not applicable.
- Strike off the option which is not applicable.

Now, therefore in persons to the power conferred under sub-section(1) of section 5 of the West Bengal Trees (Protection and Conservation in Non-Forest Areas ) Act, 2006 , the undersigned permits the applicant to undertake the filling of the Trees as included in the Annexure .

The undersigned also permits the applicant (not a developer ) under the first proviso to section 8 of the West Bengal Trees (Protection and Conservation in Non-Forest Areas ) Act,2006 to plant only ----- number of trees instead of the number prescribed under sub-rule (1) of rule 6 of the West Bengal Trees (Protection and Conservation in Non-Forest Areas ) rules 2007 . OR permits the applicant to plant ..... Number of trees over different plots (s) of land (as indicated in condition No. 3 below ) because (give reasons ) .....

Which is in conformity with sub-rule (2) of rule 6 of the West Bengal Trees (Protection and Conservation in Non-Forest Areas ) Rules, 2007 .

The permission as given above is subject to the following conditions .

This permit is non transferrable and valid only up to ..... 95 (NINETY FIVE) Days.

1) The applicant ( if a developer ) shall take up plantation of trees in accordance within ..... Month(s) from the date of sanction of the building / construction plan by the sanctioning authority .

2) The applicant ( if not developer ) shall take up plantation of 2840 number of trees ..... over the plot(s) No. Same Land ..... Within 9 months from the date of issue of this permit .



(13)

- 3) As provided in section 10 of the West Bengal Trees (Protection and Conservation in Non-Forest Areas ) Act 2006 the applicant ( if not a developer ) shall start preparatory work for plantation within Sixty days from the date of receipt of directions from the undersigned as the case may be and shall undertake plantation for trees in accordance with such directions .
- 4) The applicant shall inform the undersigned in writing immediately on completion of the plantation of trees .
- 5) The applicant shall within a week of carrying out felling of trees submit a report to the undersigned indicating the total number of logs and firewood produced against each species .
- 6) Stamps of the felling trees shall be retained for a last one month from the date of felling .
- 7) The felling and carriage of trees shall not be carried out after the sun-set and before the sun-rise .
- 8) This permission is subject to the provisions of the West Bengal forest (establishment and Regulation of saw mills and other wood-based industries) Rules ,1982 and the West Bengal Forest Produce Transit Rules,1959.
- 9) This permit should be produced for inspection on demand to the undersigned or any of the authorities specified in section 15 and 17 of the West Bengal Trees ( Protection and Conservation in Non -Areas ) Act, 2006.

Tree list- As per Annexure

Scheduled tree- 97 Nos

Non-scheduled tree - 1323 Nos.

Total = 1420 Nos.

  
( Signature of the Competent Authority )

Name : Ajay Kumar GhoshDesignation : Range Officer  
Moraghat Range

Official Seal : .....

Strike off if not applicable.

Application No. 33/DLG (NFC) dt: 10/10/14  
 Vide R.T. No. WB/5 798817/7989 dt: 10/10/14.  
 Plantation Cost: R.T. No. 24743/248 dt: 02/2/15.

(11)

**FORM - III****Form for Permission for Felling / Disposing of Trees in Non Forest Areas**

[See Rule 5(2)]

Permit No. 74/DLG (NFC)Dated: 02/02/2015

Whereas the applicant, Shri/Smt./Messrs Acting Project Director, Public Works (Road)  
 Address: 3rd Floor, Joymoni Bhawan, Hillcart Road, Siliguri (West Bengal)  
 has submitted an application with the prescribed fee on 10/10/14 for permission for  
 felling / disposing of trees for the purpose of \_\_\_\_\_ at the  
 following site:

(a) Location: NH.31 Road Side Kalua Bridge to Panamgoria Birpara,  
 (b) Details of Plot(s) of land: \_\_\_\_\_

AND Whereas the undersigned is satisfied with regard to the legality of documents towards the proof of ownership or lease of the land on which such tree stands;

AND Whereas the purpose for which the trees are required to be felled is in conformity with rule 4(1) of the West Bengal Trees (Protection & Conservation in Non Forest Areas) Rules, 2007;

AND Whereas an inquiry in the perceived manner has been carried out on \_\_\_\_\_ and the undersigned has examined the inquiry report with due care;

AND Whereas the land in question belongs to \_\_\_\_\_ Tea Garden and the applicant has produced a specific scheme framed under the provisions of the Plantations Labour Act, 1951 for utilizing the sale proceeds strictly for the purpose of welfare of the labourers;

AND Whereas the applicant is a developer who has already obtained a Certificate of Clearance No. \_\_\_\_\_ dated \_\_\_\_\_ issued by the undersigned and sanction of the building/construction plan by the sanctioning authority viz. \_\_\_\_\_ vide his letter No. \_\_\_\_\_ dated \_\_\_\_\_

✓ AND Whereas it is found on inquiry that the proposed felling will not alter nature or character of mode of use of the land.

OR

The applicant has produced the requisite permission under section 4C of the West Bengal Land Reforms Act, 1955,

AND Whereas the applicant has deposited the prescribed security amount for plantation of trees to the undersigned.

OR

The applicant has been exempted by the undersigned from the obligation of plantation of trees under sub- rule (2) of rule 6 of the West Bengal Trees (Protection and Conservation in Non Forest Areas) Rules, 2007.

OR

✓ The applicant has expressed his inability to undertake the plantation of trees by himself and has deposited to the undersigned the amount for the designated agency as prescribed under sub- rule

(3) of rule 6 of the West Bengal Trees (Protection and Conservation in Non Forest Areas) Rules, 2007.

**OR**

The applicant is a developer and not required to deposit the security amount.

\* Strike off if not applicable.

\*Strike off the option which is not applicable.

Now, therefore, in persons to the power conferred under sub-section (1) of section 5 of the West Bengal Trees (Protection and Conservation in Non-Forest Areas) Act, 2006, the undersigned permits the applicant to undertake the felling of the trees as included in the Annexure.

The undersigned also permits the applicant (not a developer) under the first proviso to section 8 of the West Bengal Trees (Protection and Conservation in Non-Forest Areas) Act, 2006 to plant only \_\_\_\_\_ number of trees instead of the number prescribed under sub-rule (1) of rule 6 of the West Bengal Trees(Protection and Conservation in Non-Forest Areas) Rules, 2007. **OR** permits the applicant to plant \_\_\_\_\_ number of trees over different plot(s) of land (as indicated in condition No. 3 below) because (give \_\_\_\_\_ reasons) \_\_\_\_\_, which is in conformity with sub-rule (2) of rule 6 of the West Bengal Trees(Protection and Conservation in Non-Forest Areas) Rules, 2007;

The permission as given above is subject to the following conditions:-

This Permit is non-transferable and valid only up to \_\_\_\_\_.

1. The applicant (if a developer) shall take up plantation of trees in accordance with the approved plantation plan and the Certificate of Clearance within \_\_\_\_\_ months(s) from the date of sanction of the building / construction plan by the sanctioning authority;
2. The applicant (if not a developer) shall take up plantation of \_\_\_\_\_ number of trees over the Plot(s) No. \_\_\_\_\_ within \_\_\_\_\_ months from the date of issue of this permit;
3. As provided in section 10 of The West Bengal (Protection and Conservation in Non-Forest Areas) Act, 2006, the applicant (if not a developer) shall start preparatory work for plantation within sixty days from the date of permit or the date of receipt of directions from the undersigned, as the case may be, and shall undertake plantation for trees in accordance with such direction;
4. The applicant shall inform the undersigned in writing immediately on completion of the plantation of trees;
5. The applicant shall, within a week of carrying out felling of trees, submit a report to the undersigned indicating the total number of logs and firewood produced against each species;
6. Stumps of the felled trees shall be retained for at least one month from the date of felling;
7. The felling and carriage of trees shall not be carried out after the sun-set and before the sun-rise.

8. This permission is subject to the provisions of the West Bengal Forest (Establishment & Regulation of Saw Mills and Other wood Based Industries) Rules, 1982 and The West Bengal Forest Produce Transit Rules, 1959.

9. This permit should be produced for inspection on demand to the undersigned or any of the authorities specified in sections 15 and 17 of The West Bengal Trees (Protection and Conservation in Non-Forest Areas) Act, 2006.



( Signature of the Competent Authority )

Name : Rajib De EK

Designation : Forest Ranger

\* Strike off if not applicable.

Official Seal :



Forest Range Officer  
Jalpaiguri Division

ANNEXURE TO FORM -III

Permit No. 74/DLG (NOC)

Dated 02/2/2015

No. of tree.	Location (Plot No.)	Species	DBH (in cms.)	Condition of the Tree
532 Nos				Standing.
Abstract				
1. Sirish 2 36 Nos			16. Bait 207 Nos.	
2. Pilali 2 43 "			17. Shagun, Teak 2 13 "	
3. Arjun 2 44 "			18. Tatal 2 07 "	
4. Mehagani 2 32 "			19. Krishnachand 2 12 "	
5. Mingiri 2 100 "			20. Robor 2 07 "	
Mango (Am) 2 22 "			21. Boyra 2 03 "	
6. Pakud 2 39 "			22. Lali 2 08 "	
7. Simul 2 09 "			23. Korai 2 07 "	
8. Jarul 2 40 "			24. Akshaymodi 2 04 "	
9. Katal 2 12 "			25. Chapra 2 01 "	
10. Jum 2 07 "			26. Shisu 2 01 "	
11. Skatim 2 12 "			27. Uclaptary 2 01 "	
12. Gamar 2 05 "				
13. Kukut 2 47 "				
14. Mumjul 2 13 "				

Grand Total 2532 Nos.

Place : Biopara

Date :

(Signature of the Competent Authority)

Name : Rajib De FR.

Designation : Forest Ranger

Official Seal :





(16)

**GOVERNMENT OF WEST BENGAL  
DIRECTORATE OF FORESTS  
OFFICE OF THE RANGE OFFICER,  
MADARIHAT RANGE,  
JALDAPARA DIVISION  
Ph. 03563-262227**

**Form - III**

**Form for permission for Felling / Disposing of trees in Non-Forest areas  
[See Rule 5(2)]**

Permit No. 81/MDT of 14-15 Dated. 03.01.2015.

Whereas the applicant, Sri / Smt / Messrs Executive Engineer, Construction Division  
PWD (Roads) Directorate, Ananda Nagar, Mynaguri, Jalpaiguri,  
Address Mynaguri, Dist. Jalpaiguri. has  
submitted the application with the prescribed fee on Rs. 1000.00 vide D.D. No. 000405 dt. 29.12.14.  
for permission for  
Felling / disposing of trees for the purpose of Making Road Named Asian Highway - 48  
at  
the

following site:

(a) Location : Birpara to Jaigaon (Except Govt Land and Private Land)

(b) Details of plot(s) of land :  
71m 94.000 to 108.000 (LHS)  
104.000 to 108.000 (RHS)  
65.550 to 90.000 (LHS)  
65.550 to 90.000 (RHS)

**AND Whereas** the undersigned is satisfied with regard to the legality of documents towards the proof of ownership or lease of the land on which such trees stands.



**AND** Whereas the purpose for which the trees are required to be felled is in conformity with rule 4(1) of the West Bengal Trees (Protection and Conservation in Non-Forest Areas) Rules, 2006.

**AND** Whereas an inquiry in the prescribed manner has been carried out on .....and the undersigned has examined the inquiry report with due care.

**AND** Whereas the land in question belongs to the ..... Tea. Garden and the applicant has produced a specific schemed framed under the provisions of the Plantations Labour Act, 1951 for utilizing the sale proceeds strictly for the purpose of welfare of the labourers.

**AND** Whereas the applicant is a developer who has already obtain a Certificate of Clearance No. .... Dated ..... issued by the undersigned and sanction of the building / construction plan by the sanctioning authority, Viz ..... vide his letter No. .... Dated .....

**AND** Whereas it is found on inquiry that the proposed felling will not alter nature or character or mode of use the land.

**OR**

The Applicant has produced the requisite permission under Section 4C of the West Bengal Land Reforms Act, 1995.

**AND** Whereas the applicant has deposited the prescribed security amount for plantation of trees to the undersigned.

**OR**

The applicant has been exempted by the undersigned from the obligation of plantation of trees under subrule (2) of rule of the West Bengal Trees (Protection and Conservation in Non-Forest Areas) Rule 2006.

**OR**

The applicant has expressed his inability to undertake the plantation to trees by himself and has deposited to the undersigned the amount for the designated agency as prescribed under sub-rule (3) or rule 6 of the West Bengal Trees (Protection and Conservation in Non-Forest Areas) Rules, 2007.

**OR**

The applicant is a developer and not required to deposit security amount.

Strike off if not applicable.

Strike off the option which is not applicable.

Now, therefore, in persons to the power conferred under sub-section (1) of section 5 of the West Bengal Trees (Protection and Conservation in Non-Forest Areas) Act, 2006, the undersigned permits the applicant to undertake the felling of the trees as include in the Annexure.


The undersigned also permits the applicant the (not a developer) under the first proviso section 8 of the W.B. Trees (Prop. and Conser. In Non-Forest Areas) Act, 2006, to plant only ..... number of trees instead of the number prescribed under sub-rule (1) of the W .B. Trees (Prop. and Conser. In Non-Forest Areas) Act, 2007. **OR** permits the applicant to plant .....number of trees over different plot(s) of land (as indicate in condition no. 3 below) because (give reason) ..... which is in conformity with sub-rule (2) of rule 6 of the West Bengal Trees (Protection and Conservation in Non-Forest Areas) Rule, 2007.

***The permission as given is subject to the following condition :***

This permit is non-transferable and valid only up to ..... 01 st February / 2015 .....

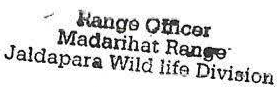
1. The application (if a developer) shall take up plantation of trees in accordance with the approved plantation plan and the certificate of clearance within ..... month(s) from the date of sanction of the building / construction plan by the sanctioning authority.
2. The applicant (if not a developer) shall take up plantation of ..... number of trees to be plant over the plot(s) No. .... within ..... months from the date of issue of this permit.
3. As provided in section 10 of the West Bengal Trees (Protection and Conservation in Non-Forest Areas) Rules, 2006, the applicant (if not a developer) shall start preparatory work of the plantation within sixty days for. plantation within sixty days from the date for permit or the date of receipt of directions from the undersigned, as the case may be and shall undertake plantation for trees in accordance with such directions.
4. The applicant shall inform the undersigned in writing immediately on complition of the plantation of trees.
5. The applicant shall, within a week of Carrying out felling of trees, submit a report to the undersigned indicating the total number of logs and firewood produced against each species.
6. Stumps of the felled trees shall be retained for at least one month from the date of felling.
7. The Felling and carriage of trees shall not be carried out after the sun-set and before the sunrise.
8. This permission is subject to the provisions of the West Bengal Forest (Establishment and Regulation of Saw Mills and other wood-based Industries) Rules, 1982 and the West Bengal Forest Produce Transit Rules, 1959.

This permit should be produced for inspection on demand to the undersigned or any of the authorities specified in section 15 & 17 of the West Bengal Trees (Protection and Conservation in Non-Forest Areas) Act, 2006.

  
(Signature of the Competent Authority)

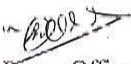
Name SRI P.K. DAS

Designation FR

Official seal: 

No. 04 /MD-28; Date, Madarihat, the 03.01.2015 2008

Copy along with- Annexure of Form-III forwarded for information & necessary action to Sri / Smt / Manager The Executive Engineer, Construction Division, PWD (Roads), Directorate, Ananda nagar, Mayapuri, Station Road, Mayapuri, Dist. Jalpaiguri.

  
Range Officer,  
Madarihat Range  
Jaldapara Division

**ANNEXURE OF FORM-III**

Permit No. 81/MDT of 14-15

Date 03.01.2015

Number of Tree	Location (Plot No.)	Species	Diameter at Breast Height (in cm)	Condition of the tree

*Attached in prescribed format*

**ABSTRACT**

<u>Species</u>	<u>Total No. of Trees</u>
A. <u>KM 65.550 to KM 90.00</u>	<u>LMS 774 NOS.</u>
<u>KM 65.550 to KM 90.00</u>	<u>RHS 790 NOS.</u>
B. <u>KM 94.00 to 108.00</u>	<u>LMS 659 NOS.</u>
C. <u>KM 104.00 to 108.00</u>	<u>RHS 127 NOS.</u>
D. ....	.....
E. ....	.....

Grand Total 2350 (Two thousand and three hundred fifty)

*[Signature]*  
(Signature of the Competent Authority)

Name SRI P.K. DAS

Designation FR

Office Seal **Range Officer  
Madarihat Range  
Jaldapara Wild life Division**



No permission No.

AH-48(District-Cooch Behar)

Summary of Tree data (km 0-6)

Sr. No.	Chainage (Km)	Tree Name	< 30 cm	30 to 60 cm	60 to 90 cm	90 to 120 cm	Above 120cm	Total
24		< 30 nut 5+Jiga+kathal	1					1
25		< 30 Payara3 + Neem Flower	1					1
26		< 30 Ucattera Flower	1					1
27		<30 Mango 3 +Tetul Flower	1					1
28		Bamboo Branch	7					7
29		Banana Garden	1					1
30		Bankathali				1 N		1
31		Bon Kathal Flower	1					1
32		Chapa		1 S				1
33		dhop		1 N			1	2
34		Gamari			1 S			1
35		Jalpai			1 N			1
36		Jam		1 N	1 N	1 N	1	4
37		Jarul		2 N	3 N	1 N	1	7
38		Jiga		3 N	7 N	2 N	2	14
39		Jiga 1015 fordewall		1 N				1
40		Kadam		1 N				1
41		Kathal		2 N	9 N		1	12
42		Mango		2 N	7 N	1 N	2	12
43		Neem		1 N	3 N			4
44		Pauya				1 N		1
45		pokul			1 N			1
46		Sheris				1 N		1
47		Shora			1 N			1
48		sisu				3 N	1 S	4
49		Tea Garden	1					1
		<b>Total</b>	<b>39</b>	<b>15</b>	<b>34</b>	<b>11</b>	<b>9</b>	<b>108</b>
		<b>Grand Total</b>	<b>178</b>	<b>119</b>	<b>140</b>	<b>54</b>	<b>81</b>	<b>572</b>

Sch- 3  
N/Sch-6

Application fee ..... 100.00  
 ① Sch. Tree 19 NO @ 80/- Rs=1520.00  
 ② N/Sch. Tree 432 NO @ 40/- Rs=17,280.00  
Rs = 18,900.00

*[Signature]*  
 Forest Range Officer  
 Mekhliganj Range  
 Cooch-Behar Division  
 West Bengal

Hemidhangj Range: 101 Nos  
 (No. permission No.)

**Annexure 3: Certificate of Registration of Principal Employer with Min of Labour, AH-02**

2

REGISTERED WITH A/D

Government of India  
Ministry of Labour & Employment  
Office of the Dy. Chief Labour Commissioner (Central)  
2<sup>nd</sup> M.S. Building, 5<sup>th</sup> Floor, Nizam Palace,  
234/4, A.J.C. Bose Road, Kolkata-700 020.

No. 46/R(31)/2015-E.2 Dated : 25/8/2015.

To,  
The Project Director (AH-02)  
Project Implementation Unit-II  
P.W.(Roads) Directorate  
Vivekananda Bhawan (N.B.D.D.) Building)1<sup>st</sup> Floor  
Siliguri- 734003

Subject : **Contract Labour (Regulation and Abolition) Act, 1970 and the Rules framed thereunder- Issue of Certificate of Registration thereof.**

Dear Sir,

In exercise of the power conferred on me under Sub-Section (2) of Section 7 of the Contract Labour (Regulation & Abolition) Act, 1970 and the rules framed thereunder, I hereby grant you a Certificate of Registration under the same Act to execute the work of "Rehabilitation and upgrading to 2/4 -lane with paved shoulder configuration and Strengthening of Nepal Border (at Banglabandha) comprising of Kakarvitta-Panitanki-Bagdogra-Shibmandir More-Noukaghat-Fulbari-Banglabandha section (totaling 37.271 km0 of AH-02 corridor in the state of West Bengal SASEC Road. Connectivity Investment Programm (Contract No. SRCIP-Mo RTH/WB-AH-02" through different contractors. You are requested to get the Certificate of Registration amended from time to time, as required under rule 18(1) of the above enactment. You are also requested to advise the concerned contractors to obtain licence from this office immediately and also to comply the other provisions under various Labour Laws.

This Certificate of Registration is granted to you without prejudice to any legal action that the department may initiate against you for violation of any of the provisions of the Act & Rules framed thereunder.

Please acknowledge the receipt of the same.

Yours faithfully,  
Encl: as above.

(Dr. A. Narasaiah)  
Assistant Labour Commissioner (Central)  
Kolkata & Registering Officer  
सहायक श्रमायुक्त (केन्द्रीय), कोलकाता  
ASSISTANT LABOUR COMMISSIONER (CENTRAL)

Copy forwarded to:

1. Copy together with a copy of application for Certification of Registration in Form- I forwarded to the LEO(C), KOLKATA – for information.
2. The Dy. Chief Labour Commissioner (Central), Kolkata for information.

(Dr. A. Narasaiah)  
Assistant Labour Commissioner (Central)  
Kolkata & Registering Officer

RECEIVED  
No. 599 Dt. 08.09.15  
Office of the Project Director  
P.I.U.-II  
P.W. (Roads) Dte  
Govt. of West Bengal

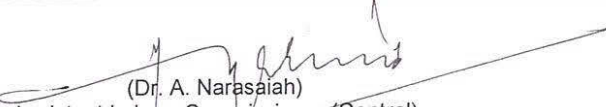
FORM-II  
(See Rule 18(1) )  
Certification of Registration  
Government of India  
Ministry of Labour & Employment  
Office of the Dy. Chief Labour Commissioner(C)  
2<sup>nd</sup> M.S. Building, 5<sup>th</sup> Floor, Nizam Palace,  
234/4, A. J.C. Bose Road, Kolkata-20.

No. 46/R(31)/2015-E.2

Dated : 25/8/2015

A Certificate of Registration containing the following particulars is hereby granted under Sub-section (2) of Sec.7 of the Contract Labour (Regulation and Abolition) Act, 1970 and the rules framed thereunder to The Project Director (AH-02) Project Implementation Unit-II P.W.(Roads) Directorate , Vivekananda Bhawan (N.B.D.D.) Building)1<sup>st</sup> Floor, Siliguri-734003,

1. Nature of work carried on in the establishment	Rehabilitation and upgrading to 2/4 –lane with paved shoulder configuration and Strengthening of Nepal Border (at Banglabandha) comprising of Kakarvitta-Panitanki-Bagdogra-Shibmandir More-Noukaghat-Fulbari-Banglabandha section (totaling 37.271 km0 of AH-02 corridor in the state of West Bengal SASEC Road. Connectivity Investment Programm (Contract No. SRCIP-Mo RTH/WB-AH-02
2. Names and addresses of Contractors	Dineshchandra R. Agarwal Infracon Pvt Ltd. Engineers & Contractors 401, the Grand Mall S.M. Road, Ambawadi, Ahmedabad-380015, Gujarat, India.
3. Nature of work in which contract labour is employed or is to be employed	Rehabilitation and upgrading to 2/4 –lane with paved shoulder configuration and Strengthening of Nepal Border (at Banglabandha) comprising of Kakarvitta-Panitanki-Bagdogra-Shibmandir More-Noukaghat-Fulbari-Banglabandha section (totaling 37.271 km0 of AH-02 corridor in the state of West Bengal SASEC Road. Connectivity Investment Programm (Contract No. SRCIP-Mo RTH/WB-AH-02.
4. Maximum number of contract labour is to employed on any day through each contractor	300 (three hundred)
5. Other particulars relevant to the employment of Contract Labour	DD. NO. 785158 dated 06.08.2015 for Rs.1500/- of State Bank of India,

  
(Dr. A. Narasiah)  
Assistant Labour Commissioner (Central)  
Kolkata & Registering Officer

(Dr. A. Narasiah)  
ASSISTANT LABOUR COMMISSIONER (CENTRAL)  
KOLKATA

**FORM I**

[See Rule 17(1)]

**Application for Registration of Establishments Employing Contract Labour**

1. Name and location of the Establishment : Office of the Project Director (AH – 02)  
Project Implementation Unit- II  
P.W. (Roads) Directorate  
Vivekananda Bhawan 1<sup>st</sup> Floor,  
Siliguri – 734003.
2. Postal address of the Establishment : Office of the Project Director (AH – 02)  
Project Implementation Unit- II  
P.W. (Roads) Directorate  
Vivekananda Bhawan  
1<sup>st</sup> Floor, Siliguri – 734003
3. Full name and address of the principal Employer (Furnish father's name in the case of individuals) : Shri Nirmal Mondal  
S/O – Shri Narendra Nath Mondal  
Project Director (AH – 02)  
Project Implementation Unit- II  
P.W. (Roads) Directorate  
Vivekananda Bhawan  
1<sup>st</sup> Floor, Siliguri – 734003
4. Full name and address of the manager or person responsible for the supervision and control of the Establishment : Shri Gauranga Bhaumik  
Assistant Project Manager  
Office of the Project Director (AH – 02)  
Project Implementation Unit- II  
P.W. (Roads) Directorate  
Vivekananda Bhawan  
1<sup>st</sup> Floor, Siliguri – 73400
5. Nature of work carried on in the Establishment : Rehabilitation and Upgrading to 2/4-lane with paved shoulder configuration and Strengthening of Nepal Border (at Kakarvitta) to Bangladesh Border (at Banglabandha) comprising of Kakarvitta- Panitanki- Bagdogra- Shibmandir More- Noukaghat- Fulbari- Banglabandha section (totalling 37.271 km) of AH-02 corridor in the state of West Bengal SASEC Road Connectivity Investment Program (Contract No.SRCIP – MoRTH/WB- AH- 02).
6. Particulars of Contractors and Contract labour
- a) Names and addresses of Contractors : Dineshchandra R. Agarwal Infracon Pvt. Ltd. Engineers & Contractors  
Dineshchandra R. Agarwal Infracon Pvt. Ltd. Engineers & Contractors,  
401, the Grand Mall  
S.M. Road, Ambawadi  
Ahmedabad – 380015 Gujarat, India  
**Site Office Address –**  
Bolbom Service Centr  
Satbhaiya, Daribasti  
P.O+ P.S. Naxalbari,  
Darjeeling, West Bengal – 734429



b) Nature of work in which contract labour is employed, or is to be employed

: Rehabilitation and Upgrading to 2/4-lane with paved shoulder configuration and strengthening of Nepal Border (at Kakarvitta) to Bangladesh Border (at Banglabandha) comprising of Kakarvitta-Panitanki- Bagdogra-Shibmandir More- Noukaghat- Fulbari-Banglabandha section (totalling 37.271 km) AH-02 corridor in the state of West Bengal under IND (47116)- SASEC Road Connectivity Investment Program (Contract No.SRCIP – MoRTH/WB- AH-02).

(c) Maximum numbers of contract labour is employed on any day through each contractor

: 300 (Approx.)

(d) Estimated date of commencement of each contract work under each contractor.

: 28-05-2015

(e) Estimated date of termination of employment or contract labour and under each contractor

: 22-11-2022

7. Particulars of demand draft enclosed (Name of the

: SBI, Code no.12405 for Rs.15000 drawn in favour of ALC(Central) Kolkata DD No. 785158 dt.6.8.15

Bank, amount, demand draft No. and date);

I hereby declare that the particulars given above are true to the best of my knowledge and belief.

  
Principal Employer  
Seal and Stamp  
Project Director  
Asian Highway-02  
SASEC Road Project  
P.W.(R) Directorate  
Siliguri

Office of the Registering Officer.  
Date of receipt of application.

**Annexure 4: Certificate of Registration of Principal Employer with Min of Labour, AH-48**

(20-1)

Registered A.D.

Govt. of India  
Ministry of Labour & Employment  
Office of the Deputy Chief Labour Commissioner (Central)  
2<sup>nd</sup> M. S. Building, 5<sup>th</sup> floor, Nizam Palace  
234/4, A.J.C. Bose Road, Kolkata - 700 020

Office of the Assistant Labour Commissioner (C), Kolkata  
শ্রম সচিবালয় (কেন্দ্রীয়) ২<sup>নং</sup> উম্মূলন  
The Contract Labour (Regulation and Abolition) Act 1970

NO. 46/R (30 )/2015-E.2

Dated: 18/8/2015

To  
✓ The Project Director,  
Asian Highway 48 Project & Executive Engineer  
Construction Division, Ananda Nagar  
Maynaguri Stackyard Maynaguri, Dist Jalpaiguri  
PIN- 735 224

भारत सरकार / Government of India  
प्रशासक अधिकारी / Registering Officer

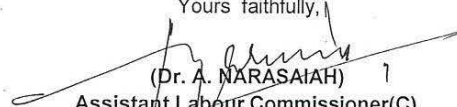
**Subject:-** Contract Labour (Regulation and Abolition) Act, 1970 and the Rules framed thereunder – issued of Certificate of Registration thereof.

Dear Sir,

In exercise of the power conferred on me under Sub-section (2) of Section 7 of the Contract Labour (Regulation & Abolition) Act, 1970 and the rules framed thereunder, I hereby grant you a Certificate of Registration under the same Act to execute the work of "Rehabilitation and upgrading to 2 –lane with paved shoulder configuration and Strengthening of Bhutan Border (at Pasakha) to Bangladesh Border (at Changrabandha) comprising of Jaigam-Hasinara – Dhupguri Section and Mainaguri Changrabandha section (totling 90.568) Km including Pasakha access road of AH-48 corridor in state of West Bengal under IND (47118) SASEC Road Connectivity investment program(SRCIP) " from time to time, as required under rule 18(4) of the above enactment. You are also requested to advise the concerned contractors to obtain licence from this office Immediately and also to comply the other provisions under various Labour Laws.

This certificate of Registration is granted to you without prejudice to any legal action that the department may initiate against you for violation of any of the provisions of the Act & Rules framed thereunder.


Please acknowledge the receipt of the same.


Yours faithfully,  
  
(Dr. A. NARASAI AH)  
Assistant Labour Commissioner(C)  
Kolkata and Registering Officer

Encl: As above.

Copy forwarded to:-  
1. Copy together with a copy of application for Certification of Registration in Form-I forwarded to the LEO@ Siliguri for information.  
2. The Dy. Chief Labour Commissioner (Central) Kolkata for information.

Assistant Labour Commissioner(C)  
Kolkata and Registering Officer







FORM-II  
(See Rule 18(1))  
Govt. of India

सहायक श्रमायुक्त (केन्द्रीय) कोलकाता- 20  
Office of the Assistant Labour Commissioner (C), Kolkata- 20  
श्रम सचिवालय (केन्द्रीय) कोलकाता- 20  
The Contract Labour (Regulation and Abolition) Act, 1970

Ministry of Labour & Employment  
Office of the Deputy Chief Labour Commissioner (Central)  
2<sup>nd</sup> M. S. Building, 5<sup>th</sup> floor, Nizam Palace  
234/4, A.J.C. Bose Road, Kolkata - 700 020



भारत सरकार / Ministry of India  
पंजीकरण अधिकारी / Registering Officer  
Dated: - 18/8/2015

NO. 46/R ( 30 )/2015-E.2

A certificate of Registration containing the following particulars is hereby granted under Sub-section (2) of Sec. 7 of the Contract Labour (Regulation and Abolition) Act, 1970 and the rules framed thereunder The Project Director, Asian Highway 48 Project & Executive Engineer, Construction Division, Ananda Nagar, Maynaguri Stackyard Maynaguri, Dist Jalpaiguri. PIN- 735 224

1. Nature of work carried on in the establishment	Rehabilitation and upgrading to 2 -lane with paved shoulder configuration and Strengthening of Bhutan Border (at Pasakha) to Bangladesh Border (at Changrabandha) comprising of Jaigaon-Hasimara -Dhupguri Section
2. Name and addresses of Contractors	As per list enclosed.
3. Nature of work in which contract labour is employed or is to be employed	Rehabilitation and upgrading to 2 -lane with paved shoulder configuration and Strengthening of Bhutan Border (at Pasakha) to Bangladesh Border (at Changrabandha) comprising of Jaigaon-Hasimara -Dhupguri Section and Mainaguri Changrabandha section (totaling 90.568) Km including Pasakha access road of AH-48 corridor in state of West Bengal under IND (47118) SASEC Road Connectivity investment program(SRCIP)
4. Maximum number of contract labour is to employed on any day through each contractor.	Maximum
5. Other particulars relevant to the employment of Contract Labour.	DD No. 760912 dated 22/7/2015 for Rs. 1500/- of SBI.

(Dr. A. NARASAI AH)  
Assistant Labour Commissioner(C)  
Kolkata and Registering Officer

सहायक श्रमायुक्त (केन्द्रीय), कोलकाता  
ASSISTANT LABOUR COMMISSIONER (CENTRAL)  
KOLKATA

**FORM I**

[See Rule 17(1)]

**Application for Registration of Establishments Employing Contract Labour**

1. Name and location of the Establishment : Project Director,  
Asian Highway – 48 Project &  
Executive Engineer  
Construction Division  
Special Project
2. Postal address of the Establishment : Ananda Nagar,  
Maynaguri Stackyard  
Maynaguri  
Dist: Jalpaiguri
3. Full name and address of the principal Employer  
(Furnish father's name in the case of individuals) : Chief Engineer (P-3)  
Ministry of Road Transport & Highways  
Transport Bhawan  
Parliament Road  
New Delhi
4. Full name and address of the manager or person  
responsible for the supervision and control of the  
Establishment : Deepak Kumar Singh  
Project Director, Asian Highway - 48  
Ananda Nagar, Maynaguri Stackyard  
Dist: Jalpaiguri
5. Nature of work carried on in the Establishment : Rehabilitation and Upgrading to 2-lane  
with paved shoulder configuration and Strengthening of Bhutan Border (at Pasakha) to Bangladesh  
Border (at Changrabandha) comprising of Jaigaon-Hasimara-Dhupguri section and Mainaguri –  
Changrabandha section (totalling 90.568 Km) including Pasakha access road of AH-48 corridor in the  
state of West Bengal under IND (47116)- SASEC Road Connectivity Investment Program (SRCIP)
6. Particulars of Contractors and Contract labour:
- a) Names and addresses of Contractors : Punj Lloyd Ltd.  
Near Indira More  
Uttar Madhabdanga  
Maynaguri  
Dist. Jalpaiguri
- (b) Nature of work in which contract labour  
is employed, or is to be employed : Rehabilitation and Upgrading to 2-lane  
with paved shoulder configuration and Strengthening of Bhutan Border (at Pasakha) to Bangladesh  
Border (at Changrabandha) comprising of Jaigaon-Hasimara-Dhupguri section and Mainaguri –  
Changrabandha section (totalling 90.568 Km) including Pasakha access road of AH-48 corridor in the  
state of West Bengal under IND (47116)- SASEC Road Connectivity Investment Program (SRCIP)
- (c) Maximum numbers of contract labour is  
employed on any day through each contractor : 300
- (d) Estimated date of commencement of each  
contract work under each contractor. : 28-05-2015

(c) Estimated date of termination of employment or contract labour and under each contractor : 22-11-2022

7. Particulars of demand draft enclosed (Name of the Union Bank, amount, demand draft No. and date);

I hereby declare that the particulars given above are true to the best of my knowledge and belief.



Principal Employer  
Seal and Stamp  
**Project Director**  
**Asian Highway- 48 Project**  
&  
**Executive Engineer**  
**Construction Division**  
**Special Project**

Office of the Registering Officer.  
Date of receipt  
of application.

## Annexure 5: PUC of vehicles and machinery, AH-48



PROJECT :BBPDate: 25-12-2015

DOC NO. - PLL.HSE.SP.05.01 F02 -

PUC STATUS OF VEHICLES AND EQUIPMENTS (OWNED & HIRED)					
SL NO	Vehicle/Equipment Type	Registration Number	Belongs to (PLL/Hire/Sub contractor)	PUC Validity	
				FROM	TO
1	Farm Tractor with Dozing Blade and	SK-05-0170	PLL	2/24/2015	23.08.2015
2	Hydraulic Crane	NL-01-G-6382	PLL	2/2/2015	8/1/2015
3	Tyre Mounted Crane	AS01-FC-9232	PLL	2/2/2015	01.08.2015
4	Pick Up - Double Cabin	AS-01Y-9583	PLL	1/8/2015	07.07.2015
5	Tata Pick Up - Double Cabin	AS01-Y-9588	PLL	1/8/2015	07.07.2015
6	Pick Up - Double Cabin	KA-06N-1601	PLL	1/8/2015	07.07.2015
7	Pick Up - Double Cabin	MH-14CP-4423	PLL		01.12.2015
8	Tata Sumo	HR 16B 7371	PLL	2/12/2015	8/11/2015
9	Pick Up - Double Cabin	MH-14CP-4423	PLL		01.12.2015
10	Tata Sumo	HR 16B 7371	PLL	2/12/2015	8/11/2015
11	Tata - Water Tanker	SK-01D - 2379	PLL	10/29/2014	28.04.2015
12	Tipper	SK-01D-2385	PLL	2/24/2015	23.08.2015
13	Tipper	SK-01D-2371	PLL	2/24/2015	23.08.2015
14	Tipper	SK-01D-2369	PLL	2/24/2015	23.08.2015
15	Tipper	SK-01D-0368	PLL	11/15/2014	14.05.2015

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 Name of HSE Incharge

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 Sign

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 Name of P&E Incharge

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 Sign

**Annexure 6: PPE Issued to Worker from June 2015 to December 2015****AH-02: Issue of PPE**

SR NO	ITEM DETAILS	UNIT	TOTAL
1	SAFETY JACKET	NOS	552
2	SAFETY HELMET	NOS	151
3	SAFETY SHOES	NOS	113
4	SAFETY GOGGLES	NOS	13
5	HAND GLOVES	NOS	61
6	DUST MASK	NOS	44

**AH-48: Issue of PPE:**

ITEM DESCRIPTION	JUN	JULY	AUG	SEP	OCT	NOV	DEC	JAN	Total Nos.
RESPIRATORS,NOSE MASK	1	0	0	5	51	116	144	150	467
HAND GLOVES,5 FINGERS,COTTON,8 INCH	9	0	0	18	64	129	334	274	828
HAND GLOVES,5 FINGERS,LEATHER,14 INCH	0	0	0	0	2	6	9	13	30
SAFETY SHOE,LEATHER,ASSORTED(STAFF)	2	0	0	9	15	12	129	33	200
SAFETY HELMET	0	0	0	13	28	30	66	78	215
GUM BOOT	0	0	0	2	4	19	11	19	55
HAND GLOVES,RUBBER,8 INCH	1	0	0	0	8	25	33	41	108
SAFTEY JACKET(GREEN)	0	0	0	14	1	57	103	93	268