

Environmental Monitoring Report

Project Number: 42265-023

January 2018

Period: January 2017 – June 2017

Part A: Main Report (Pages 1 - 69) and Appendices

IND: Assam Urban Infrastructure Investment Program - Tranche 1

Submitted by

Guwahati Development Department and Urban Development Department, Government of Assam

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Asian Development Bank

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No. ADB/AUIIP/IEE/178/2016/153

Date: 8.09.2017 GM A

ASIAN DEVELOPMENT BANK

From,

The Project Director,

Assam Urban Infrastructure Investment Program Ganeshguri, Guwahati-05

To,

The Country Director,

India Resident Mission Asian Development Bank

Sub: Submission of the draft Semi Annual Environment Monitoring Report for the period 1st January 2017 to 30^{th} June 2017.

Sir,

As per the subject sited above, the **draft Semi Annual Environment Monitoring Report for the period (st January 2017 to 30th June 2017,** of Assam Urban Infrastructure Investment Program, is enclosed herewith for review and comment.

This is for favour of your kind information & necessary action.

Enclo: As Stated Above

Your's Faithfully,

Project Director,

Assam Urban Infrastructure Investment Program

Ganechguri, Guwahati-9

Memo. No: ADB/AUIIP/IEE/178/2016/153 A Copy to:

Dated 18.09.2017

- 1) Sri Ashok Srivastava, Sr. Project Officer ,India Resident Mission , ADB, Delhi for information.
- 2) Sri S. Joshi , Principal Urban Development Specialist , Urban Development and water Division , South Asia Division, ADB , for information

Project Director,

Assam Urban Infrastructure Investment Program

Project Director

Assam Urban Infrastructure Israelung in Philiphili EVELOF MENT BANK
Gancahguri, Guwahari-5
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Semi-Annual Environmental Monitoring Report

ADB Loan Number 2806-IND Period Covered: January to June 2017

IND: Assam Urban Assam Urban Infrastructure Investment Program – Project 1

July 2017

Prepared by Guwahati Development Department and Urban Development Department, Government of Assam for Asian Development Bank

This Semi – Annual Environmental Monitoring Report is a document of the borrower. The views expressed herein do not necessarily represent those of ADB's Board of Directors, Management, or staff, and may be preliminary in nature.

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ABBREVATIONS

ADB - Asian Development Bank

AUIIP - Assam Urban Infrastructure Investment Program

APCB - Assam Pollution Control Board

AUWSSB - Assam Urban Water Supply and Sanitary Board

BSR - Basic Schedule of Rates
BRTS - Bus Rapid Transit System

CDTA - Capacity Development Technical Assistance

CRZ - Coastal Regulation zone
CTE - Consent to Establish
CTO - Consent to Operate
DFO - Divisional Forest Officer
DMB - Dibrugarh Municipal Board

DSC - Design and Supervision Consultant

DTP - Dibrugarh Town Protection

EARF - Environmental Assessment and Review Framework

EC - Environmental Clearance

EIA - Environmental Impact Assessment

EM - Environment Monitoring

EMP - Environmental Management Plan FHH - Female Headed Households

GAP - Gender Action Plan

GDD - Guwahati Development Department GMC - Guwahati Municipal Corporation

GMDA - Guwahati Metropolitan Development Authority

GRM - Grievance Redress Mechanism

IEC - Information, Education and Communication

IEE - Initial Environmental Examination

ILRP - Income and Livelihood Restoration Program

IOCL - Indian Oil Corporation Ltd.
LOA - Letter of Acceptance
LOI - Letter of Intent

MFF - Multi Tranche Financing Facility

NABET - National Accreditation Board for Education and Training

NOC - No Objection Certificate
NTP - Notice to Proceed
PD - Project Director, AUIIP

PHED - Public Health Engineering Department

PIU - Project 1mplementation Unit PMC - Project Management Consultants

PMU - Project Management Unit

PPMS - Project Performance Monitoring System
PSO - Project Support Office, Guwahati

PUC - Pollution Under Control RP - Resettlement Plan

RP - Resettlement Plan
SM - Social Monitoring

SPPTS - Support project program and Technical Assistance

SPS - Safeguards Policy Statement, 2009

STP - Sewage Treatment Plant SWM - Solid Waste Management

TL - Team Leader
TOR - Terms of Reference
DTL - Dy. Team Leader

UDD - Urban Development Department

WO - Work Order

WTP - Water Treatment Plant

I. INTRODUCTION

A. Overall Project Description

- 1. Asian Development Bank (ADB) has approved the Assam Urban Infrastructure Investment Program (AUIIP), a \$200 million Multi-Tranche Financing Facility (MFF), to improve water supply of South Guwahati East Zone¹ as well as drainage and solid waste management (SWM) of Dibrugarh.² AUIIP will also provide support for ongoing urban reforms and associated capacity development for improved service delivery, urban governance and financial management in Guwahati and Dibrugarh. AUIIP will be implemented in a period of 6 years³. The first tranche (**Project 1**) of the MFF became effective on 25 March 2012. The Tranche 1 contains three sub-projects which are (i) Water Supply System in South East Guwahati (ii) Storm Water drainage in Dibrugarh and (iii) Solid Waste Management in Dibrugarh Preparations for Tranche 2 projects are ongoing.
- 2. The executing agency is Guwahati Development Department (GDD) and the implementing agencies are Guwahati Metropolitan Development Agency (GMDA) and Dibrugarh Municipal Board (DMB). The Program Management Unit (PMU) in Guwahati and respective Programme Implementing Units (PIUs) have been established in Guwahati and Dibrugarh. The Design and Supervision Consultants (DSC) of Project 1 is already operational in assisting the PMU and PIU⁴.
- 3. The primary objective of the program is to formulate and implement a roadmap that helps national and state-level targets for water supply in Guwahati and storm water drainage and SWM Dibrugarh.

Outputs of the Project:

The major key outputs are as follows:

- Improvement water supply infrastructure in Guwahati improved SWM infrastructure in Dibrugarh
- Improved drainage in Dibrugarh and Guwahati

¹Guwahati has been divided into four water supply zones; one north of the Brahmaputra river and three to the south. In south Guwahati, the west zone is being financed under Jawaharlal Nehru National Renewal Mission (JNNURM), the central zone by Japan International Cooperation Agency (JICA), and the east zone has been identified for ADB assistance.

²Dibrugarh suffers from prolonged local flooding during the annual monsoon. Because of the lack of sewerage and inadequate solid waste management much of the areas in the city's drainage system becomes choked and severely polluted with un-treated wastewater.

³From 01 March 2012 to 31 December 2017

⁴Government of Assam has engaged M/s Shah Technical Consultant (P) Ltd. in association with SMEC India (P) Ltd as DSC.

Enhanced capacity building

Outcomes:

- Improved access to Urban infrastructure
- Reduced flooding
- Environmental sustainability
- Gender main streaming

B. Purpose of the Report

- 4. **Environmental Categorization.** AUIIP Project 1 has been categorized as ADB Category B for environment as per ADB Safeguard Policy (SPS 2009). Initial environmental examination reports (IEEs) were prepared for each subproject.
- 5. This report is the semi-annual environment monitoring report (SEMR) covering period **January to June 2017.** This SEMR describes the implementation of the environmental management plan (EMP) in each subproject.

C. Environment Performance Indicators, if any

- 6. For effective monitoring, selected environmental parameters have been identified as indicators which may be qualitatively and quantitatively measured and compared over a period of time in order to assess/ ensure the compliance to the Environmental Management Plans (EMPs) of each subproject. The environmental performance indicators selected are physical, biological and social characteristics identified as most important in affecting the environment at critical locations all along the sub project corridors. The parameters identified as performance indicators are:
 - ✓ Compliance with environmental management and monitoring plan;
 - ✓ Compliance to State/ National environmental regulations; and
 - ✓ Monitoring of ambient air quality, water quality and noise levels and comparison with baseline environmental quality and State/ National Standards.

II. IMPLEMENTATION PROGRESS

A. Status of Subprojects Project 1

7. The Tranche 1 contains three sub-projects which are (i) Water Supply System in South East Guwahati (ii) Storm Water drainage in Dibrugarh and (iii) Solid Waste Management in Dibrugarh **Table 1** shows the subprojects under Tranche 1 and the works packages including the status of award of contracts as of 30th June 2017.

The package involving construction of 6 storage reservoirs and allied works in Guwahati; and another package involving construction of transmission main pipelines and allied works for water supply project in Guwahati, awarded earlier had to be terminated in December 2015 due to poor performance of the contractor. The terminated contracts were repackaged into three packages and were rebid. Following which, new contractors were engaged for the Guwahati Sub-project. Shivam Transcon Pvt ltd was engaged in August 2016 for construction of water reservoirs and Tirupati Cement Products was engaged in October 2016 for the construction of clear water transmission mains pipeline and allied works. The design, build and operation of intake works, raw water rising main, water treatment plant, clear water pumping stations and allied works in Guwahati will be covered under Tranche 2.

The contract for the construction of DTP drain box culverts and allied works chainage 0 to 9 9500 m in Dibrugarh is already awarded. Works are currently in progress.

The Solid waste management (SWM) sub-project in Dibrugarh has three packages which are (i) The construction of Compound Wall for SWM: The contract is awarded to M/S Badri Rai and Co. in June 2017; (ii) Construction of 100 MT Solid Waste Compost Plant & 60 MT Sanitary Landfill site: The contract is awarded to M/S Milan Dutta-Blackberry Overseas Pvt. Ltd and Alfa Therma (JV) in April 2017; and = (iii) Procurement of equipment/transportation for primary and secondary collection system: DPR revision by DSC is under process. The Environment clearance has been obtained for SWM landfill site for Dibrugarh.

Table 1: Project Progress during the Reporting Period till 30th June, 2017

SI. No.	Package Ref No.	General Description Goods or Works	Contract Signing Date	Name of the Contractor	Contract Value	Contract period in months/days
1	AUIIP/PR- 1/GUW/WS/01	Constriction of Water supply, Transmission Main Pipelines and allied work in Guwahati	04.10.2016	M/s. Tirupati Cement Products	78.99 Crore	730 days Or 24 months
2	AUIIP/PR- 1/GUW/WS/02A	Gopal Nagar, Kenduguri & Northjyoti Nagar	06.08.2016	M/s. Shivam Transcon Pvt Ltd	37.11 Crore	900 days Or 30 months
3	AUIIP/PR- 1/GUW/WS/02B	Hengrabari, Nabajyotinagar & Basistha	01.09.2016	M/s. Shivam Transcon Pvt Ltd	30.80 Crore	900 days Or 30 months
4	AUIIP/PR- 1/DIB/DR/01	Construction of DTP Drain	20.02.2014	M/s. Corsan Corvium Construction S.A	169.89 Crore	1095 days Or 36 months
5	AUIIP/PR- 1/DIB/SWM/01A	Construction of Compound Wall, River Protection etc.	23.06.2017	M/S Badri Rai and Co.	12.02 Crore	730 days Or 24 months
6	AUIIP/PR- 1/DIB/SWM/01B	100 MT compost plant with 60 MT sanitary land fill site etc.	19.04.2017	M/S Milan Dutta- Blackberry Overseas Pvt. Ltd and Alfa Therma	31.11 crore	750 days Or 25 months
7	AUIIP/PR- 1/DIB/SWM/02	Procurement of goods and equipment		Re-bidding is in Progress	11.88 Crore	365 days Or 12 months

Table 2- Status of Compliance with EARF/ADB Procedure is shown in the following table:

Name & No. of Package	Environment Category	Status of preparation of IEE	Status of Approva I by ADB	Date of Approval	Further Action needed For Compliance & Responsibilit
Gopal Nagar, Kenduguri & Northjyoti Nagar AUIIP/PR- 1/GUW/WS/02A	В	Completed and approved	Approve d	April-2015	Regular monitoring and reporting of the EMP
Hengrabari, Nabajyotinagar & Basistha AUIIP/PR- 1/GUW/WS/02B	В	Completed and approved	Approve d	April-2015	Regular monitoring and reporting of the EMP
Constriction of Water supply, Transmission Main Pipelines and allied work in Guwahati AUIIP/PR-1/GUW/WS/01	В	Completed and approved	Approve d	April-2015	Regular monitoring and reporting of the EMP
Construction of DTP Drain AUIIP/PR-1/DIB/DR/01	В	Completed and approved	Approve d	November- 2015	Regular monitoring and reporting of the EMP
Construction of Compound Wall, River Protection etc. AUIIP/PR- 1/DIB/SWM/01A	В	Completed and approved	Approve d	September -2015	Regular monitoring and reporting of the EMP
100 MT compost plant with 60 MT sanitary land fill site etc AUIIP/PR- 1/DIB/SWM/01B	В	Completed and approved	Approve d	September -2015	Regular monitoring and reporting of the EMP
Procurement of goods and equipment AUIIP/PR-1/DIB/SWM/02	В	Completed and approved	Approve d	September -2015	Regular monitoring and reporting of the EMP

Table 3: Summary of Subprojects under AUIIP Project 1

	Tuble of Cummary of Cumprojects united from 1 to ject 1				
Town	Package No.	Components	Status- 30 th June 2017		
1. Water Su	upply System Su	ubproject			
Guwahati	AUIIP/PR-	Construction of transmission water	M/s. Tirupati Cement Products has		
	1/GUW/WS-	supply pipelines and allied works in	been engaged. The agency started		
	01	Guwahati	working from 1stof January 2017. Till		
		 Laying of 19.290 km length of mild 	30 th June, 2017, agency has		
		steel pipe line of nominal internal	completed 2.89 km pipe line from		
			Nunmati to VIP road. Physical		

Town	Package No.	Components	Status- 30 th June 2017
		diameter ranging from 1300mm to 800mm Laying of 4.990 km length of gravity pipe line of ductile iron (Class K-9) of 500mm – 700 mm internal diameter. Locations- Water treatment plant to Gopal Nagar, then connecting all reservoirs	progress is 14.7% and financially 24% by end of June 2017
Guwahati	AUIIP/PR- 1/GUW/WS- 02A	Construction of storage reservoirs of various capacities at three locations (Gopal Nagar, NorthJyoti Nagar and Kenduguri), approach road and allied works in South East Guwahati Water Supply Project. Details: Locations Reservoirs: Magar – 17 Million Litter (ML) North Jyotinagar- 3.2 ML Kenduguri- 3.6 ML Approach road: Gopal Nagar – 460 m North Jyotinagar- 530 m Kenduguri-650 m	M/S Shivam Transcon Ltd. MOU signed through vide Letter No ADB/AUIIP/LOA/157/2016/04 dated 05.05.2016. However, the work progress of M/s Shivam Transcon is satisfactory. Since last six months the agency has been completed following in Gopal sites: 1. Stone Machinery wall, retaining wall, Boulder soiling and PCC work. Also reenforcement binding. Physical progress 10.86% and financial 12.13%, which is very meagre compare assigned work. 2. Kenduguri and North Jyoti Nagar topographic survey and tree cutting activity has been completed. So the contractor work is partially satisfactory
Guwahati	AUIIP/PR- /GUW/WS- 02B	Construction of storage reservoirs of various capacities at three locations (Basistha, Hengrabari and Nabajyoti Nagar), approach road and allied works in South East Guwahati Water Supply Project. Details: Locations Reservoirs: > Hengrabari)- 13 ML > Nabajyoti Nagar Main Zone Reservoir- 3.2 ML > Basistha- 5 ML Approach road: ■ Hengrabari-170 m ■ Nabajyoti Nagar- 855 m ■ Basistha- 150 m	M/s. Shivam Transcon Pvt Ltd started working through vide letter No ADB/AUIIP/LOA/157/2016/50 dated 30.08.2016but the progress is very slow. In last six months only Geotechnical investigation and topographical survey for Hengrabari and Nabajyoti site has been completed and Basistha land is yet to be handover to the contractor. Physical progress is 0% and financial 8%
	ater Drainage Su		
Dibrugarh	AUIIP/PR- 1/DIB/DR-01	Construction of Reinforced cement concrete RCC DTP drain, widening of culverts and allied works in Dibrugarh from chainage 0 to 9500 m	Contract Agreement was signed on 20.02.2014 and NTP was issued on 25.03.2014. EOT is required which was expired on 23.05.2017. Physical progress is 13.41 % and financial is 21%.
2.0-11.127	-4- M	4 Only we in a 4	Work in progress – very slow progress.
3. Solid Wa	aste Managemer	nt Subproject	

Town	Package No.	Components	Status- 30 th June 2017
Dibrugarh	AUIIP/PR- 1/DIB/SWM- 01A	Construction of Compound wall, River Protection Wall, Access Roads, Security Guard Room and Allied Works of Landfill site at Dibrugarh	Awarded to L1 bidder M/S Badri Rai and Co. LOA issued to M/S Badri Rai and Co on 23.06.2017
Dibrugarh	AUIIP/PR- 1/DIB/SWM- 01B	DBO of 100 MT processing plant and 60 MT sanitary land fill site and allied works at Dibrugarh	ADB approved the PBER on 11 th April 2017 and LOA issued to LI(M/S Milan Dutta-Blackberry Overseas Pvt. Ltd-Alfa Therm Ltd JV on 19 th April 2017. Contract agreement signed on 17.05.2017. NTP to be issued to the Contractor
Dibrugarh	AUIIP/PR- 1/DIB/SWM- 02	Procurement of equipment for primary, secondary collection and transportation Vehicles for Municipal Solid Waste Management at Dibrugarh	DPR revision by DSC is under process.

- Appendix 1 (Dibrugarh sub-project) and I (Guwahati sub-projects) show detailed implementation Schedule of Awarded Project 1 sub project packages.
 Appendix 2 (Dibrugarh sub-project) and II (Dibrugarh sub-projects) show photo illustration of project locations related to environment safeguard.

Table 4: Status of Sub-project Awarded Under AUIIP Project 1 (As of 30th June 2017)

Town	Package No.	Component	Start Date	Number of Days/Month s to Complete Work	Target Schedule of Completion (Extended Date of Completion) ⁵	% Physical Progress as of 30 th June 2017	Works Completed as of 30 th June 2017
Dibrugar h	AUIIP/PR- 1/DIB/DR- 01	 Widening and construction of 9.5 km (chainage 0 - 9500 m) reinforced cement concrete (RCC) drain with linings; Construction of 17 nos. box culverts; and Construction of sullage pumping station. 	25 March 2014	1095 Days or 36 months	25 March 2017	13.41 %. No significant progress in physical work due to weather and extension of contract period of contractor	Very slow progress. Works have started since Dec 2015, both at Site and at Precast Yard. Local Issues such as law and order situation, frequent Ban calls and disturbances from local miscreant in open drain portion during evening and late night work affecting Works. Frequent rains & high water level in the drain affecting works at Drain Site. ✓ DTP Drain- ■ 330 M PCC Completed & laid only 80 nos. precast element (chainage- 8,559.70 m to 9515 m); ■ 13 M PCC completed (chainage 5,390 m to 5,480m)

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⁵ "Extended date" in case of extension of completion date for slow progressed package

Town	Package No.	Component	Start Date	Number of Days/Month s to Complete Work	Target Schedule of Completion (Extended Date of Completion) ⁵	% Physical Progress as of 30 th June 2017	Works Completed as of 30 th June 2017
							✓ Construction of precast element at Lepetkata, batching plant- Total nos. produced = 1586 i.e. 2.5 m wide = 210 nos. & 1.16 m wide = 1376nos ✓ De-siltation of DTP Drain — partially completed (chainage 0 to 6300 m) ✓ Demarcation of RoW-Concrete pillaring completed only 31 locations (o to 9515 m chainage) ✓ EOT is required which was expired on 23.05.2017
Guwahati	AUIIP/PR- 1/GUW/WS -01	Construction of transmission water supply pipelines and allied works in Guwahati Laying of 19.290 km length of mild steel pipe line of nominal internal diameter ranging from 1300mm to 800mm Laying of 4.990 km length of gravity pipe line of ductile iron (Class K-9) of 500mm – 700 mm internal diameter.	04.10.20 16	1095 days	03.10.2018	14.70 %. Following activities were undertaken: NOC from NHAI; NOC from Railway Authority; NOC from Oil Authority; NOC from PWD: Joint verification completed;	Bidding process and contractor selection has been completed. Following activities has been completed during last six months: 2.89 km pipe line from Nunmati to VIP road has been laid. Physical progress is 14.7% and financially

Town	Package No.	Component	Start Date	Number of Days/Month s to Complete Work	Target Schedule of Completion (Extended Date of Completion) ⁵	% Physical Progress as of 30 th June 2017	Works Completed as of 30 th June 2017
		Locations- Water treatment plant to Gopal Nagar, then connecting all reservoirs				 NOC from IOCL authority: Under process; Alignment of transmission main completed; QAP of MS Pipeline approved; Permission from BSNL, APDCL: Under process; Procurement of MS piped and specials: Under Process; Third party inspection completed; Setting up of contractor's office and land requirement for store yard/pipe stacking yard is completed 	24% by end of June 2017
	AUIIP/PR- 1/GUW/WS -02A	Construction of storage reservoirs of various capacities at three locations (Gopal Nagar, North Jyoti Nagar and Kenduguri), approach road and allied works in South East Guwahati Water Supply Project. Details: Locations Reservoirs:	06.08.20 16	900 days	5.12.2018	10.86 %	Construction of 3 Reservoirs (WS02A and 2B): ✓ Construction of Retaining wall

Town	Package No.	Component	Start Date	Number of Days/Month s to Complete Work	Target Schedule of Completion (Extended Date of Completion) ⁵	% Physical Progress as of 30 th June 2017	Works Completed as of 30 th June 2017
		 Gopal Nagar – 17 Million Litter (ML) North Jyotinagar- 3.2 ML Kenduguri- 3.6 ML Approach road: Gopal Nagar – 460 m North Jyotinagar- 530 m Kenduguri-650 m 					 ✓ PCC and Boulder solining of foundation work completed; ✓ Allotment of the revenue land to GMDA for Northjyoti Nagar site is completed and tree
	AUIIP/PR- /GUW/WS- 02B	Construction of storage reservoirs of various capacities at three locations (Basistha, Hengrabari, Nabajyoti Nagar), approach road and allied works in South East Guwahati Water Supply Project. Details: Locations Reservoirs: Hengrabari- 13 ML Nabajyoti Nagar Main Zone Reservoir- 3.2 ML Basistha- 5 ML Approach road: Hengrabari-170 m Nabajyoti Nagar- 855 m Basistha- 150 m	01.09.20 16	730 days	01.01.2019	Preliminary work such as topographical survey and soil investigation of Nabajyotinagar and Hengrabari reservoir has been completed and approach road is in progress. Basistha land is yet to hand over to contractor.	cutting and topographical work has been completed; ✓ Alternate location of Basistha reservoir at Art College, Guwahati is finalized in place of previous location at forest land. ✓ Allotment of land is awaited. ✓ Jonakinagar reservoir site Upper Hengrabari area land demarcation and fencing work completed. ✓ Final evaluation of Bids of DBO contract of Intake Head work & WTP of different systems 02B of water supply project

Note: 2 water supply packages at Guwahati terminated after awarding. Those package details are removed from this table. Re-bidding status of those packages shown in Table 1.

B. Compliance of Safeguard Loan Covenants

10. The loan agreement for AUIIP Project 1 was signed in 2ndMarch 2012 and is available on ADB website (http://www.adb.org/sites/default/files/project-document/59986/42265-02-ind-mlo1.pdf). **Table 5** provides a summary of compliance to the loan covenants related to environmental safeguards.

Table 5: Compliance to Loan Agreements (Environmental Safeguards)

Serial No. as per Loan Agreement Environment Schedule 5, para 14 The Borrower shall cause the State to ensure that the preparation, design, construction, implementation, operation and decommissioning of each Subproject comply with (a) all applicable laws and regulations of the Borrower relating to environment, health, and safety; (b) the Environmental Safeguards; (c) the EARF; and (d) all measures and requirements set forth in the relevant IEE and EMP, and any corrective or preventative actions set forth in the State Status/Issues Under compliance. - Environmental safeguard documents ⁶ are prepared in accordance with the requirements of relevant national and state laws, ADB SPS 2009 and EARF. - Draft IEEs prepared during project preparation finalized after the finalization of detailed design. The final IEEs were submitted to ADB for review and approval. No contracts were awarded until ADB's approval of the final IEEs. - For Guwahati Water Supply Subproject, re-bidding has been done	Loan Agreement nvironment chedule 5, para 14 The Borrower shall cause the State to ensure that the preparation, design, construction, implementation, operation and decommissioning of each state	ler compliance. vironmental safeguard documents ⁶ prepared in accordance with the
Schedule 5, para 14 The Borrower shall cause the State to ensure that the preparation, design, construction, implementation, operation and decommissioning of each Subproject comply with (a) all applicable laws and regulations of the Borrower relating to environment, health, and safety; (b) the Environmental Safeguards; (c) the EARF; and (d) all measures and requirements set forth in the relevant IEE and EMP, and any corrective or The Borrower shall cause the State to ensure that the preparation, construction, implementation, operation and decommissioning of each Subproject comply with (a) all applicable laws and regulations of the finalization of detailed design. The final IEEs were submitted to ADB for review and approval. No contracts were awarded until ADB's approval of the final IEEs. - For Guwahati Water Supply	thedule 5, para 14 The Borrower shall cause the State to ensure that the preparation, design, construction, implementation, operation and decommissioning of each state	vironmental safeguard documents ⁶ prepared in accordance with the
Schedule 5, para 14 The Borrower shall cause the State to ensure that the preparation, design, construction, implementation, operation and decommissioning of each Subproject comply with (a) all applicable laws and regulations of the Borrower relating to environment, health, and safety; (b) the Environmental Safeguards; (c) the EARF; and (d) all measures and requirements set forth in the relevant IEE and EMP, and any corrective or The Borrower shall cause the State to ensure that the preparation, construction, implementation, operation and decommissioning of each Subproject comply with (a) all applicable laws and regulations of the finalization of detailed design. The final IEEs were submitted to ADB for review and approval. No contracts were awarded until ADB's approval of the final IEEs. - For Guwahati Water Supply	chedule 5, para 14 The Borrower shall cause the State to ensure that the preparation, design, construction, implementation, operation and decommissioning of each state	vironmental safeguard documents ⁶ prepared in accordance with the
For 2 packages - Updated IEE has been included in the bid and contract documents to ensure measures and requirements set forth in the IEE, specifically the EMP, will be implemented. - For Dibrugarh Storm water Drainage Subproject (only 1 package and that already awarded) - IEE has been included in the bid and contract documents to ensure measures and requirements set forth in the IEE, specifically the EMP, will be implemented. - For Dibrugarh SWM Subproject DPR prepared. Environment clearance done. IEE/EMP included in Bid document. In addition accepted EIA/EMP report will be included in agreement. Corrective action plan prepared. Previous SEMRs submitted to ADB for review and disclosure in its website.	applicable laws and regulations of the Borrower relating to environment, health, and safety; (b) the Environmental Safeguards; (c) the EARF; and (d) all measures and requirements set forth in the relevant IEE and EMP, and any corrective or preventative actions set forth in the Environment Monitoring Report. Subject implications of preparation of final IEEs and IEEs and EMP, and any corrective or preventative actions set forth in the Environment Monitoring Report.	e laws, ADB SPS 2009 and EARF. raft IEEs prepared during project paration finalized after the ization of detailed design. The final is were submitted to ADB for review approval. No contracts were reded until ADB's approval of the IEEs. For Guwahati Water Supply project, re-bidding has been done if packages - Updated IEE has been used in the bid and contract tuments to ensure measures and direments set forth in the IEE, cifically the EMP, will be emented. To Dibrugarh Storm water Drainage project (only 1 package and that ady awarded) - IEE has been
Human and Financial Resources to Implement Safeguards Requirements	requisped implication implicat	uments to ensure measures and airements set forth in the IEE, cifically the EMP, will be emented. In Dibrugarh SWM Subproject DPR pared. Environment clearance e. IEE/EMP included in Bid ament. In addition accepted (EMP report will be included in perment. In ective action plan prepared. Vious SEMRs submitted to ADB for ew and disclosure in its website.

⁶ Draft IEEs following ADB SPS were prepared based on preliminary design for all 3 AUIIP Project 1 subprojects. An environmental impact assessment (EIA) following requirements of Government of India EIA Act and Rules, and Solid Waste Management and Handling Rules was prepared for Dibrugarh SWM Subproject in order to obtain the environmental clearance. Reports following Forest Act and Rules were prepared for subproject components to be located in forest lands and those requiring tree-cutting.

Serial No. as per Loan Agreement	AUIIP Project 1 Specific Covenants	Status/Issues
Schedule 5, para 18	The Borrower shall cause the State	Partial compliance.
Schedule 5, para 18	to make available necessary budgetary and human resources to fully implement the EMPs, the RPs and any IPP,	- As per implementation arrangement for environmental safeguards (see next section for detailed discussion), PMU has a dedicated Compliance and Safeguards Officer. - As per the implementation arrangement for environmental safeguards, project implementation units (PIUs) in Guwahati and Dibrugarh to have respective safeguard compliance & monitoring officers, however to date only one safeguard compliance & monitoring officer appointed in Dibrugarh - The Design and Supervision Consultant (DSC) assisting the PMU and PIUs has engaged an Environment Specialist who reports in its office in Guwahati on intermittent basis and in its office in Dibrugarh every month. - PMU and PIUs has allocated its counterpart funds to ensure implementation of subproject EMPs. The construction contractors has allocated necessary budgets to implement mitigation measures and monitoring program as required in the IEEs.
		Tentative budget is attached as Appendix 3 and III
Safeguards – Related	│ I Provisions in Bidding Documents a	
	The Borrower shall cause the State	
Schedule 5, para 19	The Borrower shall cause the State to ensure that all bidding documents and contracts for Works contain provisions that require contractors to: (a) comply with the measures and requirements relevant to the contractor set forth in the IEEs, the EMPs, the RPs and any IPP (to the extent they concern impacts on affected people during construction), and any corrective or preventative actions set out in a Safeguards Monitoring Report; (b) make available a budget for all such environmental and social measures; (c) provide the PMU with a written notice of any unanticipated environmental, resettlement or indigenous peoples risks or impacts that arise during construction, implementation or operation of the Project that were not considered in	Under compliance. - IEEs and specific provisions related to mitigation measures and environmental monitoring are included in the bidding and contract documents. The budgets for the Environment, Health and Safety has been appended as Appendix 3 for Dibrugarh sub project and as Appendix III for Guwahati sub projects. - Upto Mar 2017: (i) corrective action plan prepared; (ii) No unanticipated environmental, resettlement or indigenous people's risks or impacts; since there is little or no construction work being conducted. Partial compliance. - Record of conditions of roads, agricultural land and other infrastructure for all the three packages are not yet submitted by the contractor. Not yet applicable.

Serial No. as per	AUIIP Project 1 Specific	Status/Issues
Loan Agreement	Covenants	
	the IEEs, the EMPs, the RPs or any IPP; (d) adequately record the condition of roads, agricultural land and other infrastructure prior to starting to transport materials and construction; and (e) Fully reinstate pathways, other local infrastructure, and agricultural land to at least their pre-project condition upon the completion of construction.	- Reinstatement of pathways, pathways, other local infrastructure, and agricultural land to at least their pre-project condition for all the three packages are not yet required as there is little or no construction work being conducted.
Safeguards Monitorin	ng and Reporting	
Schedule 5, para 20	The Borrower shall cause the State to do the following: (a) submit semi-annual Safeguards Monitoring Reports to ADB and disclose relevant information from such reports to affected persons promptly upon submission; (b) if any unanticipated environmental and/or social risks and impacts arise during construction, implementation or operation of the Project that were not considered in the IEEs, the EMPs, the RPs or any IPP, promptly inform ADB of the occurrence of such risks or impacts, with detailed description of the event and proposed corrective action plan; and (c) Report any breach of compliance with the measures and requirements set forth in the EMPs, the RPs or any IPP promptly after becoming aware of the breach.	Under compliance (i) Semi-annual Safeguards Monitoring Reports are being submitted to ADB for review and disclosure. - as of 31st December 2016: (ii) corrective action plan prepared and included in monitoring report; (iii) No unanticipated environmental, resettlement or indigenous people's risks or impacts; since there is little or no construction work being conducted.
Labor Standards	or the broden	
Schedule 5, para 23	The Borrower shall cause the State to ensure that Works contracts follow all applicable labor laws of the Borrower and the State and that these further include provisions to the effect that contractors (i) carry out HIV/AIDS awareness programs for labor and disseminate information at worksites on risks of sexually transmitted diseases and HIV/AIDS as part of health and safety measures for those employed during construction; (ii) follow and implement all statutory provisions on labor (including not employing or using children as labor, equal pay for equal work), health, safety, welfare, sanitation, and working conditions; and (iii) maximize employment of	Under Compliance - IEEs include provisions on strict implementation of applicable labor laws in the EMPs H&S training has been made mandatory for workers prior to mobilization in worksites - Contractors are encouraged to employ women and local poor and disadvantaged persons - HIV/AIDs awareness programs conducted among the laborers during site specific training program in all sites by the contractor.

Serial No. as per	AUIIP Project 1 Specific	Status/Issues
Loan Agreement	Covenants	
	women and local poor and	
	disadvantaged persons for	
	construction purposes, provided that	
	the requirements for efficiency are	
	adequately met. Such contracts shall	
	also include clauses for termination	
	in case of any breach of the stated	
	provisions by the contractors.	

C. Implementation Arrangement

11. **Overall implementation arrangement.** The Government of Assam's GDD is the executing agency. PMU has been established to manage AUIIP through the Project Implementation Units (PIUs), one each in Guwahati and Dibrugarh. The PMU functions as the implementing agency for project administration and coordination and monitor all the project implementation activities with a focus on performance and achievement of results. PMU reports to the Empowered Committee (the Committee) of the Government of Assam headed by the Chief Secretary, who is responsible for the project results on behalf of Government of Assam. The PIUs will be responsible for the day-to-day activities of project implementation in the field and will be under the direct administrative control of the PMU. **Table 6** shows the contact details of the PMU and PIUs.

Table 6: Details of AUIIP PMU and PIUs

Designation	Name and Contact Details
PMU, Project Director	Name: Mr.Ghanashyam Dass,IAS
	Office Address: Tripti Towers,3rd Floor, Ganeshguri, Guwahati-
	781005
	Phone: 0361-2529824
	Email: :pdadbassam@gmail.com
	PD has been transferred on 22 nd may 2017. No one has
	been joined yet. Post is vacant
PIU Guwahati, Additional Project	Name: Mr. Dimbeswar Baruah
Manager	Office Address: Tripti Towers,3rd Floor, Ganeshguri, Guwahati-
	781005
	Phone: 0361-2529824
	Email: piu.auiip@gmail.com
PIU Dibrugarh, Additional	Name: Bhim B Chetri
Project Manager	Office Address: 2nd floor, Aditya complex, Opp. Nova Furniture,
	K.C. Gogol Path, Khaliamary, Dibrugarh
	Phone: 9864076272
	Email: piu.dibrugarh@gmail.com

12. **Safeguards implementation arrangement. Figure 1** shows the implementation arrangement for environment and resettlement safeguards. It shows PMU includes a full-time Safeguard Compliance & Monitoring Officer while the PIUs to include respective Safeguard Compliance & Monitoring Officers. As of 30th June 2016, the position in PMU and PIU (Dibrugarh) are filled up.



Figure 1: AUIIP Safeguards Implementation Arrangement

13. DSC is assisting PMU and has engaged a Safeguards Specialist (Environment) Guwahati Office in every month. DSC is assisting the PIUs and PMU and has engaged an Environment Specialist who reports in its office in Guwahati on continuous basis and in its office in Dibrugarh every month. Project Management Consultant has been terminated from 1st of September 2016. **Table 7** shows the details of the environmental safeguards team.

Table 7: Details of AUIIP Environmental Safeguard Team

Designation	Name and Contact Details
PMU, Safeguard and Compliance Officer	Name: Mr. Chandan Bhadury
	Office Address: Tripti Towers, 3rd Floor, Ganeshguri,
	Guwahati-781005
	Phone: 09508248715
	Email: c.bhadury@gmail.com
PIU Guwahati, Environmental Safeguard	Name: Mrs Deena Baruah
	Office Address: Tripti Towers,3rd Floor, Ganeshguri,
	Guwahati-781005
	Phone:9711099413
	Email:.deenabaruah.auiip@gmail.com
PIU Dibrugarh, Safeguard and	Name: Mrs Meenakshi Baruah
Compliance Officer	Office Address: 2nd floor, Aditya complex, Opp. Nova
	Furniture, K.C. Gogol Path, Khaliamary, Dibrugarh
	Phone:09435070575
	Email: piu.dibrugarh@gmail.com
DSC, Environment Specialist	Name: Mr. Ranjan Kumar Mallick
	Office Address: Tripti Towers,3rd Floor, Ganeshguri,
	Guwahati-781005
	Phone: 91-9438200113
	Email: mallickdevelopment@gmail.com

III. ENVIRONMENTAL PROCEDURE REVIEW

A. Environmental Legal Requirement

14. **Table 8** provides a list of national and state laws, rules, policies and regulations applicable to AUIIP Project 1.

Table 8: Environmental Legal Requirements Applicable to AUIIP Project 1

		equirements Applicable	
Component	Applicable Legislation	Compliance	Action Required for AUIIP Project 1 Subprojects
All components that require acquisition of forest land	Forest (Conservation) Act 1980; Wildlife (protection) Act 1972	Approval from State Principal Chief Conservator of Forest and Ministry of Environment, Forests and Climate change, Government of India	Tree felling permission
2. Water Treatment Plant (WTP) — Surface water and Sewage Treatment Plant (STP)	Water (Prevention and Control of Pollution)Act 1974	Consent to Establish (CTE) and Consent to Operate (CTO) from Assam Pollution Control Board (APCB), Government of Assam. Renewal of CTO during operation of WTP and STP	Based on project review and site inspection, APCB provides CTE before construction, and stipulates the disposal standards to be met during operation. After completion of construction, CTO is issued confirming compliance with the CTE conditions, if any Based on the performance of the WTP and its compliance with the disposal standards CTO to
3. All composting and landfill facilities	Municipal Solid Wastes (Management and handing) Rules 2000	Authorization of proposed site by APCB	be renewed every year. Authorization to be issued based on land use in and around the site and groundwater condition.
4.Waste management facilities including composting, landfills and transfer stations	Environment (Protection) Act 1986: EIA Notification 2006, amended in 2009 Category B	Requires environmental clearance from State Environment Impact Assessment Authority (SEIAA)	Based on preliminary information and site visits, project will be categorized as B1 or B2. B1 projects require EIA study for approval.
5. Environmental Clearance for excavation and transportation of earth	EIA notification 2006 and its subsequent amendments issued under Environment Protection Act, 1986	Requires environmental clearance from District Environment Impact Assessment Authority (DEIAA)	Requisite Permission already obtained and to be renewed.
6. Earth cutting and transportation to WTP		Permission from the District Magistrate; Kamrup Metropolitan (Magisterial Branch)	Requisite Permission is already obtained and to be renewed.

Assam Minor Mineral	
Concession Rules,	
2013	

B. Compliance with Environmental Legal Requirements

15. **Table 9** provides the status of compliance of subprojects to national and state laws, rules, policies and regulations applicable to AUIIP Project 1. Issued clearances and no objection certificates are attached as **Appendix 4** (for **Dibrugarh**) and **IV** (for **Guwahati**).

Table 9: Status of Compliance with National and State Legal Requirements

Town	Package No.	Components	National and State Legal Requirement	Status	Conditions of the Clearance/NOCs
1. Water Su	ipply System Su	bproject			
1. Water Su Guwahati	AUIIP/PR- 1/GUW/WS- 01	Supplying, laying, jointing, testing and commissioning of about 19.29 km length of mild steel pipe line of nominal internal diameter ranging from 1300mm to 800mm. Supplying, laying, jointing, testing and commissioning of about 4.99 km length of gravity pipe line of ductile iron (Class K-9) of 500mm – 700 mm internal diameter. Earth work excavation, laying of bedding wherever specified, backfilling the trenches, and restoring and making good all surfaces which are damaged during excavation, Fixing and connecting all pipe line fixtures such as valves, bends, tees, blank flanges, tail pieces, flow meter etc., Construction of all appurtenant structures including construction of	Not required		-NOC received from contractor for disposal of excess earth in a private land, NOC received from Railway department and accordingly agreement has been completed
		road crossings, drainage crossings, pedestals,			

Town	Package No.	Components	National and State Legal Requirement	Status	Conditions of the Clearance/NOCs
		supports, anchor/ thrust blocks, valve chambers, etc.			
Guwahati	AUIIP/PR- 1/GUW/WS- 02 A and AUIIP/PR- 1/GUW/WS- 02 B	Construction, testing and commissioning of 6 numbers of ground level service reservoirs (GLSR) at: (i) Gopal Nagar (17 ML) (ii) North Jyotinagar (3.2 ML) (iii) Kenduguri (3.6 ML) (iv) Jonaki Nagar (13 ML) (v) NabaJyoti Nagar (3.2 ML) (vi) Basistha (5 ML) Providing and erecting all auxiliary items pipe assembly work for inlet, outlet, over flow, bypass and wash out pipes with butterfly and sluice valves and RCC chambers, drainage pipes with manhole chambers, water level indicator, lightening arrestor, ventilation arrangement, stairs to roof slab, stairs for going inside, etc. Construction of retaining walls at all reservoir sites. Construction of approach road at all reservoir sites	Forest (Conservation) Act 1980- For tree felling EIA notification 2006 and its subsequent amendments issued under Environment Protection Act, 1986 for obtaining Environmental Clearance for excavation and transportation of earth Assam Minor Mineral Concession Rules, 2013 for permission of Earth cutting and	Complied. Permission obtained for tree felling. Tree feeling at Gopal Nagar reservoir site is done Permission obtained for tree cutting in Kendugudi sites. Already 16 trees has been cut down For other sites NOC to be collected for tree felling. Application send	 Requirement of tree cutting at in Gopalnagar, Nabajyotinagar and Kenduguri Permission for cutting of trees at Gopal Nagar reservoir site obtained from DFO, Kamrup East Division on 13.08.2013. Tree felling done. 16 number of Teak tree at Kenduguri for construction of water reservoir under Dag No. 97 and Patta No. Nil, Mouza: Beltola. Mr B.Deka, ACF received cheque No 365361 dated 31.03.2017 received from Additional Programme Manager. Environmental clearance and earth cutting and transportation of earth for the reservoir sites except for Basistha are obtained. An amount of Rs. 2,19,273 is deposited by AUIIP to the Forest Department as valuation and operation cost of felling of trees. Though initially (TA stage) forest land at Jonaki Nagar and Basistha were selected for construction of GLSR and process was initiated for forest clearance. Later due to delay in getting NOC, it was decided by project executing agency to find out alternate non forest land. Now at both

Town	Package No.	Components	National and State Legal Requirement	Status	Conditions of the Clearance/NOCs
			transportation to WTP		sites (Jonaki Nagar and Basistha) Govt. land selected and transfer process for those land in favour of EA under process.
Stormwater	Drainage Subp	roject			
Dibrugarh	AUIIP/PR- 1/DIB/DR-01	Widening and construction of 9.5 km (chainage 0 - 9500 m) reinforced cement concrete (RCC) drain with linings; Construction of 17 nos. box culverts; and Construction of sullage pumping station.	Forest (Conservation) Act 1980 – Forest clearance for construction of drains CTE from Pollution Control Board for setting up Precast Batching plant	Tree felling NOC - Tree felling estimation and approval for 147 nos. tree received from Divisional Forest officer, Dibrugarh on 6th August 2014 (revised estimation submitted by Forest dept. on 24th June 2016). Money deposited to Forest dept. by Dibrugarh Municipal Board and 90 nos. tree felling done Consent to establish for pre cast concrete block manufacturing unit was obtained from Pollution control board on 24th December 2015 Consent to operate for pre cast concrete block manufacturing unit was obtained from Pollution control board on 26th February 2016, which valid upto 31st March 2017 Consent to operate for Generator was obtained from pollution control board on 18th July 2016	 Application sent to forest dept. for getting NOC on tree felling along the drain Joint verification by forest dept., DMB and revenue dept. CompletedRevised cost estimation for removal of 147 trees (5.44 lakh) sent by DFO, Dibrugarh division to project EA All NOC, CTOs and CTE are attached as Appendix 4. Condition mentioned in CTO

Town	Package No.	Components	National and State Legal Requirement	Status	Conditions of the Clearance/NOCs
				NOC from Dibrugarh Municipal Board (DMB) for disposal of drainage silt at landfill site was obtained on 25 th February 2016	
	Management S				
Dibrugarh	AUIIP/PR- 1/DIB/SWM- 01A &01B	Construction of Compound wall, River Protection Wall, Access Roads, Security Guard Room and Allied Works of Landfill site at Dibrugarh DBO of 100 MT processing	EIA Notification 2006, amended in 2009 – Environmental Clearance for construction of landfill and composting facility	Environment clearance obtained from State Environment Impact Assessment Authority, Assam on 21st September 2015	Environment Clearance (EC) obtained . EC attached as Appendix 5 Compliance of EC is attached as Appendix 5
		plant and 60 MT sanitary land fill site and allied works at Dibrugarh	No Objection Certificate (NOC) from Dibrugarh Airport	NOC (height clearance only) for construction of sanitary landfill project at Ghoramara, Dibrugarh was obtained from AAI on 28 June 2013 (NOC attached in Appendix 4) NOC is valid for 5 years i.e. upto 28th June 2018 NOC attached as Appendix 4 .	 No Objection Certificate is issued on the express understanding that the site elevation, relative location of the proposed building/structure and its distance and bearing from the ARP/Runway ends/Runway centre line (whichever is applicable) as tendered by the applicant are correct. If, however, at any stage it is established that the actual data is different from the tendered data and which could adversely affect aircraft operations, the structure or parts thereof in respect of which this NOC is being issued will have to be demolished at the applicant's own cost as may be directed by the Airports Authority of India. No light or a combination of lights which by reason of its intensity,

Town	Package No.	Components	National and State Legal Requirement	Status	Conditions of the Clearance/NOCs
					configuration or colour may cause confusion with the aeronautical ground lights of the airport shall be installed at the site at any time during or after the construction of the building. No Radio/ TV Antenna, lighting arrestors, staircase, overhead water tank and attachment or fixtures of any kind shall project above the height indicated in said NOC Day & Nights marking with both main and standby power supply should be provided as per ICAO standard.
Dibrugarh	AUIIP/PR- 1/DIB/SWM- 02	Procurement of equipment for primary, secondary collection and transportation vehicles for Municipal Solid Waste Management at Dibrugarh	Not required		

IV. COMPLIANCE STATUS WITH THE ENVIRONMENTAL MANAGEMENT AND MONITORING PLAN

- 16. At present only three packages, (AUIIP/PR-1/DIB/DR-1, AUIIP/PR-1GUW/WS-02A and 02B and AUIIP/PR-1/GUW/WS-01 are under implementation. Progress of work is very slow in DTP drain and Guwahati water supply. But transmission line work progress is moderate. Site-specific EMP was prepared by the contractor and submitted to PMU for approval. Approval was given before starting of construction. Later with development of work EMP has been revised. The approved and revised site-specific EMP is attached as **Appendix5**.
- 17. As of 30th June 2017, only 13.41 %in Dibrugarh Drainage project, 10.86 % in Guwahati, water supply Project and Transmission line 14.7% of the work is completed. The overall progress of project activity is slow.
- 18. PMU with assistance of DSC conducted periodic monitoring of EMP implementation thru desk review of contractor's records and site inspections. The findings are presented in **Table 10.** The overall compliance status of AUIIP/PR-1/DIB/DR-01, AUIIP/PR-1GUW/WS-02A and 02B and AUIIP/PR-1/GUW/WS-01 on EMP implementation is satisfactory. Non-compliances/need for improvement during construction of Dibrugarh drainage, Guwahati Water supply and Transmission line site is include:
 - No Proper solid-waste management system at Dibrugarh
 - No proper signages/information board at drainage worksite.
 - Need to improve use of PPE by contractor's workers at all times.
 - Need of properly use of caution tape at worksite along the drain and excavated area
 - Regular air and noise quality monitoring

Table 10: Compliance to EMP of Dibrugarh Drainage Subproject Package No. AUIIP/PR-1/DIB/DR-01

	Field	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Date of Monitoring	Compliance Status/ Explanation
1 1	Site clearance	ign phase Site preparation work completed including necessary clearance Relevant NOC from line dept Tree felling permission	Tree felling requirement — site environment plan NOC — paper documents from line agency	Along drainage alignment	DSC/PIU	Observation and document checking	DSC's Environment Safeguard Specialist	Continuou s by PIU Quarterly by PMC, PMU	Done as per present requirement. Continuous process. Tree felling permission received and tree felling done (90 nos.)
2	Utility	Shifting of affected utilities like electric and telephone poles, water lines	 List of affected utilities if any and operators Bid document to include requirement for a contingency plan for service interruptions 	Along drainage alignment	DSC/PIU	Observation and document checking	DSC's Environment Safeguard Specialist	Do	Completed partially.
3	Traffic Management	Planning for Traffic Management	Ensure traffic management plan is part of contract documents and being implemented	Different road junction along drain	DSC/PIU	Observation and document checking	DSC's Environment Safeguard Specialist	Do	Not required as per the present situation. Project activity outside locality
4	Disposal sites of dredge and solid wastes	Identify agreed sites with local officials to dispose of dredge	Disposal area and aesthetic status of disposed area	Proposed disposal site	PMU, PIU, and DSC to ensure sites are agreed with local officials and in locations which are	Site observation and checking	DSC's Environment Safeguard Specialist	Do	Under compliance – planning continued. Drainage silt deposited at proposed dumping site/

	Field	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation away from sensitive receptors.	Monitoring Method	Responsible for Monitoring	Date of Monitoring	Compliance Status/ Explanation landfill site having NOC NOC from DMB attached as Appendix 4. NOC from Pvt. Landowner also attached in Appendix 4
5	Construction work camps (if needed), hot mix plants, stockpile areas, storage areas, and disposal areas.	Planning for setting up worker camps, hot mix plant, stockpile area, storage and disposal areas • Prioritize areas within or nearest possible vacant space in the subproject location • Non use of residential area • Arrangement of toilet and drinking water facility • No disposal of waste in water	List of selected location for construction work camps, hot mix plants, stockpile areas, storage areas, and disposal areas.	Camp site – nearby working area	DSC/PIU	Observation and document checking	DSC's Environment Safeguard Specialist	Do	Complied Construction worker camp at pre cast plant established with all facility Photographs attached as Appendix 2
	struction								
6	Source of Materials	 Use of Govt. approved quarry sites for procurement of materials Verify suitability of all material sources and obtain approval of 	 List of approved quarry sites and sources of materials Bid document to include requirement for verification of suitability of 	Quarries and material source areas	Contractor	 Checking of records visual inspection of sites 	DSC's Environment Safeguard Specialist and PIU	Do	Approval obtained from DSC/ PMC. Procurement has been started

	Field	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Date of Monitoring	Compliance Status/ Explanation
		Investment PMU/PIU	sources and permit for additional quarry sites if necessary. Construction Contractor documentation						
7	Camp sites	Establishment of temporary camps with drinking water, sanitary and solid waste management arrangement Train employees in the storage and handling of materials Remove all wreckage, rubbish, or temporary structures	Complaints from sensitive Receptors Water and sanitation facilities for employees Housekeeping – regular disposal of solid waste	Camp site	Contractor	Visual inspection	DSC's Environment Safeguard Specialist and PIU	Do	Construction worker camp at pre cast plant has been established with all facility. Camp fully operational. Photographs attached as Appendix 2
8	Landscape and Aesthetics	Prepare and implement Waste Management List; Avoid stockpiling of excess excavated sludge; and Coordinate with DMB for beneficial uses of dredged silt or immediately dispose to designated areas (specifically use for development of landfill);	 Waste Management List Complaints from sensitive receptors PMU/PIU/ DSC to report in writing that the necessary environmental restoration work has been done 	Drainage construction site	Contractor	Checking of records Visual inspection of sites	DSC's Environment Safeguard Specialist and PIU	Do	Utilization of drainage silt for filling up low laying area of proposed landfill site/disposal site having NOC. Transportation already started Waste/ Spoil management plan is

	Field	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Date of Monitoring	Compliance Status/ Explanation
		Recover used oil and lubricants and reuse or remove from the sites; Manage solid waste according to the following preference hierarchy: reuse, recycling and disposal to designated areas; Remove all wreckage, rubbish; and Request PMU/PIU/DSC to report in writing that the necessary environmental restoration work has been adequately performed before acceptance of work.							applied as per EMP (Attached as Appendix 7) Drainage silt testing has been done. Result attached as Appendix 8.
9	Air quality	Selection of materials storage area Water sprinkling at construction site for arresting dust (if any during dry period) Use tarpaulins to cover sand and other loose material- Reducing dust hazard	 Location of stockpiles Complaints from sensitive receptors Monitoring data Heavy equipment and machinery with air pollution control Water sprinkling arrangement Cover materials 	Along drain and stockpile areas	Contractor	Checki ng of records Visual inspection of sites	DSC's Environment Safeguard Specialist and PIU	Do	Location of stockpiles selected Water sprinkling not done Air quality monitoring during base line/ pre construction

	Field	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Date of Monitoring	Compliance Status/ Explanation
		All vehicles and equipments mobilized to construction site and producing emission, have Pollution Control Board certification Carry out air quality monitoring							phase was not.conducte d by the contractor. Regular monitoring is required Pollution under Control Certificate of vehicles and equipment obtained
10	Noise level	Noise producing work needs to be conducted at day time Regular maintenance of noise producing equipment Require horns not be used unless it is necessary to warn other road users Maintain maximum sound levels not exceeding 80 decibels (dbA) when measured at a distance of 10 m or more from the vehicle/s At sensitive locations enclosures provided around generator set or	 Complaints from sensitive receptors Use of silencers in noise-producing equipment and sound barriers Monitoring data 	Along drainage construction sites	Contractor	Checking of records Visual inspection of sites	DSC's Environment Safeguard Specialist and PIU	Do	Noise producing machinery mobilized at site Base line/ pre construction and construction noise monitoring has not been conducted by the contractor.

	Field	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Date of Monitoring	Compliance Status/ Explanation
		other noise producing machinery.							
11	Traffic	Implement a traffic management schedule	Ensure traffic management plan is part of contract documents and being implemented	Along drainage construction site as per requirement	Contractor	 Checking of records Visual inspection of sites 	DSC's Environment Safeguard Specialist and PIU	Do	Not required as per present scope of work Traffic Management plan is attached as Appendix 10
12	Ecological Resources – Terrestrial	Minimize removal of vegetation (if any) and disallow cutting of trees Felling of trees done with mitigation measures i.e. planting of three trees for each tree fell.	Tree felling requirement and afforestation after final design	Along drainage construction site	PIU, Contractor	Site observation Checking of records	DSC's Environment Safeguard Specialist and PIU	Do	Tree felling permission received and tree cutting done (90 nos.)
13	Accessibility	 Plan transportation routes so that heavy vehicles do not use narrow local roads Schedule transport and hauling activities during onpeak hours Keep the site free from all unnecessary obstructions; Drive vehicles in a considerate manner; 	 Traffic Management Strategy Complaints from sensitive receptors Number of signages placed at subproject location. 	Along drainage construction site	Contractor	Visual inspection	DSC's Environment Safeguard Specialist and PIU	Do	Transportatio n of materials started No diversion of traffic is required. Signagaes will be placed as per requirement and other mitigation measures will be applied as per EMP

	Field	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Date of Monitoring	Compliance Status/ Explanation
		Coordinate with Dibrugarh Traffic Office for temporary road diversions and with for provision of traffic aids Notify affected sensitive receptors by providing sign boards informing nature and duration of construction works and contact numbers for concerns/ complaints							
14	Disposal sites of dredged sludge and solid wastes	Dispose dredge and solid waste at pre-identified agreed upon sites (e.g., existing dump sites or use for development of landfill) away from sensitive receptors.	Disposal of dredge and solid wastes at pre-identified agreed site	Along drainage construction site and disposal site	Contractor	Visual inspection	DSC's Environment Safeguard Specialist and PIU	Do	Disposal already started at landfill site and approved sites. Drainage silt testing has not been been done done by the contractor. R
15	Water Quality	Avoid stockpiling of dredged silt/sludge especially during the monsoon season unless covered by tarpaulins or plastic sheets;	 Areas for stockpiles, storage of fuels and lubricants and waste materials Number of silt traps installed along drainages 	Along drainage construction site	Contractor	Site observation	DSC's Environment Safeguard Specialist and PIU	Do	Not required now. No water body nearby the project location

	Field	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Date of Monitoring	Compliance Status/ Explanation
		Prioritize re-use of excess spoils and materials in the construction works. If spoils will be disposed, consult with PMU/PIU/DSC on designated disposal areas; Install temporary silt traps or sedimentation basins along the drainage leading to the water bodies; Place storage areas for fuels and lubricants away from any drainage leading to water bodies; Dispose any wastes generated by construction activities in designated sites	(in slope) leading to water bodies						
16	Occupational Health & safety	 Develop and implement site-specific Health and Safety(H&S) Plan Use Personal Protective Equipment like helmet, gumboot, gloves, nose mask and earplugs H&S Training for all site personnel 	 Site-specific Health and Safety (H&S) Plan Equipped first-aid stations; Medical insurance coverage for workers Number of accidents 	Along drainage construction site	Contractor	Checki ng of records Visual inspection of sites	DSC's Environment Safeguard Specialist and PIU	Do	Site-specific Health and Safety (H&S) Plan under implementatio n Attached as Appendix 11. Use of PPE – partial H & S training arranged for

	Field	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Date of Monitoring	Compliance Status/ Explanation
		level greater than85 dBA for duration of more than8hoursper day without hearing protection.							Overall compliance is satisfactory
17	Community Health & safety	 Plan routes to avoid times of peak-pedestrian activities. Liaise with PMU/PIU/DSC in identifying high-risk areas on route cards/maps. Maintain regularly the vehicles and use of manufacturerapproved parts to minimize potentially serious accidents caused by equipment malfunction or premature failure. Provide road signs and flag persons to warn. Provide protective fencing around drain, and cover any open trench with metal planks during nonconstruction hours. Potentially cause soil contamination; 	Traffic Management Strategy Complaints from sensitive receptors	Along drainage construction site	Contractor	Visual inspection	DSC's Environment Safeguard Specialist and PIU	Do	Caution tape placed at site. Placement of caution tape and board should be done for all working locations. Appendix 2 shows site photo

	Field	Mitigation Activities and Method	Parameters monitored	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Date of Monitoring	Compliance Status/ Explanation
		Recover used oil and lubricants and reuse or remove from the site							
18	Socio cultural resources	 Strictly follow the protocol for chance finds in any excavation work Stop work immediately to allow further investigation if any finds are suspected 	Chance find protocol	Along drainage construction site	Contractor	Checking of records	DSC's Environment Safeguard Specialist and PIU	Do	Not required till date
19	Employment generation	The use of labour intensive construction measures will be used where appropriate Employ local (unskilled) labour if possible Training of labour to benefit individuals beyond completion of the subproject	Employment record	Along drainage construction site	Contractor	Checking of records	DSC's Environment Safeguard Specialist and PIU	Do	At present local labors are engaged. List of laborers are attached as Appendix 15.

Table 11:
Compliance to EMP Water Storage Reservoir and Water Transmission Pipelines and Allied Works at Guwahati Subproject Package No. AUIIP/PR-1/GUW/WS-02A and 02B

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation	Compliance Status/ Explanation
Pre Construction - De	sign phase			-	
Utilities	Telephone lines, electric poles and wires, water lines within proposed project area	(i) Identify and include locations and operators of these utilities in the detailed design documents to prevent unnecessary disruption of services during construction phase ;and (ii) Require construction contractors to prepare a contingency plan to include actions to be done in case of unintentional interruption of services.	DSC	(i) List of affected utilities and operators; (ii) Bid document to include requirement for a contingency plan for service interruptions	Done as per present requirement. Continuous process.
Structure stability in seismic zone V	Affect during earthquake	Design and analysis as per the Peak Ground Acceleration(PGA) and the seismic acceleration response curve and other factors like Response Reduction Factor (RRF) and Importance Factor (IF) as per the Indian Standard code	DSC/ PIU	(i) Checking of design report – consideration of design measures to minimize earth quake risk	Not required now
Water Supply	Health risk due to closure of water supply during connection	(i) Plan the construction program to keep the cessation of water supplies to the minimum possible(in both area and duration); and (ii) In coordination with GMC, provide alternative potable water to affected households and businesses for the duration of the shut-down if any	DSC	(i) Schedule of closure if any; (ii) delivery of potable water to affected people by GMC	Not required as per the present situation. Project activity outside locality
Traffic Management	Impede traffic flow during construction	(i) Prepare a traffic management plan during preconstruction phase.	DSC	Ensure Traffic Management Plan is finalized before implementation.	Under compliance – planning continued. Traffic Management Plan is

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation	Compliance Status/ Explanation
					prepared and attached as Appendix IX
Social and Cultural Resources	Ground disturbance can uncover and damage archaeological and historical remains	department in Guwahati to obtain an expert assessment of the archaeological potential of the site;	DSC	Chance Finds Protocol	Complied. Construction worker camp at pre cast plant established with due facilities.
		(ii) Consider alternatives if the site is found to be of medium or high risk;			Photographs attached as Appendix 2
		(iii) Develop a protocol for use by the construction contractors in conducting any excavation work, to ensure that any chance finds are recognized and measures are taken to ensure they are protected and conserved.			
Construction work camps, hot mix plants, stock pile areas, storage areas, and disposal areas.	Disruption to traffic flow and sensitive receptors along transmission pipeline laying area	(i) Prioritize areas within or nearest possible vacant space in the sub project location; (ii) If it is deemed necessary to locate elsewhere, consider sites that will not promote instability and result in destruction of property, vegetation and drinking water supply systems; (iii) Do not consider residential	PMU/PIU and DSC to determine locations prior to construction	List of selected sites for construction work camps, hot mix plants, stockpile areas, storage areas, and disposal areas.	Not required

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation	Compliance Status/ Explanation
Construction Stag	e	areas; and (iv) Take extreme care in selecting sites to avoid direct disposal to water body which will inconvenience the community.			
Sources of Materials	Extraction of rocks and material may cause ground instability	(i) Use quarry sites and sources permitted by government; (ii) Verify suitability of all material sources and obtain approval of Investment PMU/PIU; (iii) If additional quarries will be required after construction has started, obtain written approval from PMU/PIU; and (iv) Submit to DSC on a monthly basis documentation of sources of materials.	Construction Contractor	Construction Contractor documentation	Proper measures has been taken by contractor under direct supervision by PIU and DSC. The various NOCs and approvals are appended as Appendix-IV for both Water Storage Reservoir and Water Transmission Pipelines
Air Quality	Emissions from construction vehicles ,equipment, and machinery used for excavation and construction resulting to dusts and increase in concentration of vehicle-related pollutants such as carbon monoxide, sulfur oxides,	(i) Consult with PMU/PIU/DSC on the designated areas for stockpiling of clay, soils, gravel, and other construction materials; (iii) Damp down exposed soil and any stockpiled onsite by spraying with water when necessary during dry weather; (iv) Use tarpaulins to cover sand and other loose material when transported by trucks; and	Construction Contractor	(i) Location of stockpiles; (ii) Complaints from sensitive receptors; (iii) Heavy equipment and machinery with air pollution control devices;	(i) PUU certificates of the vehicles used at the sites are provided (see Appendix VI) (ii)Waste/Spoil management Plan is prepared by the contractors and is appended as Appendix VII;

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation	Compliance Status/ Explanation
	particulate matter, nitrous oxides ,and hydrocarbons	(v) Fit all heavy equipment and machinery with air pollution control devices which are operating correctly.		(iv)Ambient air for respirable particulate matter (RPM- PM10 & PM2.5) and suspended particulate matter (SPM); (v) Vehicular emissions such as sulphur dioxide (SO ₂), nitrous oxides (NOx), carbon monoxide (CO), and hydrocarbons	(iii) Water, Noise and air quality monitoring for the Gopal nagar site and noise and air quality monitoring for the transmission mains site were carried out by the contractors and the reports for both the contractors are appended as Appendix VIII.
Traffic Management	Impede traffic flow during construction	(i) Implement a traffic management plan during pre construction phase.	Construction Contractor	DSC to ensure traffic management measures are implemented and traffic is not significantly impeded during construction period.	DSC and the contractor ensure and implement traffic management measures at the sites and makes sure that the traffic is not significantly impeded during construction period. The traffic management plan is appended as Appendix-IX
Surface water quality	Mobilization of settled silt materials, run-off from stockpiled materials, and chemical contamination from fuels and lubricants during construction	(i) Avoid stockpiling of earth fill especially during the monsoon season unless covered by tarpaulins or plastic sheets; (ii) Prioritize re-use of excess spoils and materials in the construction works .lf spoils will be disposed, consult with PMU/PIU/DSC on	Construction Contractor	(i) Areas for stockpiles, storage of fuels and lubricants and waste materials; (ii) Number of silt traps installed along	(i)Waste/Spoil management Plan is prepared by the contractors and is appended as Appendix VII; (ii) Water, Noise and air quality monitoring for the

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation	Compliance Status/ Explanation
	work scan contaminate nearby surface water quality.	designated disposal areas; (iii) Install temporary silt traps or sedimentation basins along the drainage leading to the water bodies; (iv) Place storage areas for fuels and lubricants away from any drainage leading to water bodies; (v) Dispose any wastes generated by construction activities in designated sites; and (vi) Conduct surface quality inspection according to the Environmental Management Plan (EMP).		drainages leading to water bodies; (iii) Records of surface water quality inspection; (iv) Effectiveness of water management measures; (v) For inland water: suspended solids, oil and grease, biological oxygen demand (BOD), and coliforms.	Gopal nagar site and noise and air quality monitoring for the transmission mains site were carried out by the contractors and the reports for both the contractors are appended as Appendix VIII.
Noise Levels	Increase in noise level due to earthmoving and excavation equipment, and the transportation of equipment, materials ,and people	(i) Plan activities in consultation with PMU/PIU/DSC so that activities with the greatest potential to generate noise are conducted during periods of the day which will result in least disturbance; (ii) Require horns not be used unless it is necessary to warn other road users or animals of the vehicle's approach; (iii) Minimize noise from construction equipment by using vehicle silencers, fitting jack hammers with noise- reducing mufflers, and portable street barriers the sound impact to surrounding sensitive receptor, and	Construction Contractor	(i) Complaints from sensitive receptors; (ii) Use of silencers in noise -producing equipment and sound barriers; (iii) Equivalent day and night time noise levels	(i) No complaints were received from the sensitive receptors regarding to noise levels. (ii) Noise level monitoring reports for both the contractors are appended as Appendix VIII.

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation	Compliance Status/ Explanation
		(iv) Maintain maximum sound levels not exceeding 80 decibels (dbA) when measured at a distance of 10 m or more from the vehicle/s.			
Ecological resources – Terrestrial	Felling of the trees – affect terrestrial ecological balance	(i) Minimize removal of vegetation and disallow cutting of trees; (ii) If tree-removal will be required, obtain tree-cutting permit from Municipal Corporation, (iii) Require to plant three (3) native trees for every one (1) that is removed; and (iv) Prohibit employees from poaching wildlife, bird hunting, and cutting of trees for firewood.	Construction Contractor	(i)Complaints from sensitive receptors; (ii) checking of conservation management plan for tree species and aquatic fauna/ animal	(i) Tree felling permissions were obtained for the relevant sites and the permissions are appended as Appendix-IV .
Existing Infrastructure and Facilities	Disruption of service and damage to existing infrastructure at specified project location	(i) Obtain from PMU/PIU/DSC the list of affected utilities and operators if any; (ii) Prepare a contingency plan to include actions to be done in case of unintentional interruption of service	Construction Contractor	Existing Utilities Contingency Plan	Permissions for utility shifting to have been obtained and the payment made by the contractor for the water reservoir package to the APDCL to shift the LT lines is appended as Appendix XIX for the Guwahati water reservoir package.
Landscape and Aesthetics	The presence of heavy duty vehicles and equipment, temporary structures at construction camps, stockpiles, may result in impacts	(i) Storage areas will be properly fenced off.(ii) Prepare and implement Waste Management List;(iii) Avoid stock piling of excess excavated soils;	Construction Contractor	(i)Waste Management List; (ii) Complaints from sensitive receptors; (iii) PMU/PIU/DSC to	(i) Store areas are properly fenced; (ii) Adequate store facilities are provided at the work sites. (iii) No complaints are

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation	Compliance Status/ Explanation
	on aesthetics and landscape character.	(iv) Coordinate with GMC for beneficial uses of excess excavated soils of about 91889 cum or immediately dispose/ use to designated areas;		report in writing that the necessary environmental restoration work has been adequately performed before	received from sensitive receptors regarding landscape and aesthetics.
		(v) Recover used oil and lubricants and reuse or remove from the sites;		acceptance of work.	
		(vi)Manage solid waste according to the following preference hierarchy: reuse, recycling and disposal to designated areas;			
		(vii) Remove all wreckage, rubbish; (viii) Retain mature trees on and around the site where possible; (ix) Cluster construction activities on site on a specific area to avoid "sprawl";			
		(x) Unwanted material and litter will be removed on frequent basis;			
	1	and			
		(xi) Request PMU/PIU/DSC to report in writing that the necessary environmental restoration work has been adequately performed before acceptance of work.			
Accessibility	Traffic problems and conflicts near project locations and haul road	(i) Plan transport action routes so that heavy vehicles do not use narrow local roads, except in the immediate vicinity of delivery sites;	Construction Contractor	(i) Traffic Management Strategy; (ii) Complaints from sensitive receptors;	DSC and the contractor ensure and implement traffic management measures at the sites and
		(ii) Schedule transport and hauling activities during non- peak hours;		(iii) Number of signage's placed at subproject	makes sure that the traffic is not significantly impeded during construction period.

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation	Compliance Status/ Explanation
		(iii) Locate entry and exit points in areas where there is low potential for traffic congestion;		location	The traffic management plan is appended as Appendix-IX
		(iv) Keep the site free from all unnecessary obstructions;			
		(v) Drive vehicles in a considerate manner;			
		(vi) Coordinate with Guwahati Traffic Office for temporary road diversion sand with for provision of traffic aids if transportation activities cannot be avoided during peak hours;			
		(vii) Notify affected sensitive receptors by providing sign boards informing nature and duration of construction works and contact numbers for concerns/complaints.			
		(viii) Provide planks across trenches in front of businesses ,and ensure works are completed quickly to avoid disruption, and			
		(ix) Avoid full street closure			
Socio-Economic- Income.	Impede the access of residents and customers to nearby	(i) Leave spaces for access between mounds of soil;	Construction Contractor	(i) Complaints from sensitive receptors;	(i) No complaints are received from sensitive receptors regarding socio-
	shops	(ii) Provide walk ways and metal sheets where required for people;		(ii) Number of walkways, signages,	economic income.
		(iii) Increase workforce in front of critical areas such as institutions,		and metal sheets placed at subproject location.	(ii) Walkways are provided for the people;
		place of worship, business establishment, hospitals, and			(iii) Signage boards are provided at all sites.

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation	Compliance Status/ Explanation
		schools; (iv) Consult businesses and institutions regarding operating hours and factoring this in work schedules; and (v) Provide signboards for pedestrians to inform nature and duration of construction work sand contact numbers for concerns/complaints.			
Employment Generation	The subproject will provide employment opportunities for local people during construction. Expectations regarding new employment will be high especially among the unemployed individuals in the area. Labourers gathering at the site for work can be a safety and security issue, and must be avoided. The training of unskilled or	(i) The use of labor intensive construction measures will be used where appropriate; (ii) Employ local (unskilled) labor if possible; (iii) Training of labor to benefit individuals beyond completion of the subproject; and (iv) Recruitment of labors will take place offsite.	Construction Contractor	(i) Employment records; (ii) records of sources of materials	As per the ADB guideline 50% employment opportunity has been given to local people by the contractor in both the sites. Attendance sheets appended as Appendix XX (Guwahati reservoir package) and XXI (Transmission Mains).

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation	Compliance Status/ Explanation
	previously unemployed persons will add to the skills base of the area.				
Occupational Health and Safety	Occupational hazards which can arise during work	(i) Develop and implement site-specific Health and Safety(H&S) Plan which will include measures such as:(a) excluding public from the site; (b) ensuring all workers are provided with and use Personal Protective Equipment like helmet, gumboot, safety belt, gloves, nose musk and earplugs;(c) H&S Training for all site personnel;(d)documented procedures to be followed for all site activities ;and(e) documentation of work-related accidents; (ii) Ensure that qualified first- aid can be provided at all times. Equipped first-aid stations shall be easily accessible throughout the project site; (iii) Provide medical insurance coverage for workers; (iv) Secure all installations from unauthorized intrusion and accident risks; (v) Provide supplies of potable drinking water at working sites; (vi)Provide clean eating areas	Construction	(i) Site-specific Health and Safety(H&S) Plan has been prepared and the control measures are implemented; (ii) Equipped first-aid stations are provided at the operational sites; (iii) Medical insurance coverage for workers have been provided; (iv) Number of accidents are recoded and investigated; (v) Potable drinking water is supplied to the workers; (vi) Clean eating areas where workers are not exposed to hazardous or noxious substances are provided; (vii) Record of H&S orientation trainings are maintained' (viii) personal protective equipment are provided	(i) Site specific health and safety plans have been prepared by the contractors. Appended as Appendix X; (ii) First Aid boxes are provided on the work sites; (iii) Medical insurance coverage is provided for the workers. Appended as Appendix XI; (iv) Accident reports are maintained on sites. Appended as Appendix XV; (v) Potable drinking water is provided to workers at the work sites; (vi) Separate eating areas are provided to the workers at the work sites; (vii) Periodical H&S trainings are provided to workers. Records of trainings conducted during reporting period are appended as Appendix XI.

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation	Compliance Status/ Explanation
		where workers are not exposed to hazardous or noxious substances; and		and ensured that the workers wear them regularly;	(viii) Periodic Medical Examinations are conducted for the workers.
		(vii) Provide H&S orientation training to all new workers to ensure that they are apprised of the basic site rules of work at the site, personal protective protection, and preventing		(x) Signboards for hazardous areas such as energized electrical devices and lines, service rooms housing high voltage equipment,	Same is appended as Appendix XIII.
		injuring to fellow workers;		and areas for storage and disposal.	
		(viii) Provide visitor orientation if visitors to the site can gain access to areas where hazardous conditions or substances may be present. Ensure also that visitor/s do not enter hazard areas unescorted;			
		(ix) Ensure the visibility of workers through their use of high visibility vests when working in or walking through heavy equipment operating areas;			
		(x) Ensure moving equipment is outfitted with audible back- up alarms;			
		(xi)Mark and provide sign boards for hazardous areas such as energized electrical devices and lines, service rooms housing high voltage equipment, and areas for storage and disposal. Signage shall be in accordance with international standards and be well known to,			

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation	Compliance Status/ Explanation
		and easily understood by workers, visitors, and the general public as appropriate; and			
		(xii) Disallow worker exposure to noise level greater than 85 dBA for adoration of more than 8hours per day without hearing protection. The use of hearing protection shall be enforced actively.			
Core Labor Standard (CLS)- safety and compliance	Impact on health of contractor's labor	Monitoring compliance with national labor laws and regulations, provided that these national laws are consistent with CLS. PMU will ensure that bidding and contract documents include specific provisions requiring contractors to comply with all: (i) applicable labor laws and core labor standards on: (a) prohibition of child labor as defined in national legislation for construction and maintenance activities; (b) equal pay for equal work of equal value regardless of gender, ethnicity or caste; and (c) elimination of forced labor; and (ii) the requirement to disseminate information on sexually transmitted diseases including HIV/AIDS to employees and local communities surrounding the project sites.	Construction Contractor	All records, documents related to health & safety of labors are maintained.	(i) Periodic Medical Examinations are conducted for the workers. Same is appended as Appendix XIII. (ii) Accident reports are maintained on sites. Appended as Appendix XV;
Community Health and Safety.	Traffic accidents and vehicle collision with pedestrians during material and waste transportation	(i) Plan routes to avoid times of peak-pedestrian activities. (ii) Liaise with PMU/PIU/DSC in identifying high-risk areas on route cards/maps.	Construction Contractor	(i) Traffic Management Strategy; (ii) Complaints from sensitive receptors	DSC and the contractor ensure and implement traffic management measures at the sites and makes sure that the traffic

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation	Compliance Status/ Explanation
		(iii) Maintain regularly the vehicles and use of manufacturer- approved parts to minimize potentially serious accidents caused by equipment malfunction or premature failure.	-		is not significantly impeded during construction period. Pedestrians are considered during the preparation of the Traffic Management Plan.
		(iv) Provide road signs and flag persons to warn.			The traffic management plan is appended as
		(v) Provide protective fencing around open trenches, and cover any open trench with metal planks during non-construction hours. Potentially cause soil contamination;			Appendix-IX No complaints have been received from pedestrians.
		(vi) Recover used oil and lubricants and reuse or remove from the site; (vii) Manage solid waste according to the following preference hierarchy :reuse, recycling and disposal to designated areas;			
		(viii) Remove all wreckage, rubbish, or temporary structures(such as buildings, shelters, and latrines) which are no longer required; and			
		(ix) Request PMU/PIU/DSC to report in writing that the camp has been vacated and restored to preproject conditions before acceptance of work.			
Office, Work Camps & storage	Temporary air, land and noise pollution from operation of camp & machine, water pollution from	(i) Consult with PIU/ DSC before locating project offices, sheds, and construction plants;(ii) Minimize removal of vegetation and disallow cutting of trees;	Construction Contractor	(i) Complaints from sensitive receptors; (ii) Water and sanitation facilities for employees; and	(i) Site offices are constructed for the Gopal Nagar site and transmission mains.

Field	Anticipated	Mitigation Measures	Responsible	Monitoring of	Compliance Status/ Explanation
	Impact		for Mitigation	Mitigation	-
	storage and use of			(iii)PIU/ DSC report in	(ii) Adequate storage areas
	fuels, oils, solvents,	facilities for employees/labors;		writing that the camp	are provided at the work
	and lubricants	(iv) Prohibit employees from		has been vacated and	sites.
		poaching wildlife and cutting of		restored to pre-project	
		trees for firewood;		conditions.	
		(v) Train employees in the storage			
		and handling of materials which can potentially cause soil			
		potentially cause soil contamination;			
		(vi) Recover used oil and lubricants			
		and reuse or remove from the site;			
		(vii) Manage solid waste according			
		to the following preference			
		hierarchy: reuse, recycling and			
		disposal to designated areas;			
		(viii) Remove all wreckage, rubbish,			
		or temporary structures (such as			
		buildings, shelters, and latrines)			
		which are no longer required; and			
		(ix) Request DSC/ PIU to report in			
		writing that the camp has been			
		vacated and restored to pre-project			
		conditions before acceptance of			
		work.			
Social and Cultural	Risk of	() - : : : : : : : : : : : : : : : : : :	Construction	Records of chance finds	Not Applicable
Resources	archaeological	chance finds in any excavation	Contractor		
	chance finds	work;			
		(ii) Request PMU/PIU/DSC or any			
		authorized person with			
		archaeological field training to			
		observe excavation;			
		(iii) Stop work immediately to allow			
		further investigation if any finds are			
		suspected; and			

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation	Compliance Status/ Explanation
		(iv) Inform PMU/PIU/DSC if a find is suspected and take any action they require ensuring its removal or protection in situ.			

DSC =Design Supervision Management Consultant, H&S =health and safety, RPM=respirable particulate matter, PMU=Project Management Unit; PIU = Project Implementation Unit; SPM= suspended particulate matter, GMC =Guwahati Municipal Council

V. ENVIRONMENTAL MONITORING AND EVALUATION

- 19. In addition to desk reviews and site inspections, monitoring of selected environmental parameters have been conducted during the reporting period. The frequencies of the environmental monitoring activities are commensurate to the type and significance of the impacts. For **Project 1** subprojects, the parameters to be monitored are ambient air quality, noise levels and drainage silt.
- 20. At present only three packages, (AUIIP/PR-01/DIB/DR/01, AUIIP/PR-1/GUW/WS-01 and AUIIP/PR-01/GUW/WS/02A and 02 B is under implementation. During report period both base line and during construction air quality monitoring has been conducted for DTP Drain package. Results show (**Table 12, 13 and 14**) that concentration of SO₂, NO₂increased during working period. Similarly, concentrations of PM_{2.5} and PM₁₀during construction are much above the base line level. There is a requirement of stringent application of mitigation measures for control of dust and gaseous emission. In all the cases, concentrations of all parameters are with the prescribed standard. Concentration of lead is always below the detection limit.

Table 12: Ambient Air Quality Monitoring at Different Working Locations, Dibrugarh

Package	Sampling	Implementation	Date of		Monitori	ng paran		
	Locations	Stage	Monitoring		NO	DM	DM	11
				SO ₂	NO ₂	PM _{2.5}	PM ₁₀	Lead
				μg/m ³	μg/m³	µg/m³	μg/m³	(Pb) µg/m³
AUIIP/PR-	Drain	Base line	03.11.2015	ND	ND	8.94	21.57	ND
01/DIB/DR/01	construction site,							
	chainage 0.0 km							
	Drain	Base line	03.11.2015	ND	ND	4.86	15.29	ND
	construction site,							
	chainage 4.5 km	D	00.44.0045	ND	ND	40.70	07.04	ND
	Drain	Base line	03.11.2015	ND	ND	10.72	27.64	ND
	construction site,							
	chainage 5.5 km Drain	Base line	03.11.2015	ND	ND	4.31	14.57	ND
	construction site,	base line	03.11.2015	שמו	שא	4.31	14.57	ND
	chainage7.5 km							
	Drain	Base line	03.11.2015	ND	ND	11.57	28.19	ND
	construction site,	Dase iiile	03.11.2013	IND	IND	11.57	20.13	ND
	chainage 9.5 km							
	Pre-Cast Casting	Base line	03.11.2015	ND	ND	12.64	27.41	ND
	Site							
	Lepetkata							
	Dibrugarh							
		Average		ND	ND	8.84	22.44	ND
	Drainage	Construction	21.11.2016	ND	ND	12.62	28.49	ND
	construction site,	stage*						
	Paltan Bazar 0							
	chhainage							
	Drainage	Construction	21.11.2016	ND	ND	31.7	69.3	ND
	construction site,	stage*						
	Paltan Bazar 0							
	chainage		04.44.0015		NID	40.05	00.46	
	Drainage	Construction	21.11.2016	ND	ND	12.62	28.49	ND
	construction site,	stage*						
	Platen Bazar 0							
	chainage	<u> </u>			1			

Package	Sampling	Implementation	Date of	Monitoring parameters				
	Locations	Stage	Monitoring					
				SO ₂	NO ₂	PM _{2.5}	PM ₁₀	Lead
				µg/m³	μg/m³	µg/m³	µg/m³	(Pb)
								μg/m³
		Average						ND
				ND	ND	29.78	69.08	
	Standard as per			80.0	80.0	60.0	100.	1.0
	СРСВ						0	

Note: CPCB - Central Pollution Control Board, ND- Not detected

- 21. Base line and during construction monitoring as conducted at different sites for the package AUIIP/PR-01/DIB/DR/01 indicates that base line noise level is within the CPCB standard but construction phase noise are mostly above the standard for residential and commercial areas. Mitigation measures need to be applied for control of noise level within the standard.
- 22. The next environmental monitoring activities are scheduled in Oct/Nov 2017 to measure air quality, noise level and drainage silt. The cost of the environmental monitoring is charged to the funds of contractor (Ref. Monitoring budget disclosed in **Appendix 3**).
- 23. Parameters of drainage silt are within the normal range.
- 24. **Appendix 9** shows scanned copy of air quality, noise level and **Appendix 8** shows drainage silt and waste water testing results.

Table 13: Noise Level Monitoring at Different Working Locations

Packages	Sampling Locations	Implementation Stage	Date of Monitoring	Day time Max.	Day time Min.	Day Time Leq dB(A)	Night time Max.	Night time Min.	Night Time Leq dB(A)
AUIIP/PR- 01/DIB/DR/01	Drain construction site, chainage 0.0 km	Base line	04.11.2015	70	58	50	50	40	45
	Drain construction site, chainage 4.5 km	Base line	04.11.2015	50	40	38	40	36	30
	Drain construction site, chainage 5.5 km	Base line	04.11.2015	55	38	45	43	30	28
	Drain construction site, chainage7.5 km	Base line	04.11.2015	40	30	32	34	28	25
	Drain construction site, chainage 9.5 km	Base line	04.11.2015	50	32	40	40	28	30
	Pre-Cast Casting Site	Base line	04.11.2015	60	42	51	35	30	24

Packages	Sampling Locations	Implementation Stage	Date of Monitoring	Day time Max.	Day time Min.	Day Time Leq dB(A)	Night time Max.	Night time Min.	Night Time Leq dB(A)
	Lepetkata Dibrugarh					, ,			
		Average		70	30	43	50	28	30
	KKSP Casting yard and Diesel Generator site, Lepetikata,	Construction stage*	26.11.2016	42	33	39	43	31	35
	KKSP Casting yard and Diesel Generator site, Lepetikata (near by residence)	Construction stage*	26.11.2016	44	35	41	51	33	39
	Drain construction site 0, chainage (paltan bazaar)	Construction stage*	26.11.2016	50	38	30	70	54	64
		Average		45	35	35	50	40	50
	CPCB Standards- Silence					50			40
	CPCB Standards- Residential					55			45
	CPCB Standards- Commercial					65			55
	CPCB Standards- Industrial					75			70

CPCB - Central Pollution Control Board)

25. A performance monitoring fact sheet has been prepared to facilitate tracking and quick reference on environmental monitoring of Project 1 subproject packages (**Tables 16** and **17**.

Note- From January to June 2017, Contractor did not conduct any air, water and noise testing at the construction site due to internal management problem. Proper instruction has been given to contractor to do the test within 15th September 2017.

26. Base line and during construction monitoring as conducted at different sites for the package AUIIP/PR-01/GUW/WS-02A/02Bindicates that base line noise level is within the

CPCB standard but construction phase noise are mostly above the standard for residential and commercial areas. Mitigation measures need to be applied for control of noise level within the standard. The next environmental monitoring activities are scheduled on Oct/Nov 2017 to measure air quality, noise level and drainage silt. The cost of the environmental monitoring is charged to the funds of contractor (Ref. Monitoring budget disclosed in Appendix 3). Parameters of drainage silt are within the normal range. There is no significant difference between base line and construction period

27. Appendix 9 shows scanned copy of air quality, noise level and Appendix 8 shows drainage silt and waste water testing results.

Table 14: Ambient Air and Noise Quality Monitoring at Different Working Locations, Guwahati, Water Supply.

Package	Sampling	Implementation	Date of		Monit	oring par	ameters	
	Locations	Stage	Monitoring	SO ₂ µg/m ³	NO ₂ μg/m ³	PM _{2.5} μg/m ³	PM ₁₀ μg/m ³	Lead (Pb) μg/m³
AUIIP/PR- 1/GUW/WS- 02A and 02B	Gopal Nagar	Base line	04.11.2016 & 05.11.2016	6	14	41	70	<0.01
	North Joyti Nagar	Base line	28.12.2016 & 29.12.2016	7	14	36	70	<0.01
	Kenduguri,	Base line	29.12.2016 & 30.12.2016	9	17	39	79	<0.01
	Nabajyoti Nagar	Base line	29.12.2016 & 30.12.2016	9	17	34	69	<0.01
	Hengrabari	Base line	28.12.2016 & 29.12.2016	8	15	38	74	<0.01
	Standard as per CPCB			80.0	80.0	60.0	100.0	1.0

Package	Sampling Locations	Implementation Stage	Date of Monitoring	J					
		-		SO ₂ µg/m³	NO ₂ µg/m ³	PM _{2.5} μg/m ³	PM ₁₀ µg/m ³	Lead (Pb) µg/m³	
AUIIP/PR- 1/GUW/WS- 02A and 02B	Gopal Nagar	Construction period	22.05.2017 & 19.05.2017	12	20	39	71	<0.01	
	North Joyti Nagar	Construction period	05.05.2017 & 19.05.2017	8	18	33	79	<0.01	
	Kenduguri,	Construction period	22.05.2017 & 19.05.2017	9	17	39	79	<0.01	
	Nabajyoti Nagar	Construction period	22.05.2017 & 19.05.2017	9	17	34	69	<0.01	
	Hengrabari	Construction period	22.05.2017 & 19.05.2017	7	16	39	77	<0.01	
	Standard as per CPCB			80.0	80.0	60.0	100.0	1.0	

Table 15: Ambient Noise Quality Monitoring at Different Working Locations, Guwahati, Water Supply

Packages	Sampling Locations	Implementation Stage	Date of Monitoring	Day time Max.	Day time Min.	Day Time Leq dB(A)	Night time Max.	Night time Min.	Night Time Leq dB(A)
AUIIP/PR- 1/GUW/WS- 2A and 02B	Gopal Nagar	Base line	04.112016	66.2	55.6	65	44.6	40.3	55
	North Joyti Nagar	Base line	28.12.2016	48.3	35.35	65	36.8	30.34	55
	Kenduguri,	Base line	29.12.2016	46.5	35.6	65	33.5	30.12	55
	Nabajyoti Nagar	Base line	29.12.2016	48.3	30.5	65	36.8	32.5	55
	Hengrabari	Base line	28.12.2016	47.4	40.5	65	34.8	305	55

Packages	Sampling Locations	Implementation Stage	Date of Monitoring	Day time Max.	Day time Min.	Day Time Leq dB(A)	Night time Max.	Night time Min.	Night Time Leq dB(A)
AUIIP/PR- 1/GUW/WS- 2A and 02B	Gopal Nagar	Construction period	05.05.2017& 22.05.2017	65.2	54.6	65	44.6	40.3	55
	North Joyti Nagar	Construction period	05.05.2017& 22.05.2017	47.8	33.9	65	36.8	30.34	55
	Kenduguri,	Construction period	05.05.2017& 22.05.2017	45.5	34.6	65	33.5	30.12	55
	Nabajyoti Nagar	Construction period	05.05.2017& 22.05.2017	47.3	31.5	65	36.8	32.5	55
	Hengrabari	Construction period	05.05.2017& 22.05.2017	46.4	38.5	65	34.8	305	55

28. Base line and during construction monitoring as conducted at different sites for the package AUIIP/PR-01/GUW/WS-01 indicates that base line noise level is within the CPCB standard but construction phase noise are mostly above the standard for residential and commercial areas. Mitigation measures need to be applied for control of noise level within the standard. The next environmental monitoring activities are scheduled on October/November 2017 to measure air quality, noise level and drainage silt. The cost of the environmental monitoring is charged to the funds of contractor (Ref. Monitoring budget disclosed in Appendix 3).Parameters of drainage silt are within the normal range.

Appendix 8 shows scanned copy of air quality, noise level testing results.

Table 16 Ambient Noise Quality Monitoring at Different Working Locations, Guwahati, Transmission line

Packages	Sampling Locations	Implementation Stage	Date of Monitoring	Day time Max.	Day time Min.	Day Time Leq dB(A)	Night time Max.	Night time Min.	Night Time Leq dB(A)
AUIIP/PR- 1/GUW/WS- 01	Work site, in front of Hindustan College, VIP road Guwahati (Assam)	Base line	30.01.2017	53	41	65	44.6	40.3	55
	Work site, Near Noonmati Sector-1, near Refinery Guwahati GPS location : N26°10.838"E091°48.605"	Base line	01.03.2017	68	57	65	36.8	30.34	55

Table 17: Ambient Air Quality Monitoring at Different Working Locations, Guwahati, Transmission Line

Package	Sampling	Implementation	Date of		Monito	ring parar	neters	
	Locations	Stage	Monitoring	SO ₂ µg/m ³	NO ₂ µg/m³	PM _{2.5} μg/m ³	PM ₁₀ µg/m ³	Lead (Pb) µg/m³
AUIIP/PR- 1/GUW/WS- 01	Work site, Near Noonmati Sector-1, near Refinery Guwahati GPS location : N26°10.838"E 091°48.605"	Base line	27.02.2017	14	40	90	49	
	Work site, in front of Hindustan College, VIP road Guwahati GPS location: N26°09.800"E 091°49.445"	Base line	30.01.2017	12	32	88	48	
	Standard as per CPCB			80.0	80.0	60.0	100.0	1.0

Table 18: Performance Fact Sheet for Required Environmental Consents/Clearances of AUIIP Project 1 (Package-wise)

	Package Number	Name of Contractor	EMP Part of contract		Environmenta				
	3		Document(Yes / No)	Tree Cutting	Crusher	Batching Plant	Hot Mix Plant	Diesel Generator Set	Pollution Under Control (PUC) Certificates for Contractor's Vehicles
1	AUIIP/PR- 1/GUW/WS/01	Procured and awarded to M/s. IVRCL Ltd. on 29/05/2014 and subsequently terminated on 07.12.2015 for non-performance. After rebidding of the package, M/s Tirupati Cements have been selected as L1 bidder. Contract agreement signed. LOA issued on 30.08.2016.Preliminary work in progress	Yes	-	-	-	-	-	-
2- 3	AUIIP/PR- 1/GUW/WS/02A & 02B	M/S Shivam Transcon Pvt Ltd	Yes	-	-	-	-	-	-

4	AUIIP/PR- 1/DIB/DR-01	M/s CORSAN CORVIAM CONSTRUCCION S.A.	Yes	Tree felling permission received and tree felling done mostly	Instruction given for collection from suppliers Crusher plant - Not yet required	Constructed CTE received from Pollution control board. Also CTO received from pollution control	NR as per present work	CTO received from pollution control board	Collected mostly
5	AUIIP/PR-	Contract awarded but				control board			
	1/DIB/SWM-01A	Work not started							
6	AUIIP/PR- 1/DIB/SWM-01B	Contract awarded but Work not started							
7	AUIIP/PR- 1/DIB/SWM-02	Contract is yet to be awarded.							

Table 19: Performance Fact Sheet for EMP Implementation of AUIIP Project 1 (Package-wise)

	Field to be Monitored as per EMP					$\overline{}$												
						-			FIE	eia to	De IVIC	nitore	ea as	per E	VIP			
	Package Number	Name of Contractor	EMP Part of contrac t Docum ent(Yes / No)	Contract or Social/ Environ ment Person ⁷	Overall Status of EMP Implementation	Source of Materials	Camp Sites	Landscape and	Air Quality	Noise Level	Traffic	Ecological Resources –	Accessibility	Water Quality	Occupational	Community Health	Socio cultural	Employment
					In compliance (2) / Pa	artial (Compl	iance	(1) / [Not in	compl	iance	(0) / N	lot ap	plicab	e (n/a	1)
1	AUIIP/PR-1/GUW/WS/01	Procured and awarded to M/s. IVRCL Ltd. on 29/05/2014 and subsequently terminated on 07.12.2015 for non-performance. After rebidding of the package, M/s Tirupati Cements have been selected as L1 bidder. Contract agreement signed. LOA issued on 30.08.2016.Preliminary work in progress	Yes															
2- 3	AUIIP/PR-1/GUW/WS/02A & 02B	M/S Shivam Transcon Pvt Ltd	Yes															
4	AUIIP/PR-1/DIB/DR-01	M/s Corsan Corviam Construction s.A.	Yes	Yes	Complied	2	2	2	2	2	n/ a	2	2	n/ a	1	1	n/ a	2
5	AUIIP/PR-1/DIB/SWM-01A	Work not awarded																
6	AUIIP/PR-1/DIB/SWM-01B	Work not awarded							, and the second					•				
7	AUIIP/PR-1/DIB/SWM-02	Work not awarded	. 0.1		1 1122													

{Note calculation of numerical value for determining performance status- Calculation is based on addition of numerical value like below-

Package - AUIIP/PR-1/DIB/DR/01= Total score- 2+2+2+2+2+2+1+1+2= 18. Number of working field=18, Then- 18/10=1.8- More than 1.5, fully complied

Package AUIIP/PR-1/GUW/WS/02A AND 02B= Total score- 2+2+2+2+2+2+1+1+2= 18. Number of working field=18, Then- 18/10=1.8- More than 1.5, fully complied

⁷Nomination of Environmental & Social Safeguard Officer by Contractor(Nominated / Yet to be Nominated)

VI. CONSULTATIONS AND DISCLOSURES CONDUCTED

- 29. As per approved IEE, consultations and disclosure will be a continuous process throughout Project 1 implementation involving public consultations and focus group discussions. Regular tool box training for labourer has been conducted for the Transmission line at Guwahati package and Guwahati Water supply. But there is no training programme conducted at Dibrugarh site. Appendix 12 shows some sample tool box training record for labourer. Also health camp and HIV/ AIDS awareness camp have been organized by the contractor for the labourers. Documents are also attached in Appendix 12.
- 30. The indicative schedule for consultations and disclosure is presented in **Table 18.Appendix 16**provides the sample public consultation detail. Before starting of the work at a specific locations information is provided by the construction staff to the locals about the duration and type of work. The sample documentation is attached as **Appendix 17.**

Table 20: Indicative Schedule for Consultations and Disclosure

			Tations and Disci	
Type of	Target Date	Location	Target	Responsible Person
Consultation/Disclosure			Participants	and Source of Funds
Community Consultation, FGD, Perception survey.	2 consultations bi-monthly	Dibrugarh	Community, Ward Members, Councillors Related departments. CBOs	Safeguard Specialist Environment & Social (PMC&DSC) Safeguard Compliance (PMU), Construction ,DSC Specialist Officer Manager
Community Consultation, FGD, Perception survey.	2 consultations bi-monthly	Guwahati, water supply site	Community, Ward Members, Councillors Related departments. CBOs	Safeguard Specialist Environment & Social (PMC&DSC) Safeguard Compliance Officer (PMU), Construction Manager ,DSC
Community Consultation, FGD, Perception survey.	2 consultations bi-monthly	Guwahati, Transmission site	Community, Ward Members, Councillors Related departments. CBOs	Safeguard Specialist Environment & Social (PMC&DSC) Safeguard Compliance Officer (PMU), Construction Manager ,DSC

VII. GRIEVANCE REDRESS MECHANISM

- 31. As per approved IEE, a project-specific grievance redress mechanism (GRM) to be established to receive, evaluate and facilitate the resolution of affected people's concerns, complaints and grievances about the social and environmental performance at the level of the Project. The GRM will aim to provide a time-bound and transparent mechanism to voice and resolve social and environmental concerns linked to the project. The project-specific GRM is not intended to bypass the government's own redress process; rather it is intended to address affected people's concerns and complaints promptly, making it readily accessible to all segments of the affected people and is scaled to the risks and impacts of the project.
- 32. The PMU and PIUs will make the public aware of the GRM through public awareness campaigns. Grievances can be filed in writing using the Complaint Register and Complaint Form (**Appendix 18 and Xviii**) or by phone with any member of the PMU or PIU. The contact phone number of the respective PIUs and the PMU will serve as a hotline for complaints and will be publicized through the media and placed on notice boards outside their offices and at construction sites.
- 33. GRM and GRC for Guwahati and Dibrugarh have been established.

VIII. FINDINGS AND RECOMMENDATIONS

- 34. Based on environmental monitoring conducted during July to December 2016. AUIIP Project 1(Dibrugarh) is in compliance of environmental safeguards. The main partial-compliances include:
 - Proper signages/information board at drainage worksite.
 - Need to improve use of PPE by contractor's workers at all times.
 - Need of properly barricade at worksite along the drain and excavated area
 - Regular air and noise quality monitoring
- 35. Based on environmental monitoring conducted during July to December 2016. AUIIP Project 1(Guwahati) is in compliance of environmental safeguards. The main partial-compliances include:
 - Proper signages/information board at drainage worksite.
 - Need to improve use of PPE by contractor's workers at all times.
 - Need of properly barricade at worksite along the drain and excavated area
 - Regular air and noise quality monitoring
 - Need to put GRC mechanism at the site
 - Improve sanitation facility for labourer

Table 21: Corrective Action Plan (Dibrugarh, DTP drain)

	Non-compliance	Action Required	Responsible	Target Date	Indicator of Compliance
1.	Insufficient signages/information board at drainage worksite.	Sign board needs to be arrange at all working locations	Contractor	15 th September 2017	Site observation
2	Need to improve use of PPE by contractor's workers at all times.	Use of PPE should be at all times as per site condition and work type.	Contractor	15 th September 2017 and continued	Availability and use of PPE
3.	Need of properly barricade and use of caution tape at all worksite along the drain and excavated area	Complete barricading and complete use of caution tape at all working sites	Contractor	15 th September 2017	Site observation
4	Regular air and noise quality monitoring	Monitoring should be done as per EMP	Contractor	15 th September 2017	Observation and document checking
5	Solid-waste management at the work site	Monitoring should be done as per EMP	Contractor	15 th September 2017	

Table 22: Corrective Action Plan (Guwahati, Water supply)

	Table 22. Corrective Action Flan (Guwanati, Water Supply)					
	Non-compliance	Action Required	Responsible	Target Date	Indicator of Compliance	
1.	Insufficient signages/information board at drainage worksite.	Sign board needs to be arrange at all working locations	Contractor	15 th September 2017	Site observation	
2	Need to improve use of PPE by contractor's workers at all times.	Use of PPE should be at all times as per site condition and work type.	Contractor	15 th September 2017 and continued	Availability and use of PPE	
3.	Need of properly barricade and use of caution tape at all worksite along the drain and excavated area	Complete barricading and complete use of caution tape at all working sites	Contractor	15 th September 2017	Site observation	

	Non-compliance	Action Required	Responsible	Target Date	Indicator of Compliance
4	Regular air and noise quality monitoring	Monitoring should be done as per EMP	Contractor	To be continued as per EMP	Observation and document checking
5	Need to put GRC mechanism at the site	Display of Grievance board at the site	Contractor	15 th September 2017	Site observation
6	Improve sanitation facility for labourer	Stay arrangement and drinking water facility need to improve	Contractor	15 th September 2017	Site observation

Table 23: Corrective Action Plan (Guwahati, Transmission Line)

	Non-configuration of the Property of the Prope					
	Non-compliance	Action Required	Responsible	Target Date	Indicator of	
					Compliance	
1	Need to improve use of PPE by contractor's workers at all times.	Use of PPE should be at all times as per site condition and work type.	Contractor	15 th September 2017 and continued	Availability and use of PPE	
2	Regular air and noise quality monitoring	Monitoring should be done as per EMP	Contractor	To be continued as per EMP	Observation and document checking	
3	Need to put GRC mechanism at the site	Display of Grievance board at the site	Contractor	15 th September 2017	Site observation	
4	Improve sanitation facility for labourer	Stay arrangement and drinking water facility need to improve	Contractor	15 th September 2017	Site observation	

The programme will help the state to achieve the Millennium development Goals on environment Goals on Environmental sustainability and increase access to safe drinking water and basic sanitation. Through improved sewerage systems, the risk of severe flooding and drainage pollution in the project area will considerably reduce. This coupled with the state's strategic position will encourage greater business opportunities and enhance greater regional cooperation.

APPENDIX-GUWAHATI M/S Tirupati Cement Products, Guwahati

ASSAM URBAN INFRASTRUCTURE INVESTMENT PROGRAM (ADB Loan No.2806-IND)

Package No-AUIIP/PR-1/GUW/WS/01

Contract Title: Construction of Water Supply Transmission Main pipe lines and allied works in South East Guwahati Water Supply

Project

WORKPLAN FOR Transmission Main pipe lines and allied works

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Appendix- II

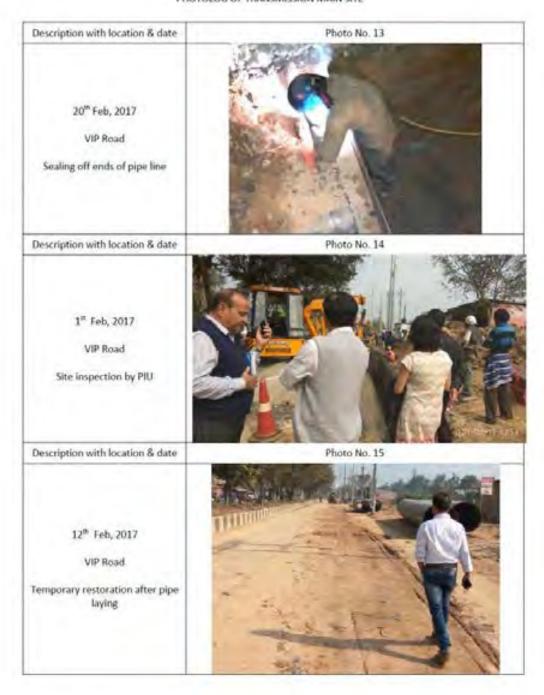
Photo Album

Description with location and date	Photo No. 1
30 th Jan, 2017 VIP Road Inauguration of pipe laying work	
Description with location and date	Photo No. 2
30 th Jan. 2017 VIP Road Inauguration of pipe laying work	
Description with location and date	Photo No. 3
2 ^{sa} Feb, 2017 VIP Road Pipe laying work in progress	

Description with location and date	Photo No. 4
5 th Feb, 2017 VIP Road Road cleaning work	
Description with location and date	Photo No. 5
8 th Feb, 2017 VIP Road Water sprinkling to avoid dust	
Description with location and date	Photo No. 6
13 th Feb, 2017 VIP Road Lowering of 1200 mm dia pipe in the trench	

Description with location and date	Photo No. 7
30 th Jan, 2017 VIP Road Environmental data Collection	
Description with location and date	Photo No. 8
15 th Feb, 2017 VIP Road Welding Work in progress	
Description with location and date	Photo No. 9
18 th Feb, 2017 VIP Road External Coating work in progress	

Description with location and date	Photo No. 10
19 th Feb, 2017 VIP Road Sand bedding Under the pipe	
Description with location and date	Photo No. 11
6 th Feb, 2017 VIP Road Grinding of pipe edge before welding	
Description with location and date	Photo No. 12
11 th Feb, 2017 VIP Road Pipe lowering in pit	



Description with location & date	Photo No. 16
20 th Mar, 2017 Noonmati Sealing off ends of pipe line	
Description with location & date	Photo No. 17
25 th Mar, 2017 Noonmati Excess earth disposal	
Description with location & date	Photo No. 18
30 th Mar, 2017 VIP Road Thrust Block Work	

Description with location & date	Photo No. 19
2 rd Mar, 2017 Noonmati Pipe installation Work	
Description with location & date	Photo No. 20
16 th Mar, 2017 Noonmati Pipe installation at turning	
Description with location & date	Photo No. 21
16 th Mar, 2017 VIP Road Slab Work	

Description with location & date	Photo No. 22
24 th Apr, 2017 Noonmati Excavation work for pipe near petrol pump	
Description with location & date	Photo No. 23
26 th Apr., 2017 Noonmati Sand bedding	
Description with location & date	Photo No. 24
28 th Apr, 2017 Noonmati Welding works	

Description with location & date	Photo No. 25
5 th May, 2017 Noonmati Dry penetration Test	
Description with location & date	Photo No. 26
5 th May, 2017 Noonmati Dry penetration Test Application of developer	
Description with location & date	Photo No. 27
10 ^M May, 2017 Noonmati Sealing off ends	

TIRUPATI CEMENT PRODUCTS

SAFETY BUDGET

Period: 01-01-2017 to 31-12-17

Assam urban Infrasture Investment Program

Contract Parkage: Construction of Water Supply Transmission Main Pipelines and Allied Warks in Governor.

5.No	item	Unit	Quantity	Rate in this	Cost Estimate
1	safety helmet white	Not	10	185	125
	safety helmet yellow	New	100	185	1850
3	safety helmet green	Nos	2	185	37
- 4	helmes ring	fice	200	35	700
- 5	safety thoes for staff	Pair	10	1200	1500
6	safety slices for labour	Pain	60	550	33000
	guro bilat	Pair	30	350	10500
- 8	Safety goggia White glass.	Nos:	30	- 90	2700
9	Sefety Griggle Black Glass	Nos.	30	- 90	2700
10	Ear Plug Form Based	Nos	-100	15	1500
- 11	Note Mask	No.	100	12	1200
-12	Hand Gloves Aubber	Pair	100	50	3000
.13	Hand Gloves Cotton	Par	100	23	2300
14	Hand Gloves Leather	Pair	200	60	12000
-25	Fice Body Harmess	fice-	10	2100	21000
16	Reflecting Jacket Group	Nos	100	80	8000
17	Reflecting Jacket Grange	Nos	100	80	8000
16	Helmirt Sticker	Nos	150	- 2	300
19	idlery Doctay Banners	NO	- 5	350	2750
201	Safety Sine Board	Mos	100	3500	150000
22 1	ine Extinguisher-OCF	Nos.	4	8900	15600
22	Selling Charge	Nes	A	2500	10000
2.5	Tope For Materials Shifting	Ne.	50	250	12500
24 6	Spriceding Tape	Roll	50	300	15000
25 2	5MM PP Rope For Lifeting	62	301	720	6800
.26 5	alary For Safety Officer	1918	28000	12	336000
276	Activation & Awards	140-6	4	10000	40000
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Prepared by UB Yaltav (HS) Officer)

Chaman Ancar (Prill)

Certificate for Land Possession





Govt. of Assam

Office of the Executive Engineer, PWD(R), Guwahati City Division No-II, Guwahati-21
No: Commn - 173/2014-17/423
Dtd: (4/02/2017)

R C Asthana (Team Leader), DSC, AUIIP, Shah Technical Consultants Private Limited, 3rd Floor, Tripti Tower, Ganeshguri

Sub : Permission for Laying of Transmission Water Supply Pipe Line (Contract Package No - AUIIP/PR-1/Guw/*WS/01)

Ref. No.STC/AUIIP/DSC/1691/, D ated: 08/09/2016 from R.C. Asthana (Team Leader), DSC, AUIIP,

Sir,

As per joint verification and its subsequent minutes of meeting held in the conference Hall of Guwahati Development Department in connection with road restoration, R.c.W & Pipe Line Crossing for JNNURM, JICA and ADB Water Supply Projects on 21.01.2017 permission / NOC is hereby accorded subject to the following terms & conditions. This permission is admissible only for those roads falling under the jurisdiction of the office of the Executive Engineer, PWRD Guwahati Gily Division No-II.

Terms and condition:

- 1. The water pipe laying works should be started and carried out in consultation with the Assistant Executive Engineer, City Sub Division No-III (Mobile No. 9864046189) Guwahati-21& City Sub Division No-IV (Mobile No-9435146260) and the agency (Shah Technical Consultants Private Limited) must ensure safety of PWD assets and must enforce the condition of this permission from commencement to completion of pipe laying work.
- 2 The water pipe laying agency will have to carry out the restoration works of all the roads damaged due to laying of the water pipe laying work as per PWD standards and specification to bring the road surfaces to the pre excavated condition without any delay immediately after their completion of water pipe laying process and must abide by the all terms and condition (Resolution No 1, 2 & 3) incorporated in the minutes of the meeting held among Commissioner & Secretary GDD, Commissioner & Spl. Secretary, PWRD, Commissioner & Spl. Secretary, NH & Building, CEO, GMDA & Officers of other Authorities etc.
- Authorized Officer of agency (Shah Technical Consultants Private Limited) must formally acknowledge the receipt of this permission letter and they will have to abide by all conditions entered in this permission letter.
- Any suggestion regarding cutting of PWD Road and hard crust and any modification in connection with the proposed water pipe laying work will have to be strictly followed:
- Necessary sign and cautionary board will have to be displayed from your end during execution of water pipe laying work. For this purpose fluorescent signage shall have to be displayed with proper barricades, ribbons etc. for easy visibility during night with view to avoiding any untoward accident.
- 6 There shall not be any disturbance in movement of vehicular traffic as well as pedestrians during the water pipe laying process.
- 7 Construction materials must not be dumped within the Right of Way of PWD land.

- 8. The agency (Shah Technical Consultants Private Limited) shall have to shift the laid pipes during future widening/development of the roads at their own cost as and when requested by PWRD, within a time frame given by PWRD.
- 9. The agency (Shah Technical Consultants Private Limited) must ensure safety and security of existing all other underground installations/utilities/facilities including OIL Pipe line in some places and shall be solely responsible for compensation / indemnification to the concerned authority for damage caused /claims or replacement sought for at the cost of and risk of the water pipe laying agency.
- 10. Report-regarding actual date of Commencement of Work must be submitted to the undersigned and you're the contractor M/S Tirupati Cement awarded by your end must carry out the works without at all lapse of time between excavation and restoration works to avoid any disruption of road users.
- The laying works to be carried out with prior intimation to the nearest Police Station to get rid of traffic hazard.
- 12. The stipulated time of completion is 2 (Two) months from the date of issue of this letter and the permission granted shall stand terminated at the end of 2(Two) months. The term will be extended after further approval of Departmental higher authority.
- 14. PWRD reserves the right to cancel the permission granted for breach of any of the aforementioned conditions and the conditions entered in the minutes of meeting, also reserves the right to impose further condition(s) in the interest of safe condition of roads, safety of pedestrians and vehicular traffic.

This is for favour of your kind information and necessary action.

Yours faithfully,

(Er. Sanjiv Shyam)

Executive Engineer, PWD(R)

Guwahati City Division No-II

Dtd

Guwahati-21

Memo No Copy to

 The P.S. to the Commissioner & Secretary Guwahati Development Department for favour of kind apprisal to the Commissioner & Secretary.

P.S to the Commissioner & Spl. Secretary to the Govt. of Assam, PWRD, Dispur Guwahati-6 for favor of kind apprisal to the Commissioner & Spl. Secretary.

 The P.S to the Commissioner & Secretary to the Govt. of Assam, GDD, Dispur Guwahati-6 for favor of kind appraisal to the Commissioner & Secretary.

4. The Chief Engineer, PWRD, Assam, Chandmari, Guwahati-3 for favour of kind information.

- The Superintending Engineer, PWD(R), Guwahati ARIASP Circle, Guwahati-3 for favour of kind information.
- 6. The Project Director, AUIIP for information & necessary action.

 The Asstt. Executive Engineer, PWD(R), Guwahati City Sub Division No – III & City Sub Division No-IV Guwahati-21 for information and necessary action..

(Er. Sanjiv Shyam)
Executive Engineer, PWD(R)
Guwahati City Division No II
Guwahati 21





GOVERNMENT OF ASSAM

OFFICE OF THE DISTRICT MAGISTRATE; KAMRUP METROPOLITAN DISTRICT::GUWAHATI

(MAGISTERIAL BRANCH)

Telephone – 0361-2540149 Fax – 0361-2544452 E-mail – <u>kamrupmetro@nic.in</u> eb Site – www.kamrupmetro.nic.in

ORDE

Seen and perused the application submitted by the Project Director, Assam Urban Infrastructure Investment Program, 3rd Floor, Tripti Tower, Ganeshguri, Guwahati vide No ADB/AUIIP/TRM Mains/144/2016/326 dated 22/05/2017 requisting permission to excavatation and laying of MS Pipes.

Accordingly, permission is hereby accorded to the Project-Director, Assam Urban Infrastructure Investment Program, 3rd Floor, Tripti Tower, Ganeshguri, Guwahati for a period of 30 (thirty) days with effect from the date of issue of this order for excavation/digging to lay pipes from Refinery Gate to Chausali to implement the South East Guwahati Water Supply Project on the following terms and conditions and subject to the condition that there is no violation of the provisions of the Hill Cutting Act or any other Law in force-

1) Only excavation and digging is allowed to lay MS Pipes.

Removal of excess earh shall not be undertaken by the organizer during rainy weather.

- 3) The C.O.,Guwahati Revenue circle and D.F.O Kamrup East Division will supervise and monitor the day to day work and will ensure that the work is done properly. He will submit the exact date of starting the work, quantity of earth excavated per day to Deputy Commissioner, Kamrup Metropolitan every day. Any violation of the conditions should be immediately reported;
- Petitioner shall strictly and scrupulously ensure environmental concerns and follows the Provisions of the Assam Hills and Echological Site (Protection Management) Act 2006.
- The Project Director shall ensure that no property Govt or private is damaged during the work.
- 6) The Project Director shall ensure that no any emergency eventuality happens due to the excavation of the soil like landslides and other related disaster.

Permission will be withdrawn at any time on violation of conditions and/or receipt of any complaint from any corner.

This has the approval of the Depuy Commissioner Kamrup Metropolitan District in File No KMJ 62/2017 dated 02/06/2017.

IIII liaai

Addl. Deputy Commissioner, Kamrup Metropolitan District, Guwahati

Dated: 15 /06/2017

Memu No. KMJ 62/2017/14 /1681 Copy to-

The Commissioner of Police, Guwahati, Assam, for favour of information.
 The Project Director, Assam Urban Infrastructure Investment Program, 3rd Floor, Tripti Tower, Ganeshguri, Guwahati for favour of information.

3) The Circle Officer Guwahati Revenue Circle.

 The Divisional Forest Officer Kamrup East Division, Guwahati for information and necessary action.

5) The O/C Noonmati Police Station.

6) P.A. to D.C. for appraisal of the Deputy Commissioner Kamrup Metropolitan

Office of

Addl. Deputy Commissioner, Kamrup Metropolitan District, Guwahari Addl. Deputy Commissioner

Kamrup Metropolitan District

Guwahati

capy becaused

N. F. Railway

Office of the Sr. Divisional Engineer/Co-Ord Maligaon, Guwahati-11

No. W/214/Way leave/G/AUIIP /1280

Date: 11 .01.2017

To

The Project Director,

Assam Urban Infrastructure Investment Programme (AUIIP)
Ganeshgun, Guwahati-5

Sub:

Way leave facility for laying and underground crossing of Rly. track by 1300mm and 500mm dia water supply pipeline at KM 16.3

to 17.98 of GHY-NNGE section by AUIIP

Ref-

Your online application ID No NFR-LMG-2016-111 dtd.13.09.2016

SIL

In terms of above, enclosed please find herewith the agreement copy executed between the Railway and AUIIP in connection with way leave facility for laying and underground crossing of Rly track by 1300mm and 500mm dia water supply pipeline at KM 16.3 to 17.98 of GHY-NNGE section by AUIIP

If is requested to execute the work in accordance with the provisions as indicated in the agreement.

Blue print copy of the approved plan No SK/16/2015 is also enclosed horswith for your ready reference please

(R & Paùl) Divisional Engineer/Special N F Railway Maligaon

Copy to.

Si DEE/GHV I for information please

2 DSTE/MLG

3.ADEN/T/GHY

4 ADENMIGHY

V5.SSE/WINGC

✓5.SSE/P Way/NGC

7.SSE/Tele/GHY

8 SSE/PINGC

9.5SE/Sig/GHY

for information & necessary action in this regard please

Divisional Engineer/Special N. F. Railway, Malignon

-coom/, /37



1455

AGREEMENT OF WAY LEAVE FACILITY FOR LAYING UNDERGROUND WATER SUPPLY PIPE LINE ON RAILWAY LAND & CROSSING UNDER RAILWAY TRACK AT KM 16.326 and 17.98, NEAR NOONMATI ROB BY THE PRJECT DIRECTOR, ASSAM URBAN INFRASTRUCTURE INVESTMENT PROGRAMME (AUIIP), GUWAHATI-781005

An AGREEMENT made this . 1 th. day of Donkovy 2017 (year) between the PRESIDENT OF INDIA represented by Divisional Engineer/Spl/N F Railway. Maligaon, (hereinafter referred to Railway) of the one part and Assam Urban Infrastructure Investment Programme, Ganeshgun, Guwahati-781005, represented by Project Director, Assam Urban Infrastructure Investment Programme, Caneshgun, Guwahati-781005 (hereinafter referred to AUIIP) of the other part, for laying water supply pipe line on railway land and crossing under railway track at Railway Km.16.326 and 17.98 of GHY-NNGE section near Noonmati road over bridge, Guwahati under following terms and conditions.

Permission is only hereby accorded under Way leave facility by the Divisional Railway Manager /N F Railway /Laimding to AU/IIP for laying water supply paper

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Mart officers' Rich on the horrows from the collections of the colpages on railway land and crossing under the railway track as mentioned above. The permission accorded hereby is temporary till 31 03,2027. This agreement will oxpire on 31 03 2027.

Length and width of railway land involved for the crossings as per approved plan

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That no land other than that mentioned above as per SR DEN/C/MLG's plan No SK 16 2015 is covered under this agreement

- This permission shall be guided by the Railway's Policy guidelines in force.
- The land in question is Railway land and will remain with the Railway Railway Administration retains full rights to enter upon, pass through or use the Railway land at any time without any Notice to the AUIIP.
- Nobody from AUIIP or agent engaged by AUIIP will enter upon the railway land for laying repair maintenance of the underground water supply pipe line or whatsoever without the consent of railway.
- The Railway Administration has the right to terminate I temporarily suspend this Agreement with a one month Notice to the AUIIP in the event of railway's interest that would track is required for set right re-modeling conversion etc. Any notice by Railways shall be deemed duly served to AUIIP if sent by post to the above mentioned address of AUIIP.
 - The AUTP may terminate this agreement with Railway on giving one month notice in writing to the Railway and such notice shall be deemed sufficiently served if sent by the registered post to the Sr. Divisional Engineer/Co-ordination/N.F. Railway. Malugaon or delivered at his office. The cost of dismantling, supervision

for removal of the installation without interfering the safety rules, safety of railway structures will be borne by the AUIIP. Such dismantling should be carried out under the supervision of railway. The repairing of railway land and structures arising out of such dismantling should be carried out at the cost of AUIIP.

Permission granted through this agreement is under way leave facility and is only a constant of AUIIP for the purpose as specified. In the event of the way leave track crossing facility being discontinued with, the Railway will neither be hable to pay any compensation nor reimburse any amount to the AUIIP nor provide any alternative arrangement for access to AUIIP.

- In the event of continuing this way leave facility accorded beyond the scope of this agreement. AUIIP should apply to railway 01 year prior to the expiry of Way leave permission granted upto 31.03.2027. The railway will have the absolute discretion for granting such extension permission or otherwise. Way leave charges for such extension shall have to be paid by AUIIP followed by execution of an Agreement, as per Railway's guide line in force at the time of granting such permission.
- The underground water supply pipe line crossings shall no way interfere with or endanger any Railway communication lines/installations. Periodical inspection and maintenance of the crossing shall be carried out by AUHP for maintaining the crossing of water supply pipe line to avoid any untoward incident/ hazards to lite loss of property damage to installations etc.
 - In the event of any defect failure arising out of the crossings affecting the safe movement of the railway traffic/ safety of the railway property/life, the AUIIP shall report the same as soon as possible without loss of time to the Station Manager on duty at the nearest railway station of the crossings, concerned railway authorities. Defect failure of the water supply pipe lines shall have to be rectified immediately without any loss of time by AUIIP at the satisfaction of railway.

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- Any installation of underground water supply pipe line put up by the AUIIP, if necessary are hable to be removed / shifted by AUIIP at its own cost.
 - Prior intimation to supervisors/SSEs of concerned railway departments should be used by AUHP in writing at least 07 days in advance of commencing the work. The work will be done by the AUHP in day time under the supervision and direction in Railway Engineers of the concerned departments observing all safety rules &
 - work excavation. AUIIP is liable to pay penalty as decided by Railway for the damages loss occurred and repair the same at the cost of AUIIP to the satisfaction of Railway.
- 15 The work to be executed by strictly following Sr DEN/C/MLG's plan No. 5K 16 2015 using trenchless technology (e.g. HDD or similar method) for the underground portion of crossings. Necessary clearance may be obtained by AUIIP from concerned Road & ROB authority for laying pipe line adjacent to Flyover Le ROB etc. No diagring open trenches / entry or exit pit within railway land boundary is permitted.
- AUTIP—has deposited to the Railway an amount of ₹ 1,41,83,819/- in total being way leave charges for block period of 10 (ten) years i.e. upto 31.03.2027 on the land in which the applicant will execute the work including Supervision charges and Secure tax.
- In the event of it being necessary in the opinion of the railway to support or protect the Railway track and or land or works during the execution of the crossing work, any repairs thereto or any removal thereof the work or protecting the Railway track or land and restoring the track and land to its original condition of such part of the said work as the Railway shall deem fit will be carried out by the Railway at the cost of the AUIIP in all respects. The amount of such cost will be determined by the Railway in its absolute discretion and will be paid by the AUIIP to the Railway on demand.

- 5 The AUTP will not sublet, transfer or assign this Agreement or any of the privileges hereby granted without the prior consent in writing from the Railway
- the AUTP shall be responsible to keep the track, land, structures, installations etc.

 n good condition. If any damage is caused or likely to be caused directly/indirectly remotely, at the time of execution of the work or during the continuance of the way.

 The permission, the cost of repairing works of the railway assets shall be borne by
- The AUIIP shall pay maintenance charges if any arises during the continuance of way leave facility provided to AUIIP
- Third party comprehensive liability insurance is to be borne by AUIIP for compensating any claims arising out of damage/loss of life or property of Railwaymen. Railway users. Others due to any mishap on account of faulty working by AUIIP or by anyway whatever during its laying operation continuance maintenance of the water supply pipe line crossings.
- Railway will not be responsible for any loss or damage caused to the property of AUIP by either men employed on Railway works or others or by any accident or by fire or by any way whatever
- Settlement of dispute: All disputes and differences will be settled by Arbitration in the spirit of the provisions laid in the General Conditions of Contract, July,2013 edition of N.F. Railway and latest circular / amendments issued from time to time
- Excavated material: The AUIIP shall not sell or otherwise dispose of or remove the sand, stone, clay, ballast, earth, rock or other substances or materials which may be obtained from any excavation made for the purpose of the works or any building an produced upon the site at the time of delivery of the possession thereof, but all the substances, materials, buildings and produce shall be the property of the Railway provided that the AUIIP may, with the permission of the Railway Imprices use the same for the purpose of the works either free of cost or pay the

- Indemnity by AUIIP: The AUIIP shall indemnify and save harmless the Railway from and against all actions, suit, proceedings, losses, costs, damages, charges, claim and demands of every nature and description brought or recovered against the Railways by reason of any act or omission of the AUIIP, his agents or employees, in the execution of the works or in his guarding/maintenance of the same. All sums payable by way of compensation under any of these conditions shall be considered as teas-mable compensation to be applied to the actual loss or damage sustained and
- Jurisdiction of the Court: The Court of the place at which the deed of Agreement has been executed shall alone have the jurisdiction to decide upon the disputes differences that may arise out of this deed.

In witness whereof the parties have here to set and subscribed this the day, month and year mentioned against their respective at the office of the Sr. Divisional Engineer Co-ordination N.F. Railway, Maligaon

WILNESS

Name Address	*	Divisional Engineer Spl N.F. Railway Maligaon for and on behalf of
		PRESIDENT OF INDIA
2) Name	/ / L/L 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Office Seal
vidres-	14 (
	W.C.	
		1
5) Same	m	Project Director
Tildress		Assam Urban Infrastructure Investmen
		Programme
	- ******** +	Ganeshgun, Guwahati 781005 Office Sea!
1) Same		

Consent to Operate for two numbers of D.G Sets



Pollution Control Board:: Assam Bamunimaidam: Guwahati-21

(An ISO 9001:2008 & BS OHSAS 18001:2007 Standard Certified Otto Phone: 0361-2652774 & 2550258; Fax: 0361-2550259

Website: www.pcbassam.org

No. WB/GUW/T-3496/17-18/32

M/s. Tirupati Cement Products AT Road, Vishnu Market Bharalumukh, Guwahati Dist: Kamrup (M) (Assam),

Sub: "Consent to Operate" upto 31st March, 2018 under Air (Prevention & Control of Pollution) Act, 1981 for 2 Nos. of DG Set of capacity 63 KVA each.

Dear Sir.

With reference to your application in the name and style as mentioned above, the Board is pleased to grant the "Consent to Operate" under the Air Act, upto 31st March, 2018 under the terms and conditions as per Appendix - "A" enclosed alongwith this letter.

You are also requested to apply for "Consent to Operate" for the year 2018-2019 within November, 2017.

Yours faithfully.

Dated Guwahati, the 12/7

Member Secretary(i/c) Dated Gowahati, the 17/7

Memo No. WB/GUW/T-3496/17-18/32 - A.

Copy to:

- 1. The Under Secretary, Environment & Forests Department, Govt. of Assam, Dispur, Guwahati-6 for favour of information.
- The Deputy Commissioner, Kamrup (M) district for favour of information.
 The General Manager, DI&CC, Kamrup (M) for information.

4. The Addi. Chief Eriv. Engineer. Regional Office, Guwahati, PCBA for information & necessary action.

Member Secretary(I/c)



Appendix- V
SITE SPECIFIC ENVIRONMENT MANAGEMENT PLAN, TRANSMISSION LINE

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation
Utilities	Telephone lines, electric poles and wires, water lines within proposed project area	(i) Identify and include locations and operators of these utilities in the detailed design documents to prevent unnecessary disruption of services during construction phase; and (ii) Require construction contractors to prepare a contingency plan to include actions to be done in case of unintentional interruption of services.	DSC	(i) List of affected utilities and operators; (ii) Bid document to include requirement for a contingency plan for service interruptions
Structure stability in seismic zone V	Affect during earthquake	Design and analysis as per the Peak Ground Acceleration (PGA) and the seismic acceleration response curve and other factors like Response Reduction Factor (RRF) and Importance Factor (IF) as per the Indian Standard code	DSC/ PIU	(i) Checking of design report – consideration of design measures to minimize earth quake risk
Water Supply	Health risk due to closure of water supply during connection	(i) Plan the construction program to keep the cessation of water supplies to the minimum possible (in both area and duration); and (ii) In coordination with GMC, provide alternative potable water to affected households and businesses for the duration of the shut-down if any	DSC	(i) Schedule of closure if any; (ii) delivery of potable water to affected people by GMC
Traffic Management	Impede traffic flow during construction	(i) Prepare a traffic management plan during preconstruction phase.	DSC	Ensure Traffic Management Plan is finalized before implementation. Draft Traffic Management Plan is prepared and attached as Appendix 3

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation
Social and Cultural Resources	uncover and damage	(i) Consult Archaeological Survey of India (ASI) or concerned department in Guwahati to obtain an expert assessment of the archaeological potential of the site; (ii) Consider alternatives if the site is found to be of medium or high risk; (iii) Develop a protocol for use by the construction contractors in conducting any excavation work, to ensure that any chance finds are recognized and measures are taken to ensure they are protected and conserved.	DSC	Chance Finds Protocol
Construction work camps, hot mix plants, stockpile areas, storage areas, and disposal areas.		(i) Prioritize areas within or nearest possible vacant space in the subproject location; (ii) If it is deemed necessary to locate elsewhere, consider sites that will not promote instability and result in destruction of property, vegetation and drinking water supply systems; (iii) Do not consider residential areas; and (iv) Take extreme care in selecting sites to avoid direct disposal to water body which will inconvenience the community.	PMU/PIU and DSC to determine locations prior to construction	construction work camps, hot mix plants, stockpile areas,
Sources of Materials	disrupt natural land contours and vegetation resulting in	(i) Prioritize sites already permitted by the Mining Department;(ii) If other sites are necessary,	PMU/PIU and DSC to prepare list of approved quarry sites and	(i) List of approved quarry sites and sources of materials; (ii) Bid document to include
	•	inform construction contractor that it		requirement for verification of

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation
	patterns, ponding and water logging, and water pollution.	is their responsibility to verify the suitability of all material sources to obtain the approval of PMU/P and	e materials and	suitability of sources and permi for additional quarry sites if necessary.
DSC = Design Su	pervision Consultant, PMU = Project Mana Anticipated Impacts a	(iii) If additional quarries wi required after construction is sta inform construction contracto obtain a written approval PMU/PIU. gement Unit; PIU = Project Implement and Mitigation Measures - Co	arted, or to from entation Unit	
Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation
Sources of Materia	Extraction of rocks an material may caus ground instability		Construction Contractor	Construction Contract documentation
Air Quality	Emissions fror	monthly basis documentation of sources of materials.	Construction Contractor	(i) Location of stockpiles;
	construction vehicles equipment, and machinery	s, PMU/PIU/DSC on the		(ii) Complaints fro sensitive receptors;

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation
	construction resulting to dusts and increase in concentration of vehicle-	construction materials; (iii) Damp down exposed		(iii) Heavy equipment and machinery with air pollution control devices; (iv)Ambient air for respirable particulate matter (RPM- PM10 & PM2.5) and suspended particulate matter (SPM); (v) Vehicular emissions such as sulphur dioxide (SO ₂), nitrous oxides (NOx), carbon monoxide (CO), and hydrocarbons
Traffic Management	Impede traffic flow during construction	(i) Implement a traffic management plan during preconstruction phase.	Construction Contractor	DSC to ensure traffic management measures are implemented and traffic is not significantly impeded during construction period.
Surface water quality	materials, run-off from stockpiled materials, and chemical contamination		Construction Contractor	(i) Areas for stockpiles, storage of fuels and lubricants and waste materials; (ii) Number of silt traps installed along drainages leading to water bodies; (iii) Records of surface water quality inspection; (iv) Effectiveness of water management measures; (v) For inland water:

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation
		areas; (iii) Install temporary silt traps or sedimentation basins along the drainage leading to the water bodies;		suspended solids, oil and grease, biological oxygen demand (BOD), and coliforms.
		(iv) Place storage areas for fuels and lubricants away from any drainage leading to water bodies;		
		(v) Dispose any wastes generated by construction activities in designated sites; and		
		(vi) Conduct surface quality inspection according to the Environmental Management Plan (EMP).		
Noise Levels	Increase in noise level due to earth-moving and excavation equipment, and the transportation of equipment, materials, and people			(i) Complaints from sensitive receptors; (ii) Use of silencers in noise -producing equipment and sound barriers; (iii) Equivalent day and night time noise levels
		(ii) Require horns not be used unless it is necessary to warn other road users or animals of the vehicle's approach;		
		(iii) Minimize noise from construction equipment by using vehicle silencers,		

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation
		fitting jackhammers with noise- reducing mufflers, and portable street barriers the sound impact to surrounding sensitive receptor, and (iv) Maintain maximum		
		sound levels not exceeding 80 decibels (dbA) when measured at a distance of 10 m or more from the vehicle/s.		
Ecological resources – Terrestrial	Felling of the trees – affect terrestrial ecological balance	(i) Minimize removal of vegetation and disallow cutting of trees;	Construction Contractor	(i)Complaints from sensitive receptors; (ii) checking of conservation
		(ii) If tree-removal will be required, obtain tree-cutting permit from Municipal Corporation,		management plan for tree species and aquatic fauna/ animal
		(iii) Require to plant three (3) native trees for every one (1) that is removed; and		
		(iv) Prohibit employees from poaching wildlife, bird hunting, and cutting of trees for firewood.		
Existing Infrastructure and Facilities	Disruption of service and damage to existing infrastructure at specified project location	PMU/PIU/DSC the list of	Construction Contractor	Existing Utilities Contingency Plan
		(ii) Prepare a contingency plan to include actions to be		

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation
		(x) Unwanted material and litter will be removed on frequent basis;		
		and (xi) Request PMU/PIU/DSC to report in writing that the necessary environmental restoration work has been adequately performed before acceptance of work.		
Accessibility	Traffic problems and conflicts near project locations and haul road		ntial for om all iderate iwahati v road	(i) Traffic Manageme Strategy; (ii) Complaints fro sensitive receptors; (iii) Number of signage placed at subproje location

Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation
	traffic aids if transportation activities cannot be avoided		
	during peak nours; (vii) Notify affected sensitive receptors by providing sign boards informing nature and duration of construction works and contact numbers for concerns/complaints.		
	(viii) Provide planks across trenches in front of businesses, and ensure works are completed quickly to avoid disruption, and		
	(ix) Avoid full street closure		
Impede the access of residents and customers		Construction Contractor	(i) Complaints from sensitive receptors;
to nearby shops	(ii) Provide walkways and metal sheets where required for people;		(ii) Number of walkways, signages, and metal sheets placed at
	(iii) Increase workforce in front of critical areas such as institutions, place of worship, business establishment, hospitals, and schools;		subproject location.
	(iv) Consult businesses and institutions regarding operating hours and factoring this in work schedules; and		
	Impede the access of residents and customers	traffic aids if transportation activities cannot be avoided during peak hours; (vii) Notify affected sensitive receptors by providing sign boards informing nature and duration of construction works and contact numbers for concerns/complaints. (viii) Provide planks across trenches in front of businesses, and ensure works are completed quickly to avoid disruption, and (ix) Avoid full street closure Impede the access of residents and customers to nearby shops (i) Leave spaces for access between mounds of soil; (ii) Provide walkways and metal sheets where required for people; (iii) Increase workforce in front of critical areas such as institutions, place of worship, business establishment, hospitals, and schools; (iv) Consult businesses and institutions regarding operating hours and factoring this in work	traffic aids if transportation activities cannot be avoided during peak hours; (vii) Notify affected sensitive receptors by providing sign boards informing nature and duration of construction works and contact numbers for concerns/complaints. (viii) Provide planks across trenches in front of businesses, and ensure works are completed quickly to avoid disruption, and (ix) Avoid full street closure Impede the access of customers to nearby shops (ii) Leave spaces for access between mounds of soil; (iii) Provide walkways and metal sheets where required for people; (iii) Increase workforce in front of critical areas such as institutions, place of worship, business establishment, hospitals, and schools; (iv) Consult businesses and institutions regarding operating hours and factoring this in work schedules; and

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation
		pedestrians to inform nature and duration of construction works and contact numbers for concerns/complaints.		
Employment Generation	construction. • Expectations regarding new employment will be high especially among the unemployed individuals in the area.	intensive construction measures will be used where appropriate; (ii) Employ local (unskilled) labor if possible; (iii) Training of labor to benefit individuals beyond completion of the subproject; and (iv) Recruitment of labors will take place offsite.		(i) Employment records; (ii) records of sources of materials
Occupational Health and Safety		(i) Develop and implement site-specific Health and Safety (H&S) Plan which will include measures such as: (a) excluding public from the site; (b) ensuring all workers are provided with and use Personal Protective Equipment like helmet, gumboot, safety belt, gloves, nose musk and		(i) Site-specific Health and Safety (H&S) Plan; (ii) Equipped first-aid stations; (iii) Medical insurance coverage for workers; (iv) Number of accidents; (v) Supplies of potable drinking water;

Field Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation
	ear plugs; (c) H&S Training for all site personnel; (d) documented procedures to be followed for all site activities; and (e) documentation of work-related accidents; (ii) Ensure that qualified first- aid can be provided at all times. Equipped first-aid stations shall be easily accessible throughout the project site; (iii) Provide medical insurance coverage for workers; (iv) Secureall installations from unauthorized intrusion and accident risks; (v) Provide supplies of potable drinking water at working sites; (vi) Provide clean eating where workers are not expendicated in the site of the site rules of work at the site, perotective protection, and preinjuring to fellow workers;	areas psed to tances; entation ensure basic ersonal	(vi) Clean eating areas where workers are not exposed to hazardous or noxious substances; (vii) record of H&S orientation trainings (viii) personal protective equipments; (ix) % of moving equipment outfitted with audible back-up alarms; (xi) sign boards for hazardous areas such as energized electrical devices and lines, service rooms housing high voltage equipment, and areas for storage and disposal.

Field	Anticipated impact	Mitigation Measures Respons Mitigatio	
		(viii) Provide visitor or entation if visitors to the site can gain access to areas where hazardous conditions or substances may be present. Ensure also that visitor/s do not enter hazard areas unescorted;	
		(ix) Ensure the visibility of workers through their use of high visibility vests when working in or walking through heavy equipment operating a reas;	;
		(x) Ensure moving equipment is outfitted with audible back- up alarms;	
		(xi) Mark and provide sign hazardous areas such as electrical devices and lines, service rooms housing high voltage equipment, and areas for storage and disposal. Signage shall be in accordance with international standards and be well known to, and easily understood by workers, visitors, and the general public as appropriate; and	
		(xii) Disallow worker exposure to noise level	

Field	Anticipated Impact	Mitigation Measures	Responsible for	Monitoring of Mitigation
Core Labour Standard (CLS)- safety and compliance	Impact on health of contractor's labour	greater than 85 dBA for a duration of more than 8 hours per day without hearing protection. The use of hearing protection shall be enforced actively.	Mitigation Construction Contractor	All records, documents related to health & safety of labours
Community Health and Safety.	vehicle collision with	employees and local communities surrounding the project sites.	Construction Contractor	(i) Traffic Management Strategy;

Field Anticipated Impact		Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation
	material and waste transportation	PMU/PIU/DSC in identifying high-risk areas on route cards/maps.	-	(ii) Complaints from sensitive receptors
		(iii) Maintain regularly the vehicles and use of manufacturer- approved parts to minimize potentially serious accidents caused by equipment malfunction or premature failure.		
		(iv) Provide road signs and flag persons to warn.		
		(v) Provide protective fencing around open trenches, and cover any open trench with metal planks during nonconstruction hours. potentially cause soil contamination;		
		(vi) Recover used oil and lubricants and reuse or remove from the site; (vii) Manage solid waste according to the following preference hierarchy: reuse, recycling and disposal to designated areas:		
		(viii) Remove all wreckage, rub or temporary structures (suc buildings, shelters, and late which are no	h as	

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation
		longer required; and		
		(ix) Request PMU/PIU/DSC to report in writing that the camp has been vacated and restored to pre-project conditions before acceptance of work.		
Office, Work Camps & Te storage	noise pollution from operation of camp &	before locating project offices, sheds, and construction plants; (ii) Minimize removal of	from of trees storage ich can nation; pricants site; cording	(i) Complaints fro sensitive receptors; (ii) Water and sanitation facilities for employee and (iii)PIU/ DSC report writing that the camp has been vacated and restored to pre-project conditions

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation
		structures (such as buildings, shelters, and latrines) which are no longer required; and (ix) Request DSC/ PIU to report in writing that the camp has been vacated and restored to pre-project conditions before acceptance of work.		
Social and Cultural Resources	Risk of archaeological chance finds	(i) Strictly follow the protocol for chance finds in any excavation work; (ii) Request PMU/PIU/DSC or any authorized person with archaeological field training to observe excavation; (iii) Stop work immediately to allow further investigation if any finds are suspected; and (iv) Inform PMU/PIU/DSC if a find is suspected, and take any action they require ensuring its removal or protection in situ.		Records of chance finds

DSC = Design Supervision Management Consultant, H&S = health and safety, RPM = respirable particulate matter, PMU = Project Management Unit;

PIU = Project Implementation Unit; SPM = suspended particulate matter, GMC = Guwahati Municipal Council

Appendix- VI

POLUTION UNDERCONTROL CERTIFICATE

so as to comply with provisions of Rule 115 of the Central Motor-Vehicle Rules, 1939.

- (g) In the event of the Driver or any person in-charge of the vehicle referred to in sub-rule (3)(a) fails to produce the vehicle within the specified period for re-test of the vehicle or the vehicles on re-test show the level of smoke or other pollutants being more than permissible under sub-rule (2) or Rule 115, the owner of the vehicle shall be liable for the penalty prescribed under subsection (2) of Section 190 of the Act in the event such vehicle shall be deemed to have contravened the provision of sub-rule (2) of Rule 115 of the Central Motor Vehicle Rules 1989 and the checking Officer shall report the matter to the Registering Authority.
- (h) The Registering Authority shall on receipt of the report referred to in sub-rule (g) for reasons to the recorded in writing, suspend the certificate of registration of the vehicle until such time the certificate is produced before the Registering Authority to the effect that the vehicle compiles with the provision of sub-rule (2) of Rule 115 of the Central Motor Vehicle Rule 1989.
- (4) Pollution under Control Certificate -
 - (a) All, Lorday of a period of one year from the date on which the Atomic vertice was that registered every such yance that have by shine a Parphan Unger Control Partition; the that the smoke emission level from that vehicle is within the limit prescribed under Rule 115 of the Central Motor Vehicles Rules 1989. A "Pollution under Control" Certificate shall remain valid for a period of six months from the date of its issue.
 - (b) A "Pollution Under Control" issued only by a State Government Department or an Authorised Testing Station licenced by the State Dovernment to test smoke emission level in the Form prescribed by Notification/Government Orders in this behalf, shall be accepted for the purpose of these rules.
 - (c) Notwithstanding the provisions contained in Clause (a) the Competent Authority, if it thinks fit may direct a venicle to be

List of Vehicles engaged by Tirupati Cement Products with details of registration no.

Sr. No.	Vehicle No.	Type of Vehicle	Date of Registration	Date till which PUC is not required
1	AS01DF4701	Excavator	23-02-2017	21-02-2018
2	AS01DF4702	Hydra	23-02-2017	21-02-2018
3	A501DF4703	Hydra	23-03-2017	21-02-2018
4	AS01DF4701	Excuvator	23-02-2017	21-02-2018
4	AS01DF8937	Hydra	06-07-2017	05-03-2018
6	AS01DF893X	Hydra	06-03-2017	05-03-2018



IFON-111 VOIUL For Removal of Excisable Goods Form A.Factory or Warehouse on Payment of duty [Under Rule 11 of C.E. (No. 2) Rules 2002] **ESCORTS LIMITED** Pro-Autre FolkEscor Construction Equipment Plot No. 219, Sector-58, Ballabgarh-121004 HOLIT ESCORTS IT Distl. Faridabad, Haryana (INDIA) Tel. : +91 129 2306300, Fax : +91 129 2306400 Date AAACEBS74BEMD10 C.E. Registration No. Name of Exclusible Commodity AAACE0074BEM010 8429-12 ECC No. Cranes. División. 8429 51 Lodern Excise Rango 8429 40 20 Vibratory Rollers Ercise Commissionrale Faridalisid-I Backhoe Loeders 8429 50 00 06751202682 Dt. 12/12/1966 06751202682 Dt. 12/12/1968 5431 00 60 THE WAT Parts of above CST Billing Address Shipping Address: TIRUPATI CEMENT PRODUCTS PNC DFFICE ND. 5, VISANU MARKET, NEAR RAILWAY SATE ND.5, BHARALUMIRH, FIRUPATI CEMENT PRODUCTS PNC OFFICE NO. 5, VISHNU MAPKET, NEAP PAILWAY GATE NO.5, BHARALUMUKH, GUMAHATT ASSAH 781009 BUMAHATI ASSAH 781003 Dracte Order Not 42260 Delivery ID: 4305156 Gracle Order Dt: 17-Jun-17 Delivery Dty 17-JAN-17 From MF2-BALLABBARH 'Mode of Shipment: TOTAL NO 1 LTABOSHR1944PLC039068 TO 1 GUWAHATI Cost Codes CE4959 'Freight: Comb Invi FRN NULL AACFT2702L LSTE IGR No: CSTI JBB30237193 INF Dates Delivery Terms: 'Ine with) The New India Assurance Pricing Terms 4 90000021160200000070 Description 1 Dty Rate CUPR Total Value CRANE VE HYDRA IS SP SB WIT 1 1010000 THR 10,10,000 MAKE LESCORTS CST/VAT 20,200 1,00,000 Engine No :AE4212C3AE-2361777 TCS011 Freight CONVERSION RATE: 1.00 'Total Walue (Rs. 71 11,40,502 Total Value: Rupees Eleven Lakh Forty
Thousand Five Hundred Two And
Zero Palse bnly Excise #12.5% 1,26,250

> No./Notspication No. 108 00 0818 1995 26/6/1995

Date/fine Preparation :

17-JAN-2017

4101109 PM

District Time Proportion of Soods:

District Time Especial of Soods:

Inspecting of the plays where cause of sotton may have enser, cause of Fernance and have entered production on all the disputation for all have entered the parties.

Certified had the particulary player stocks are have and control and the amount obtained forces to be producted of the large and that they is to their additional consideration friendly for interesty from the buyer effect. OFFICE Plot No. 215, Section 58, Basinappart-12004, Faintaband, Haryana PGOOL OFFICE 155, Mathema Read, Faintaband - 121063 (Haryana)

For Escotts Limited thorised Signatory).

TAX-INVOICE

DRIGINAL FOR BUYER

Fite Removal of Excitacie Goods Form A Factory or Warehouse on Payment of duty [Linder Rule 11 of C.E. (No. 2) Rules 2002]

ESCORTS LIMITED

Construction Equipment

Plot No. 219, Sector-58, Ballabgarh-121004 Distt. Faridabad, Haryana (INDIA) Tel.: +91 129 2306300, Fax: +91 129 2306400 **ESCORTS**

Pre-Autoenticated by For Encorts Limited No.

19-DEC-16/

C.E. Registration No. ECC No. Divesion Excise Range Excise Commissionrate TIN WAT

AAACE00748EM010 AAACE0074BEM010 XVI Fandabad-I

06751202682 Dt 12/12/1966 96751202682 Dt. 12/12/1966

Name of Excitable Commodity. Cranes 6426 12 00 Lodelli 8429 51 00 Vibratory Robers 8429 40 30 8429 59 00 Backhoe Loaders 8431 DO DO Parts of above

Sylling Address Pet I

Sil

c

TIRUPATI CEMENT PRODUCTS

BHL DFFICE NO. 5, VISHNU MARKET, NEAR KAILWAY GATE NO.5, BHARLUMUKH, GUWAHATI ASSAM 701009

Shipping Address:

TIRUPATI CEMENT PRODUCTS

BHL OFFICE NO. 5, VISHE MARKET, NEAR RAILWAY GATE NO.5, EMARKUMUKH, SUMAHATI ASSAM 781009

Sparsesi Y

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Custoper Code 3: GE0362 From FBD Ta t BUWAHATI ECC # CE Red 'Hode of Shipments Ranges ICIN No: L74899HR1944PLC039088 Divi PAN NO : AAACEO074B Colls ifreight PAN NO: AACFT2702L BR Not DWN CST: 18830237193 toR Date: InsWith(The New India Assurance 93000021160200000070 B TIN: 18830237193 Inv No: 172023

Description	No.	Rate Per 1	Assessable Value (Rs.)
DIGMAX II HD MAKE I ESCORTS	1	16,55,773	16,55,773
Eng No 9H.3205/1620240 M/E No ECE07610AG00383			
Serial no of entry for paid / payable in FLA	duty	Taxable Assunt 'Excise 0 12.5% 'TCE 0 13	16,35,773 2,06,972
Cmqvet: Dated	19-DEC-16	1081 8 2%	19,000 37,255
Burney Bridge		Total Amount!	19,19,000

Total	Rupoes Two Lake Sis Thousand Nime Hundred	Total Amount! Freight: 'Ins/Disc/Surch.'	19,19,000 -
Duty:	Seventy Two And Jero Fall	WI GRAND TOTAL I	19,19,000
Date/	Time Preparation : Time Removal of Goods:	19-060-16	06112103 FM -

Total Rupses Nineteen Lakh Nineteen Thousand and Zero Amount 1 Paide Dnly

TAX-INVOICE

ORIGINAL FOR BUYER

For Removal of Excessive Goods, Form: A Factory or Warehouse on Payment of duty [Under Rule 11 of C.E. (No. 2) fluxes 2002]

ESCORTS LIMITED

Construction Equipment Piot No. 219, Sector-58, Baltabgarh-121004 Diatt. Faridabad, Haryana (INDIA) Tel.: +91 129 2306300, Fax: +91 129 2306400



Pre-Authenticated by For Edgards Limited No. DS/160920 Construction Education

Date 19-DEC-15quespent Equatory

C.E. Registration No. ECO No. Division Excess Range Explan Commissionnate TIN VAT

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Amount I

AAACE00748EM010 AAACE00748EM010 IV XVI Parkdeted-I 06751202682 Dt. 12/12/198E 06751202682 Dt. 12/12/198E Name of Excitable Commodity.

Craves 8429 12 00 6429 51 00 Vibratory Rosens 8429 40 30 8429 59 00 Parts of above 8431 00 00

Billing Address : Ref:

TIRUPATI CEMENT PRODUCTS

BHL OFFICE NO. 5, VISHNU MARKET, NEAR RAILWAY GATE NO.5, BHARLUMUKH, GUWAHATI ASBAM 781009

TIRUPATE CEMENT PRODUCTS

Shipping Address

BHL DFFICE NO. 5, VISHNU MARKET, NEAR RAILWAY BATE NO.5, DHARLUMUKH, GUWAHATI ASSAM 781009

Sparest V

Customer Code : (E0362 ECC : CE Reg Pange: D)vi Coll: PAN NO: AACFT2702L CBT: 18830237190 S TIN:18830237190 Inv No: 172024	Prime FBD To I Mode of Shipment: EIN No: L74B99HR19 PAN NO: SABCE0074B FF141ght OF No: OWN GR Date: InsWithithe New Ind 93000021[6020000	44PLCODSCER
Description Dty	The state of the s	Assevable Value (Re.)
DISMAX II HD I MAKE T ESCORTS Eng No 4H.3205/1630337 H/C No ECE07610L00051918	16,35,773	16,55,773
Serial no of entry for duty paid / payable in PLR Cenvati Dated 19-DEC	Taxable Amount	16,55,773 2,06,972 19,000 37,255
Rupees Two Lake Sis Total Thousand Nine Hundred Duty: Seventy Two And Jero	Total Amount Freights! (ins/Disc/Surch.) als: GRAND TOTAL :	19,19,000
Date/Time Preparation : Date/Time Removal of Goods:	19-DEC-16	04:12:07 PM

Paise Only

IAX-INVUILE

For Ramoval of Excessive Goods Form A Pactory or Warehouse on Payment of duty. [Under Rule 11 of C.E. (No. 2) Rules 2002]

CORTS LIMITED

construction Equipment

Ptot No. 219, Sector-58, Ballabgarh-121004 Distt. Farldabad, Haryana (INDIA) Tel.: +91 129 2306300, Fax: +91 129 2306400 ESCORTS

Pre-Automizate by For Excerts Linear No. DS/1509S1 Construction Englands

Date 19-DEC-15 Automaticum

C.E. Registration No ECU No. Division Escise Range Excise Commissionrate

TIN VAT

CET -

AAACE0074BEM010 AAACE0074BEM010 IV XVI Fordabboti 06751202862 Dt. 12/12/1966 06751202882 Dt. 12/12/1966 Name of Excluente Commodity.

Crames 8428 12 00 (100ers 9420 51 00 Vibratory Rollers 8429 40 20 (100ers 100ers 100

Billing Address : Refs

TIRLPATI CEMENT PRODUCTS

PNC OFFICE NO. 5, VISHNU MARKET, NEAR RAILWAY BATE NO.3, BMARLUMUKH, GUWAHATI ASSAM 781009 Shipping Address:

TIRUPATI CEMENT PRODUCTS

PNC OFFICE NO. 5, VISHAU MARKET, NEAR RAILNAY GATE NO.5, EMARLUMUKH, GUWAHATI ASSAM 781009

Customer Code : CE0362 ECC : EE Reg Range: Div: Coll: PAN NO: AACFT2702L CST: 16830237133 B TIN:18830237193 Inv No: 172025 From FBD To a GUMAHATI

Mode of Shipmens:
CIN No: L74899HR1944FL0039088
PAN ND: AAACE00748
Freight
GR No:
IGR Date:

!InsWith:The New India Assurance 93000021160200000070

Inv No r 172025	-	9300002116020000	A)G/II	
Description	Dty No.	Rate Per ! Unit Re.	Assessable Value (Rs.)	
CRAME VE HYDRA 12 3P 60 MAKE : ESCORTS	1	0,90,639	9,90,639	
Eng No AE4286ASAE-3339 M/C No ECE01193PG00366				
Serial to of entry for paid / payable in PLA		Taxable Amount ! Excise 9 12.5% ! TCS 9 1%	9,90,639 1,23,830 11,368	
Cenvat: Dated	19-050-16	CST M 2%	22,289	
Rupnes One Lakh		Total Amount	11,48,126	-
Total Three Thousand E Buty: Hundred Thirty A		BRAND TOTAL 1	12,53,327	1
Date/Time Preparation Date/Time Removal of G		19-DEC-16	04:12:50 PM	-

Total Rupses Twelve Lakh Fifty Three Thousand Three Amount : Hundred Twenty Seven And Zero Paise Only

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For Escorts Limited Construction Equipment

IAX-INVUILE

For Removal of Excisable Goods Form A Factory or Warehouse on Payment of duty [Under Rule 11 of C.E. (No. 2) Rules 2002]

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Construction Equipment

Plot No. 219, Sector-58, Ballabgarh-121004 Distt. Faridabad, Haryana (INDIA) Tel. : +91 129 2306300, Fax : +91 129 2306400 **ESCORTS**

Pre-Authersigated by Dr. /160932 For Eachts Limited

19-DEC-15

No.

Shipping Address:

C.E. Registration No.	AAACE0074BEM010	Name of Excessive	Commodity:		
ECC No.	AAACE0074BEM010	Cranks	8436 12 00		
Distance	N	Loders	8429 51 00		
Exclae Range	XVI	Viteratory Rollers	6429 40 20		
Eucline Commissionrals	Faridatiad-I	Backhoe Loaders	8429 59 00		
TIN VIST	: 00731202082 Dt. 12/12/1908	Parts of above	8431 00 00		
Mark W.	F87953589699 DL +28928966				

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TIRUPATI CEMENT PRODUCTS

TIRUPATI CEMENT PRODUCTS

PNC OFFICE NO. 5, VISHNU MARKET, NEAR RAILWAY GATE NO.5, BHARLUMUKH, GUWAHATI ASSAM 781009

PNC DFFICE NO. 5, VISHNU MARKET, NEAR RAILHAY BATE NO.5, BHARLUMUKH, GUMAHATI ASSAM 761009

FCC : CE0362	From FBD To I GUMAHATI		
CE Reg	!Modw of Shipmenti		
Ranges	ICIN No: L74999HR1944PLC039068		
Divi	IFAN NO 1 AAACEO0748		
Colls	tFreight		
PAN NO: AACFT2702L	IGR Not		
CST: 18830237193	top Dates		
S TIN-18830237193	I Institution New India Assurance		
Thy No 1 172026	93000021160200000070		

THE MO T TENNED	2200000511005000	CHARLEM	
Description	Qty No.	Rate Per Unit Rs.	Assessable Value (Rs.)
CRANE VE HYDRA 12 3P 88 HAKE : ESCORTS	1	9,90,639	9,90,639
Eng No AE4286A3AE-33574 M/C No ECE01193JG003561			
Serial no of entry for d paid / payable in PLA	ney	Taxable Amount ! Excise # 12.5% ! TCS # 1%	9,90,639 1,23,830 11,368
Cenvat: Dated 1	9-050-16	CST e 2%	22,289
Rupees One Lakh To Total Three Thousand Es		Total Amount! Freight:	11,48,126 -
Duty: Hundred Thirty And			12,53,327

19-DEC-16

Rupees Tuelve Lath Fifty Three Thousand Three Hundred Twenty Seven And Zero Paise Only Yotal fimount :

Interpretable of the paral effect chairs of action may have present courts of Fernancial which have exclusive primitives on all the dispulse that may almost textures the parties. Control that the particular given service are thus even bornest and the amount exclusive represents to the primal actually determined and that there is no first of acciditant generalization develop or individual from the never. HEAD OFFICE: Plot No. 218, Sector 58, Sallabugarb-121994, Faridatized, Haryama' (Robot) of FCC: 1505. Marthura Read. Faridatized - 121903 (Haryama')

Date/Time Preparation :

Date/Time Removal of Goods:

For Escorts Limited Construction Equipment

04:12:57 PH -

Cor Ramoval of Excisable Guida Form A Factory or Warehouse on Payment of Suly [Under Rule 11 of C.E. (No. 2) Rules 2002]

ESCORTS LIMITED

Construction Equipment

Piot No. 219, Sector-S8. Ballebgarh-121004 E. 21/13/2 Diett. Faridabad, Haryana (INDIA) Tel.: +91 129 2306380, Fax: +91 129 2306400

ESCORTS DUTY

For Ed

Date 17-166(-20

C.E. Registration No. AAACE0074BEM010 AAACE0074BEM010 ECC No. Division Excise Range Excise Commission(sta Fandabad-TIN VAT

06751202682 Dt. 12/12/1966 06751202682 Dt. 12/12/1966

Name of Excessio Commodity 8426 12 00 Crames 8429 51 00 Loders. Vibratory Rollers 5425, 40, 20 Backhon Loaders 6429 50 00 6434 50 00 Parts of above

Billing Address

CST

1 1

THUPATT CEMENT PRODUCTS FINE OFFICE NO. 2, VISHMU MARKET, NEAR RAILWAY GATE NO.5, EHARALUNUNG GLAMAUNTI ASSAM PRINCIP Shipping Address:

TIRUPATI CEMENT PRODUCTS PNC OFFICE NO. 5, VISHNU MARKET, NEAR RAILWAY GATE NO.3, BHARALUNUN, UWAMATI ABBAM 781009

Dracle Order No: 43061 Dracle Order Dir 17-JAN-17

Delivery ID: Delivery Dtr

4305157 17-JAN-17

From NF2-BALLABBARH To : BUNAHATI

(Mode of Shipments CIN No 1 L74899HR1944FLECCISCOS PAN NO 1 AMAGEO074B

Coat Coder CE4959 Come Inva AACKT 27/12L PERM NOT

LSYA IGR No: CET 188507 (514) 198 Date:

Delivery Tarmer Ins with: The New India Assurance Pething Terms I 93000021160200000070

Description Dty Rate CLIER Total Value CRANE VE HYDRA IZ SP WA WIT PRAKE: ESCORTS 1010000 10,10,000 CAT/VAT 20,200 10,302 Ingine No :AE421200AE-0261775 TCSet% Chassis No (ECE01193CH0038820) Freight 1,00,000 CONVERSION PATER 1,00 TOURL Value (Re. 11 11,40,502

Total Value: Rupers Eleven Lakh Forty Thousand Five Hundred Two And Zero Paige Only

Exclusion 012.5%

1,25,150

Goods Cleared under B-1 Bond Security's Non-Ainder Taking 160 -Daned

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For Escorts Limited

HEALTH, SAFETY AND ENVIRONMENTAL OPERATION CONTROL PROCEDURES

Spoil Management Plan

Name of Project: Construction of transmission main pipelines and allied works in south
east Guwahati water supply project

- Purpose: To make a procedure to reduce & manage the spoil generated and reuse related to construction works.
- 2. Scope: The procedure is applicable to M/s Tirupati Cement Products
- 3. Responsibility: Project In-charge is responsible for its implementation.
- 4. General Hierarchy of control:
 - PREVENT
 - REDUCE
 - REUSE
 - RECYCLE
 - RECOVER ENERGY
 - RESPONSIBLE DISPOSAL
- 5. Legal Requirements:
 - The BOCW Act, 1996
 - Environmental Protection Act, 1986



- The Water [Prevention & Control of Pollution] act, 1974
- The Water [Prevention & Control of Pollution] CASs act, 1977 as amended in 2003
- . The Air [Prevention & Control of Pollution] act, 1981
- The hazardous waste (Management & Handling) Rules, 1989
- Biomedical waste (Management & Handling) Rules, 1998
- Municipal Solid waste (Management & Handling) Rules, 2000
- Noise Pollution Regulation & Control Rules, 2000
- Battery (Management & Handling) Rules, 2001

6. Requirements

Procedure:

- Spoil volume calculations: estimate the volume of spoils produced from each of the construction sites.
- II. Characterization of spoil: Based on the type of spoil, characterization is done (sand stone, mud mix, reusable materials).
- III. Adopt spoil reduce/reuse opportunities
- iv. An overview of the assessment methodology to be used is mentioned below
 - 1. Consideration of likely spoil characteristic
 - 2. Identification of possible reuse sites
 - 3. Screening of possible reuse opportunities
 - 4. Identification of possible safe disposal sites for spoil: Those spoils which can't be reused shall be properly disposed in designated areas. Such disposal areas shall be identified in project location. Such disposal areas shall be safe from

Tirupati Cament Products environmental aspects and there should not be any legal or resettlement issue. The local administration must be consulted and permission be obtained from them, if required.

Identification & assessment of soil aspects & impacts:

- There is stock yard assessed and identified jointly for dumping and storing the excess earth produced from pipe laying operation.
- During transportation of soil, it is ensured that the vehicle is covered with tarpaulin and no dust flies off.

7. Spoil: Volume, characteristic and minimization

- Volume: Not confirmed.
- · Characteristic: Both ordinary and hard soil
- Minimization: Excavation being done as per drawings only.

8. Spoil: Reuse opportunities, Identification and assessment

- Approximately half of the soil is backfilled as cushion over the pipe line.
- Balance soil is removed from site

9. Spoil Transportation Methodology

 Extra soil will be shifted by truck/dumper/tractor-trolley from site to dump yard

> Tirupati Cemant Products

10. Other aspects: The key aspects of potential impact are listed in table below

Aspects	Potential Impacts				
Air Quality	Potential for high winds generating air borne dust from movement of vehicles				
Surface & Ground water	No potential impact on ground or surface water				
Noise	Associated with spoil handling, haulage & storage				
Traffic	Increase in traffic due to spoil haulage				
Land Use	Lad used for dumping is a private low lying land and NOC from the owner has been obtained for dumping.				



Recognized by

Pollution Control Board : Assam, Meghalaya Pollution Control Board, Meghalaya

Birubari Bazar, House No.-98, P.O. - Gopinath Nagar Guwahati-781016, Assam

Phone: 9864037015, 9954093884 (M), E-mail: jitensarma97@yahov.com

Specialist in : Chimney emission testing, Ambient Air testing, Noise level testing, Waste water analysis, Drinking water analysis, Pollution Control Activities etc.

Report on Ambient Noise level Monitoring

M/S Tirupati Cement Products, Guwahati

Name of the Project:Construction of Water Supply Transmission Main pipe lines and allied works in South East Guwahati Water Supply Project (ADB funded)

Package Number ADB/AUHF/PR-1/GUW/WS-01

Report Number: GRL/Report-Noise/16-17/008

DATE: 01.03.2017

Date of Monitoring	Source/Location	Notes level dff(A) in Leg in Day time Average	Notice level dB(A) in Lang in Night time Average	Remarks
27,02.2017	Work site, Near Noomman Sector- Linear Refinery Guerahati (Assam)	SE	57	

All data were collected during day time and hight time (Average data)

hoise (Ambient Standard) in db (A)

During day time (in between SAM & 10PM)		During night time(in between 10 PM & 6 AM		
tridustrial lane	75	Industrial Zone	70	
Commercial Zone	65	Commercial zone	35	
Residential tune	53	Residential Zone	45	
Strence Zone	50	Silence Zone	46	

N.B: Results were found within the limit.







Recognized by

Pollution Control Board : Assam, Meghalaya Pollution Control Board, Meghalaya

Birubari Bazar, House No.-90, P.O. - Gopinath Nagar Guwahati-781016. Assam

Phone: 9864037015, \$954093884 (M), E-mail: jitensarma97@yahoo.com

Specialist in : Chimmey emission testing, Ambient Air testing, Noise level testing. Waste water analysis, Drinking water analysis, Pollution Control Activities etc.

Analysis Report of Ambient Air Quality Monitoring Conducted at M/S Tirupati Cement Products.Guwahati

Name of the Project:Construction of Water Supply Transmission Main pipe lines and allied works in South East Guwahati Water Supply Project.(ADB funded)

Package Number: ADB/AUIIP/PR-1/GUW/W5-01

REPORT NUMBER: GRL/Report-Amb/16-17/034

Date:01.03.2017

SI No	Date of Monitoring	Place/Location	50 ₂ (ag/m³)	NO ₁	PM _{sh} (ug/m²)	PMU (ug/ro*)	weather	Remarks
4:00	J1,03,201#	Walksite Noormali Sector1 NeurRefin ery Townhall GPS location: N26*10.838* E091*49.605*	34	40	(30	49	Clear	During monitoring work was on poesitions. Result shown as 24 hours trang weighted August Augu

Standard for Ambient Air Quality in ug/m

SI	Pollutant	Time weighted	Conc. In Ambient Air	
No.		Average	Industrial, Residential, Rural and Other Area	
1	Sulphur Dioxide (SO ₂)	24 hours	80	
2	Narogen Dioxide (NO ₂)	24 hours	80	
3/	Particulate Motterbize < then 10 um; or FMus	24 hours	100	
4	Particulate Metter (ulse < than 2.3ug/m ³ crPM ₂ = un/m ³	24 fours	00	

N.B. Results were found within the permissible limit.



Challe Challes

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Recognized by

Pollution Control Board : Assam, Meghalaya Pollution Control Board, Meghalaya

Birubari Bazar, House No.-90, P.O. - Gopinath Nagar Guwahati-781015, Assam

Phone: 9884037015, 9954093884 (M), E-mail: jtensama97@yahoo.com

Specialist in : Chimney emission testing. Ambient Air testing.

Noine level testing. Weste water analysis, Orinking water analysis,

Poliution Control Activities etc.

Report on Ambient Noise level Monitoring

M/S Tirupati Cement Products,Guwahati

Name of the Project-Construction of Water Supply Transmission Main pipe linus and affect works in South East Guwahau Water Supply Project.(ADB funded)

Package Number: ADB/ALBP/PR-3/GUW/WS-01

Report Number: GRL/Report-Noise/16-17/006

DATE: 02.02.2017

Source/Location	Address of the control of		
	Noise level dR(A) in Leg in Day time Average	Noise level dh(A) in laq in hight time	Remarks
Work site infract of financian Cologo, Virrium Eurobart (Annun)	51	41	
	Magn/Virysag	Work Site Minated St.	API(A) in Leg in att(A) in Leg in Exight time for time for the Average Average Average (Institute) at the Average (Institute) at

8 All data were collected during day time and fright time (Average state)

Noise (Amister't Standard) in dil (A)

During day time (in between SAM & 10PM)		During night time(in between 20 PM & 6 At	
transfeld Zaru	75		
Commercial Zone	65	Industrial Time	70
Residential rond	55	Commencial parts	35
Sietus Zone	50	Residential Tone	49
		Science Zone	40
Willy deposition to the con-			1000

N.B: Results were found within the limit







Recognized by

Pollution Control Board : Assam, Meghalaya Pollution Control Board, Meghalaya

Birubari Bazar, House No.-90, P.O. - Gopinath Nagar Guwahati-781016, Assam

Phone: 9864037016, 9954093884 (M), E-mail: jitensarma97@yahoo.com

Specialist in : Chimney emission testing, Ambient Air testing, Noise level testing, Waste water analysis, Drinking water analysis, Pollution Control Activities etc.

Analysis Report of Ambient Air Quality Monitoring Conducted at M/5
Tirupati Cement Products, Guwahati

Name of the Project: Construction of Water Supply Transmission Main pipe lines and allied works in South East Guwshati Water Supply Project. (ADB funded)

Package Number:ADB/AUIIP/PR-1/GUW/WS-01

REPORT NUMBER: GRL/Report-Amb/16-17/024

Date:0Z.02.2017

Ma.	Date of Mitritoring	Place/Location	50, (ug/m ^b)	NO ₃ (up/m ⁴	PM _{III} (ug/m²)	PMLJ (ug/m ¹)	weather.	Smarks
2)	30,01,2017	Work site infligence of innotation contigence of contigence of the continuation of the location was from 200" 1001 ftg. 40.445"	13	32	88	AB	Clear	Diarreg menitoring work was operation result strain as 24 years Time weighted Average

Standard for Ambient Air Quality in ug/m

54	Pollutant	Time weighted	Conc. in Ambient Als Industrial Residential Rura and Other Area	
No.		Average		
1	Sulphur Dioxide (SO ₂)	24 hours	150	
2	Nitrogen Dimoide (NO ₂)	24 hours	80.	
3.	Particulate Matter(size < than 10 cm) or PM.	24 feurs	100	
4	Particulate Maitin (size 4 than 2.5ug/m) orPM ₁₅ ug/m ²	24 hours	60	

N.E: Results were found within the permissible limit.





CHIEF ENVISIONMENTALES AFTER

HEALTH, SAFETY AND ENVIRONMENTAL OPERATION CONTROL PROCEDURES

Traffic Management Plan

Name of Project: Construction of transmission main pipelines and allied works a sout

- Purpose: The proposed project "Construction of transmission pain pipelines and allied works in south east Guwahati water supply project" awart of Guwahati water supply project.
- 2. Scope : The procedure is applicable to Ms Trupati Cement Products
- Responsibility: It is the responsibility of the construction manager and all
 departmental heads to implement his procedure and ensure that delegated staff
 under their supervision carried tout.
- 4. Legal Requirements: The BOCW Act, 1996 &, Central Rule 1998 & Motor Vehicle
 Act 1998

5 Requirements

7.1 General:

- All road works create inconvenience and area potential hazard to safety of all road users and those employed in carrying out the work.
- II. All the effects should be reduced to minimum and to ensure that the works are properly guarded, lighted and signed.

- A clearance early warning of any obstruction to all road users should be provided.
- iv. All areas where work is going on should be clearly demarcated by hard barricading and entry into these areas should be restricted to only authorize personnel.

5.2 Planning Stage:

- i. Particular attention should be given to
 - 1. Traffic Signs
 - 2. Cones
 - 1 Barriers
 - 4. Road hazard warning ights
 - 5. Information boards
 - 6. Site lighting
- II. Consider necessity of confric control systems such as temporary traffic lights of story Go boards
- III. Access should be planned to eliminate dangerous movements of six transc (eg. Reversing of vehicles) and personnel (eg. Crossing of dual carriageways)
 - Provision of adequate lighting while working at night

 All persons working on a road shall wear highly visible jackets
- '5.3 On Site: The working space shall be defined and "A PLACE FOR EVERY THING AND EVERY THING IN ITS PLACE" to be followed.

5.4 Operators/Drivers:

- Only experienced operators and drivers with valid licenses have been appointed.
- II. Copies of licenses have been collected.
- III. Refreshment training conducted for all operators and drivers.

5.5 Equipment:

- Drivers are to make a daily visual inspection of their vehicles including steering, brakes, mirrors, lights, born tires and wind shield wipers.
- Safety department along with plants, pachinery department shall check the vehicles on months basis.
- III. All vehicles should have reverse orn and it should be in working condition.
- Preventive maintenance schedule has to be followed strictly for all vehicles.

5.6 Roads for sale operation following measures are taken

I. Safe width of road has been provided.

Flag man deployed at every traffic point to control vehicle and pedestrians

- III. Speed limit of 10kmph to be implemented within site.
- iv. Caution boards to be placed at site.
- v. Workers are working with reflective jackets and required PPEs.
- vi. Road for use by pedestrians has been identified.
- vII. High noise intensity reverses horn used in vehicles.
- viii. Dos and Don'ts displayed at site office.

5.7 Loading & Unloading:

- 1. Only authorize person to engage for loading or unloading
- II. Materials loaded within permitted safe load limit for vehicles
- Ensuring sand/soil loaded vehicles are covered while transporting.
- Iv. During toolbox talks intimation has been delivered to all drivers/operators that when the driver leaves the driving seat, engine of the vehicle should be switched off, gear an aged and parking brakes applied. On slopes wheel blocks shall be applied.
- v. Helpers have been provided with all vehicles.
- vf. After unloading, the banksman ensuring that the tipper is lowered before moving.
- vii. Turn buckle and side stoppes used while transporting as required.

5.8 Working Area:

- i. The working area has been restricted from un-authorized entry.
- IL The working space has been defined.
- III. Particular attention has been taken in working area

Travec Signs

Cones

3. Barriers

- 4. Information boards
- 5. Site lighting
- Iv. All personnel wear highly visible jackets.



HSE PLAN

PROJECT HIGHLIGHTS

d. Name /identity of the project: Construction of transmission main pipelines and allied works in south east Guwahati water supply project

b. Client AUIP
c. Location Guwahati

il. Overall Scope of Work Approx. 23 km water supply mains pipelines taying

PURPOSE

The purpose of this plan is to provide guidelines and requirements town of elective management of HSE activities during the execution of a Project. This HSE Manual describes the HSE program, which TCP shall implement throughout the various phases of a Project but condition apply as per the site situation. If the guideline & its implementation may varies as per site situation/condition and other situation.

ROLES, RESPONSIBILITIES & AUTHORITY:

Head of project and construction concerned Managery Departy Manager / Engineers / officers/ supervisor of sites shall be responsible to follow anguing lement the Rules and Regulation.

SITE OFFICE REQUIRMENTS:-

Office Equipment and Furniture: Office quisinent and furniture shall be provided and maintained in safe working order subject to seating arrangements, workstations, computer systems, software requirements make and other communication channels shall be made available for a safe and healthy working environment. All these equipment and furniture shall comply with safety requirements including meeting requirements of ergonomics.

Fire Safety: Suitable Fire-Institute equipment shall be provided at selected location for any fire incidences. All personnel shall be provided training in and made familiar with evacuation procedures, escape power prefighting, and first-aid and safety exits.

Furnishings Fittings: When arranging furniture and fitting in any office space, care shall be taken a possible hat no furniture shall block or restrict movements in walkways, corridors or other scale routes.

Electrical: No office electrical equipment shall be used in faulty or unsafe conditions. Leads on equipment shall not be routed in such way that they may cause a tripping hazard across walkways, corridors or open spaces. All electrical appliances must be routed through an RCCB. Regular inspections of electrical cables and distribution boards must be ensured.



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Flammable material and solvents: All flammable liquids (such as toners for photocopiers, toiletries, disinfectants, etc.) shall be handled and stored with care. Only a minimum quantity for ready use shall be stored. They should be protected from exposure to direct sunlight and away from any source of heat, potential ignition or naked flame.

First Ald Box: Sufficient quantities of First-Aid Boxes shall be provided and kept coospicurally identified at the site office. The contents of First-Aid Boxes as specified in BOCW AC (Appendix A) shall be made available. List of First-aiders during emergency situations with their contact numbers and location of work in the site area must be maintained and displayed at prominent areas of site and site office. The HSE Officer shall be immediately be notified by any injury at site.

Drinking water: Sufficient supply of potable water shall be maintained water shall be checked once in a year, specifically in case of change of source.

Tollets: Required number of tollets shall be provided in the office separate tollets for ladies and gents shall be provided.

Exits: Each of the premises shall be provided with exits, satisticent to permit the prompt escape of occupants in case of emergency. Exits and the scress and egress from exits shall be maintained so that they are unobstructed and are accessible call times. Exits shall be identified conspicuously. All exits shall discharge directly to an open access at gives safe access to a public way.

HSE TRAINING, AWARENESS AND COMPETANCE

For Effective and Safe Execution of all critical, non critical, hazardous jobs the basic competence in the field is accordingly necessary to execute the project in the Safe and Efficient Manner. The necessary job knowledge and competence is necessary to be supported with appropriate behaviors supporting the systems to make it a loss free process.

- Aspects / Reparts / Hazards / Risks and the related control various activities.
- Det en knowledge on Roles, Responsibilities, Jub Descriptions with requisites set John in BOCW Rules and the Legal Requirements.
- Townside of Personal Protective Equipment's and basic safety and Construction
 Diractices.
- Training on Emergency preparedness and the roles for mitigation wherever required.
- Health issues relevant to Occupations and their personal initiatives on prevention of disease and injuries.
- Safe Use of Tools and Electrical Equipment and Systems.
- Appropriate training programmes etc. shall be organized for all levels of people working at site at periodic intervals to improve the safety measures.



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- Appropriate posters, slogans etc., in commonly / locally understood languages shall be sulfably displayed at work locations.
- Safety awareness programme such as poster design competition slogan writing etc., may be sponsored on special occasions.
- The respective Supervisor of the work force conduct Tool Box Talks on a regular basis
 to make personnel aware of the hazards of their activities and what projections are
 to be taken to avoid any incident
- Induction training imparted when a new employee join the compagy.

PERSONAL PROTECTIVE EQUIPMENT

TCP shall issue the required PPE to all workmen employed by the company depending on the job activities they are involved. It will be the responsibility of the respective Supervisor to ensure that the operators working under them are issued by the necessary PPE before they are deployed on site.

PROCEDURE FOR BARRICADE, SIGNAGE, TAGS & POSTER

TCP shall ensure barricade of areas during exavation, lift, high pressure hydrostatic and pneumatic testing and other such work real Warning signage shall be displayed along the barricaded areas.

All hazardous areas of operations with a dentified during work execution and properly barricaded. Necessary warning signs and HSE posters that are prominent and understandable to a layman will be displayed at site to warn about the Hazards at the work area. Excavations deeper than 1.5 meters shall be tracked when works are taken up in the live electrical distribution network, appropriate castion boards such as

σ not operate - Men at work"

"Danger to Life"

etc., will be put up in the main boards and it will be locked for protection. Lock-Out/Tag-Out (LOTO) procedure will be followed strictly.

Any edge projection or barricade removed to gain access to the prohibited locations in the course of execution of work will be done only with a written permission from the concerned HSE Engine 1. The removed protection shall be replaced no sooner the work is completed.

comble the posters and stickers will be arranged and displayed. Emergency telephone numbers will be displayed on all the notice boards. Emergency procedure will be displayed at appropriate places.



HSE PLAN

VEHICLE MOVEMENT

Following shall be ensured:-

- · Only Licensed drivers shall drive the vehicle.
- · Speed limits shall be clearly displayed. Speed limits shall be observed strictly
- Vehicles shall be parked at the designated parking place.
- . No yehicle shall be parked under LT / HT power lines,
- Vehicles shall not block emergency evacuation road, escape path, access road for fire tenders / rescue vehicles etc.
- · No worker shall take rest / sleep under any vehicle

STORAGE OF FLAMMABLE LIQUID

Flammable liquid at project site may include Diesel, Lub catily III, and Construction chemicals etc. The following measures shall be taken:

- Flammable liquid containers shall be stored on conversions. Dyke wall around the storage tank / drum shall be provided to prevent loss of containment.
- Electrical connection in the flammable liquid stre shall not be provided.
- In the case of storage in tanks, the capacity of the tank shall be conspicuously marked on the tank.
- Smoking, fire near the storage area will be prohibited. Caution board to the effect shall be displayed.
- Foam type fire extinguishers are said backets shall be provided near the storage area.
- No receptacle containing parable liquid shall be repaired unless thoroughly cleaned and freed from the liquid.
- Decanting of flammable lie aid from the drums shall be carried out using hand pumps.

CONSTRUCTION EQUIPMENT

Acceptance / Inspection of construction equipment prior to deployment at site Inspection of talking construction equipment shall be carried out prior to their deployment the site by the concerned Engineer / Safety Office.

- · Walding on thines
- · Cous Cotting set
- Names / Hydra
- - Lifting took and tackles
 - D G Sets

Concerned Site Engineer & Safety Officer shall inspect the equipment as per the prescribed checklist. Record of checking shall be maintained.



HSE PLAN

SCAFFOLDS AND PLATFORMS

- All scaffolding shall be of sound construction. A competent person must inspect each scaffold.
- · All scaffolding and platforms shall be guarded.
- Personnel who are conversant with and competent to perform this work sall erect scaffolding and platform.
- Scaffolding and platform shall be removed according to construction requirement and when work has been completed.
- Where a scaffold / platform is erected in an area where the construction activities may pose hazards to pedestrians or vehicular traffic nearby from the alling of objects, wire nets or screening nets shall be used to envelope such scaffold / platform.

LADDERS.

- All ladders used at the project site shall be of sound exestruction. Ladders shall be inspected prior to each use, and a quagrary inspection will be conducted by a competent person.
- Ladders with broken or missing roots, broken or split side rails, or otherwise damaged, shall not be used and split or removed from the project.
- All portable ladders placed on a value base. The access areas at the top and bottom of ladders in use shall be rest clear of obstructions.
- The side rails shall extend above the landing. When this is not practical, grab rails shall be installed. All landers in use shall be tied, blocked, or otherwise secured to prevent an accidental displacement.
- Tripod ladders widden with three legs) are prohibited on the project. All folding ladders shall have bur supporting rails or legs.
- Only not meeting wooden, approved ladders shall be used during electrical operation where employees may come into contact with electrical circuits or contact.

EXCAVATION

- All excavation work shall be planned and the method of excavation and the type of apport work required shall be decided, in consultation with Construction Manager, considering the following:
- · Stability of the ground
- Excavation will not affect adjoining building, structures etc
- Presence of underground pipes, cables etc



HSE PLAN

- · Sites of excavation shall be thoroughly impected:
 - Daily, prior to each shift and after interruption in work of more than one day
 - After every blasting operation
 - After an unexpected fall of ground
 - After heavy rains
- Safe angle of repose shall be maintained while excavating trenches exceeding 1.5
 meters. Slope shall, usually be not less than 45°. Suitable bench of 0.5 meter width shall
 be provided at every 1.5 meters depth of excavation in all type of softexcept for hard
 rock. In case benching is not possible, proper shoring and strutting shill be provided to
 prevent cave in or slides.
- Barricading of 1 meter height (with red and white barris) shall be provided for excavations beyond 1.5 meters depth. Two entries /excs solve provided for such excavation.
- Excavated earth shall not be places within 1 meter of ledge of the trench or depth of the trench, whichever is greater.
- Vehicles shall not be allowed to operate too close to the excavated area. At least 2
 meters distance shall be maintained from the edge of excavation. No load, plant or
 equipment shall be placed or moved near the edge of any excavation where it is likely to
 cause its collapse and thereby engager any person unless precautions such as the
 provision of shoring or piling are taken to prevent the slides.
- During rains, the soil becomes look Additional precautions shall be taken to prevent collapse of side wall.
- Necessary precautions shall be aken for underground utility lines such as cables, sewers, pipelines etc. position of buried utilities shall be located by referring to plant drawings, if available. Necessary clearances from the concerned authorities shall be obtained before commencement of the excavation job.
- In case of mechanised excavation, precaution shall be taken to not to allow anyhody to
 come within the meter of extreme reach of the mechanized excavator. The excavator
 shall be operated by a well trained experienced operator. While not in operation, the
 excavator shall be kept on firm ground with excavator shovel resting on the ground.
 While is of excavator shall be suitably jammed to prevent any accidental movement of
 the excavator.
 - When shall be pumped out, if any accumulates in the trench. Necessary precautions wall be taken to prevent entry of surface water in trenches.
- In case of excavation in the vicinity of any existing building / structure, approval shall be obtained on the excavation method from Construction Manager.



HSE PLAN

REINFORCEMENT WORK

- Workers carrying out reinforcement work shall use proper personal protective equipment, such as Safety Helmet, Safety Shoe and Gloves.
- Hand shall not be placed below the rods for checking clear distance. Measuring device shall be used for the purpose.
- . Loose clothes shall not be worn while checking the rods.
- To carry out welding / cutting of rods, safety procedures / precautions sment oned in Section "Cutting & Welding" shall be followed.
- · For supplying of rods at height, proper staging and / or bundling shall be provided
- · For short distance carrying of materials on shoulders, suitable ports shall be used
- While transporting rods by trucks / trailers, the rods shall not protrude in front of or by
 the sides of driver's cabin. In case such protrusion can't be worked betind the deck,
 then it should not extend 1/3rd of deck length or 1.5 metrs whichever is less and shall
 be tied with red flags / lights.

CONCRETING WORK

- · Stability of shuttering work shall be checked before starting concreting work.
- Concreting area shall be barricaded, if a suring at height / depth.
- Vibrator hoses, pumping concrete access ries shall be kept in healthy condition.
- Pipelines in concrete pumping street shall not be attached to temporary structures such as scaffolds and formwork support as the forces and movement may affect their integrity.
- Safety cages / guards around spoying motors / parts of concrete mixers shall be in place.
- Concrete mixers shall be provided with hoppers.
- . Concrete mixers shall be inspected for their condition at start of work.
- Concrete mixes ball be maintained well so as not to generate excessive noise.
- · Grounding selectional mixers, vibrators etc shall be done and verified.
- Personal coloring equipment such as gloves, safety shoe and safety helmet shall be used with dealing with concrete, and nose mask shall be used while dealing with cerem.
- cannot of rotating drums of concrete mixers shall be done from outside. Lockout
 - dequate lighting arrangement shall be ensured for carrying out concrete work during night.
- During pouring, shuttering and its supports shall be continuously watched for defects.

TCP

Tirupati Cement Products

HSE PLAN

WASTE MANAGEMENT

Construction Materials:

This includes concrete lumps, cement lumps, tested concrete cubes, broken asbestos sheets, soil, rock, fiber glass, broken bricks etc. These shall be collected from the site and used as land fill or transported to designated dumping site. Paper, Plastics, Rubber and Glass: These shall be collected in the dustbins placed at various points at site / there these shall be disposed off to the scrap dealer.

Metals:

Metal pieces and welding rod stubs etc shall be collected from site and elegated at source. These scrap shall be stored in the scrap yard and disposed off to the scrap dealer.

Waste Lubricating Oil:

Waste lubricating oils and oil filters shall be stored in closed on theirs. They shall be disposed off to the authorized recyclers.

Food Waste:

Food waste shall be collected in food waste contained with all they shall be disposed off to municipal collection bins or buried in designated meas to composting.

Waste Lead Acid Battery:

They shall be disposed to the authorized dealers of battery manufacturers.

Disposal of empty Paint containers:

Residual paint in the paint containers ball be kept at the minimum, by extracting the maximum paint by use of thinner. The minimum paint container, thereafter, shall be disposed off suitably, in consultation with the more

Electrical waste from site:

Electrical waste shall be stored and entified location and shall be disposed off to scrap dealer.

Domestic waste at rite:

Domestic waste generated at the site shall be buried in deep pit specifically excavated for the purpose.

ACCIDENT / IMPUDIOT REPORTING, RECORDING & INVESTIGATION

- Near misse, accidents involving minor injuries, major injuries involving permanent or emporary disablement of full or part of the victim's body, first-aid cases, property tanage, dangerous occurrences, ill-health, etc. are all considered incidents.
 - Obser than the legal requirements, if any to be fulfilled by the representatives of the Administration Department, the HSE Department and others at site shall follow the Incident Reporting Flowchart prepared and displayed at all prominent locations at site.
- All incidents / accidents shall be reported immediately in TCP" Preliminary incident Report, Incident investigation shall be undertaken at the earliest but not later than two



HSE PLAN

hours from the time of occurrence of the incident by the TEP senior personnel and HSE Officer, for establishing the cause and recommending corrective and preventive actions.

The workforce shall be trained and retrained in reporting near-misses and all incidents. Near-misses so reported shall be recorded and maintained in TCP standard format

HOUSEKEEPING:

Housekeeping is based on the principle, "Having a place for everything and having each thing in its designated place". Housekeeping is an important element of accident should be the primary concern of all Supervisors and till the end of the job (they shall monitor it. TCP shall ensure that a high degree of housekeeping is maintained and

- · All debris is removed/disposed off from the working areas to resignated location(s) as shown by the client.
- Unused/surplus cables, steel items and steel scrap bilgg red at different places within the working areas are collected and stacked at n(s) earmarked for scrap yard
- All wooden scrap, empty wooden cable drums and ther symbustible packing materials, shall be removed from work place to identified ocations.
- Roads shall be kept clear and materials like pixes, steel, cables, etc., shall be removed from the accesses to avoid obstruction to free movement of men and machinery.
- Fabricated steel structural, pipes & pixing materials shall be stacked properly for erection. Water logging on roads shall be recognized into diately on notice.
- All trucks/trolleys, cranes and trailess city, shall be parked only in the designated areas and parking shall not be allowed or louds, which may obstruct the traffic movement.
- ensure over all cleanliness and proper upkeep of the Almost care shall be taken working areas.
- Trucks carrying materials that might have dust flowing from them shall be covered while moving within theoremses or these materials shall be transported with top surface wet.
- TCP shall ensure that the atmosphere in premises and on roads is free from particulate etc. by keeping the top surface wet for ease in breathing.
- Every unityrical spall have two exits at all times to ensure proper emergency evacuation-
- and egress shall be maintained at all times at site and it shall not be
- itainers shall be kept near the rest shed and at various locations across the site. ersonnel shall be disposing off the segregated trash in the designated trash bins
- Scrap generated at site shall be removed on a day-to-day basis by the designated personnel at the end of the shift every day.
- Power cables, shall be laid in such a way that it does not cause trip hazard and where it is liable to get damaged.



HSE PLAN

TOOLBOX TALKS (TBT)

TCP shall conduct daily TBT with workers prior to start of work at each shift and shall maintain proper record of the meeting. The TBT is to be conducted by the immediate supervisor of the workers. Toolbox Talks Recording Sheet shall indicate the date and time, Subject, presenter, hazards involved and precautions to be taken. The signatures of the worker, Shall be taken and names legibly mentioned in the TBT attendance sheet. The above record of the kept in local language, which workers can read.

RECORDS OF TRAININGS CONDUCTED DURING REPORTING PERIOD

TRAININGS CONDUCTED AT THE GOPALNAGAR SITE - JULY TO DECEMBER 2016

HEALTH CHECKUP AND AIDS AWARENESS CAMP Organized By: Tirupati Cement Products



Report

Name of Project: Construction of transmission main pipelines and allied works in south east Guwahati water supply project

- Purpose: The proposed of the camp was to educate the labour about causes & prevention methods of HIV infection & AIDS. A health checkup of all the personnel was conducted.
- **2. Time & Venue:** The camp was organized on 9th April, 2017 at our store yard-site office. The duration of the camp was for 2 hours.



3. Trainer: The training was provided by an NGO called "Social Unity Keeper Association For All" (SUKAFA).



4. Trainees: All the personnel of Tirupati Cement Products including Project Manager, Engineers, Supervisors, Drivers, Operators and Laborers were present in the training session. A total of 22 trainees were present.



- **5. Major Points:** The following points were discussed extensively :
 - The 4 methods by which HIV is spread
 - i. Infected blood transfer
 - ii. Unprotected Sex

- iii. From pregnant mother to child
- iv. Use of infected syringe
- The ways of prevention of HIV transmission
 - i. Abstinence
 - ii. Being faithful to one's partner
 - iii. Use of condoms
 - iv. No sharing of needles
- The myths about transmission of HIV were debunked
 - i. HIV does not transmit by sharing the toilet
 - ii. HIV does not transmit by sharing food.
 - iii. HIV does not transmit by touch.
 - iv. HIV does not transmit by mosquitoes.



6. Conclusion: The training was successful and all the people were educated about AIDS. In health checkup, nothing unwanted came up.

SCANNED COPY OF CONTRACTORS INSURANCE FOR WORKERS

No insurance certificate is available with contractor, written mail has been given to Contractor.

MEDICAL EXAMINATION RECORD

MEDIACAL EXAMINATION REPORT (PERIODICAL PREEMPLOYMENT MEDICAL EXAMINATION)

L. Name of the project: Com-	encellen of Water Supply Transmission Main Pipelinas, and Alliant Works in Constituti
2. Name of the factory/contr.	netior agency : M/S Tempata Cement Products
J. Name of the employee:	Tulu Sarkia
4. Age of the employees	30
S. Identification Mark:	
6. Nature of job (Designation	
7. Date of the employment:	The state of the s
8. Length of the services in y	an: 1 YEAV
9. General Survey	: Health - Offod/Fair/Poor
	Height: 179_ c.m.
	Weights RO &c
16, Blood Group	· A · ene
D. Eye Veima	1 arrows fle
Use of glass	i Ma
12. Heaving	: Normal/Almoracit
14. Cardiovascular System	: Pulse 72/ Min -
	: U.R. 1207 8 Var mil
	Heart Sound
	: Remarks if any Post
18, Stán Candinios	: Normat/Abausepat
	: Remarks on any skin disease noticed 10.0
20. Hydinocle	t Passent/Alment.
21. Present complains if any	f contract the
22. Summary of Findings	: Heart disease INO
	: Hypertension
	: Diabetes
23. Recommendation if any for	any further investigations:
24. Comments/ Medical advice	if any:
Tuly Shikit	A-20 (31.11
Signature of the employees	Signature of the medical officer
	part of
	The Reservoir Control of the Control
	The company of the co

Name of the project; Con-	truction of Water Supply Transmission Main Pipelines and Allied Works in Guwaliati-
2. Name of the factory/contr	netur agency r M/S Tirupati Cement Products
3. Name of the employee:	Rash behow Siegh 39 A mole on august eye. A department: froman
4. Age of the employee:	39
5. Identification Mark:	A mole on pass Leve.
6. Nature of job (Designation	& department):
7. Date of the employment:	7007-
8. Length of the services in y	
9. General Survey	: Health : Good/Fair/Poor
	Height: 187 e.m.
	Weight: 90 kg.
18. Blood Group	: "A"- ne-
11. Eye Vision	1 www.
Use of glass	· no
12. Hearing	: Normal/Alamerorat
14. Cardiovascular System	: But 120/8 cm mg
	: un 120/8 cm mf
	Heart Sound
	: Remarks frany NO
18. Skin Condition	: Normal/Abnormat
	: Remarks on any skin disease noticed NO
20. Hydrocele	: Present/Absent.
2). Present complains if any	1
22. Summary of Findings	: Heart disease
	: Hypertension (%)
	: Diabetes
23. Recommendation if any for	any further investigation: p/Q
24. Comments/ Medical advice	irany:
= R & sin Th	0-30(3(1)
Signature of the employees	Signature of the medical officer

Products

1. Name of the projects Construction of Water Supply Transmission Many Populous and Allied Works in Gravehali. 2. Name of the factory/confractor agency : M/S Tirupali Cement Products Rubul Deka 3. Name of the employee: 4. Age of the employee: out mork on let by 5. Identification Mark: 6. Nature of job (Designation & department): Sufe Sypermor 7. Date of the employment: Dec , 2018 P months 8. Length of the services in years: : Health : Good/Pair/Pour 9. General Survey Height: /70 c.m. 10. Blood Group 11. Eye Vision Use of glass Normal/Absormat 12. Hearing 14. Cardiovasentar System 1.B.P. : Heart Sound : Remarks if any mo : Normal/Almornial 18, Skin Condition : Remarks on any skin disease noticed NO 20. Hydrocele : Present/Absent. 21. Present complains if any NO 22. Summary of Findings : Heart disease rive : Hypertension IN : Diabetes 23. Recommendation if any for any further investigation:-NO 24. Comments/ Medical advice if any: Signature of the employees Signature of the medical office

> Tirupall Cemani Products

1. Name of the project: Construction of Water Supply Transmission Main Pipelines and Allied Works in Guwahati.

2. Name of the factory/contractor agency : M/S Tirupati Cement Products

3. Name of the employee:	sydhur chandra yadav
4. Age of the employee:	29
5. Identification Mark:	cut mark on sight hand thumb
6. Nature of job (Designation	& department): Supervalor
7. Date of the employment:	2009
8. Length of the services in ye	ars: 8 years
9. General Survey	: Health : Good/Fair/Poor
	Height: 170 c.m.
	Weight: 65 k.g.
10. Blood Group	i ty .
11. Eye Vision	: romal to
Use of glass	: Mo
12. Hearing	: Normal/Abnormat
14. Cardiovascular System	: Pulse 701 Mrin -
	: B.P. 120/ 30 mmf
	: Heart Sound 9000)
	: Remarks if any
18. Skin Condition	: Normal/Abnormal
	: Remarks on any skin disease noticed
20. Hydrocele	: Present/Absent.
21. Present complains if any	Y
22. Summary of Findings	: Heart disease
	: Hypertension N
	: Diabetes
23. Recommendation if any for	any further investigation:-
24. Comments/ Medical advice i	fany:
andre	87013
Signature of the employees	Signature of the medical officer
	Read, No. 1981-1981

Tirupati Coment

1. Name of the project: Construction of Water Supply Transmission Main Pipelines and Allied Works in Guwahati. Name of the factory/contractor agency: M/S Tirupati Cement Products Mithlesh Boogh Name of the employee: 4. Age of the employee: 5. Identification Mark: Cuf Mark on face head 6. Nature of job (Designation & department): Driver 7. Date of the employment: 2 years 8. Length of the services in years: : Health : Good/Fair/Poor 9. General Survey Height: 172 c.m. 10. Blood Group 11. Eye Vision Use of glass 12. Hearing : Normal/Abnormal 14. Cardiovascular System : Heart Sound NO : Remarks if any : Normal/Abnormal 18. Skin Condition : Remarks on any skin disease noticed 20. Hydrocele : Present/Absent. 21. Present complains if any 22. Summary of Findings : Heart disease M : Hypertension W : Diabetes 23. Recommendation if any for any further investigation:-24. Comments/ Medical advice if any: Signature of the medical officer Signature of the employees

Samor Physician

Tirupali Cement

I. Name of the project: Construction of Water Supply Transmission Main Pipelines and Allied Works in Guwahati.

2. Name of the factory/contra	actor agency : M/S Tirupati Cement Products
3. Name of the employee:	U.B. Yadav
4. Age of the employee:	.30
5. Identification Mark:	out mark on left day thumb a department): Salety afficer
6. Nature of job (Designation	& department): Sobety officer -
7. Date of the employment:	Dec , 2016
8. Length of the services in ye	ears: 8 months
9. General Survey	: Health : Good/Fair/Poor
	Height: 165 c.m.
	Weight: 68 k.g.
10. Blood Group	: " o" ene
11. Eye Vision	: Norsal
Use of glass	: Nº
12. Hearing	: Normal/Abnormal
14. Cardiovascular System	: Pulse 72/0000 - : B.P. 120/20 mml : Heart Sound moral
	: Remarks if any
18. Skin Condition	: Normal/Ahnormal
	: Remarks on any skin disease noticed MO
20. Hydrocele	: Present/Absent.
21. Present complains if any	1
22. Summary of Findings	: Heart disease
	: Hypertension 🔊
	: Diabetes
23. Recommendation if any for	
24. Comments/ Medical advice	if any: NO Sep 0/3/17
Signature of the employees	Signature of the medical officer

Products

1. Name of the project: Construction of Water Supply Transmission Main Pipelines and Affect Works to Currentee.

2. Name of the factory/contractor agency : M/S Tiropati Centers Products Santash youlau 3. Name of the employee: Age of the employee: 5. Identification Mark: 6. Nature of job (Designation & department): May 2017 7. Date of the employment: 4 months 8. Length of the services in years: : Health : Good/Fair/Poor 9. General Survey Height: 165 c.m. Weight: 63 10. Blood Group 11. Eye Vision tise of glass. : Normal Abgormal 12. Hearing 2 Public 14. Cardiovascular System : Heart Sound : Remarks if any Normal/Abnormal 18. Skin Conditton Romarks on any skin disease noticed IV9 20. Hydrocele : Present/Abrent. 21. Present comptains if any No NAN 22. Summary of Findings t Heart disease : Hypertension. 100 : Diabetes 23. Recommendation if any for any further investigations. NO 24. Comments/ Medical advice if any: Signature of the employees Signature of the medical officer

Limbath County

1. Name of the projects Conscruction of Water Supply Transmission Main Pipelines and Allied Works in Gowshati. 2. Name of the factory/contractor agency : M/S Tirupati Cement Products 3. Name of the employee: Rangrand yadav 4. Age of the employee: 5. Identification Mark: cut Mark on 1ell hand departments: Store keeper 6. Nature of job (Designation & department): 7. Date of the employment: May 2017 4 months 8. Length of the services in years: : Health : Good/Fair/Pror 9. General Survey Height: 167 cm. Weight: 69 kg 10. Blood Group 11. Eye Vision Novant 4/6 Use of glass : Normal/Abnermal 12. Hearing 14. Cardiovascular System t Pulse : B.P. : Heart Sound : Remarks if any : Normal/Abnaemed 18. Skin Condition Remarks on any skin disease noticed NA 20. Hydrocele : Present/Absent. 21. Present complains if any N : Heart disease 22, Summary of Findings NO 1 Hypertension : Diabetes m 23. Recommendation if any for any further investigation: 500 24. Comments/ Medical advice if any: Signature of the employees Signature of the medical officer - and the care that

Freducis

Name of the project: Count	ruction of Water Supply Transmission Main Pipelines and Allied Works in Gowalints.
2. Name of the factory/contra	ector agency : M/S Tiropati Centero Products
3. Name of the employee:	Mergen falundes
4. Age of the employee:	23
5. Identification Mark:	out mark on lett but
6. Nature of job (Designation	a department: Site Supervisor
7. Date of the employment:	Dec, 2018
8. Length of the services in ye	ara: 8 months
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	: Diabetes Pro
23. Recommendation if any for	any further investigation:- p20
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Signature of the employees	Signatore of the medical officer
Maigen Talukdar	Mary 1- July 1
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Products

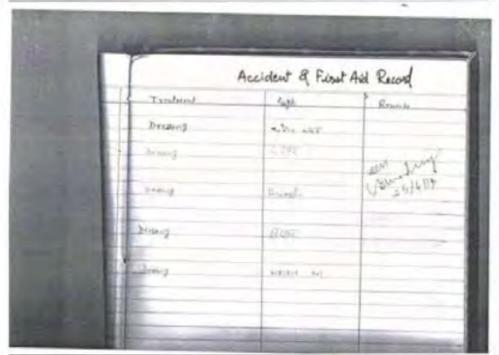
HEALTH CAMP PHOTO ALBUM FOR THE MONTH OF JULY TO DECEMBER 2016

AIDS AWARENESS TRAINING & HEALTH CHECK UP





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MASSA HIPE प्रहाठ

of my statement made above and the same shall be produced before the concern authority as and when required.

 That all the statements made in this affidavit are true to the best of my knowledge and belief.

OATH

"I swear that this my declaration is true, that it conceals nothing, and that no part of it is false, so help me God."

And I sign this affidavit on this 21st day of AUGUST, 2017 at Guwahati.

Identified by me

ffir HEN

Advocate, Guwahati.

CHAMAN ANSARI

Solemnly affirmed and declared before me by the deponent who is identified by Jonab Ali Ahmed, Advocate, Guwahati on this 21st day of AUGUST, 2017 at Guwahati.

Number State Kaliba GUWAHATI

2 1 466 2017



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2	66-92 F	No	Yes	No	No	Yes	140	-	Mrigen Felikdaz, Retharquery, VIP Rood AHY - 7896826404	M. Tabuk
3	07-0-217	No	Yes	No	No	Yes	100	-	Rahul Das. Pethniquezy MP Road, atty Nobile-7035651424	Robul
h	670217	No	Yes	No	No	Yes	No	1	Trend Marine, VIP Bend Ness Hindushan Allege	इरसद
5.	67-0217-	20	Yes	No	little	Yes	No		Rubul Deka, UIP Rowd Area Hinduothan colly 970660079613	And lake
6.	07-02.0	No	Yes	NO	No	Yes	Yes	-	Jilendu Roy, VIP Road · 739758314	FOR (SO)AT
7.	10-02-17	- No	Yes	No	No	Yes	No	-	Bhargar sharms Non-Vival Bharm, UP Accord 6133657229	Bl
8	10-02.19	No	40	60	Yes	440	No	^	Robert Barman UP Road Vival Blam 0844736746	Done

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11-	11-02-17-	No	Yes	1/0	No	Yes	e/e	-	Anny Talukar, VIP Read, Rithrideary 700 2487717	4. John
12-	13-62-17	No	Yes	6/9	No	700	No	*	Noonmatt Aungent Dimpos Patgist 6154678710	Birthe
13.	15-02-17	No	Yes	\$Jo	No	Yes	No	-	ADLITHLERAMA NOOMNALO, GALANCIO 1864967675	100 3014
19.	15.0217	No	Yes	No	Mo	445	140	-	talita Beyon Pathangung, VIPRON 10c42111732	

INFORMATION AND NOTICE DISTRIBUTION TO THE NEARBY RESIDENCES

1	NAME	ADDRESS WITH PHONE NUMBER	SIGNATURE	REMARKS
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13	Dimpol pottoni	Howard 8910	Dung Har	
14	Alw Tolukda	Hommodu toweld	Witter Barre	
15	Lalefa began	Road townshood	व्योक्तिय	

PLANNING OFFICER

PADIECT MANAGER

SUGGESTED COMPLAINT REGISTER AND COMPLAINT FORM

The **Assam Urban Infrastructure Investment Program (AUIIP)** welcomes complaints, suggestions, queries and comments regarding project implementation. We encourage persons with grievance to provide their name and contact information to enable us to get in touch with you for clarification and feedback.

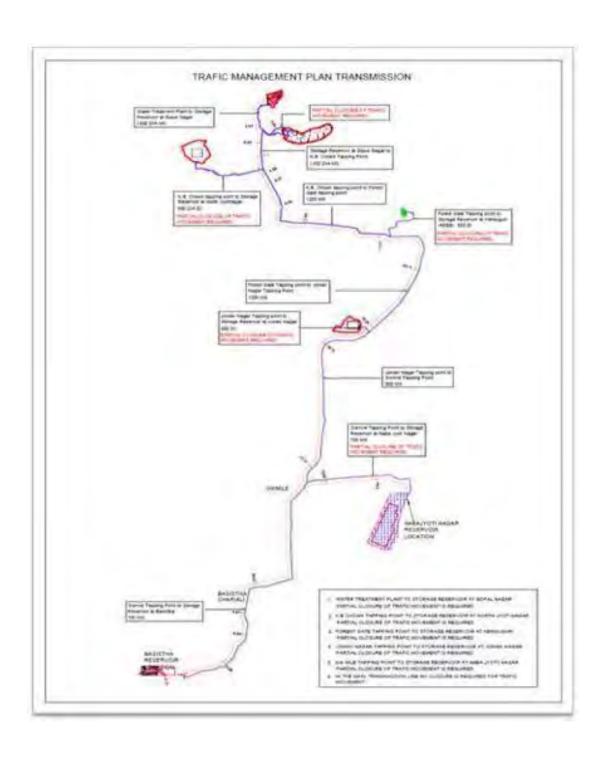
Should you choose to include your personal details but want that information to remain confidential, please inform us by writing/typing *(CONFIDENTIAL)* above your name. Thank you.

Date		Place of registration	1		
Contact Information	/Personal Details				
Name			Gender	Male Female	Age
Home Address					
Village / Town					
District					
Phone no.					
E-mail					
grievance below:	on/Comment/Questionment/note/letter, plea	·	ne details (wh	no, what, where a	nd how) of yo
How do you want u	s to reach you for fee	dback or update on y	our comment/	grievance?	
FOR OFFICIAL U	JSE ONLY				
Registered by: (Nar	ne of official registeri	ng grievance)			

Registered by: (Name of official registering grid	evance)		
If – then mode:			
Note/Letter			
E-mail			
Verbal/Telephonic			
Reviewed by: (Names/Positions of Official(s) re	eviewing grievance	e)	
Action Taken:			
Whether Action Taken Disclosed:			
		Yes	
		No	
Means of Disclosure:			

GRIVENCES RECORD AND ACTION TAKEN

Sr. No.	Date	Name and Contact No. of Complainer	Type of Complain	Place	Status of Redress	Remarks



Appendix- XX I

Attendance Sheets

No.	NAME							1	ATT	EN							IJ	ļΓ		DA	NO	E		ép.	1 2	71	ī	2	Pepatris	I	Green	-
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Attendance Register For

For the month of	MARCH - 2017
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APPENDIX-GUWAHATI

ASSAM URBAN INFRASTRUCTURE INVESTMENT PROGRAM (ADB Loan No.2806-IND)

Package No-AUIIP/PR-1/GUW/WS/02A

Contract Title: Construction of Storage Reservoirs of various Capacities at Three locations, Approach road and allied Works in South East Guwahati Water Supply Project

WORKPLAN FOR GOPALNAGAR RESERVOIR (17ML)

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_	\$50 hom No.	inem Description		Start Sets	From the Drate		e lut i	Aire 1	Jap Ovi	- Nov	Dec N	en Fet	Mari	Apr M	Sey No	n Ad	Project	lege (Det No	rr D+	lime!	Feb N	Nor A	m Ma	Pare	MIR	g Sep	Out	4
k	-	STEOFICE	41	61-10-2019	15-11-2016				11										1										
1		ELECTRIC FOWER & WATER MARKGEMENT	81.	01/09/2010	31-10-2016				-																				Г
3		LABOUR CAMP WITH TOLLETS FOR GENTS & LABRES	129	23-06-2016	91-16-2018		-	_			_	+	-	-	+	++	\rightarrow	\rightarrow	+	+	++	$^{+}$	_	+	++	+	+		r
_						-	-		_	-	-	+	-	-	-	+-	-	-	-	+	+-+	-	-	+	+	-	+		۰
4		SIGNOCARD	41	21/9/2016	31-10-2016								_					_	_		1 1		-1				1		1
5		STORAGE YARD	88.	£5/9/2005	51-12-2018									-	15							-	- 1						Г
6		STORAGE FARD FOR CONSTRUCTION MATERIALS	88	25/9/2006	31-17-201		П								\mathbf{T}						П				\Box	\neg			Г
-	Schedule for 4	APPROACT STIAD	179	23/8/3006	15-12-2018	-	_	_	_	_	_	+	-	-	+	++	\rightarrow	\rightarrow	+	+	+	-	_	+-	++	+	1		r
-1	T.	Casing Grace and removal of Russian	1	23/6/2016	90-06-3016			\neg										_	-		11		-						г
- 1	T	Exception in sor in hitly prep by mechanical means	112	89-67-7016	31/7/7010						_	+	-		_			_	-	_	_		-						г
- 1	7	Entayation in hill area in ordinary rock not requiring trusting	31	60-07-2016	91/7/2018																								Г
- 3	4	Stone massing work in returning wall	134	05-07-2016	13-11-2018										_	П					1 1						1		Г
- 1	4.0	Random Rubble Masonny	100	-05-07-0010	13-11-2016				_																				г
- 1	3	Construction of CIA Layer		89-67-2016																									Г
- 0		Laping and spreading of WOM layer	16	M09/2008	15/10/200	1													4										Е
- 1	77.3	Providing and applying Primer Cost (IRO) glock with siturcitous.		12000	-	т	T								\neg			\neg	\neg	\mathbf{T}	\Box				\neg				Г
	7	enulsian	31	18-18-2016	31-15-351																								L
		Promiting and approving Tack Coast (IRE 25g) upon with bituminates	1		1.7.55																								Г
	1.0	en-sec	15		15-11-201							1																	1
	- 1	Оряч роцева ревент предасту менят у 20мм этра.	34	13-11-2010	50-11-2016																								ſ
	18	Providing and faying soul road		26-12-2018					- 1						-		=		_	-			-	-		_			Г
		Side Orain of Approxim to Record		21.47-2016					_		-	-		_	-	\perp	_		-	-	-	_	_	-		-			_
	- 11	Eveniumen in soil in hilly been by mechanical meaning	6.7	91-07-2016			100				_	-		_	_	\perp	_	_	_	\perp			_	_		_			
	12	Providing brick spling	82	81-81-3014					1		-	-		-	-	-	_		-	-	-	-	-	-		-			_
- 4	13-	Providing and laying in position PCC of naming mix 1/2 if		15/7/2016			-		_		-	-		_	-	-	_	_	-	-	-	_	-	-	-	-			
- 1	54	Brissells in remark marrier in proportion 5. F.		610546-65			1	_			-	-	-	_	-	\perp	_		-	1	-		-	-	1	_			-
	15	I limit thick cement planeting with Lifetenest mortal	91				-	_			-	+	-	-	-	-	-	-	-	-	-	-	-	-		-			۰
- 1	16.	Most remain printing and plustered author (EDig/Som Drain Cover & Brusing of Side Drain		01-11-2016	36/11/2014		++	-	_		-	+	\vdash	-	-	+-	-	-	+	+	+	-	-	-	+-1	+	-		٠
	- 11	Drawn Cover & Drawing of Inde Drawn Drawnling formigers of and mark timber		DI-11-2016			-	-	_		-	+	-	-	-	-	-	-	-	+	-	-	-	-	+	-	1		۰
- 1	- 54	Supplying fitting and fluing in patients recollected many fig. \$200	- 15	44.61-56.06	25/11/2011	+	++	-	-		-	+	-	-	+	++	-	\rightarrow	+	+	+	+	+	+	+	+	+	\rightarrow	r
. 1	15	Gratel of TATA / Skis.	146	00-11-2016	26-11-2016	. 1																							
	17	Providing and lighing /RCC marks Germani		20-11-2056			-	-			-	+	-	-	-	+	_	+	-	+	++	-	-	+-	+	+	1		۲
-	Schedule No. 2		204	26/1/2916			+ +	-	_	-	-	-	-	_	-	+	-	-	-	+	-	-	-	+	+ - 1	-	+ +	\rightarrow	۰
- 1	SCHOOL SEC. 6.	Carry work encaration for foundation trenches of walls retaining waits	2019			_	+	-	_		_	_	_	_	_	_	_	_	+	+	-	-	-	+	+	-	-	_	۰
	1	and	135	26/9/2016	54-02-2017										-						11		- 1	1	1 1		1 1		
	-		- 140		W. 100 C	+	++					-	1	-	+	++	\rightarrow	-	+	+	+	-	-	+	+	+	+		۲
	1	Device layer 200mm thick rulpide airling to foundation and under free	125	80-10-2016	10-02-3013																								
- 1	1	PKS Wens		\$1-11-2016	28/2/2017					0																			Г
1		Providing formation		86-12-2056																									Г
		In Supervicture		01-12-2014																									Ė
	3.0	3K Supervisuative	90	109-01-2017	31/3/2017																								Г
		Supplying, fisting and fising in position reinforcement	192	15/12/2016	15/5/2017																								C
- 1		In Subdivirture	91	15/12/7018		1							-																Г
		In Superarciance	41		15/5/2017				11																				
- 3		Providing & laying M-50 RCC work.		20/12/2016																									
		In Substructive		16/12/2014																									
		in Supermentary			34/1/2017														-	-	1		-		-	-			
- 1	7	Providing and laying pricting on United		80-05-0017	30/8/2017			_	-										-				-			-			
	- 1	Previding when heles		99-94-2917	39(4/2917				- 1					_1															
	Schedule No. 1	A CONTRACTOR OF THE PARTY OF TH	MI	23/5/2006	31/9/2008				_		_	_		_	_		_	_	_	-	_	_	_	_	-	_			í
	1	Jungia Clearance		23/6/2016				- 1	11			1		-															L
- 3	1.	Bermeen in Excession		25/6/2016						_	_	-		-	-			-	-	-	-	-	-	-		-			-
	3	Double Layer Ruspie Solling		01-11-2016														-		-	+	-	-			-			
- 1		PSG Wars.	3.57	45/11/2016	31/3/2017					I .											1 1		10.1						1

	****						-	2008		100	2027 2011
Mφ.	\$00 him No.	inem Description				Pom	lef Aug	340	OH! N	Dec	t Jan Feb Mar Age May Jun Ad Aug Sep Oct New Sex Jee Feb Mar Age May Jun Ad Aug Sep Oct No
	-	STEOTICE	44	61-10-5619	15-11-2016						
П	1	ELECTRIC POWER & WATER MANAGEMENT	41.	01-09-2016	31-10-2016	П					
ī	1	LABOUR CAMP WITH TOLETS FOR GENTS & LABRES	129	23-06-2018	91-16-2018	_	_	_			
÷	-				33 45 5111	-	_	_	_	+	
-		SIGNOCARD	41	21/9/3058	31-10-2016	-		-	-	_	
Ц		STORAGE YARD	.00	69/8/2005	31-12-hms		-				
Π,		STORAGE FARD NON CONSTRUCTION MATERIALS	88	25/9/2006	31-12-2016						
7	Schedute No. 4	APPROACH ROAD	179	73/8/3006	15-12-2018	-	_	_			
	T.	Cleaning Grant and removal of Russian	. X	23/4/2016	50-06-2016						
	T.	Treposition in part in hilly pres by mechanical means.	11	811-07-2016	31/7/2016						
	3	Exceptation in hill area in ordinary rack non requiring tracting	31	60-67-2016							
	4	Store massing work in returning wall		05-07-2016		-					
	4.0	Ransom Rubble Masony		65-67-2018			_	_	_		
		Courteran of COR Layer		89-67-2016					11		
		Laying and spreading of WBM layer	16	3079/2018	15/10/2006						
	7	Processing and papiting fromer CountiffCing/som with prominents	- 0	Park with	*********	П					
	7	encycles	- 11	18-18-3014	11-10-3018	\rightarrow	-	-			
		Promiting and approving Tack Coal (IN) Jug/supr with bituminess	1.0	DE-14-2018	15-11-2016	1 1					
	3	6.000		13-11-2016		-	-	-	-	-	
	18	Open grades premi surfacing which is 20mm thick. Providing and laying east root		29-12-2018 29-12-2018		-	_	-	_	-	
	-	Sale Orace of Approve & Recol		81-67-2016		-	_	-	_	_	
	11	Execution in self of hills used by mechanical mapping		E0-07-2014		-	_		_	-	
	Ti-	Providing brish paling		81-81-3014		1			_	_	
	13-	Providing and laying in position RCC of homings mix 1/2-4		15/7/2016		-	_	-	-	_	, , , , , , , , , , , , , , , , , , ,
	14	Bridgians in remain marrier in properties 1. I.		81-09-2014		П	-		_		
	25	I limit thick coment planning with I ill comest mortal		05-09-2014		П					
	16.	Rest lement punking also plantered surface (EDigNets		10:00:3018							
		Drain Cover & Brazing of Side Drain	32	01-15-2016	36/11/2016						
	.11	Proceeding formises of antirony tomber	. 15	DI-11-2016	15/11/2018						
		Supplying, fifting and flung is passion reinforcement bers (Fe 500)			Same	П					
	15	Grunel of TATA / SAIL		00-11-2016				-	_	_	
	- 17	Providing and laying /PCC marks German	35	36-11-3056							
	Schedule No. 2	NETAINING WALL	208	26/1/2516	31/7/2017					_	
	1	Carch work engagement for foundation trensfels of early retaining water eng.	130	269/2016	54-03-3017						
	1	Deputite layer 2000-min shield nutritle airling in Neumanian and simples Repo	125	10-10-2016	10-03-1017						
		PKS Wens		\$1-11-5014	28/2/2017	\perp	-		-	_	
		Providing Symmetric		86-12-2056							
	1.4	In Sektrocure		01-12-3014		\vdash		-	-	_	
		of Supervisione	90			\vdash	-	-	-	-	
		Supplying, listing and fining in position reinforcement		15/12/2016		\vdash	_	-	-		
		An Supervisition	91	15/12/7008		\vdash	-	\rightarrow	-		
		In Superarcusture	- 45	16-05-3017			-	-	-	-	
		Providing & laying M-50 RCC work.		20/12/2016		-	-	-	-	-	
		In Substration		26/12/2014		-	-	1	-		
		In Supercrusture Providing and laying profiling on Union		81-94-2017 81-94-2017	20/5/2017	-	-	\rightarrow	-	-	
	1			99-94-2917	The state of the s	+		1	-	+	
	Schedule No. 1	Providing when home stronger processing.	300	23/5/7008		-		-	_	_	
	1	Longia Clementa		23/6/2016				1		_	
	1	Barmwork in Excession		25/6/2016				-			
	3	Deutse Lauer Russie Spring		01-11-2016							
		IS6 Wars		45/11/2016		-		1			

i de	SCO Sen Se.	hen Percription	No. of dept	Start Date	Named State	Spen /	u 2-g	hep O	2 Bo	n De	Same	Net- Ma	Apr	May 1	to See	 lep Di	f Non	Dies	mai f.	eti Mar	Age	Miles 2	est led	Ang	hep O	er Sine Co
		Supplying, fitting and foreg in position relinforcement in authorization	151	01-13-0016	30/1/2017														1							
		Providing formwork in super structure	82	01-01-3017	\$6/5/2017					1																
		RIE GOAL	353	01-05-2017	1200/8/200							-														
	A.1	In Sub-Structure up to Printh Level -	153	01-09-3057	30/9/2017																					
		Supplying fitting and fixing in position reinforcement in pages antividual	160	15/10/2017	\$1/3/2018						П															
	.7	Providing Sertious in super structure	350	01-12-2017	30/4/2012																					
	1.4	in Super Structure from Plints layer and up to Top of Beserve.	140	91-01-2018	10/6/2013						П							14								
		Reservoir Flooring	.24	28/7/2018	26/3/2018																					
	1.	Reservoir Flooring	19	JE/7/2012	15/5/2013																					
		Dismoverhick commercy progress in them counts	.30	01-08-3018	20/5/2015																			100		
		Finishing an Asservair Wall	152	10-04-2016	32/8/2016																					
	10	15 mm thick coment planter in angle cost, in coment mortal \$.4	5	14/1/2018	20/5/2013			П	Г	T	П		П		Т			П	Т							111
	- 11	Construction of RCC Star Care	133	05-64-2611	51/8/2053																					
	12	force for providing and mixing waterproofing Plateicists	84	01-07-2018	31/7/2012																					
	13	Proxising prouning by skilling hates (\$ 5 = a,b).	31	01-05-2013	31/5/2013																			-		
		ISESR Compound Development	F2	88-96-3018	31/9/2018		1																_			
	14.	Previous price solve in Asunoppiers and under floor	10	06-01-2011	30/4/2011																					1 - 1 - 1
	- 15	Providing and laying PCC of rominal min 3.5 6	- 23	15/6/2012	0%-07-201E																					
	10	75 con trick certain concern topping in quarter in properties 1 . 2 . 6	- 24	20/9/2018	16-07-2011										-10											1.4
	. 17.	Provising sirain with compre concrete (3.3 %)	-43	15/7/2915	31/1/2011																		-			
100.	NAME AND BUILDING	GMARC BOOM	16.2	21-11-2014										- 1												1 1

WORKPLAN FOR KENDUGURI

		Package No-AUIIPIPR-I/GUW/WS/02A																														
Con	tract Title: Con	struction of Storage Reservoirs of various Capacities at Ti allied Works in South East Guwahati Water Supply		ns, Approach	road and																											
		WORK PLAN FOR KENDUGURI RESERVOIR (S.	ML)																			_										
No.	SOO from No.	Item Description	No. of days	Start Date	Flaish Date	lon L	luf Aug	2016 See		w I the	e lan	I feb	Mari	Are	May	2011 San 1	rel Aer	e I San	a loc	+I Non	e Dec	e lan	Feb	Mar	Apr	May	Jun Li		nel S	-10	et IN	iow!
	+ - 12/1	SURVEY & PREPARATION OF APPRIDACH ROAD DRAWING	67	23/9/2016	30-11-2016	-	-		200		-	1		-			-	-	-	1	1	1	-	-	1		-		-	-		-
_			31	01-12-2016	31-12-2018	\vdash	+			-	-	-	-	-	\rightarrow	-	+	+	+	+	+	-		-	\vdash	\rightarrow	-	+	+	+	+	\dashv
2	2	APPROVAL OF APPROACH ROAD ALIGNMENT		, many lateral	CONTRACTOR.	Н		\vdash			-	\perp	\vdash			-	-	-	+	+	-	-			\vdash	\rightarrow	-	-	+	+	+	-
3	- 4	ARRANGEMENT OF ELECTRIC POWER & WATER	50	01-01-2017	28-02-2017		1	\vdash		-		_			-21				-	1	10						_		\perp	_	_	_
	A	SHIFTING OF ELECTRIC POLES & FALLING OF TREES	60	01-02-2017	31-03-2017														1													
5	5	LABOUR CAMP WITH TOILETS	151	01-11-2016	\$1/3/2017																											
5		SITE OFFICE	151	01-12-2016	30-04-2017		100																									
7	7	SIGNEGARD	31	01-10-2016	31-10-2016	П																			\Box						\top	\neg
		STORAGE YARD	31	01-04-2017	01-05-2017						_					+	+	+	+	1	+	+			\vdash		_	+	\pm	\pm	+	\dashv
9	9	STORAGE YARD FOR CONSTRUCTION MATERIALS	59	01-01-2017	28-02-2017	\vdash	+	\vdash		+		_				+	+	+	+	+	+	+	-	\vdash	\vdash		-	+	+	+	+	\dashv
9	Schedule No. 4	APPROACH ROAD	212	01-12-2016	30-06-2017	\rightarrow	+	\vdash	-	+	-	_	\vdash	_	_	-	+	+	+	+	+	+	-	-	\vdash	\rightarrow	-	+	+	+	+	\dashv
	schedule (40, 4	Dearing Grass and removel of Rubbish	444	01-12-2016	07-12-2016	\vdash	-	\vdash	-	-	_	_			_	_	+	+	+	+	+	-	-	-	\vdash	\rightarrow		-	+	+	+	\dashv
	1	Expension in soil in hilly area by mechanical means.	63	08-12-2016	UB-02-2017	\vdash	+	\vdash			_	_				-	+	+	+	+	+	+	1		\vdash	$\overline{}$		+	+	+	+	-
		Escavation in hill area in ordinary rock not requiring blasting	63	08-12-7016	UB-02-2017	П		П	1			7						T	T	1	Т				П						T	7
	4	Stone mesonry work in retaining well	90	15-02-2017	15-05-2017	\vdash		\vdash									+	+	+	+	+		1		\vdash	$\overline{}$			\pm	\pm	\pm	7
	4.1	Rendom Rubble Metorry	90	15-02-2017	15-05-2017	\Box		\Box																	\vdash				\pm	\pm	\pm	\neg
		Construction of IEEE Layer	15	01-06-2017	15-06-2017																										\top	\neg
	- 4	Leying and spreading of WBM leyer	16	17-06-2017	02-07-2017																											\exists
	7	emulsion.	15	01-10-2017	15-10-2017																											
	8	emt/ston.	15	16-10-2017	31-10-2017								П												П							П
	9	Open graded premix surfacing which is 20mm thick.	15	01-11-2017	15-11-2017																							Н				J
.0	10	Providing and laying seel met	10	20-11-2017	30-11-2017					\perp							\perp														I	
		Side Drain of Approach Road	87	01-03-2017	26-05-2017	\Box	_	ш		\perp															\Box	\Box	\rightarrow		\perp	\perp	\perp	_
		Excevetion in still in nilly area by mechanical means	7	01-03-2017	07-05-2017	\vdash	_	\vdash	-	+	+	-			$\overline{}$	-	-	+	+	-	-	-	-	-	\vdash	\vdash	\rightarrow	+	+	+	+	-
	12	Providing brick solling	16	08-03-2017	16-03-2017	\vdash	+	\vdash	-	+	+	-				-	+	+	+	+	+	-	-	-	\vdash	$\overline{}$	\rightarrow	+	+	+	+	\rightarrow
	13	Providing and laying in position PCC of nominal mix 1.2> Brickwork in cament mortar in proportion 1:4	30	10-03-2017 01-04-2017	30-04-2017	\rightarrow	+	\vdash	+	+	+					-	+	+	+	+	+	-	-	-	\vdash	$\overline{}$	\rightarrow	+	+	+	+	\dashv
	15	15mm thick cement plastering with 1:4 cement morter	15		15-05-2017	\vdash	_	\vdash	_	+	_	_	1			-	+	+	+	_	1	_			\vdash	$\overline{}$	\rightarrow		+	+	+	_
	16	Next cement punting over plastered surface @ 2kg/sqtr	10		26-05-2017			П		\top			\Box												П		\neg		-	\pm	\pm	7
		Drain Cover & Bracing of Side Drain	30		30-05-2017					\blacksquare																					I	
	10	Providing formwork of ordinary timber	30	01-06-2017	30-06-2017	\Box	-	Н	_	+	-		\vdash		\perp		+	-	-	-	-	\vdash		_	\vdash	-	\rightarrow	-	+	+	+	\exists
	100 14 100	Supplying, fitting and fixing in position reinforcement ben (Fe-500	100	01-06-2017	30-06-2017			1 1					П												1 1				-1			
	17	Grede) of TATA / SAIL Providing and laying /RCC works cement	30	01-06-2017	30-06-2017	\rightarrow	+	\vdash	-	+	-	+	\vdash	-	-		+	+	+	+	+	-	-	-	\vdash	$\overline{}$	\rightarrow	+	+	+	+	\dashv
_	Schedule No. 2	RETAINING WALL	472	01-01-2017	17-04-2018	\vdash	_	\vdash	_	+		-	-		_	-	-	+	-	-	-	-	-	_	-		\rightarrow	-	+	+	\pm	-
		Earth work expension for foundation trenches of walls, retaining wells etc.	51	01-01-2017	31-01-2017	П				Ī						T															T	
	2	Double layer 300mm thick rubble soling in foundation and under floor	(29	01-00-2017	30-04-2017			П																						T	T	1
	3	PCE Works	61	01-05-2017	30-06-2017					1				1																	T	J
	1.5	Providing formwork	168	01-08-2017	15-01-2018																								\perp		\perp	
	5.1	In Substructure	31		31-08-2017					T															\Box		\Box		_	T	\perp	
1	5.2	In Superstructure	52		15-01-2018	\vdash	-	\vdash	-	+		-	\vdash				1			1				-	\vdash	$\boldsymbol{\square}$	1	-	+	+	+	4
		Supplying fitting and fixing in position retritonoment	199	01-07-2017	15-01-2018 31-07-2017	\vdash	+	\vdash	-	+	+	+	\vdash			-	_	_	_	_	_	_		\vdash	\vdash	\rightarrow	\rightarrow	-	+	+	+	-
		In Substructure In Superstructure	31 52	15-12-2017	15-01-2018	\vdash	+	\vdash	-	+	+	+	+			-	-		+	+	-	-			\vdash		\rightarrow	+	+	+	+	\dashv
	4	Providing & laying M-30 NDC work	197		15-03-2018	\rightarrow	_	-	_	-	+	+	-		\rightarrow	-	-		-	-	-		_	-	-	\rightarrow	\rightarrow	-	+	-	\rightarrow	_

L No.	500 tem No.	Item Description	No. of days	Start Date	Finish Date	Jun	Jul Au	Sep	Oct N	ov De	ic lan	feb	Mar J	Apr Mi	ny Jun	Jul	Aug 5	ep Oc	t Nov	Dec	Jan Fr	b M	er Apr	May	Jun Ju	d Aug	Sep 0	ict No	w De
	4.1	In Substructure	91	01-09-2017	30-11-2017											П													
	4.2	In Superstructure	50	16-01-2018	16-03-7018						-1-1			3171	154	П										1	111		
	7	Providing and laying pitching on slopes	32	17-03-2018	17-04-2018									44714		П		H 11		14.7									
	8	Providing weep holes	32	17-08-2018	17-04-2018									-				11.									4 4		
	Schedule No. 1	STORAGE RESERVOIR	518	01-05-2017	30/9/2018										_	_						_							
	1	Jungle Clearance	51	01-05-2017	31-05-2017						\Box			_			-	4,15	1								1 1		
	2 -	Earthwork in Escwetion	714	01-06-2017	31-12-2017						-																		
	3	Double Layer Rubble Spiling	31	111-01-2018	31/1/2018	=					=			- 1-		П													T
	4	PCC Work	211	U1-02-2018	28/2/2018	-					=																		T
		Supplying, fitting and fixing in position reinforcement in subscharture	46	11-03-2018	15/4/2018						Ш																	T	T
	7	Providing formwork in super structure	15	16/4/2018	30/4/2018						\blacksquare					П													T
	5	RCC Works	- 31	111-05-2018	31-05-2018						\blacksquare			- 1		П		= 1										-	\top
	5.1	In Sub Structure up to Flinth Level -	31	111-05-2018	31-05-2018						\blacksquare			- 1		П												-	\top
	4.6	Supplying, fitting and fixing in position reinforcement in super actracture	30	01-06-2018	50-06-2012					Т	П																	T	
	7	Providing formwork in super structure	31	01-07-2018	31/7/2018			T			\blacksquare					П												-	\top
	7.2	in Super Structure from Flinth Level and up to Top of Reservoir	31	01-07-2018	31/1/2018						П															П			
12		Retervoir Flooring	15	16/9/2018	30/9/2018						\blacksquare					П													\top
	- 3	Retervoir Flooring	15	16/9/2018	30/9/2018			\Box			\blacksquare					П													\top
	-9	20mm thick cement pleater in two costs	11	20/9/2018	30/9/2018						\Box					П													\top
		Finishing on Reservoir Wall	. 27	01-07-2018	15/9/2018	\Box					\Box					П		4.01					11	1 - 1					\mathbf{T}
	žn.	15 mm this cement plaster in single cost, in cement morter 1;4	15	11-08-2018	15-08-2018			П	П						П	П	П	1				1							T
		Construction of RCC Steir Date	92	111-07-2018	31/8/2018						\blacksquare					П		-											\top
	12	Extra for providing and mising waterproofing Planticper	46	01-07-2018	15/1/2018						\blacksquare					П		-											\top
	15	Providing grouting by drilling holes # I m c/c	15	01-09-2018	15/9/2018						\blacksquare					П													T
	100	GLSR Compound Development	63	01-08-2018	30/9/2018			$\overline{}$			\Box					П		-1											T
	14	Providing brick soling in foundation and under floor	15	01-68-2018	15-08-2018											П		11											T
	15	Providing and laying PCC of nominal mix 1:3:5	16	16-08-2018	51-08-2018								1			П			100								177		T
	.16	75 mm thick cement concrete topping in betriber in proportion I : 4	15	111-09-2018	15-09-7018													4	11/		1								T
	17	Providing drein with cement concrete (1:3:5)	61	171-08-2018	30/9/2018						$\overline{}$																		+
13	Schedule No. 3	GUARD ROOM	122	01-06-2017	30,09,2017	1		_		_	$\overline{}$			_		_	_				$\overline{}$		_					$\overline{}$	+

WORKPLAN FOR NORTH JYOTI NAGAR

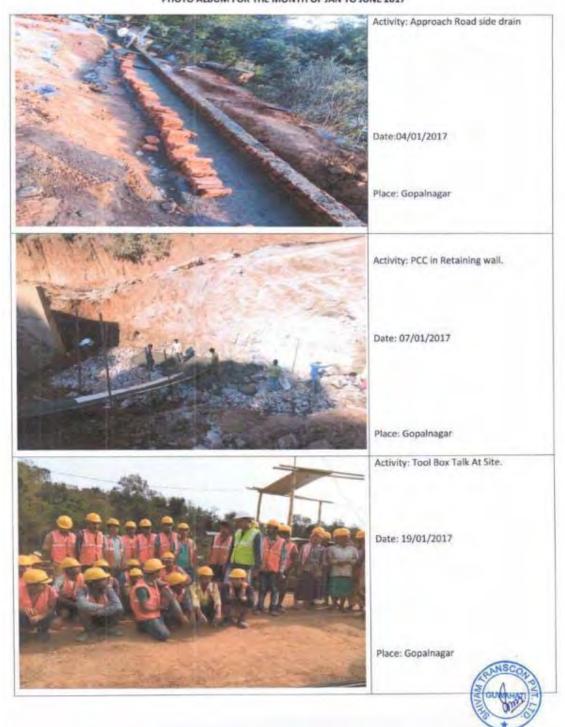
brill		Package No-AURP/PR-1/GUVRWS/02A																								
	tied Title: Cons	truction of Storage Reservoirs of surrous Capacities at Three in Works in South East Gowahati Water Supply Proje	et	ggroath roa	d and allied.																					
		WORK PLAN FOR NORTH JYOTINAGAR RESERVOIR (2.3 ML)					1018		-	_		_	- Inc	IF.					_		Jen	_	_	_	_
No.	7 800 fem No.	trans Description	No. of deep	Start Dale	Smooth Date	Jun 1	d And		t No.	Sec 1	lam Hells	Mar I	No Me			(Lien)	Oc No	- Ites	Sec 1	etc Mari	Sur Ma			les 1	bil Re	wil.
1	4	SUBJECT & PREPARATION OF APPROACH BOAD DRAWING	11	_	85-10-2018	_														0						7
7	1	APPROVAL OF APPROACH ROAD ALICHMENT	15	60-15-2016	13-11-2010	_	$\overline{}$	-		-	_	_	_	++	+	\rightarrow	_	+	-	_	_	$\overline{}$	+	\rightarrow	+	4
-	1	ARRANGEMENT OF ELECTRIC POWER & WATER	620	89 11 2016	Section and depote the	+	+	-	-	-	_	-	-	++	+	+	-	+-	+	_	_	\rightarrow	+	+	+	+
-	_		and the latest section in the latest section	and the second second	San State of	-	\rightarrow	-	-		_	_	-	-	+	\rightarrow	-	+-	-	-	-	\rightarrow	+	\rightarrow	-	4
t		SHIRTING OF ELECTRIC POLES & MALLING OF TREES	521	00-12-2010		-	\vdash	-	-	_	_	_	-	+	-	\vdash	-	-	\vdash	-	-	\vdash	_	\rightarrow	-	4
5	5	LABOUR CAMP WITH TOILETS	96	\$1,86,3887			\perp																	1		4
Å.		serona	M	DQ-60-3087	\$6.66.36£7																					
	3	386860480	30	80-18-1916	39-10-2015																					Т
		Under year	- 06	88-01-79EF	11.01-2017						_													\Box	$\overline{}$	T
۳		STORAGE HARD FOR CONSTRUCTION MATERIALS	- 10	A141,3917	16-63-3617		-									-						\Box		$\overline{}$		7
-	Schedule No. 4	A Company of Artist A Company of the Artist Annual Artist	213	Contract to the second of	30-06-2017	1	1 1		1	-	_	_	-1-	-	-	1	-	+	-	-	-	-	+	++	+	+
	1	Causing Grass and ramous of Russians	15		15-12-3014		\Box	_			\neg				_	\vdash			\pm		_	\pm		\pm	\pm	7
	1	Exception in our in hitly area by mechanical means	11	80-00-2847	35/01/2017			- 0																		1
	1	Experience in this area in proteining reprinted requiring braining	21		211-02-2011												17			4					\perp	П
	- 1	Steine missen's work in returning wall		20:42-7018			$\overline{}$						-	-	-	\vdash	_	-		-		\vdash	_	\rightarrow	+	4
Le .	4.1	A CORP. WILLIAM HAVE		61-12-2514		-	+	-	+	-	-	_	-	-	+	\rightarrow	-	+	+	-	-	\rightarrow	+	+	+	4
	-	Commission of GRE layer	31	N. 40 20 V	51 99 2617 13-64-3617	\rightarrow	+-+	-	+	-	-	-	-	-	-	\rightarrow	-	+	-	-	-	\rightarrow	-	\rightarrow	-	-
	-	laying and upreading of WBM layer. Providing and applying Primar clast (RBBs) som with brownings.		-	-	-	$\overline{}$	_	_	-	_		_	-	+	+	_	+	+	_	_	-	+	\rightarrow	\pm	7
	7	envisor		80-65-2017	07405-2687	1	1 1																40	1 1		1
		Properties and appropried fact Coast Eth Degrees with boundaries.		18-65-3017	10-05-3017		-									\Box						\Box		$\overline{}$		╛
	- 1	AMURION.	30				-					-		_		-		-	_				-	-	_	4
	1	Open graded premis surfacing which is 20mm thick	- 1	71-05-7007			-								_			-	\vdash				-	-	-	4
	30	Providing and stying real view		80 40 7057 80 40 7057	07-04-2017		-		-			_	_		-	\vdash	-	-	\vdash	-		\vdash	_	+	+	4
	11	tite District of Approach Base Legislation is and of tilly area by meshpolical means	- 50		07-61-HET	-	+	-	1	-	_		-	-	-	\rightarrow	-	+	+	+		\rightarrow	-	+	+	4
	32	Previous and some	-			-	+	\rightarrow	+		_	_	_	_	_	+	-	+	+	-	_	\vdash	\pm	\pm	+	1
	13	Providing and laying in provider MC of reprints into \$2.5	56	18-01-3017	15-01-2617 16-01-2817		-		+			_	_	111	_	\vdash		_	+			\vdash	_	\pm	-	7
	14	Bressens in pemern mediar in presentan 1: 1	23	WH 62-7657	28-02-3017									\Box								\Box				7
	- 0	ISon this terrary planting with I 4 street many		84-69-2017																					\pm	7
		New semins punning over plantered surface diliting/sem		36-03-2017 86-88-2817	31-99-2917		\vdash			_				\perp	_	\vdash	_	-	\perp		_	\vdash	_	\vdash	-	4
	-	Donin Cover & Bracing of Side Donin		80-62-7217		-	\rightarrow	-	-	-	_	_	_	-	-	-	-	-	-	-	-	\rightarrow	-	\rightarrow	-	4
	19	Financing formacin of attimaty terms: Supplying fining and fixing in passician retinfensement sum (Fe/SO).				-	-	-	-		_	-	_	-	-	-	-	+	+	+	-	\rightarrow	+	+	+	+
	18	Grade of TATA / MA	21	08-60-2017	25/1/3017		1 1	- 1	1 1															11		
	17	Processing and laying /FCC exerts content	30	85-06-3917	10-06-26LT		-		1				_	\blacksquare		\Box	_	_	\vdash		_	\pm	\pm	\pm	_	7
_	Schedule No. 2	RETAINING WALL	218	01-05-2017	20-11-2013																	=				
	-	Earn work excession for femoreties transfer of walls, returning ward	100	50-86-3667	104/3617		П									П										П
	- 4.	ele	- 11	this monday.	New Street,	-	\vdash		-	-	-	-	_	-	-	\vdash	-	-	\vdash	-		\rightarrow	_	\rightarrow	-	4
		Land to the control of the control o		80-06-7017	169/2017		1 1					1 1				1 1										-1
	1	Double layer 900mm intox russia paths in foundation and under Foor MC Works	- 80	80-67-3917	TECTION.	-	\rightarrow	-	+ +	-	-	-	-	-	-	-	-	+	-	-	_	\rightarrow	-	\rightarrow	+	+
	1	Providing formages		16-11-7907			1		1			$\overline{}$	_	•		-		_			_	_		\rightarrow	_	7
	10			16-11-7007									_												_	7
4	4.3		- 51		29-67-2014																	100				\exists
		Supplying firing and fixing in partition reinforcement		10-07-8917																						1
		In Substruction		16-07-2007			4				-	-	-				-	-			- 1 -		-		-	4
	-	in Superstructure		10-05-2013							-		-					-							_	4
	1	Providing 5 facing M-90 RCC warm. In Supervisions		17-61-2018		-	-	-	1	-	-	-	-	-	-	-	-	+		_			-		-	-
	1			\$1.05-2516			+	+	1	+	_	+	+	++	+	+	-	+						_		
	1	Processing and laying processing on steppes	- 9	RE-11-1841	M-B-380		1	-	1	1	-	-	-	1	+	1	-	+	+	_	-	+				
	- 1	Photograp was hour	80	07:11:3013	86/11/3011		$\overline{}$																			ı

i, für.	800 hem No.	Steer Description	No. of days	Sears Date:	Einigh Date	June 1	Mag.	Sep 6	les N	de De	e Jánes	Feb.	Mar As	May	June And	Airg	Sey O	ct Stow	Dec /	sia Fe	h Mar	Apr 3	May Inc	n ind A	leg 149	Qua	Nov 0
	Schedille No. 5		499	01-11-2016	30 11 2018					_		_				_				_							
		Lurgie Cerwanne	15	-01-11-2018	15-11-2016										-1-												
	1	Earthwork in Enteration	130	\$1-13-2018	21-03-2017																						
	5	Double Layer Rubble Selling	36	01-04-3017	30-04-2017																10.00						
- 2	4	RCC Were	30	D1-05-2937	50-08-2017																-						
Ш		Supplying String and fulling in adultion reinforcement in substitutions	92	01-07-201F	30-09-2511																			П			
- 11	7	Principle formation in substructure	. 94	01-50-5017	31-10-3017																						
	3.	BEC WINTED	351	25-16-2017										-	-												
	5.1	In Suit Structure up to Plinth Level	.76	15-10-2017																							
	1,7	In Super Structure from Plints Level to top of receivor.	1106	01-04-2018	30-09-2011										- /									-	_		
П		Supplying, fitting and fixing in basistion reinforcement in super- simulature	34	01-01-2013															0.1								
40	2.	Principle Services in super structure .	15	15-01-7838	31-01-2010																						
38		Reservoir Flooring	46	00-10-2018	13-11-2018																						
- 1	- T	Repender Fleering	. 31	01-10-2011			-																				
- 10		Minim trick camers gluster in two-count	31	D1-11-26s1																							
		Finishing on Reservoir Wall	30	05-09-2018	30-09-2018																						
	10	15 mm that come of plants in ong's cook in come of mortar 2. 4.	10		30-09-2018	П													П								
- 17	11	Communication of BCC Star Case	30		10-09-7012																						
. 1	12	Ferra for precising and mixing waterproofing Plasticites	36	01-09-3018	30-09-2018																						
- 1	.13	Presiding grouning by enting hales (f) 1 m s/s.	. 30	61-09-2012	50-09-2018		4.1								- 1										100		
1.7		615R Compound Development	39	49 11 5011	30-11-2014																-						
	14-	Previous strick saving in foundation and under Four	36	01-11-2018	36-11-2018		111																				
-12	15	Francising and laying PCC of reprints one 3 5.5	10	81-11-2811	80-11-2618		4																				
Ю	10	75 mm thick committee circle legging in combet in properties \$12.4.	30	01-11-2011	30-11-2018											-											
	1/2	Frenkeing drain with cement concrete (3, 5, 6)	30	01:11:3013	30-11-2010																						
13	Schedule No. 3		9.2	00 05 2017	91-46-2017								_														

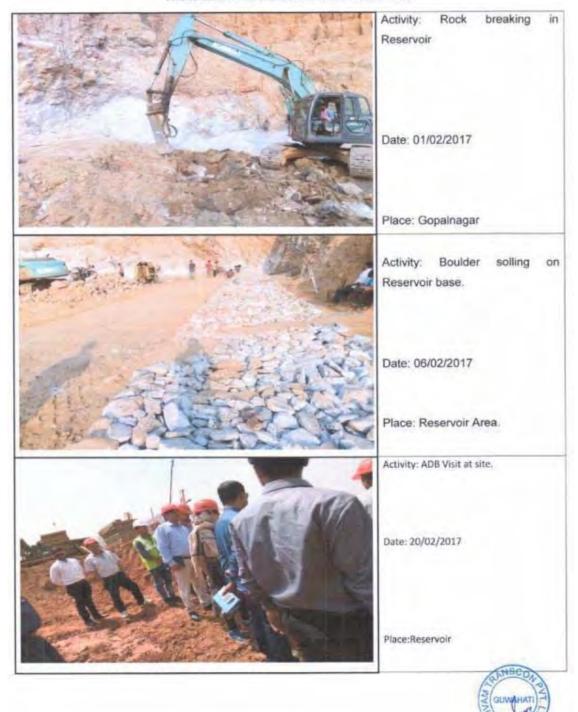
Appendix- II

SHIVAM TRANSCON PVT. LTD.

17MLD CLEAR WATER RESERVOIR PROJECT AT GOPALNAGAR PHOTO ALBUM FOR THE MONTH OF JAN TO JUNE 2017



17MLD CLEAR WATER RESERVOIR PROJECT AT GOPALNAGAR PHOTO ALBUM FOR THE MONTH OF JAN TO JUNE 2017



17MLD CLEAR WATER RESERVOIR PROJECT AT GOPALNAGAR PHOTO ALBUM FOR THE MONTH OF JAN TO JUNE 2017



Activity: MOM in the site Office.

Date: 02/03/2017

Place: Reservoir Area



Activity: Rock Breaking

Date: 20/03/2017

Place: Reservoir Area



Activity: Retaining wall raft.

Date: 27/03/2017

Place: Gopalnagar.



17MLD CLEAR WATER RESERVOIR PROJECT AT GOPALNAGAR PHOTO ALBUM FOR THE MONTH OF JAN TO JUNE 2017



Activity: Retaining wall casting

Date: 02/04/2017

Place: Gopalnagar



Activity: PD Visit at site.

Date: 03/04/2017

Place: Returning wall

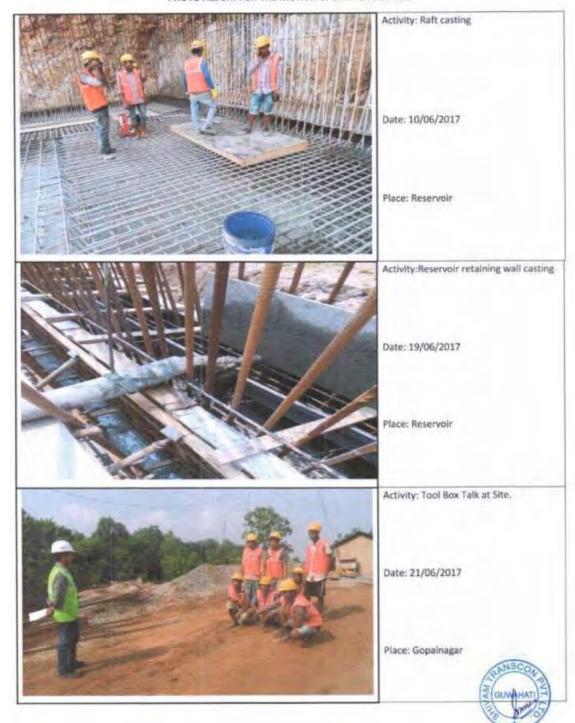


Activity: Sample collection

Date:10/04/2017

Place: Gopalnagar

17MLD CLEAR WATER RESERVOIR PROJECT AT GOPALNAGAR PHOTO ALBUM FOR THE MONTH OF JAN TO JUNE 2017



Appendix- III

BUDGET – ENVIRONMENT, HEALTH & SAFETY

SHIVAM TRANSCON PVT.LTD

SAFETY BUDGET ASSAM URBAN INFRASTRUCTURE

INVESTMENT PROGRAM

DURATION OF PROJECT:-

01/07/2016 To 31/08/2018

NAME OF THE PROJECT:-

		GE-02A I-IND	PROJECT	EN STRENGTH:-	50 Head
	5	ITE SAFETY E	BUDGET		
5.NO.	ITEMS	UNIT	QUANTITY	UNIT COST IN Rs.	ESTIMATED COS
1	SAFETY HELMET WHITE	Nos	9	185	1665
2	SAFETY HELMET RED	Nos	1	185	555
3	SAFETY HELMET BLUE	Nos	18	185	3330
4	SAFETY HELMET GREEN	Nos	3	185	555
5	SAFETY HELMET YELLOW	Nos	150	70	10500
6	HELMET RING	Nos	300	35	10500
7	SAFETY SHOE FOR STAFF	Pair	21	1100	23100
R	SAFETY SHOE FOR LABOUR	Pair	162	480	77760
9	GUM BOOT	Pair	45	345	15525
10	SAFETY GOGGLE WHITE GLASS	Nos	200	60	12000
11	SAFETY GOGGLE BLACK GLASS	Nos	50	60	3000
12	EAR PLUG FOAM BASED	Nos	100	15	1500
13	NOSE MASK	Nos	500	12	5000
14	HAND GLOVES RUBBER	Paic	100	30	3000
15	HAND GLOVES COTTON	Pair	500	22	11000
16	HAND GLOVES LEATHER	Pair	So	60	3000
17	FULL BODY HARNESS	Nos	50	3100	55000
18	REFLECTING JACKET GREEN	Nos-	50	80	4000
19	REFLECTING JACKET ORANGE	Nos	150	80	12000
20	HELMET STICKER	Nos	200	2	400
21	SAFETY DISPLAY BANNERS	Nos	6	500	3000
22	SAFETY SIGN BOARD	Nos	45	400	18000
.23	FIRE EXTINGUISHER-DCP	Nos	2	6000	12000
24	REFILLING CHARGES	Nos	6	2500	15000
25	ROPE FOR MATERIALS SHIFTING	Kg	50	220	11000
26	ROPE SLEEP PULLY	Nos	2	2000	4000
27	BARRICADING TAPE	Roll (RMT)	30	350	10506
28	25MM PP ROPE FOR LIFELINE	Kg	60	220	13200
29	SALARY FOR SAFETY OFFICER	INB	36	30000	1080000
30	SALARY FOR SAFETY SUPERVISORE	03 Head	36	15000	1620000
30	MOTIVATION & AWARDS	Nes	5	10000	60000
31	FIRST AID ITEM	Nos	2	5000	10000
32	HOSPITAL FACILITY	Nos			50000
38	WINTER SAFETY				50000
34	SAFETY TOOLS & TACKLES INSPECTION (TPI)	Half Yearly	-6	5000	30000
35	POLLUTION TEST (EWN)	Half Yearly	6	4000	24000
36	OTHER EMARGENCY SITUATIONS			100000	100000
	TO	TAL	-		3365090

Appendix- IV

NOC FROM DIFFERENT DEPARTMENTS AND INDIVIDUAL

Certificate for Land Possession

	অসম চৰকাৰ		
৮৯ বিশ্বাৰ	कार्यप्रान्स ::::::::::::	গুৱাহাটা ৰাজহ ৮ক	
	গুৱাহাটী		0
नः धःहः		ভাৰিখঃ	
শ	খল সমজাই দিয়া/লোৱাৰ	প্ৰমাণ পত্ৰ	
তাৰিখে শিল বৰ্নিত কৰা জমিৰ কামৰূপ ম	মি ২০.২ ৩ চনৰ ছে/ ১৮ ০ ছ আৰ জনিব মহানগৰ জিলাৰ অভিবিক্ত উপ ৩৫ ৮৫৪/২০০৭/১৮১ ১৮১৮	দট্টন/আৱন্টন কৰা/ অধিছ ামুক্ত মহোদয়ৰ 3.0/8/১(১	****
	ইং ভাবিখৰ		
	ক/ কৰ্তৃসক্ষৰ পৰা দখল সভ		
মার্টিৰ ভগণীলঃ			-
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8-5-13 900 Super: 900	A	- Marian	
8-5-13 900 Super 900 Privatella	প্ৰতি সাক্ষৰ: চক্ৰ দিলা	Section of the sectio	







GOVERNMENT OF ASSAM OFFICE OF THE DEPUTY COMMISSIONER KAMRUP METROPOLITAN DISTRICT, GUWAHATI (LAND SETTLEMENT BRANCH)

Telephone - 0361-2540149 Fax - 0361-2544452 E-mail - icomrupmetrosanic in Website - www.kansenpimetro.nic.in

No KRS.48/2015/10/3022

Dated. 24/05/15

To

he Additional Chief Secretary to the Covt. of Assam, Revenue & D.M. Department. Dispur, Guwahati-6.

Regarding allotment of land for construction of Storage Water Reservoir under Assam Urban Infrastructure Investment Sub.

Programme (AUIIP)

Ref Sir.

With reference to the subject cited above, I have the honour to submit herewith the proposal for allotment of land measuring 2B-2K-10L covered by dag No. 138/565 of village No. 1 Hengrabari under Beltola mouza received from the Circle Officer, Dispur Revenue Circle vide letter No DIS 2/2014/3359 dtd.16/05/2015 for construction of Storage Water Reservoir under Assam Urban Infrastructure Investment Programme (AUIIP)

The proposal has been examined and found that the proposed land is covered by Sarkari Dag (Khas land) under No.1 Hengrabari Village. As per Revenue Record, the proposed plot belongs to Revenue land. Class of the proposed land is found "Sreni Nai" and the Area of the proposed land is hilly but found without valuable trees. Connected with road and also suitable for heavy construction activities. At present the plot is used as "Cremation Ground" by the local people but land has been kept for their use. High land and free from water logging and flood. Located within the Guwahati Municipal area but not located near any River, Beel or notified water bodies. Roadside reservation not required as no road has passed nearby except approach road.

Considering the urgency the proposal is forward to the Covisubject to placing the same before to the next L.A.C. meeting for approval,

In this connection, the report submitted by the Circle Officer. Dispur Rev. Circle vide his letter No. DIS,2/2014/3359 dtd.16/05/15, copy of L.R.Staff report, chithe and trace map in duplicate are enclosed for favour of kind information and necessary action from the end of the Govt

Enclo As stated above

Yours farming Deputy Commissioner Kamrup Metropolitan District. Guwahati Vals



THIS MEMORANDUM OF UNDERSTANDING is made on day of 1st day of 1st day 2015 by and between Guwahati METROPOLITAN DEVELOPMENT AUTHORITY (herein after called GMDA) a government of Assam Organization on behalf of Assam Irban Infrastructure Investment Program (AUIIP) under Guwahati Development Department, Government of Assam, represented by the project Director, AUIIP, Guwahati herein after called the First Party

And

THE ASSAM POWER DISTRIBUTION COMPANY (herein after called APDCL represented by the Chief General Manager (HQ), APDCL, Bijulee Bhawan, Gitwahati-1 herein after called the Second Party

WHEREAS, the client AUIIP carries the work known as, CONSTRUCTION OF WATER RESERVOIR AND OTHER ALLIED WORKS for supplying water being carried out by Assam Urban Infrastructure Investment Program (AUIIP) under GMDA for supplying water at Kenduguri. Narengi Hill Top to serve the people of South East part of Greater Guwahati city funded by Asian Development Bank.

WHEREAS, the GMDA on behalf of AUIP desires to take over land of APDCL measuring 8.65 kathas in Dag No. 97 (Village No.1 Modghoria under Beltola Mouza) as scheduled below for construction of Kenduguri Water Reservoir on consideration of initial payment Rs.5 lakes and the rest of the cost to be naid later on as ascertained per katha is agreed and decided between the two parties and approved by the second party (APDCL) for construction of water reservoir at Kenduguri to be located at the designated place and both the parties agreed to execute this MOU/Agreement to finalize the agreements with the following terms & conditions.

AND WHEREAS, now this Memorandum of Understanding for the said land witnesseth as follows:

This Memorandum of Understanding has commenced from 01.07, 2015 and is valid till existence of the GMDA Project in the said land.

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- That the land measuring 8.65 kathas will be transferred/handed over by the second party (APDCL) in the name of GMDA for the construction of the water storage reservoir and pipeline alignment work under Assam Urban Infrastructure Investment Program (AUIIP) on receipt of payment as agreed upon both, First Party & Second Party.
- 3. Another stretch of land with a width of 2m along the pipeline corridor which is of 2m width is decided to be transferred by the second party to GMDA free of cost to curve out a road with a width of (2m + 2m) 4m starting from the APDCL security post to the reservoir site. The road so curved out will be developed and maintained by the first party for its use. The first party after construction of the road, which will also be used by the public, will have the right to transfer maintenance of the road to appropriate authority as deemed fit. The first party shall erect land boundary wall along the road stretch which is necessary to demarcate APDCL land as per drawing approved by the second party.
- 4. that, first party agrees to supply requisite quantum of water for APDCL staff colony located in the said location that is well within the distribution zone of Kendaguri under AUIP at a concessional rate agreeable to both parties subject to decision taken by Jaf Board.
- That, the first party shall take special care during execution of the works of the water reservoir, approach road and laying of water transmission line through the approach road shown in the approved drawing (Annexure-A) to avoid humpering of day to day activities of APDCL within the campus.
- That, the first party shall undertake adequate care/precautions during entring of hills so that, it doesn't cause any land slide during construction period and thereafter also.
- 7. That, the first party undertakes to construct WBM approach road to the proposed site up to the water reservoir as per attached drawing, agreed and approved by both porties (Annexure-A) within 6 (six) months from the date of signing this MOU. Till then the first party will be allowed to use the existing road of the APDCL to carry out the proposed constructional activities of the water storage reservoir.
- 8. That, the first party will be responsible to mending good damages which may seem to the existing infrastructures of APDCL colony of second party while carrying out the works in concern and the entire cost for any minor and major damages of the existing road of the APDCL colony will be borne by the first party.
- All the works i.e. Water storage reservoir and other allied works that so built within the proposed land will be the property of the first party.
- 10. That, the first party will bear the cost of such maintenance and repair works of the approach road to the reservoir site as and when necessary.
- In case of any requirement arises anytime, the second party APDCL cannot revoke any rights
 us conferred upon the first party. (AUIP) with any manner being liable for any disruption of services.
- 12. That, the first party agrees and undertakes to bear and pay the requisite stamp duty and registration charges and other Legal and miscellaneous expenses in respect of execution of the sale deed of the scheduled land for construction of works in question.
- 13. Since the newly aligned road will bifureate the APDCI, land, the first party will keep the road open for APDCI, to visit APDCI, land on the other side of the road.
- 14. Since the present road is open for public, the first party shall keep the road open for use of public all the time.

Short Executive Officer Switchiston's Authors

- 15. The first party will not disturb/dislodge/damage existing HV/LT lines of APDCL, AEGCL standing within the said land area, if any, Adequate distance from HV tower lines to be maintained as per norms from structures to be constructed.
- Permission for up rooting of existing trees, if necessary, has to be obtained from concerned forest department by first party.
- Proper and scientific measure will be taken by first party for discharge of storm water/water from the proposed reservoir etc.
- 18. Any future development and maintenance of the infra structure lying within area handed over that may hamper interests of APDCL are to be mutually decided upon before any such execution.
- 19. If at any time, the first party wants to vacate the land so possessed for such purpose from the Second Party (APDCL), the first party will intimate its intention of doing so to the second party. The second party will get the first priority to get the land back under terms and conditions that may be fixed mutually at that time.

That, this MOU is executed in duplicate with each copy being an official version of the agreement and having equal validity of both the parties.

By signing below the parties, acting by their duly authorized officers, have caused the Memorandum of Understanding to be executed with reals effective as on the day and year first above written.

Schedule:

North by:- No.1 Modghoria and Noonmati Garden

South by:- Modghoria (Part of Dag No. 97)

East by:- No.1 Modghoria and Noonmati Garden

West by:- No.1 Modghoria village and Noonmati Garden

On behalf of

Name of 1" part

1/2

Cowasas Metropolitan Dev. Authorit

Name: -

Designation

Date -

Seal-

al-

Witness: -

Proportion IE (Project Conditioner, 1110 Holl

Annexure A- Approved drawing of the said works vide clause -7

On behalf of

Name of 2^{ml} party

By:- A milestis

Name: (HASAW SAZID AHME)

DesignationSeneral Manager (H.G.)
APOCL, Bijulee Bhawan
Date: "palton Bazar, Guwahati-78100

Scal:-

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Land Acquistion Dancer

MARA JYON HAGAK PESERVEIR

GOVT. OF ASSAM OFFICE OF THE CIRCLE OFFICER:DISPUR REVENUE CIRCLE DISPUR:GUWAHATI:ASSAM

No. Dis-

Date-

Handing Over/ Taken Over Certificate

In pursuance to Govt. Letter No. RSS. 20/2015/9; Dated- 17/2/2015 issued from Deputy In pursuance to Govt. Letter No. RSS. 20/2015/9; Dated- 17/2/2015 issued from Deputy Secretary to the Government of Assam, Revenue & D.M. department and Additional Deputy Commissioner, kamrup Metropolitan District's Letter No. KRS. 854/2007/pt.1272-77 Dated-27/2/2015 the possession of the plot measuring 16.00 Are in Dag No. 132 in village- No. 2 Bagharbari, under Mouza- Beltola is handed Over/taken over in favour of dakhin- Pub Guwahati water supply Project, on this day of March, 10 th 2015.

Taken Over By:-

Coment Offices

Circle Officer Dispur Revenue Circle Circle Officer Dispur Guwahath Ispur Rev. Circle

Dare- 12-3-16

Memo No. Dis-1/201/2305-C

1. The Principal Secretary to the Govt. Of Assam, Guwahati Development Department, Dispur for kind information.

2. The Principal Secretary to the Govt. Of Assam, Environment and Forest Department,

Dispur for kind information.

The Chief Excutive Officer, Guwahati Metropolitan Development Authority, Bhangagarh,

Guwahati-05 for information.

4. The Project Director, Assam Urban Infrastructure Investment Programme, 3¹⁸ Floor, tripti Tower, Ganeshguri, Guwahati-05 for information.

5. P.A to Deputy Commissioner, Kamrup Metropolitan District for appraisal of D.C.

6 rol Circle Officer Disput Revenue Circle Circle Officer Dispur Rev. Circle

Certificate for Land Possession

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চক্ৰ বিষ্যাৰ কাৰ্যান্থঃ গুৱাছাটা ৰাজ্য চক্ৰ, গুৱাহাটা
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Tree cutting Permission Letter at Reservoir site

GOVERNMENT OF ASSAM OFFICE OF THE DIVISIONAL FOREST OFFICER. KAMBUP LAST DIVISION BASISTIA. GU WATIATI 29. Letter Son II KE Care Sources Care - 1 Dated (median) 1 '0)3 To The Secretary. G.D.D and Project Director. At HP, 3rd floor, Tripti Tower. Conwadani-5 Sub:-Permission for cutting of Trees at Reservoir sites related to South Law Guwahati Water Supply Project of AUIIP at Gopalnagas, Noonmati. Your No ADB/AUIIP/LA/61/2012 did 24-05-2013 Reft-Sin Will reference to the above, I would like to inform you that the permission for removal of trees is hereby accorded at Gopalnagar. Noonmati by the competent authority subject to observation of Rules and formalities. In view of the above, I would like to request you to provide fund for an amount of Rs.17,273,00 + Rs.2,02,000,00 = Rs.2,19,273,00 (Rupees two laklis nineteen thousand two hundred seventy three)only in separate bank draft as Gevt, valuation and operation cost which was prepared by the Range Officer, Guwahati Range at an early date. Amid (h Arcarah, 1FS Divisional Ediest Officer Kamerap East Division Assam, Basistha Conwahan-29 Copy in the Range Officer, Guwahati Range, for his information and necessary action. This has a reference to his letter No. G/104/Water Reservoir 157 and 19/04/2015 Anal Ch Surm di AFN Divisional Forest Officer Kamengs East Division. Assam. Basistha Ginvalian-29. Memo No. 1 Kt. Winer Storing 12 - Lt Dated Anovahun 19 8 2013 Copy to the Chief Conservator of Forests, Central Assam, Guwahati-1 for favour of his kind information. This has a reference to his letter No. 1 G.50/CAC. Reservoir & Pump house in R1 area/08 Pt. dtd 06/08/2013. Amed Ch Sarmah; IFS) Divisional Forest Officer Kamrup Fast Division, Assum Basistha: Guwu's 11-29

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Appendix- V
SITE SPECIFIC ENVIRONMENT MANAGEMENT PLAN, GOPAL NAGAR

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation
Utilities	Telephone lines, electric poles and wires, water lines within proposed project area	(i) Identify and include locations and operators of these utilities in the detailed design documents to prevent unnecessary disruption of services during construction phase; and (ii) Require construction contractors to prepare a contingency plan to include actions to be done in case of unintentional interruption of services.	DSC	(i) List of affected utilities and operators; (ii) Bid document to include requirement for a contingency plan for service interruptions
Structure stability in seismic zone V	Affect during earthquake	Design and analysis as per the Peak Ground Acceleration(PGA) and the seismic acceleration response curve and other factors like Response Reduction Factor (RRF) and Importance Factor (IF) as per the Indian Standard code	DSC/ PIU	(i) Checking of design report – consideration of design measures to minimize earth quake risk
Water Supply	Health risk due to closure of water supply during connection	(i) Plan the construction program to keep the	DSC	(i) Schedule of closure if any;(ii) delivery of potable water to affected

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation
		cessation of water supplies to the minimum possible (in both area and duration); and		people by GMC
		(ii) In coordination with GMC, provide alternative potable water to affected households and businesses for the duration of the shutdown if any		
Traffic Management	Impede traffic flow during construction	(i) Prepare a traffic management plan during pre-construction phase.	DSC	Ensure Traffic Management Plan is finalized before implementation. Draft Traffic Management Plan is prepared and attached as Appendix 3
Social and Cultural Resources	Ground disturbance can uncover and damage archaeological and historical remains	(i) Consult Archaeological Survey of India(ASI) or concerned department in Guwahati to obtain an expert assessment of the archaeological potential of the site;	DSC	Chance Finds Protocol
		(ii) Consider alternatives if the site is found to be of medium or high risk;		
		(iii) Develop a protocol for use by the construction contractors in conducting any excavation work, to ensure that any chance finds		

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation
		are recognized and measures are taken to ensure they are protected and conserved.		
Construction work camps, hot mix plants, stock pile areas, storage areas, and disposal areas.	Disruption to traffic flow and sensitive receptors along transmission pipeline laying area	(i) Prioritize areas within or nearest possible vacant space in the sub project location;	PMU/PIU and DSC to determine locations prior to construction	List of selected sites for construction work camps, hot mix plants, stockpile areas, storage areas, and disposal areas.
		(ii) If it is deemed necessary to locate elsewhere, consider sites that will not promote in stability and result in destruction of property, vegetation and drinking water supply systems;		
		(iii) Do not consider residential areas; and		
		(iv) Take extreme care in selecting sites to avoid direct disposal to water body which will inconvenience the community.		
Sources of Materials	Extraction of materials can disrupt natural land contours and vegetation resulting in accelerated erosion, disturbance in natural drainage patterns, ponding and water logging, and	(i) Prioritize sites already permitted by the Mining Department;(ii) If other sites are necessary, inform construction contractor that	PMU/PIU and DSC to prepare list of approved quarry sites and sources of materials	(i) List of approved quarry sites and sources of materials;(ii) Bid document to include requirement for verification of suitability of sources and permit for additional quarry sites if necessary.

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation
	water pollution.	it is their responsibility to verify the suitability of all material sources and to obtain the approval of PMU/PIU and		
Construction Stage		(iii) If additional quarries will be required after construction is started, inform construction contractor to obtain a written approval from PMU/PIU.		
Sources of Materials	Extraction of rocks and material may cause ground instability	(i) Use quarry sites and sources permitted by government;	Construction Contractor	Construction Contractor documentation
		(ii) Verify suitability of all material sources and obtain approval of Investment PMU/PIU;		
		(iii) If additional quarries will be required after construction has started, obtain written approval from PMU/PIU; and		
		(iv) Submit to DSC on a monthly basis documentation of sources of materials.		

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation
Air Quality	Emissions from construction vehicles, equipment, and machinery used for excavation and construction resulting to dusts and increase in concentration of vehicle-related pollutants such as carbon monoxide, sulphur oxides, particulate matter, nitrous oxides, and hydrocarbons	(i) Consult with PMU/PIU/DSC on the designated areas for stockpiling of clay, soils, gravel, and other construction materials; (iii) Damp down exposed soil and any stockpiled onsite by spraying with water when necessary during dry weather; (iv) Use tarpaulins to cover sand and other loose material when transported by trucks; and (v) Fit all heavy equipment and machinery with air pollution control devices which are operating correctly.	Construction Contractor	(i) Location of stockpiles; (ii) Complaints from sensitive receptors; (iii) Heavy equipment and machinery with air pollution control devices; (iv)Ambient air for respirable particulate matter (RPM- PM10 & PM2.5) and suspended particulate matter (SPM); (v) Vehicular emissions such as sulphur dioxide (SO ₂), nitrous oxides (NOx), carbon monoxide (CO), and hydrocarbons
Traffic Management	Impede traffic flow during construction	(i) Implement a traffic management plan during pre-construction phase.	Construction Contractor	DSC to ensure traffic management measures are implemented and traffic is not significantly impeded during construction period.
Surface water quality	Mobilization of settled silt materials, run-off from stockpiled materials, and chemical contamination from fuels and lubricants during construction	(i) Avoid stockpiling of earth fill especially during the monsoon season unless covered by tarpaulins or plastic sheets;	Construction Contractor	(i) Areas for stockpiles, storage of fuels and lubricants and waste materials;

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation
	works can contaminate nearby surface water quality.	(ii) Prioritize re-use of excess spoils and materials in the construction works. If spoils will be disposed, consult with PMU/PIU/DSC on designated disposal areas; (iii) Install temporary silt traps or sedimentation basins along the drainage leading to the water bodies;		(ii) Number of silt traps installed along drainages leading to water bodies; (iii) Records of surface water quality inspection; (iv) Effectiveness of water management measures; (v) For inland water: suspended solids, oil and grease, biological oxygen demand (BOD), and coliforms.
		(iv) Place storage areas for fuels and lubricants away from any drainage leading to water bodies;		
		(v) Dispose any wastes generated by construction activities in designated sites; and		
		(vi) Conduct surface quality inspection according to the Environmental Management Plan (EMP).		
Noise Levels	Increase in noise level due to earth-moving and excavation equipment, and the transportation of equipment, materials, and people	(i) Plan activities in consultation with PMU/PIU/DSC so that activities with the greatest potential to generate noise are conducted during periods of the day which will	Construction Contractor	(i) Complaints from sensitive receptors; (ii) Use of silencers in noise - producing equipment and sound barriers; (iii) Equivalent day and night time noise levels

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation
		result in least disturbance; (ii) Require horns not be used unless it is necessary to warn other road users or animals of the vehicle's approach;		
		(iii) Minimize noise from construction equipment by using vehicle silencers, fitting jack hammers with noise- reducing mufflers, and portable street barriers the sound impact to surrounding sensitive receptor, and		
		(iv) Maintain maximum sound levels not exceeding 80 decibels (dbA) when measured at a distance of 10 m or more from the vehicle/s.		
Ecological resources – Terrestrial	Felling of the trees – affect terrestrial ecological balance	(i) Minimize removal of vegetation and disallow cutting of trees;(ii) If tree-removal will be required, obtain tree-cutting permit from Municipal Corporation,	Construction Contractor	(i)Complaints from sensitive receptors; (ii) checking of conservation management plan for tree species and aquatic fauna/animal

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation
		(iii) Require to plant three (3) native trees for every one (1) that is removed; and		
		(iv) Prohibit employees from poaching wildlife, bird hunting, and cutting of trees for firewood.		
Existing Infrastructure and Facilities	Disruption of service and damage to existing infrastructure at specified project location	(i) Obtain from PMU/PIU/DSC the list of affected utilities and operators if any;	Construction Contractor	Existing Utilities Contingency Plan
		(ii) Prepare a contingency plan to include actions to be done in case of unintentional interruption of service		
Landscape and Aesthetics	The presence of heavy duty vehicles and equipment,	(i) Storage areas will be properly fenced off.	Construction Contractor	(i)Waste Management List; (ii) Complaints from sensitive receptors;
	temporary structures at construction camps, stockpiles, may result in impacts on	(ii) Prepare and implement Waste Management List;		(iii) PMU/PIU/DSC to report in writing that the necessary environmental
	aesthetics and landscape character.	(iii) Avoid stock piling of excess excavated soils;		restoration work has been adequately performed before acceptance of work.
		(iv) Coordinate with GMC for beneficial uses of excess excavated soils of about		described of work.
		91889 cum or immediately dispose/ use to designated areas;		

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation
		(v) Recover used oil and lubricants and reuse or remove from the sites;		
		(vi)Manage solid waste according to the following preference hierarchy: reuse, recycling and disposal to designated areas;		
		(vii) Remove all wreckage, rubbish;(viii) Retain mature trees on and around the site where possible;(ix) Cluster construction activities on site on a specific area to avoid "sprawl";		
		(x) Unwanted material and litter will be removed on frequent basis;		
		and		
		(xi) Request PMU/PIU/DSC to report in writing that the necessary environmental restoration work has been adequately performed before acceptance of work.		
Accessibility	Traffic problems and conflicts near project locations and haul	(i) Plan transportation routes so that heavy vehicles	Construction Contractor	(i) Traffic Management Strategy; (ii) Complaints from sensitive

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	or Monitoring of Mitigation
	road	do not use narrow local roads, except in the immediate vicinity of delivery sites;		receptors; (iii) Number of signages placed at subproject location
		(ii) Schedule transport and hauling activities during non- peak hours;		
		(iii) Locate entry and exit points in areas where there is low potential for traffic congestion;		
		(iv) Keep the site free from all unnecessary obstructions;		
		(v) Drive vehicles in a considerate manner;		
		(vi) Coordinate with Guwahati Traffic Office for temporary road diversions and with for provision of traffic aids if transportation activities cannot be avoided during peak hours;		
		(vii) Notify affected sensitive receptors by providing sign boards informing nature and duration of construction works and contact numbers for concerns/complaints.		

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation
		(viii) Provide planks across trenches in front of businesses, and ensure works are completed quickly to avoid disruption, and		
		(ix) Avoid full street closure		
Socio-Economic–Income.	Impede the access of residents and customers to nearby shops	(i) Leave spaces for access between mounds of soil;	Construction Contractor	(i) Complaints from sensitive receptors;
		(ii) Provide walk ways and metal sheets where required for people;		(ii) Number of walkways, signages, and metal sheets placed at subproject location.
		(iii) Increase work force in front of critical areas such as institutions, place of worship, business establishment, hospitals, and schools;		
		(iv) Consult businesses and institutions regarding operating hours and factoring this in work schedules; and		
		(v) Provide sign boards for pedestrians to inform nature and duration of construction work sand contact numbers for concerns/complaints.		

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation
Employment Generation	 The subproject will provide employment opportunities for local people during construction. Expectations regarding new employment will be high especially among the unemployed individuals in the area. Laborers gathering at the site for work can be a safety and security issue, and must be avoided. The training of unskilled or previously unemployed persons will add to the skills base of the area. 	(i) The use of labor intensive construction measures will be used where appropriate; (ii) Employ local (unskilled) labor if possible; (iii) Training of labor to benefit individuals beyond completion of the subproject; and (iv) Recruitment of labors will take place offsite.	Construction Contractor	(ii) Employment records; (ii) records of sources of materials
OccupationalHealth and Safety	Occupational hazards which can arise during work	(i) Develop and implement site-specific Health and Safety(H&S) Plan which will include measures such as:(a) excluding public from the site; (b) ensuring all workers are provided with and use Personal Protective Equipment like helmet, gumboot, safety belt, gloves, nose mask and ear plugs;(c) H&S Training for all site personnel;(d)documented procedures to be followed	Construction Contractor	(i) Site-specific Health and Safety(H&S) Plan; (ii) Equipped first-aid stations; (iii) Medical insurance coverage for workers; (iv) Number of accidents; (v) Supplies of potable drinking water; (vi) Clean eating areas where workers are not exposed to hazardous or noxious substances; (vii) record of H&S orientation

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation
		for all site activities; and(e) documentation of work-related accidents; (ii) Ensure that qualified first- aid can be provided at all times. Equipped first-aid stations shall be easily accessible throughout the project site; (iii) Provide medical insurance coverage for workers;		trainings (viii) personal protective equipments; (ix) % of moving equipment outfitted with audible back-up alarms; (xi) Signboards for hazardous areas such as energized electrical devices and lines, service rooms housing high voltage equipment, and areas for storage and disposal.
		(iv) Secure all installations from unauthorized intrusion and accident risks;		
		(v) Provide supplies of potable drinking water at working sites;		
		(vi)Provide clean eating areas where workers are not exposed to hazardous or noxious substances; and		
		(vii) Provide H&S orientation training to all new workers to ensure that they are apprised of the basics rules of work at the site, personal protective protection, and preventing injuring to fellow		

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation
		workers;		
		(viii) Provide visitor orientation if visitors to the site can gain access to areas where hazardous conditions or substances may be present. Ensure also that visitor/s do not enter hazard areas unescorted;		
		(ix) Ensure the visibility of workers through their use of high visibility vests when working in or walking through heavy equipment operating areas;		
		(x) Ensure moving equipment is outfitted with audible back- up alarms;		
		(xi)Mark and provide sign boards for hazardous areas such as energized electrical devices and lines, service rooms housing high voltage equipment, and areas for storage and disposal. Signage shall be in accordance with international standards and		
		be well known to, and easily understood by workers,		

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation
		visitors, and the general		
		public as appropriate; and		
		(xii) Disallow worker		
		exposure to noise level		
		greater than85 dBA for		
		duration of more		
		than8hoursper day without		
		hearing protection. The use		
		of hearing protection shall		
		be enforced actively.		
Core Labour Standard	Impact on health of contractor's	Monitoring compliance with	Construction	All records, documents related to
(CLS)- safety and	labour	national labor laws and	Contractor	health & safety of labours
compliance		regulations provided that		
		these national laws are		
		consistent with CLS. PMU		
		will ensure that bidding and		
		contract documents include		
		specific provisions requiring		
		contractors to comply with		
		all: (i) applicable labor laws		
		and core labor standards on:		
		(a) prohibition of child labor		
		as defined in national		
		legislation for construction		
		and maintenance activities;		
		(b) equal pay for equal work		
		of equal value regardless of		
		gender, ethnicity or caste;		
		and (c) elimination of forced		
		labor; and (ii) the		
		requirement to disseminate		

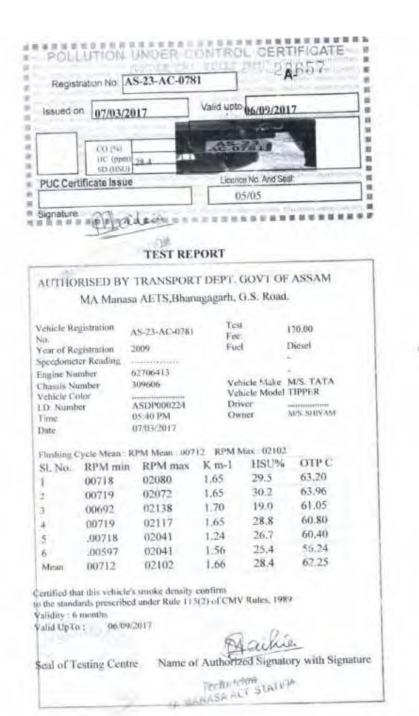
Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation
	information on sexually transmitted diseases including HIV/AIDS to employees and local communities surrounding the project sites.		
Traffic accidents and vehicle collision with pedestrians during material and waste transportation	(i) Plan routes to avoid times of peak-pedestrian activities. (ii) Liaise with PMU/PIU/DSC in identifying high-risk areas on route cards/maps.	Construction Contractor	(i) Traffic ManagementStrategy;(ii) Complaints from sensitive receptors
	(iii) Maintain regularly the vehicles and use of manufacturer- approved parts to minimize potentially serious accidents caused by equipment malfunction or premature failure.		
	(iv) Provide road signs and flag persons to warn.		
	(v) Provide protective fencing around open trenches, and cover any open trench with metal planks during nonconstruction hours.		
	Traffic accidents and vehicle collision with pedestrians during material and waste	information on sexually transmitted diseases including HIV/AIDS to employees and local communities surrounding the project sites. Traffic accidents and vehicle collision with pedestrians during material and waste transportation (i) Plan routes to avoid times of peak-pedestrian activities. (ii) Liaise with PMU/PIU/DSC in identifying high-risk areas on route cards/maps. (iii) Maintain regularly the vehicles and use of manufacturer- approved parts to minimize potentially serious accidents caused by equipment malfunction or premature failure. (iv) Provide road signs and flag persons to warn. (v) Provide protective fencing around open trenches, and cover any open trench with metal planks during non-	information on sexually transmitted diseases including HIV/AIDS to employees and local communities surrounding the project sites. I Traffic accidents and vehicle collision with pedestrians during material and waste transportation I Traffic accidents and vehicle collision with pedestrians during material and waste transportation I Traffic accidents and vehicle collision with pedestrians during material and waste transportation I Traffic accidents and vehicle collision with pedestrians during material and waste transportation I Traffic accidents and vehicle collision with pedestrians during high-risk areas on route cards/maps. I Traffic accidents and vehicle collision with pedestrians during high-risk areas on route cards/maps. I Traffic accidents and vehicle collision with pedestrians during high-risk areas on route cards/maps. I Traffic accidents and vehicle collision with pedestrians during high-risk areas on route cards/maps. I Traffic accidents and vehicle collision with pedestrians during high-risk areas on route cards/maps. I Traffic accidents and vehicle collision with pedestrians during high-risk areas on route cards/maps. I Traffic accidents and local communities surrounding the project sites. I Traffic accidents and local communities surrounding the project sites. I Traffic accidents and local communities surrounding the project sites. I Traffic accidents and local communities surrounding the project sites. I Traffic accidents and local communities surrounding the project sites. I Traffic accidents and local communities surrounding the project sites. I Traffic accidents and local communities surrounding the project sites. I Traffic accidents and local communities surrounding the project sites. I Traffic accidents and local communities surrounding the project sites. I Traffic accidents and local communities surrounding the project sites. I Traffic accidents and local construction Construction Construction Contractor Contractor Contractor Contractor Activities (ii) Liaise with

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation
		(vi) Recover used oil and lubricants and reuse or remove from the site; (vii) Manage solid waste according to the following preference hierarchy: reuse, recycling and disposal to designated areas;		
		(viii) Remove all wreckage, rubbish, or temporary structures(such as buildings, shelters, and latrines) which are no longer required; and		
		(ix) Request PMU/PIU/DSC to report in writing that the camp has been vacated and restored to pre-project conditions before acceptance of work.		
Office, Work Camps & storage	Temporary air, land and noise pollution from operation of camp & machine, water pollution from storage and use of fuels, oils, solvents, and lubricants	(i) Consult with PIU/ DSC before locating project offices, sheds, and construction plants; (ii) Minimize removal of vegetation and disallow cutting of trees; (iii) Provide water and sanitation facilities for employees/labours;	Construction Contractor	(i) Complaints from sensitive receptors; (ii) Water and sanitation facilities for employees; and (iii)PIU/ DSC report in writing that the camp has been vacated and restored to pre-project conditions

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation
		(iv) Prohibit employees from		
		poaching wildlife and cutting		
		of trees for firewood;		
		(v) Train employees in the		
		storage and handling of		
		materials which can		
		potentially cause soil		
		contamination;		
		(vi) Recover used oil and		
		lubricants and reuse or		
		remove from the site;		
		(vii) Manage solid waste		
		according to the following		
		preference hierarchy: reuse,		
		recycling and disposal to		
		designated areas;		
		(viii) Remove all wreckage,		
		rubbish, or temporary		
		structures (such as buildings,		
		shelters, and latrines) which		
		are no longer required; and		
		(ix) Request DSC/ PIU to		
		report in writing that the		
		camp has been vacated and		
		restored to pre-project		
		conditions before		
		acceptance of work.		
Social and Cultural Resources	Risk of archaeological chance finds	(i) Strictly follow the protocol for chance finds in any excavation work;	Construction Contractor	Records of chance finds
		(ii) Request PMU/PIU/DSC or		

Field	Anticipated Impact	Mitigation Measures	Responsible for Mitigation	Monitoring of Mitigation
		any authorized person with archaeological field training to observe excavation;		
		(iii) Stop work immediately to allow further investigation if any finds are suspected; and		
		(iv) Inform PMU/PIU/DSC if a find is suspected, and take any action they require ensuring its removal or protection in situ.		

POLUTION UNDERCONTROL CERTIFICATE



HESTER UNDER	31/0	05/2017	DL POLLV	PROPERTY:	30/11/2017	7
LLUTION UNDER	CONTROL POLLUT	TION UNDER CO		× 7		
36 36 36 36	CO (%) HC (ppm) SD (HSU)	28.4	A	ed.	B-0050	
TO CE COMME	ate Issue	TION UNDER CO	PATROL POLLU	LICENCE NO.	And Sea Litter	INDER CONTR
	nece		DL PO	0	5/05	

TEST REPORT

AUTHORISED BY TRANSPORT DEPT. GOVT OF ASSAM MA Manasa AETS, Bhangagarh, G.S. Road.

Vehicle Registration	AS-22-B-0050	Test	130.00
No.		Fee:	
Year of Registration	2005	Fuel	Diesel
Speedometer Reading			7
Engine Number	9560		+
Chassis Number	8563	Vehicle Make	TEREX
Vehicle Color		Vehicle Model	EXCAVATOR
I.D. Number	ASDP000224	Driver	*************
Time	12:40 PM	Owner	M/S S T. P. LTD.
Date	31/05/2017		

Flushing 6	Cycle Mean: R	PM Mean: 007	12 RPM	Max : 02102
SI No.	RPM min	RPM max	K m-1	HSU%

Sl. No.	RPM min	RPM max	K m-1	HSU%	OTP C
1	00718	02080	1.65	29.5	63.20
2	00719	02072	1.65	30.2	63.96
3	00692	02138	1.70	19.0	61.05
4	00719	02117	1.65	28.8	60.80
5	.00718	02041	1.24	26.7	60.40
6	.00597	02041	1.56	25.4	56.24
Mean	00712	02102	1.66	28.4	62.25

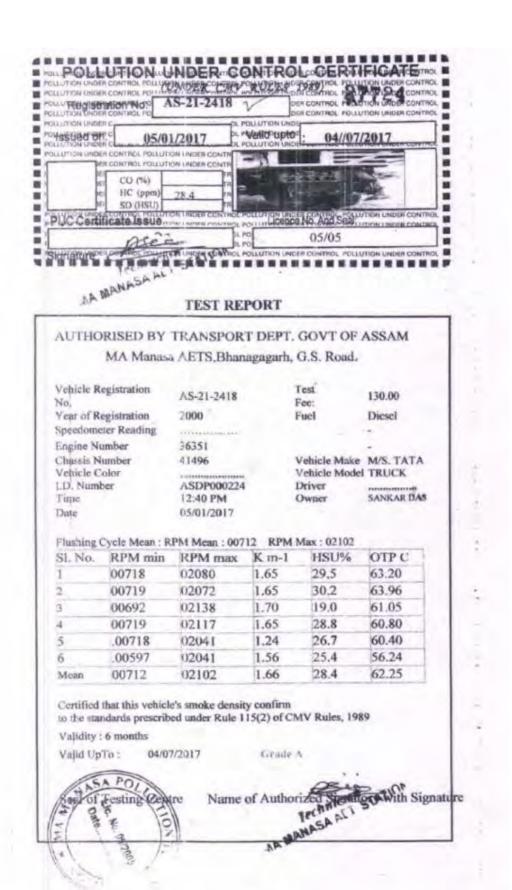
Certified that this vehicle's smoke density confirm to the standards prescribed under Rule 115(2) of CMV Rules, 1989

Validity 6 months

Valid UpTo: 30/11/2017 Grade A

Seal of Testing Centre

Name of Authorized Signatory with Signature



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Guwahati - 781021

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Visit us our website : www.shivamtranscon.com



n-d	Date
Ref.	Date

HEALTH SAFETY AND ENVIORNMENTAL OPRATION CONTROL PROCEDURES TRAFFIC MANAGEMENT PLAN (TMP)

Construction of CWR project in Guwahati (Contract Package AUIIP/PR-1/GUW/WS-02A & 02B)

Name of Project: Name of Project: Clear Water Reservoir Package 02A-Gopalnagar, Kenduguri, Northjyoti Nagar And Package 02B- Hengrabari, Nabajyoti Nagar, Basistha Guwahati ASSAM

1.0	PURPOSE:-
	Main purpose is to prevent accident between vehicles, pedestrians and employees and also minimize inconvenience to the vehicle. To stop property damage and prevent injury to persons arising from site traffic and site transport
2.0:	SCOPE:-
	The procedure is applicable to M/s Shivam Transcon Pvt.Ltd.
3.0	RESPONSIBILITY:-
	It is the responsibility of the construction Manager and all department head to implement this procedure and ensure that delegated staff under their supervision carries it out.
4.0	DEFINATION:-
	Construction Manager: Person responsible for the execution of the project.
5.0	LEGAL REQUIRMENT:-
	The Building and Other Construction Workers (Regulations of Employment and Conditions of Service) Act 1996and Central Rule 1998 Rule 48, 88 and 95 Motor Vehicle Act 1988
6.0	REQUIRMENT:-
6.1	GENRAL:-
	 All road works create inconvenience and are a potential hazard to the safety of all road users and those employed in carrying out the work. All the effects should be reduced to the minimum, and to ensure that the works are properly guarded, lighted and signed. A clear and early warning of any obstruction to all road users should be provided. All areas where work is going on should be clearly demarcated by hard barricading and
	entry into these areas should be restricted to only authorize personnel.

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Date

6.2	PLANING STAGE:
6.3	ON SITE:-
	The working space shall be defined and "A PLACE EVERYTHING AND EVERYTHING IN ITS PLACE" to be follow
6.4	OPERATORS/DRIVERS:- Only Experienced operators and drivers with valid icensed has been appointed. One copy of license has been collected. Refreshment training conducted for all operators and drivers Operators/Drivers authentication and validation to operate the particular machinery displayed in the machine/vehicles
6.5	EQUIPMENT:- Drivers are made a daily visual inspection of their vehicles include steering brakes mirrors, lights, horn, tyres and windshield wipers Safety Department along with Plant and machinery department shall check the vehicles monthly basis. All vehicles have reverse borns and it is in working properly All vehicles, preventive maintenance schedule has to be followed strictly
6.6	For safe operation we are following the below safety measure. Safe width of road has been provided. Flag man deployed at every traffic point to control the vehicles and pedestrians. Speed limit 10 km/hr within the site. Caution board has been placed in every location within the site. Workers are working with reflective jacket as well as required PPE's. Road for use of pedestrian has been identified. High Noise intensity reverse horn used in vehicles
6.7	While reverse vehicles ensuring Banks man. Do's and Don't displayed at site office. LOADING AND UNLOADING: Only authorized persons were engage for loading / unloading. Materials loaded within the permitted safe weigh limit (as per RTO) for the truck Ensuring Soil and sand loaded trucks are covered with tarpaulin while transporting. During Toolbox talks intimation has been delivered to all drivers/operators that when the Driver leaves the driving seat the engine of the truck shall be switched off, the gear engaged and parking brakes applied. On slopes, wheel blocks shall be applied

59, Zoo Narangi Road, Geeta Nagar,

Reformanion

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Date

	* * *	Helper has been provided with all vehicles. After unloading the banks man ensuring that the tipper is lowered before moving. Turn buckle and side stoppers used while transporting as required			
5.8	WARKING AREA:-				
	a.	The working area has been restricted from unauthorized entry.			
	b.	The working space has been defined.			
	c.	Particular attention has been taken in working area:			
		- traffic signs			
		- cones			
		> barriers;			
		> Information boards and			
		> site lighting			
	n.	Adequate lighting has been provided at the working area.			
	b.	All persons wear high visibility jackets			



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HEALTH S	AFETY AND	ENVIORNMENTAL	OPRATION	CONTROL	PROCEDURES

SPOIL MANAGEMENT PLAN (TMP) Construction of CWR project in Guwahati (Contract Package AUIIP/PR1/GUW/WS-02A & 02B)

Name of Project:- Clear Water Reservoir Package 02A- Gopalnagar, Kenduguri, Northjyoti Nagar And Package 02B- Hengrabari, Nabajyoti Nagar, Basistha Guwahati ASSAM

1.0	PURPOSE			
	To make a procedure to reduce and manage the spoil generated and reuse related to			
	Construction works			
2.0	SCOPE			
	The procedure is applicable to M/s Shivam Transcon Pvt.Ltd.			
3.1	DEFINITIONS			
	Something that is discarded or going to be discarded			
3.2	RESPONSIBILITY:			
	Project in charge is responsible for its implementation			
4.0	GENERAL HIERARCHY OF CONTROL			
	PREVENT			
	> REDUCE			
	REUSE			
	RECYCLE			
	> RECOVERY ENERGY			
	> RESPONSBLE DISPOSAL			
5.0	LEGAL REQUIREMENT			
	 The Building and Other Construction Workers (Regulations of Employment and Conditions of 			
	Service) Act 1996 and Central Rule 1998 Rule			
	 Environmental Protection Act 1986 			
	 The Water [Prevention & Control Of Pollution] Act-1974 and Rules 1975 			
	 The Water [Prevention & Control Of Pollution] CASs Act-1977 and Rules-1978 as amended in 2003 			
	 The Air [Prevention & Control Of Pollution] Act - 1981 and Rules 1983 			
	 The Environment [Protection] Act-1986 & Rules-1986 as amended from time to time 			
	The Hazardous Waste (Management and Handling) Rules, 1989 as amended			
	from time to time			
	 Bio-Medical waste (Management & Handling) Rules 1998 			
	 Municipal Solid Waste (Management and Handling) Rules 2000 			
	 Noise Pollution Regulation & Control rules, 2000. 			
	> Battery (Management and Handling) rules, 2001.			
6.0	REQUIREMENTS			

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Ref.	Date
6.1	Procedure: > Spoil volume calculations: Estimate the volumes of spoils produced from each of the construction sites. > Characterization of spoil: Based on the type of spoil; characterization is done (san stone, mud mix materials, reusable materials) • Adopt Spoil Reduce, Reuse Opportunities • An overview of the assessment methodology to be used is mentioned below. > Consideration of likely spoil characteristics • Identification of possible reuse sites > Screening of possible reuse opportunities • Identification of possible safe disposal sites for spoil: Those spoils which can be reuse shall be properly disposed in designated areas, such disposal areas should be identified in project locations. Such disposal areas should be safe from environmental aspects and there should be any legal and resettlement related issues. Such areas need to be identified and prior cliental approval should be obtained to use it as spoil disposal area. The local administration
6.2	identification and Assessment of Soil Aspect and impacts There is some place assessed and identified jointly Inside the Garden reach STP for Dumped and dressed the extra earth which is presently down from actual level. During shifting through trucks we are ensuring that the trolley loaded is covered to tarpaulin and there is harm of dust pollution.
7.0	SPOIL VOLUMES, CHARACTERISTICS AND MINIMIZATION Volumes Not conformed Characteristics Normal earth basically Clay types Minimization Excavation of earth to be done as per requirements only. No extra earth shall be excavated
8.0	Spoil Reuses Opportunities, Identification and Assessment Some Cubic Metre of Spoils will be reused for backfilling of excavated shaft location. Balance spoils will be removed
9.0	Spell Transportation Methodology Extra earth will be shifted by Truck / Dumper from site to dumping yard. Address of dumping yard: Chunchali, Kanchan Nagar Po-Noonmatt. Dist:-Guwahati, Assam- 781020.
10.	Monitoring, Reporting, Review and Improvements Monitoring, Reporting and all necessary improvements will be as required.
11	List of Relevant Guide Lines' Documents
12	References
13	Related other Procedures
-	The key aspects of potential impacts are listed in table below
14	Aspects Potential Impacts

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Date

Air Quality	Potential for high winds generating airborne dust from the movement of vehicles and machineries
Surface and Groundwater	Contamination of water (surface and ground water)
Noise	Associated with spoil handling and haulage and
storage Traffic	Impacts associated with spoil haulage
Land Use	Land used for dumping is a government land, permission obtained from client and is down from actual ground level.
Design specifications	Limitations on opportunities to minimize spoil generation
Sustainability	Limited sites for storage, reuse opportunities

DISPOSED SILT FROM Jan TO June 2017 APPROXMATELY-QUANTITY Not conformed.

ADDRESS OFDUMPING YARD- Kanchan Nagar, PO-Noonmati

Dist- Guwahati Assam-781020



22/05/2017



Ref. No.: GEEC/FL/23/2017/05/02

ग्रीन टेक एनवायर्नमेंटल इंजीनियर और कंसल्टेंट्स GREEN TECH ENVIRONMENTAL ENGINEER & CONSULTANTS

मारायण पथा, सम्पन्न संगर, शुंबाहाटी, असम-781028 House No-11, Champakragar, Narayan Path, Bhetapara, Guwanati-781028, www.greentacheec.in Telefax -0361 2300276 Mobile: 9435045677, 9954069052, E-mail: green_pranjal@holmail.com, info@greentacheec.in

Date of Reporting:

Cust	omer Name:	M/S SHIVAM Transcon Pvt. Ltd.	Lab. ID No.:		13/05/2017	
Cust	omer Address:	Gopalnagar, Noonmati Guwahati, Assam	Date of S	Sampling:	13/05/2017	
Sam	pling Location:	Bore Well	Sample R	Receipt Date:	13/05/2017	
Sam	ple Description:	Ground Water	Test Star	t Date:	13/05/2017	
Sam	ple Drawn By:	Mr. P.Talukdar	Test Com	pletion Date:	19/05/2017	
Sam	ple Condition:	Sealed	Sampling	Method :	GEEC/SOP/02	
	-		İ		IS-1050	0:2012
SL. NO.	PARAMETERS	METHODS	UNITS	RESULTS	Requirement (Desirable Limit)	Permissible limit in the absence of alternate source
1	рН	APHA 22nd Edn, 2012, 4500 H+	-	7.6	6.5 to 8.5	No relaxation
2	TSS	APHA 22nd Edn, 2012, 2540 D	mg/l	21		
3	TDS	APHA 22nd Edn, 2012, 2540 C	mg/l	110	500	2000
1.0	Hardness	APHA 22nd Edn. 2012, 2340 C	mg/I	8	200	600
4"						
4°	Chlorides	APHA 22nd Edn, 2012, 4500 CI-8	ng/l	14	250	1000

Authorised by: Laboratory In-charge

Blaken

(Dr. Belinda Lahon)

- * The results relate only to the item tested.
- * The parameters marked with + are not under the scope of NABL.
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PAGE 1 of 1

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नारायण पथः, चम्पक नगरः, गुवाहादीः, असम-781028

House No.11. Champaknagar, Narayan Path. Bhatagara, Guwahati-781028, www.greentecheec.in Telefax: -0661.2300278 Mobile: 9436048677, 9954089052, E-mail: green_pranjal@hotmail.com. info@greentecheec.in

TEST REPORT

Test Report No:	GEEC/FL/22/2017	//05/02	Date of Reporting:	26/05/2017	
Customer Name:	M/S SHIVAM Tra	anscon Pvt. Ltd.	Lab. ID No.:	GEEC/AA/2017/05/02	
Customer Address	Gopalnagar, Noonmati Guwahati		Date of Sampling:	13/05/2017 & 14/05/2017	
Sampling Location:	Near Office Room	Near Office Room		10.30 am to 10.30 am	
Sampling Condition:	In GF/A, PTFE Filter Paper & Plastic Bottle		Duration:	24 hours	
Humidity:	Max.	Min.	Ambient Temperature:	Max.	Mirr.
10	86%	55%		33.2°C	23.2°C
Equipments Details:	& ADS PM Sample	S Sampler 217 BL er	Test Start Date:	15/05/2017	
Monitored By:	Mr. P. Talukdar		Test End Date:	22/05/2017	

AMBIENT AIR QUALITY

Sampling and Analysis carried out as per GEEC/SOP/01

SI. No.	Parameters	Unit	Results	Limits	Test Method
1	Particulate Matter (PM ₁₀)	µg/m³	71	100	IS 5182(23)
2	Particulate Matter (PM _{2.5})	μg/m ³	39	60	CPCB Guidelines
3	Sulphur Dioxide (SO ₂)	µg/m³	12	80	IS 5182(2)
4	Nitrogen Dioxide (NO ₂)	µg/m³	20	80	IS 5182(VI)

Authorised by: Lab -in-Charge

Blaken

(Dr. Belinda Lahon)

The parameters tested on the specific date are found to be within the NATIONAL AMBIENT AIR QUALITY STANDARDS, CPCB NOTIFICATION DATED 18TH NOVEMBER, 2009.

Page 01/01

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TEST REPORT

			ILSI.	KEPUKI			
Test Repo	ort No:	GEEC/AAQM/201	7/05/04	Date of Repo	rting:	22/05/2017	
Custome	r Name:	Shivam Transc	on Pvt Ltd	Lab ID No:		GEEC/AA/20	17/05/04
Customer	Address:	Shivam Tower I Path Mother Te Gitanagar Ghy-	resu road	Date of sam	pling:	08/05/2017 &	09/05/2017
Samplin	g Location:	North Jyotingar N-26 ⁰ 11"29"		Duration:		24 hours	
Sampling	g Condition:	In GF/A, PTFE & Plastic Bottle		Sample Rec	cipt Date:	09/05/2017	
Humidit	y:	Max.	Min	Ambient Temperature:		Max.	Min.
		91%	70%			25.90	21,30
Equipme	ent Details:	Ecotech, RDS A		Test Start D	late:	10/05/2017	
Moniton	ed By:	Mr. P. talukdar		Test End Da	ate:	16/05/2017	
			AMBIENT A	AIR QUALIT	Y		
		Sampling an	d Analysis car	ried out as pe	r GEEC/SOI	2/01	
Sl. No.	Par	ameters	Unit	Result	Limits	Test M	fethod
1	Particular N	Matter (PM ₁₀)	μg/m³	79	100	IS 518	2 (23)
2	Particular N	Matter (PM _{2.5})	μg/m³	33	60	CPCB G	uidelines
3	Sulphur Die	oxide (SO ₂)	μg/m³	8	80	IS 51	82 (2)
4	Nitrogen D	ioxide (NO ₂)	µg/m³	18:	80	18.518	32(V1)
		*********	******End o	f Report	*******	*****	
					10. 3		E 4

Authorised by: Lab -in-charge BLOKEL

(Dr. Belinda Lahon

The parameters tested on the specific date are found to be within the NATIONAL AMBIENT AIR QUALITY STANDARDS, CPCB NOTIFICATION DATED 18TH NOVEMBER, 2009

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TEST REPORT

REPORT NO: GEEC/SLM/ST/2017/05/05 Date:22/05/2017

Lab. ID No.: GT/SLM/ST/2017/05/05 Date of Sampling :05/05/2017

Customer Name: Shivam Transcon Pvt.Ltd.

Customer Address: Shivam Tower

Monalisha Path, Mother Teresa Road

Gitanagar ghy-21

Sample Description: Sound Level Monitoring

Monitoring Done By: Mr. P. Talukdar

	North Jyotin	agar: 05/05/2017 (Sound level	in Leq)
	Day Time	4	7.8
Night Time		33.9	
	POLLUTION CONT	ROL LAW SERIES: PCLS/06	/2000-01 CPCB
Area	Categories of	Limits in	dB(A) Leq
Cade	Area/Zone	Day Time (6 am -10 pm)	Night Time (10 pm-6 am)
Λ	Industrial Area	76	69
В	Commercial	69	58

Instruction Used: Model: SLM 4023SD, Make Lutron, Taiwan

The above finding is based on reading collected on the specific date. The sound level recorded are within the CPCB Limit.

For GREEN TECH Environmental Engineer & Consultant

Blake

(Dr. B. Lahon) Lab In-charge

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TEST REPORT

			1531	REPORT			
Test Rep	ort No:	GEEC/AAQM/20	017/05/03	Date of Rep	orting:	22/05/2017	
Custome	er Name:	Shivam Transco	on Pvt Ltd	Lab ID No:		GEEC/AA/201	7/05/03
Custome	er Address:	Shivam Tower M Path Mother Te Gitanagar Ghy-	eresa road	Date of sam	pling:	05/05/2017 8	2 06/05/2017
Samplin	g Location:	Jonaki Nagar, H Ghy-781036	engrabari	Duration:		24 hours	
Samplin	g Condition:	In GF/A, PTFE F	ilter Paper &	Sample Rec	eipt Date:	07/05/2017	
Humidit	y:	Max.	Min.	Ambient Te	mperature:	Max.	Min.
		89%	63%			26.5°	20.80
Equipme	ent Details:	Ecotech, RDS A 217 BL & ADS P	20,627,167,037	Test Start D	ate:	07/05/2017	
Monitor	ed By:	Mr. P. Talukdar		Test End Da	ite:	13/05/2017	
			AMBIENT	AIR QUALITY			
		Sampling and Analysis ca		ried out as pe	er GEEC/SOP	/01	
SI. No.	Par	ameters	Unit	Result	Limits	Test N	Method
1	Particular N	Natter (PM ₁₀)	µg/m³	77	100	15 518	32 (23)
2	Particular N	Matter (PM-s)	ug/m³	39	60	CPCB G	uidelines

SI. No.	Parameters	Unit	Result	Limits	Test Method
1	Particular Matter (PM ₁₀)	µg/m³	77	100	15 5182 (23)
2	Particular Matter (PM _{2.5})	µg/m³	39	60	CPCB Guidelines
3	Sulphur Dioxide (SO ₂)	hR/m3	7	80	15 5182 (2)
4	Nitrogen Dioxide (NO ₂)	µg/m³	16	80	IS 5182(VI)

Authorised by: Lab -in-charge

BLAKE

(Dr. Belinda Lahon

The parameters tested on the specific date are found to be within the NATIONAL AMBIENT AIR QUALITY STANDARDS, CPCB NOTIFICATION DATED 18TH NOVEMBER, 2009

^{*}The results relate only to the item tested.

^{*} The test report shall not be reproduced except in full, without written approval of the laboratory.

[&]quot;The report cannot be used as evidence in a court of law without prior written approval of the laboratory Page 01/01



नारायण पय, चम्पक नगर, गुवाहाटी, असम-781028

House No.11, Champaknagar, Narayan Path, Bhetapara, Guwahati-781025, www.greentecheec.in. Teletax 0361.2300278 Mobile: 8435046677; 9054089052. E-mail: green_pranjal@hotmail.com. info@greentecheec.in.

TEST REPORT

REPORT NO: GEEC/SLM/ST/2017/05/06 Date:22/05/2017

Lab. ID No.: GT/SLM/ST/2017/05/06 Date of Sampling :05/05/2017

Customer Name: Shivam Transcon Pvt.Ltd.

Customer Address: Shivam Tower

Monalisha Path, Mother Teresa Road

Gitanagar ghy-21

Sample Description: Sound Level Monitoring

Monitoring Done By: Mr. P. Talukdar

	Jonaki Nas	par: 05/05/2017 (Sound level in	Leq)
	Day Time	4	7.6
Night Time		33,7	
	POLLUTION CONT	ROL LAW SERIES : PCLS/06	/2000-01 CPCB
Area	Categories of	Limits in	dB(A) Leq
Cade	Area/Zone	Day Time (6 am -10 pm)	Night Time (10 pm-6 am)
A.	Industrial Area	74	68
В	Commercial	66	56

***********End of Report ***********

Instruction Used: Model: SLM 4023SD, Make Lutron, Taiwan

The above finding is based on reading collected on the specific date. The sound level recorded are within the CPCB Limit.

For GREEN TECH Environmental Engineer & Consultant

plaker

(Dr. B. Lahon) Lab In-charge

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Guwahati - 781021

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e-mail : shivam2000in@yahoo.com, shivamtranscon@gmail.com

Visit us our website : www.shivamtranscon.com



Ref	Date

HEALTH SAFETY AND ENVIORNMENTAL OPRATION CONTROL PROCEDURES TRAFFIC MANAGEMENT PLAN (TMP)

Construction of CWR project in Guwahati (Contract Package AUIIP/PR-1/GUW/WS-02A & 02B)

Name of Project:- Name of Project:- Clear Water Reservoir Package 02A-Gopalnagar, Kenduguri, Northjyoti Nagar And Package 02B- Hengrabari, Nabajyoti Nagar, Basistha Guwahati ASSAM

1.0	PURPOSE:-
	Main purpose is to prevent accident between vehicles, pedestrians and employees and also minimize inconvenience to the vehicle. To stop property damage and prevent injury to persons arising from site traffic and site transport
2.0	SCOPE:-
	The procedure is applicable to M/s Shivam Transcon Pvt.Ltd.
3.0	RESPONSIBILITY:-
Ī	It is the responsibility of the construction Manager and all department head to implement this procedure and ensure that delegated staff under their supervision carries it out.
4.0	DEFINATION:-
	Construction Manager: Person responsible for the execution of the project.
5,0	LEGAL REQUIRMENT:-
	The Building and Other Construction Workers (Regulations of Employment and Conditions of Service) Act 1996and Central Rule 1998 Rule 48, 88 and 95 Motor Vehicle Act 1988
6.0	REQUIRMENT:-
6.1	All road works create inconvenience and are a potential hazard to the safety of all road users and those employed in carrying out the work. All the effects should be reduced to the minimum, and to ensure that the works are properly guarded, lighted and signed. A clear and early warning of any obstruction to all road users should be provided.
	All areas where work is going on should be clearly demarcated by hard barricading and entry into these areas should be restricted to only authorize personnel.

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Date

6.2	PLANING STAGE:-
6.3	ON SITE:-
	The working space shall be defined and "A PLACE EVERYTHING AND EVERYTHING IN ITS PLACE" to be follow
6.4	OPERATORS/DRIVERS:-
30.00	- Only Experienced operators and drivers with valid icensed has been appointed.
	P One copy of license has been collected.
	Refreshment training conducted for all operators and drivers
	 Operators Drivers authentication and validation to operate the particular machinery
	displayed in the machine/vehicles
6.5	EQUIPMENT:-
	Privers are made a daily visual inspection of their vehicles include steering brakes, mirrors
	lights horn tyres and windshield wipers
	- Safety Department along with Plant and machinery department shall check the vehicles
	monthly basis.
	 All vehicles have reverse horns and it is in working properly
	 All vehicles, preventive maintenance schedule has to be followed strictly
6.6	ROADS:-
	For safe operation we are following the below safety measure.
	 Safe width of road has been provided.
	Flag man deployed at every traffic point to control the vehicles and podestrians.
	Speed limit 10 km/hr within the site.
	Caution board has been placed in every location within the site. Workers are working with reflective jacket as well as required PPE's.
	Road for use of pedestrian has been identified.
	High Noise intensity reverse horn used in vehicles
	While reverse vehicles ensuring Banks man.
	Do's and Don't displayed at site office.
6.7	LOADING AND UNLOADING:-
	 Only authorized persons were engage for loading / unloading.
	Materials loaded within the permitted safe weigh limit (as per RTO) for the truck
	Ensuring Soil and sand loaded trucks are covered with tarpaulin while transporting
	During Toolbox talks Intimation has been delivered to all drivers/operators that when the Driver leaves the driving seat the engine of the truck shall be switched off, the gear
	engaged and parking brakes applied. On slopes wheel blocks shall be applied

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Date

Helper has been provided with all vehicles. After unloading the banks man ensuring that the tipper is lowered before moving. Turn buckle and side stoppers used while transporting as required. WARKING AREA: a. The working area has been restricted from unauthorized entry. b. The working space has been defined. c. Particular attention has been taken in working area: - traffic signs: - cones: - harriers; - information boards; and - site lighting a. Adequate lighting has been provided at the working area. b. All persons wear high visibility jackets





Project Safety, Health and Environmental Plan for Water Reservoir project DOC No STPL/SP/001

Date 01 09 2016

Page 1 of 24

SHIVAM TRANSCON PVT.LTD

PROJECT SAFETY, HEALTH AND ENVIRONMENTAL PLAN FOR

Water Reservoir Project Guwahati Assam

Prepared By	Checked By	Approved By
Umakan Sharma (HSE Officer)	S.N.L.Reddy (Project Manager)	Prinari Alazanka



Project Safety, Health and Environmental Plan for Water Reservoir project

DOC No.STPL/SP/001 Rev : 0

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1. Intent

This document is Shivam Transcon Pvt.Ltd. Health, Safety and Environmental Management Plan for the Clear Water Reservoir project. The document is based on Clear Water Reservoir Project Safety, Health and Environmental Policy principles for this Project and shall form on integral part of overall Shivam Safety, Health and Environmental Program.

Architect/consultant/project management-DSC.

This document sets out the duties and responsibilities of the personnel involved in this project.

This Health, Safety & Environmental Management Plan provides a focus on coordinated approach to the implementation of Health, Safety and Environment within the project premises during the construction phase. Protection of environment is necessary and shall form an integral part of line management control of the site construction works. Site Management shall have environmental responsibility in regard to handling of hazardous/non-hazardous materials, cleaning of debris like plastic products, food waste etc. etc. Waste of sanitary product as well as wastewater disposal shall be taken care off.

All control documents will be referred to for implementation.

The following are the details of the Safety, Health and Environmental Management Plan and will be updated as the project proceeds to ensure proper implementation, as far as is reasonably practicable to ensure:

- · Proper and timely information
- Supporting the principles of Health, Safety and Protection of the Environment to ensure that the overall safety objectives are maintained throughout the project.
- To ensure execution in a manner that minimizes the risk of injuries to personnel, damage to equipment and property and damage to the environment as far as reasonably practicable.
- That protection of the health and welfare of the workforce is safeguarded.
- That pro-active incident prevention measures are adopted including safety promotion, toolbox talks, development and implementation of risk assessments and Method statement.