

Semi-Annual Environmental Monitoring Report

Project number: 35290-023
February 2015

Period: July to December 2014

IND: North-Eastern Region Capital Cities Development Investment Program (Tranche 1) – Kohima, Nagaland

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Semi Annual Environmental Monitoring Report

Loan Number: 2528 IND
Reporting Period: July - December 2014

INDIA: North Eastern Region Capital Cities
Development Investment Program (Tranche 1)
Project City: Kohima, Nagaland State

Implementing Agency: State Investment Program Management and Implementation Unit
Executing Agency: Urban Development Department, Government of Nagaland

February 2015
Kohima

ABBREVIATIONS

ADB	- Asian Development Bank
BTA	- Bridging Technical Assistance
CC	- Construction Contractor
DOC	- Date of Completion
DOS	- Date of Start
DSMC	- Design, Supervision and Management Consultant
EA	- Executing Agency
EARP	- Environmental Assessment & Review Procedure
EHS	- Environment, Health and Safety
EIA	- Environmental Impact Assessment
EMR	- Environmental Monitoring Report
EO	- Environmental Officer
ES	- Environmental Specialist
Gol	- Government of India
IA	- Implementing Agency
IEE	- Initial Environmental Examination
IPCC	- Investment Program Coordination Cell
MFF	- Multi-tranche Financing Facility
MLD	- Million Liters per Day
mn	- Million
MoUD	- Ministry of Urban Development
NEA	- National Executing Agency
NERCCDIP	- North Eastern Region Capital Cities Development Investment Program
NSC	- National level steering committee
PD	- Project Director
PPTA	- Project Preparatory Technical Assistance
SEA	- State level Executing Agency
SIPMIU	- State Investment Program Management and Implementation Unit
SWM	- Solid Waste Management
UDD	- Urban Development Department

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I. INTRODUCTION

A. Background

1. North Eastern Region Capital Cities Development Investment Program (NERCCDIP) is being undertaken for improvement of existing infrastructure, environmental quality and access to basic urban services of Kohima Municipal Council area. The NERCCDIP's objective is to improve the urban environment and promote reforms for sustainable, efficient, and responsive urban service delivery. The Program components are Water supply and Solid Waste Management infrastructure.

2. With an overall objective of sustainable urban development, the NERCCDIP is being implemented in the five capital cities- Gangtok, Aizawl, Kohima, Gangtok and Shillong. NERCCDIP will be implemented over a six year period beginning in 2009, and is funded by a loan via the Multitranchise Financing Facility (MFF) of the Asian Development Bank (ADB).

3. In Kohima, capital city of Nagaland, the Executing Agency (EA) for the program is the Urban Development Department (UDD) of the Government of Nagaland (GoN); and the Implementing Agency (IA) is the State-level Investment Program Management and Implementation Unit (SIPMIU), created within the UDD, specifically for the Investment Program implementation. At central level an Investment Program Coordination Cell (IPCC) is established in MOUD. IPCC is responsible for overall management of the Investment Program and is supported by Program Management & Monitoring Consultants (PMMC).

4. One water supply subproject and one solid waste management subproject are currently under implementation at Kohima under Tranche-1 (Loan No. 2528 IND). They have been classified as Category B as per the ADB Environmental Policy, and accordingly an Initial Environmental Examination (IEE) report was prepared during PPTA / BTA and was approved by the ADB.

5. Changes in location of some water tanks have been proposed in the water supply sub project being implemented and IEE including Environmental Monitoring Plan have been updated to address the changes in the location of tanks. The updated IEE was approved by ADB in December, 2013. Solid waste management sub project is being implemented as a design, build, operate and transfer project. Some additional works were proposed as part of this sub project. Therefore, IEE including EMP was updated and it was approved by ADB in December 2013. However, these additional works were not approved by MoUD in Tranche 1 and they have been proposed as a new subproject in tranche 2, for which a separate IEE has been prepared. Hence, the updated IEE is not applicable now. The sub projects in Tranche 1 were screened using ADB checklist for any change in scope and it was found that re-categorization of the sub projects is not required.

6. An Environmental Monitoring Plan which addresses the potential impacts and risks identified by the environmental assessment has been included in the IEE reports. The level of complexity of the EMP and the priority of the identified measures and actions commensurate with the Project's impact and risks. The EMP is part of bidding and contract documents. The EMPs were updated as part of the IEEs updated for the changes in the sub projects. The updated EMPs were issued to the Contractors and the updated IEEs were disclosed in the SIPMIU website. However, the updated IEE for the solid waste management subproject is not applicable now since the proposed changes in the subproject were not approved by MoUD.

B. Project Profile

7. At present, Subprojects under Tranche-1 (Loan No. 2528 IND) are under implementation in Kohima and focus on water supply improvements and solid waste disposal facilities. The water supply subproject (package no. KHM-WA 1) covers construction of 18 ground level RCC tanks (service reservoirs) and refurbishment of an existing water treatment plant.

8. The solid waste management subproject (package no. KHM-SWM 1) covers design, build, operation and transfer of a sanitary land fill, compost plant and internal access roads.

9. Details of the project activities under Tranche-1 (Loan No. 2528 IND) as of December 2014 are presented in the following Table.

Table 1. Sub Project Details under Tranche-1 (Loan No. 2528 IND)

S. No.	Name of Work	Location	Description	Changes if any from approved scope
1	Refurbishment of Kohima water supply scheme (KHM-WA 1)	Spread over Kohima Municipal Council	construction of 18 ground level RCC tanks (service reservoirs) and rehabilitation of the Water Treatment Plant	Locations of 8 ground level service reservoirs were changed and hence the IEE report was updated and it was approved by ADB in December 2013.
2	Civil works and procurement of equipment for development of sanitary land fill, compost plant and internal access (KHM-SWM 1)	At Landfill site, Lerie	Design, build, operate and transfer of sanitary landfill, compost plant, leachate treatment plant and associated infrastructure	Additional infrastructure such as trommel, shredding, pressing and packing unit, canteen, barracks, toilets, retaining walls, culverts, and step drain were proposed and hence the IEE report was updated and it was approved by ADB in December 2013. However, these additional works were not approved by MoUD under Tranche 1. Hence, these additional infrastructure have been proposed as a new subproject under Tranche 2, for which a separate IEE report has been prepared. Hence, the updated IEE is not applicable now.

10. Civil works of water supply sub project under Tranche-1 commenced during December 2011 and the estimated duration of works is 18 months. This sub project was originally for the construction of 18 ground level rectangular RCC tanks. During implementation, there was difficulty in starting works at 8 tank sites due to severe space constraint & accessibility (at 7 sites) or non-availability of land (at one site). Hence, it was decided to re-locate these 8 tanks to 4 new sites to resolve the problem. Repair and renovation of existing RCC tank/clarifier at Assam Rifles compound has also been included as an additional work in the sub project. In addition to the construction of tanks at the newly identified sites, small distribution tanks will be constructed at the original locations having constraints for construction. Hence, the IEE report was updated and it was approved by ADB

in December 2013. Physical progress of this sub project as of December 2014 is 92.37%. Construction of 17 tanks has been completed. Construction of the tank at Assam Rifles HQ has been removed from the scope of the Contractor due to non-availability of land and it has been shifted to tranche 2. All the completed tanks except the tanks at Forest Colony and Veterinary have been commissioned. However, site clearance is pending. The remaining works under this sub project are mechanical works at the WTP, which have been removed from the scope of the Contractor. This will be awarded to another Contractor by shopping.

11. Civil works of the solid waste management sub project under Tranche-1 commenced during January 2012 and the estimated duration of works is 24 months. Additional infrastructure were proposed at the landfill site such as, (i) A 70 mm Trommel unit for pre-sorting of Municipal Solid Waste along with ancillaries for shredding, pressing and packing (ii) Provision of basic amenities such as canteen, barracks and separate toilet block for males & females, (iv) Retaining walls at 5 locations to control landslide and to develop a Y junction on the access road to landfill site and (v) One step-drain and two culverts for the control of storm water over flow from the approach road drain to the farm lands below. Hence, the IEE report was updated and it was approved by ADB in December 2013. However, these additional works were not approved by MoUD under Tranche 1. They have been proposed as a new subproject under Tranche 2, for which a separate IEE Report has been prepared. Hence, the updated IEE is not applicable now. Construction of landfill site and compost plant is under progress. Physical progress of this sub project as of December 2014 is 70%. All works are targeted to be completed by April, 2015.

12. The Semi Annual Environmental Monitoring Report presents the status of sub project implementation, details of compliance with environmental regulations of the Government and policies of ADB, details of compliance with environmental loan covenants, details of complaints received and their redressal and the status of compliance with various aspects of EMP as stated in the IEE reports.

13. Monitoring of compliance with EMP is a continuous activity carried out by the DSMC and SIPMIU. Guidelines on general construction EHS measures to be followed / implemented have been issued to the Contractor. A reporting format to be filled up by the Contractor on a daily basis on compliance with EMP has been issued and they are being compiled on a monthly basis. Daily EMP Implementation Monitoring Reports from July to December 2014 have been attached to this report as **Appendix 6**. This is the consolidated report on implementation of Environmental Management Plan (EMP) from July to December 2014, and is prepared in compliance with the ADB Policies.

II. ENVIRONMENTAL ASSESSMENT AND REVIEW PROCEDURE

A. Environmental Legal Requirements

14. The following Regulations are currently in force in India that deals with environmental issues that could apply to infrastructure development. Acts and Rules related to monuments and archeological sites are also listed herein.

- (i) The Water (Prevention and Control of Pollution) Act, 1974, amended 1988
 - The Water (Prevention and Control of Pollution) Rules, 1975
- (ii) The Air (Prevention and Control of Pollution) Act 1981, amended 1987
 - The Air (Prevention and Control of Pollution) Rules, 1982
- (iii) The Environment (Protection) Act, 1986, amended in 1991 and including the following Rules/Notification issued under this Act
 - The Environment (Protection) Rules, 1986, including amendments

- The Municipal Solid Wastes (Management and Handling) Rules, 2000
 - The Hazardous Wastes (Management and Handling) Rules, 1989
 - The Bio-Medical Waste (Management and Handling) Rules, 1998
 - Noise Pollution (Regulation and Control) Rules, 2000,
 - Environmental Impact Assessment Notification, 2006
 - Environmental Standards of Central Pollution Control Board (CPCB)
- (iv) The Indian Wildlife (Protection) Act, 1972, amended 1993
- The Wildlife (Protection) Rules, 1995
- (v) The Indian Forest Act, 1927
- (vi) Forest (Conservation) Act, 1980, amended 1988
- Forest (Conservation) Rules, 1981 amended 1992 and 2003
 - Guidelines for Diversion of Forest Lands for Non-Forest Purpose under the Forest (Conservation) Act, 1980
- (vii) Ancient Monuments and Archaeological Sites and Remains Act 1958
- Ancient Monuments and Archaeological Sites and Remains Rules 1959
 - Government of India Notification of 1992 under the above-stated Rules

B. Compliance with Environmental Regulations

15. The GoI EIA Notification of 2006 sets out the requirement for Environmental Assessment in India. The Tranche-1 water supply improvement subproject does not fall under the ambit of the EIA Notification, and therefore does not require environmental clearances. However, the Tranche-1 water supply subproject requires consent to establish and operate under the Water Act and Air Act from the State Pollution Control Board.

16. The Tranche-1 Solid Waste Management subproject requires environmental clearance under the EIA Notification from Nagaland State EIA Authority. The Tranche-1 Solid Waste Management subproject further requires authorization under the Hazardous Wastes (Management and Handling) Rules, 1989 and Municipal Solid Waste (Management and Handling) Rules 2000 and consents to establish and operate under the Air and Water Acts from the State Pollution Control Board.

17. No other environmental or forest clearances are required for the subprojects in Kohima.

18. The following Table shows the regulatory requirements of subproject/components under Tranche-1 and the present status of compliance. Copy of Consent to Establish for water supply sub project is presented as **Appendix 1**. Copy of Environmental Clearance for Solid Waste Management subproject is presented as **Appendix 2**. Copy of Consent to Establish and Authorization for Solid Waste Management subproject is presented as **Appendix 3**.

Table 2: Present Status of Environment & Forest and Other Clearances

Town	Work (Package No.)	Applicable Legislation / Type of Clearance	Clearances given by and Date	Conditions	Remarks / Action needed
Kohima	Refurbishment of Kohima water supply scheme	Consent to establish under Water Act	Consent to establish has been issued by	1. The consent is valid for establishing a WTP, Jotsoma,	1. No action needed

Town	Work (Package No.)	Applicable Legislation / Type of Clearance	Clearances given by and Date	Conditions	Remarks / Action needed
	(KHM-WA 1)		Nagaland Pollution Control Board vide consent no. 203 dated 07.07.2009.	Kohima 2. The applicant shall ensure environmentally sound management practices 3. The applicant shall submit the analysis report of the treated water sample while applying for consent to operate 4. The applicant shall apply for consent to operate before operation of the plant. 5. The consent is liable to be cancelled if terms and conditions are not implemented	2. EMP is being implemented 3. Will be submitted on completion of works 4. Will be applied on completion of works 5. No violation of terms and conditions
	Civil works and procurement of equipment for development of sanitary land fill, compost plant and internal access (KHM-SWM 1)	Environmental clearance under the EIA Notification 2006	Application for Environmental Clearance (EC) was submitted to Nagaland State EIA Authority. Since clearance was not issued by the EIA Authority within the time period specified in the EIA Notification, Government of Nagaland has granted deemed approval of the EC vide letter no. UDD/19-ADB/02/2009 dated 28.10.2011 as per the provisions of the EIA Notification 2006.	No conditions	No action needed
		Consent to establish under Air and Water Acts and authorization to	Consent to establish and Authorization to set up landfill and compost plant	1. The consent is valid for establishing a SWM Facility at Lerie, Kohima 2. The applicant shall	1. No action needed 2. EMP is

Town	Work (Package No.)	Applicable Legislation / Type of Clearance	Clearances given by and Date	Conditions	Remarks / Action needed
		setup landfill and compost plant under the MSW (Management and Handling) Rules 2000 and Hazardous Wastes (Management and Handling) Rules 1989	has been issued by Nagaland Pollution Control Board vide consent no. 202 dated 07.07.2009.	ensure environmentally sound management practices 3. The applicant shall ensure that SWM facility will be taken up as per the DPR and MSW Rules. 4. The applicant shall apply for consent to operate before operation of the facility. 5. The consent is liable to be cancelled if terms and conditions are not implemented	being implemented 3. Complying with MSW rules. Any changes in design will be intimated to PCB 4. Will be applied on completion of works 5. No violation of terms and conditions

C. Compliance of Environmental Loan Covenants

19. Table 3 shows the environmental safeguard related loan covenants and their compliance status in implementation. All the covenants are being complied in implementation.

20. Tranche-1 water supply and solid waste management subprojects have been classified as Category B as per the ADB Environmental Policy. Accordingly IEE reports were prepared during PPTA / BTA and were approved by the ADB. During the implementation of water supply sub project, there was a change in the location of eight ground level service reservoirs. Hence, an updated IEE report was prepared and it was approved by ADB in December 2013. Similarly, for the solid waste management subproject, some additional infrastructure were proposed and hence, an updated IEE report was prepared and it was approved by ADB in December 2013. However, these additional infrastructure were not approved by MoUD in Tranche 1 and hence the updated IEE is not applicable now.

Table 3: Compliance Status of Environmental Loan Covenants

Project Specific Covenants	Status / Issues
GOI and the States will ensure that the design, construction, operation and implementation of all sub-project facilities is carried out in accordance with the environmental assessment and review procedures and Initial Environmental Examinations (IEEs) for core sub-components agreed upon between the Government and ADB, and complies with the Government's environmental laws and regulations and ADB's Environment Policy (2002).	IEE approved by ADB, disclosed in public, and included in bid document and contract.
Any adverse environmental impacts arising from the construction, operation and implementation of sub-component facilities will be minimized by implementing the environmental mitigation and management measures, and other recommendations specified in environmental assessment reports (e.g., IEEs). The Government will ensure environmental requirements will be incorporated in bidding documents and civil works	Clearances obtained as per applicable regulations. Semi-annual

Project Specific Covenants	Status / Issues
contracts. Issuance of bid documents will be made after review and clearance of IEE/EIA by ADB and SEIAA or MOEF. GOI will prepare and submit annually to ADB an environmental monitoring report that describes progress in implementation of the EMP and EARP and issues encountered and measures adopted; and compliance with the relevant assurances and loan covenants	environmental monitoring report is being submitted to ADB

ADB – Asian Development Bank; EARP – Environmental Assessment & Review Procedures; EIA – Environmental Impact Assessment; IEE – Initial Environmental Examination; MOEF – Ministry of Environment and Forest; SEIAA – State Environmental Impact Assessment Authority.

D. Environmental Organization and Management

21. The main agencies involved in managing and implementing the subproject are:

- (i) **Ministry of Urban Development (MOUD)** - The national-level Executing Agency (NEA) for the Investment Program;
- (ii) **Investment Program Coordination Cell (IPCC)** -It is established in MOUD. IPCC is responsible for overall management of the Investment Program in the 5 cities. It comprise of social/environmental safeguard specialists whose tasks include monitoring Program implementation and reviewing and screening the subprojects submitted by the States in accordance with subproject selection criteria, in accordance with the environmental provisions;
- (iii) **State Investment Program Management and Implementation Unit (SIPMIU)**- It is established under the State Government and headed by a Program Director (PD). SIPMIU will oversee the implementation of the sub projects as per the Program's environment and resettlement planning. This includes the preparation of all documentation needed for decision-making, contracting, and supervision of work, providing progress-monitoring information as well as the compliance of all environmental safeguards.

The SIPMIU comprises of a Safeguards and Social Cell staffed with an Environmental Officer (EO). The EO is responsible for implementing the environmental safeguard provisions in the project including (i) ensuring environmental criteria for subproject selection in the EARP, (ii) ensuring mitigation requirements in the Bid documents and (iii) liaising with various Central and State government agencies on compliance matters. The SIPMIU will appoint and manage Construction Contractors (CC) to build elements of the infrastructure who are required to submit Environmental Implementation Plans (EIPs) to SIPMIU approval.

- (iv) **Design, Supervision and Management Consultant (DSMC)** - The SIPMIU is assisted by the DSMC, who is responsible for the design of the infrastructure, manage tendering of contracts, and supervise the construction process;

An Environmental Specialist (ES) in the DSMC is responsible for addressing the environmental issues in the project components during design and implementation. The ES will ensure that all mitigation requirements are in the bidding documents and EIPs, and will supervise the effective implementation of environmental provisions during construction. In addition, the ES will assist the SIPMIU on the procurement needs and other project implementation aspects and shall play a central role in ensuring capacity building on environmental management of the SIPMIU, the Contractor and the Line Departments through capacity development support and training.

22. No grievances were received during the reporting period. A grievance redressal mechanism has been established. Grievances of affected persons will first be brought to the attention of the SIPMIU. Grievances not redressed by the SIPMIU will be brought to the Independent Grievance Redress Committee (IGRC) set up to monitor project implementation in Kohima. The GRC will determine the merit of each grievance, and resolve grievances within 10 days of receiving the complaint. Grievance not redressed by the IGRC will be referred to the appropriate courts of law. The DSMC will keep records of all grievances received including: contact details of complainant, date that the complaint was received, nature of grievance, agreed corrective actions and the date these were affected, and the final outcome. The IGRC was constituted vide SIPMIU notification dated 18.01.2013. Details of grievance redressal mechanism and the IGRC notification for the sub projects are presented as **Appendix 4**.

III. EMP COMPLIANCE STATUS

23. This section presents the compliance status of Environmental Management and Monitoring Plans of tranche-1 subproject under implementation.

24. Under this subproject, at present the Refurbishment of Kohima water supply scheme and the civil works and procurement of equipment for development of sanitary land fill, compost plant and internal access are in progress. Photographs of ongoing construction works and environmental management measures are presented as **Appendix 5**. The Contractors have not prepared any Environmental Implementation Plan. They are following the Environmental Monitoring Plan (EMP), which is part of the IEE and Contract document. In addition to that, guidelines on general construction EHS measures to be followed / implemented by the Contractors have been issued to them. The EMPs were updated as part of the IEEs updated for the changes in the sub projects and the updated EMPs were issued to the Contractors. A reporting format to be filled up by the Contractor on a daily basis on compliance with EMP has been issued and they are being compiled on a monthly basis. Daily EMP Implementation Monitoring Reports from July to December 2014 have been attached to this report as **Appendix 6**.

25. Air quality, water quality and noise level monitoring was not conducted by the Contractors during the reporting period. It was conducted by the SWM subproject Contractor during September 2013 and the results were presented in the Semi Annual Environmental Monitoring Report for the period July to December 2013. Air quality and noise level observed at the sub project site were within the standards. Water samples were collected from rivers near the landfill site and analyzed for microbiological parameters. The water quality test results showed that there is no pollution of the rivers due to construction activities at the landfill site. Physicochemical parameters of water from rivers near the landfill site were tested during April 2013 and the results were presented in the Semi Annual Environmental Monitoring Report for the period January to June 2013.

Table 4: Compliance of EMP and OH&S Norms

Sl. No.	Mitigation Activities and Method	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status
A	Tranche-1 - Refurbishment of Kohima water supply scheme					
a)	Replacement of Existing Zonal Reservoir Tanks					
1.	Stockpiles of materials and wastes should be located at secure / designated locations away from inhabited areas	Each Zonal Reservoir Tank	Contractor	Visual Observation	DSMC	Materials and wastes are located at secure / designated locations
2.	Dust suppression measures should be taken at construction sites	Each Zonal Reservoir Tank	Contractor	Visual Observation	DSMC	Water sprinkling is being done
3.	Recyclable scrap material resulting from the disassembling of old reservoir tanks, tube wells, and iron removal plants should be made available to the public	Each Zonal Reservoir Tank	Contractor	Visual Observation	DSMC	The dismantled materials belong to PHED and hence cannot be given to public. However, materials like empty cement bags, wood, broken bricks, stones, garden soil etc are handed over to Public, if they request
4.	All other wastes should be appropriately handled and taken to the municipal waste dumpsite for disposal	Each Zonal Reservoir Tank	Contractor	Visual Observation	DSMC	Wastes are taken to the municipal waste dumpsite for disposal
b)	Repair of Treatment Plant and Setting up of Chlorinators					
1.	Construction activities should be properly scheduled avoiding night work	Water Treatment Plant	Contractor	Visual Observation	DSMC	No work is conducted during night-time
2.	Sound construction practices should be adhered to so that entry of any construction waste into nearby water courses is prevented	Water Treatment Plant	Contractor	Visual Observation	DSMC	Construction wastes are cleared regularly

Sl. No.	Mitigation Activities and Method	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status
3.	Silt fencing should be provided to protect nearby water streams	Water Treatment Plant	Contractor	Visual Observation	DSMC	Soil runoff from sites is prevented by providing trenches / bunds
4.	Material / waste storage and disposal areas should be restricted to the premises of government land	Water Treatment Plant	Contractor	Visual Observation	DSMC	Material / waste storage & disposal is in government land only
B.	Tranche-1 - Civil works and procurement of equipment for development of sanitary land fill, compost plant & internal access					
1	All the vehicles used for construction should comply with relevant environmental standard	Landfill site at Lerie Colony	Contractor	Visual Observation	DSMC	Vehicles are keeping pollution under control certificate and fitness certificate
2	It should be ensured that the workers are provided with PPEs like earplugs, dust masks etc. to minimize the health impacts	Landfill site at Lerie Colony	Contractor	Visual Observation	DSMC	workers are provided with PPEs
3	It should be ensured that construction at night time is restricted to the extent possible	Landfill site at Lerie Colony	Contractor	Visual Observation	DSMC	No work is conducted during night-time
4	Regular water sprinkling should be undertaken to ensure the dust suppression	Landfill site at Lerie Colony	Contractor	Visual Observation	DSMC	Water sprinkling is being done
5	Two trees should be planted for every one removed	Landfill site at Lerie Colony	Contractor	Visual Observation	DSMC	Trees have already been planted along the approach road and in the vacant land around the landfill site
6	Excavated earth should be conserved for re-use	Landfill site at Lerie Colony	Contractor	Visual Observation	DSMC	Excavated earth is used for levelling landfill
7	Water supply and sanitation facilities should be provided in labour camps	Landfill site at Lerie Colony	Contractor	Visual Observation	DSMC	Labour camps are provided with Water supply and sanitation facilities
8	50% of the work force should be employed from local community near work site	Landfill site at Lerie Colony	Contractor	Visual Observation	DSMC	Local workforce is being used to the extent

Sl. No.	Mitigation Activities and Method	Location	Responsible for Mitigation	Monitoring Method	Responsible for Monitoring	Compliance Status
						available
9	Contractor should prepare a construction site management plan	Landfill site at Lerie Colony	Contractor	Visual Observation	DSMC	Guidelines on general EHS measures have been issued to the Contractor. These include measures to exclude public from all construction sites. Compliance being strictly monitored by the DSMC
10	This plan should have measures to exclude public from all construction sites	Landfill site at Lerie Colony	Contractor	Visual Observation	DSMC	
11	Health and safety training should be imparted to all personnel	Landfill site at Lerie Colony	Contractor	Visual Observation	DSMC	Health and safety training was given to the Contractor's Supervisors by the ES of DSMC. The Contractor has imparted health and safety training to all their personnel.
12	Restoration of borrow areas should be undertaken after borrowing	Landfill site at Lerie Colony	Contractor	Visual Observation	DSMC	No borrow areas have been opened
13	All accident reports and records should be maintained periodically and appropriately	Landfill site at Lerie Colony	Contractor	Visual Observation	DSMC	The Contractor is maintaining an accident report register. No accidents have been reported during the reporting period.



IV. OBSERVATIONS, RECOMMENDATIONS AND ACTIONS TAKEN

26. As presented in this report, tranche-1 of this Investment Program is being implemented in compliance with the loan covenants, subproject selection criteria and overall EARF. There are some non-compliant EMP activities noticed in the monitoring report regarding the solid waste management sub project. The Contractor has not prepared a construction site management plan. To compensate this, guidelines on general EHS measures to be followed at construction sites have been issued to the Contractor. These include measures to exclude public from all construction sites. Compliance to these measures is being strictly monitored by the DSMC. Health and safety training was given to the Contractor's Supervisors by the ES of DSMC. The Contractor has imparted health and safety training to all their personnel. The Contractor has not provided caution boards and information boards at the work site. The Contractor is maintaining an Accident Report Register. Instruction has been given to the Contractor to maintain caution boards and information boards. No accidents were reported during July – December 2014. Ambient air quality, noise level and water quality monitoring was not conducted by the Contractor during the reporting period.

27. Necessary instructions have been given to the Contractor by DSMC/SIPMIU to specifically focus on safety aspects, and in general on EMP measures to improve the compliance.

APPENDICES

Appendix 1: Consent to Establish for Water Supply Sub Project

NAGALAND POLLUTION CONTROL BOARD SIGNAL POINT : DIMAPUR: NAGALAND	
<u>Consent Order / Authorization</u>	
Consent No. 203	Dated 07.07.2009
<p>Consent to Establish under Section 25/ 26 of the Water (Prevention & Control of Pollution) Act, 1974, as amended and under Section 21 of the Air (Prevention & Control of Pollution) Act. 1981, as amended to be referred as Water Act and Air Act respectively.</p> <p>Consent is granted to State Investment Program Management and Implementation Unit, Asian Development Bank, (ADB) Assisted Project Kohima, Nagaland, located in the area declared under the provisions of the Water Act & Air Act and subject to the provisions of the Act and the Rules and the Orders that may be made further and subject to the following terms and conditions:-</p> <ol style="list-style-type: none">1. The Consent is valid for: Establishing a Water Treatment Plant, Jotsoma, Kohima, Nagaland.2. The applicant shall also ensure environmentally sound management practices by taking necessary steps to protect health and environment against adverse effects which may result from the plant.3. The applicant shall submit the analysis report of the treated water sample from a recognized laboratory while applying for consent to operate.4. The applicant shall apply for Consent to operate for the Unit before the operation of the Plant.5. The Consent/Authorization is liable to be cancelled /revoked if the terms and conditions specified are not observed/ implemented. <div><div><p>Member Secretary</p><p>Member Secretary Nagaland Pollution Control Board Nagaland : Dimapur</p></div></div>	

Appendix 2: Environmental Clearance for SWM Sub Project

GOVERNMENT OF NAGALAND URBAN DEVELOPMENT DEPARTMENT

NOTIFICATION

Dated Kohima, the 28th Oct.' 2011.

NO.UDD/19-ADB/02/2009 :: As provided in clause 8(iii) of the Environmental Clearance Notification, dated 14th September, 2006 of the Ministry of Environment and Forests, Government of India, the Governor of Nagaland is pleased to grant deemed approval of the Environmental Clearance for Solid Waste Management Project at Kohima under the ADB assisted NERCCDIP by the State Environmental Impact Assessment Authority (SEIAA) in terms with the recommendations of the State Expert Appraisal Committee (SEAC).


Sd/- NEIHU C. THUR, IAS
Secretary to the Govt. of Nagaland.

NO.UDD/19-ADB/02/2009

Dated Kohima, the 28th Oct.' 2011.


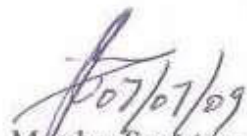
Copy to:-

1. The Secretary to Governor of Nagaland, Raj Bhavan, Nagaland, Kohima.
2. The Addl. Chief Secretary to Chief Minister, Nagaland, Kohima.
3. The Sr. P.S to Minister, Urban Development, Nagaland, Kohima.
4. The OSD to Chief Secretary, Nagaland, Kohima.
5. The Secretary, Government of India, Ministry of Urban Development, Nirman Bhawan, New Delhi - 110011. Fax: 011-23061459.
6. The Secretary, Government of India, Ministry of Environment & Forests, 104, New Moti Bagh, New Delhi - 110023. Fax: 011-24362746.
7. The Director, ADB, Urban Development and Water Division, South Asia Department, 6-ADB Avenue, Mandaluyong City, 1550 Metro Manila, Phillippines. Fax: 0632-636-2444.
8. The Commissioner & Secretary, Forest Department, Nagaland, Kohima.
9. The Chairman, State Environmental Impact Assessment Authority (SEIAA), Nagaland, Kohima.
10. The Principal Chief Conservator of Forest, Nagaland, Kohima.
11. *The Publisher, Nagaland Gazette, Kohima for kind publication in the next issue of the State Gazette.*
12. The Director, Urban Development, Nagaland, Kohima.
13. ~~The~~ Program Director, SIPMIU-ADB assisted project, Kohima.
14. Guard file/office copy.

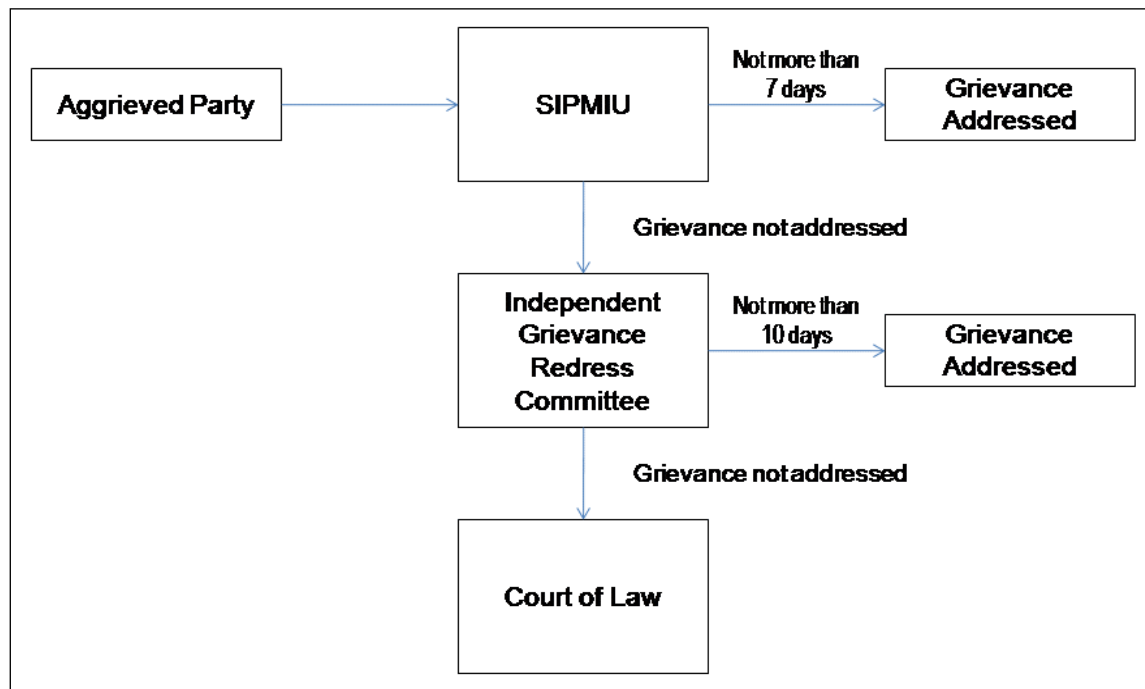

(Ahola Those)

Joint Secretary to the Govt. of Nagaland.

Appendix 3: Consent to Establish and Authorization for SWM Sub Project

NAGALAND POLLUTION CONTROL BOARD SIGNAL POINT : DIMAPUR: NAGALAND	
<u>Consent Order / Authorization</u>	
Consent No. 202	Dated 07.07.2009
<p>Consent to Establish under Section 25/ 26 of the Water (Prevention & Control of Pollution) Act, 1974, as amended and under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981, as amended and Authorization/ Renewal of Authorization under Rule 5 of the Hazardous Wastes (Management & Handling) Rules, 1989 , as amended (to be referred as Water Act, Air Act and HW (M&H) Rules, respectively).</p> <p>Consent is granted to State Investment Program Management and Implementation Unit, Asian Development Bank, (ADB) Assisted Project, Kohima, Nagaland, located in the area declared under the provisions of the Water Act/ Air Act and authorization under the provisions of HW (M&H) Rules subject to the provisions of the Act and the Rules and the Orders that may be made further and subject to the following terms and conditions:-</p> <ol style="list-style-type: none">1. The Consent is valid for: Establishing a Solid Waste Management Facility at Lerie, Kohima, Nagaland.2. The applicant shall also ensure environmentally sound management practices by taking necessary steps to protect health and environment against adverse effects which may result from the plant.3. The applicant shall ensure that the Solid Waste Management Facility be taken up as per the DPR and shall comply with the standards and terms & conditions as laid down in the Municipal Solid Waste (Management & Handling) Rules, 2000.4. The applicant shall apply for Consent to operate for the Unit before the operation of the facility.5. The Consent is liable to be cancelled /revoked if the terms and conditions specified are not observed/ implemented. <div><div><p>Member Secretary Member Secretary Nagaland Pollution Control Board</p></div></div>	

Appendix 4: Grievance Redressal Mechanism



**STATE INVESTMENT PROGRAMME MANAGEMENT AND IMPLEMENTATION UNIT
ASIAN DEVELOPMENT BANK (ADB) – ASSISTED PROJECT
KOHIMA : NAGALAND**

NOTIFICATION

Dated Kohima, the 18th January 2013

NO.SIPMIU/SCL/CP/2011:: In pursuance to Asian Development Bank (ADB) guidelines; the Independent Grievance Redress Committee (IGRC) is hereby constituted to address the grievances of persons affected due to the sub-projects implemented in Kohima under the ADB assisted North Eastern Region Capital Cities Development Investment Program.

- | | | |
|--|---|------------------|
| i. Program Director, SIPMIU | : | Chairman |
| ii. Addl. Program Director, SIPMIU | : | Member Secretary |
| iii. Dy. Program Director/ Environment Officer, SIPMIU | : | Member |
| iv. Sociologist, SIPMIU | : | Member |
| v. Assistant Engineer, SIPMIU | : | Member |
| vi. Team Leader, DSMC | : | Member |
-
2. The IGRC shall determine the merit of each grievance and resolve the grievance/s within 10 (ten) days of receiving the compliant.
 3. Grievances not redressed by the IGRC will be referred to the appropriate court of law.
 4. All costs involved in resolving the grievances shall be borne by SIPMIU.
 5. The Design Supervision & Management Consultants shall keep records of all grievances received including contact details of complainant, date the complaint was received, nature of grievance, agreed corrective actions and the date of redressing the grievance and the final outcome.

Sd/-
K. HARALU
Program Director

NO.SIPMIU/SCL/CP/2011

Dated Kohima, the 18th January 2013

Copy to:

- i) The Commissioner & Secretary, Urban Development Department, Nagaland, Kohima for information.
- ii) The Director, Urban Development, Nagaland, Kohima for information.
- iii) The Chief Engineer, PHE, Nagaland, Kohima for information.
- iv) The CEO, Kohima Municipal Council, Kohima, Nagaland for information.
- v) All the members
- vi) Office copy

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(NELL VASA)
Dy. Program Director

Appendix 5: Site Photographs

a) Refurbishment of Kohima Water Supply Scheme



	
Refurbishment of WTP in Progress	Civil Works of WTP Completed
	
Tank under Construction at Forest Colony	Tank Completed at Zoo Gate
	
Tank Completed at Botanical Garden	Tank Completed at Assam Rifles

b) Civil Works & Procurement of Equipment of Sanitary Land Fill, Compost Plant and Approach Road at Lerie

 <p>A photograph showing several construction workers wearing yellow hard hats and orange safety vests. They are standing near a concrete mixer truck and some bags of cement under a large metal structure. A date stamp '21/07/2014' is visible in the bottom right corner of the image.</p>	 <p>A photograph showing large rolls of black synthetic liner material covered with a blue tarp. The rolls are stacked on a dirt area next to a green hillside. A date stamp '21/07/2014' is visible in the bottom right corner of the image.</p>
<p>Workers Wearing PPEs</p>	<p>Synthetic Liners Stored at Landfill Site</p>
 <p>A photograph showing the steel framework of a compost plant under construction on a hillside. The structure consists of multiple rectangular frames. A date stamp '09/12/2014' is visible in the bottom right corner of the image.</p>	 <p>A photograph showing the steel framework of a large garage or shed under construction. The structure has a high, open roof. A date stamp '27/11/2014' is visible in the bottom right corner of the image.</p>
<p>Compost Plant Construction under Progress</p>	<p>Garage Construction under Progress</p>
 <p>A photograph showing a row of young green saplings planted in a trench along a stone retaining wall. The background shows a hillside with more vegetation.</p>	 <p>A photograph showing a field of young saplings planted in rows. The ground is dry and the saplings are small and green.</p>
<p>Saplings for Plantation around SWM Site</p>	<p>Saplings Planted around SWM Site</p>

Appendix 6: Daily EMP Implementation Monitoring Reports (July to December 2014)

a) Refurbishment of Kohima Water Supply Scheme

Northeastern Region Capital Cities Development Investment Programme																																
State Investment Program Management and Implementation Unit, Government of Nagaland																																
Daily EMP Implementation Monitoring Report for Water Supply (Tranche 1)																																
Contract Package No.:		KHM-WS-1		Name of the Contractor:		Abhiram Infra Projects Pvt. Ltd.		DSMC:		CDM Smith Inc																						
Date of Start of Construction:		19.12.2011		Reporting Month and Year:		JULY 2014																										
Sl. No.	Mitigation Measures as per EMP	Compliance Status																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
1.	Whether stockpiles of materials and wastes are located at designated locations away from inhabited areas ?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2.	Whether dust suppression measures are taken at construction sites?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3.	Whether recyclable scrap material from the disassembling of tanks etc are made available to the public ?																															
4.	Whether all other wastes are appropriately handled and taken to the municipal dumpsite for disposal ?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5.	Whether the construction of the zonal reservoirs and the chlorinator rooms are carried out simultaneously in order to minimize impact on vegetation ?																															
6.	Whether construction activities are scheduled avoiding night work ?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
7.	Whether sound construction practices are adhered to so that entry of any construction waste into nearby water courses is prevented?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
8.	Whether silt fencing are provided to protect nearby water streams?																															
9.	Whether material / waste storage and disposal areas are restricted to the premises of government land ?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Signature of Engineer of Contractor																															
	Signature of Engineer of DSMC																															

Note: ✓ for Complied, X for not Complied, Blank for Not Applicable

Northeastern Region Capital Cities Development Investment Programme																																
State Investment Program Management and Implementation Unit, Government of Nagaland																																
Daily EMP Implementation Monitoring Report for Water Supply (Tranche 1)																																
Contract Package No.:		KHM-WS-1					Name of the Contractor:					Abhiram Infra Projects Pvt. Ltd.										DSMC:					CDM Smith Inc.					
Date of Start of Construction:		19.12.2011										Reporting Month and Year:					August 2014															
Sl. No.	Mitigation Measures as per EMP	Compliance Status																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
1.	Whether stockpiles of materials and wastes are located at designated locations away from inhabited areas ?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2.	Whether dust suppression measures are taken at construction sites?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3.	Whether recyclable scrap material from the disassembling of tanks etc are made available to the public ?																															
4.	Whether all other wastes are appropriately handled and taken to the municipal dumpsite for disposal ?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5.	Whether the construction of the zonal reservoirs and the chlorinator rooms are carried out simultaneously in order to minimize impact on vegetation ?																															
6.	Whether construction activities are scheduled avoiding night work ?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
7.	Whether sound construction practices are adhered to so that entry of any construction waste into nearby water courses is prevented?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
8.	Whether silt fencing are provided to protect nearby water streams?																															
9.	Whether material / waste storage and disposal areas are restricted to the premises of government land ?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Signature of Engineer of Contractor	[Handwritten Signature]																														
	Signature of Engineer of DSMC	[Handwritten Signature]																														

Note: ✓ for Complied, X for not Complied, Blank for Not Applicable

Northeastern Region Capital Cities Development Investment Programme
State Investment Program Management and Implementation Unit, Government of Nagaland

Daily EMP Implementation Monitoring Report for Water Supply (Tranche 1)

Contract Package No.:		KHM-WS-1	Name of the Contractor:		Abhiram Infra Projects Pvt. Ltd.										DSMC:		CDM Smith Inc															
Date of Start of Construction:		19.12.2011										Reporting Month and Year:		September 2014																		
Sl. No.	Mitigation Measures as per EMP	Compliance Status																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
1.	Whether stockpiles of materials and wastes are located at designated locations away from inhabited areas?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2.	Whether dust suppression measures are taken at construction sites?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3.	Whether recyclable scrap material from the disassembling of tanks etc are made available to the public?																															
4.	Whether all other wastes are appropriately handled and taken to the municipal dumpsite for disposal?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5.	Whether the construction of the zonal reservoirs and the chlorinator rooms are carried out simultaneously in order to minimize impact on vegetation?																															
6.	Whether construction activities are scheduled avoiding night work?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
7.	Whether sound construction practices are adhered to so that entry of any construction waste into nearby water courses is prevented?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
8.	Whether silt fencing are provided to protect nearby water streams?																															
9.	Whether material / waste storage and disposal areas are restricted to the premises of government land?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Signature of Engineer of Contractor	[Handwritten signatures across 30 columns]																														
	Signature of Engineer of DSMC	[Handwritten signatures across 30 columns]																														

Note: ✓ for Complied, X for not Complied, Blank for Not Applicable

Northeastern Region Capital Cities Development Investment Programme
State Investment Program Management and Implementation Unit, Government of Nagaland

Daily EMP Implementation Monitoring Report for Water Supply (Tranche 1)

Contract Package No.:		KHM-WS-1	Name of the Contractor:		Abhiram Infra Projects Pvt. Ltd.		DSMC:	CDM Smith Inc																								
Date of Start of Construction:		19.12.2011		Reporting Month and Year:		October 2014																										
Sl. No.	Mitigation Measures as per EMP	Compliance Status																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
1.	Whether stockpiles of materials and wastes are located at designated locations away from inhabited areas ?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2.	Whether dust suppression measures are taken at construction sites?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3.	Whether recyclable scrap material from the disassembling of tanks etc are made available to the public ?																															
4.	Whether all other wastes are appropriately handled and taken to the municipal dumpsite for disposal ?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5.	Whether the construction of the zonal reservoirs and the chlorinator rooms are carried out simultaneously in order to minimize impact on vegetation ?																															
6.	Whether construction activities are scheduled avoiding night work ?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
7.	Whether sound construction practices are adhered to so that entry of any construction waste into nearby water courses is prevented?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
8.	Whether silt fencing are provided to protect nearby water streams?																															
9.	Whether material / waste storage and disposal areas are restricted to the premises of government land ?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Signature of Engineer of Contractor	[Handwritten signatures]																														
	Signature of Engineer of DSMC	[Handwritten signatures]																														

Note: ✓ for Complied, X for not Complied, Blank for Not Applicable

Northeastern Region Capital Cities Development Investment Programme
State Investment Program Management and Implementation Unit, Government of Nagaland

Daily EMP Implementation Monitoring Report for Water Supply (Tranche 1)

Contract Package No.:	KHM-WS-1	Name of the Contractor:	Abhiram Infra Projects Pvt. Ltd.	DSMC:	CDM Smith Inc																										
Date of Start of Construction:	19.12.2011	Reporting Month and Year:	November-2014																												
Sl. No.	Mitigation Measures as per EMP	Compliance Status																													
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	Whether stockpiles of materials and wastes are located at designated locations away from inhabited areas?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Whether dust suppression measures are taken at construction sites?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Whether recyclable scrap material from the disassembling of tanks etc are made available to the public?																														
	Whether all other wastes are appropriately handled and taken to the municipal dumpsite for disposal?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Whether the construction of the zonal reservoirs and the chlorinator rooms are carried out simultaneously in order to minimize impact on vegetation?																														
	Whether construction activities are scheduled avoiding night work?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Whether sound construction practices are adhered to so that entry of any construction waste into nearby water courses is prevented?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Whether silt fencing are provided to protect nearby water streams?																														
	Whether material / waste storage and disposal areas are restricted to the premises of government land?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Signature of Engineer of Contractor	[Handwritten Signatures]																													
	Signature of Engineer of DSMC	[Handwritten Signatures]																													

Legend: ✓ for Complied, X for not Complied, Blank for Not Applicable

Northeastern Region Capital Cities Development Investment Programme
State Investment Program Management and Implementation Unit, Government of Nagaland

Daily EMP Implementation Monitoring Report for Water Supply (Tranche 1)

Contract Package No.	KHM-WS-1	Name of the Contractor:	Abhiram Infra Projects Pvt. Ltd.	DSMC:	CDM Smith Inc																									
Start of Construction	19.12.2014		Reporting Month and Year:	December - 2014																										
Mitigation Measures as per EMP	Compliance Status																													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Whether stockpiles of materials and wastes are located at designated locations away from inhabited areas?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Whether dust suppression measures are taken at construction sites?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Whether recyclable scrap material from the disassembling of tanks etc are made available to the public?																														
Whether all other wastes are appropriately handled and taken to the municipal dumpsite for disposal?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Whether the construction of the zonal reservoirs and the chlorinator rooms are carried out simultaneously in order to minimize impact on vegetation?																														
Whether construction activities are scheduled avoiding night work?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Whether sound construction practices are adhered to so that entry of any construction waste into nearby water courses is prevented?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Whether silt fencing are provided to protect nearby water streams?																														
Whether material / waste storage and disposal areas are restricted to the premises of government land?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Signature of Engineer of Contractor	[Handwritten Signature]																													
Signature of Engineer of DSMC	[Handwritten Signature]																													

Legend: ✓ for Complied, X for not Complied, Blank for Not Applicable

b) Civil Works & Procurement of Equipment of Sanitary Land Fill, Compost Plant and Approach Road at Lerie

Northeastern Region Capital Cities Development Investment Programme																															
State Investment Program Management and Implementation Unit, Government of Nagaland																															
Daily EMP Implementation Monitoring Report for Solid Waste Management (Tranche 1)																															
Contract Package No.:		KHM-SWM-1		Name of the Contractor:		Ramky Enviro Engineers Ltd.		DSMC:		CDM Smith Inc.																					
Date of Start of Construction:		Jan 2012		Reporting Month and Year:		July 2014																									
Sl. No.	Mitigation Measures as per EMP	Compliance Status																													
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1.	Whether all the construction vehicles have PUC certificate?	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓		✓	✓	✓
2.	Whether workers are provided with PPE's like earplugs, dust masks etc. ?	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓		✓	✓	✓
3.	Whether it is ensured that construction at night time is restricted?	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓		✓	✓	✓
4.	Whether regular water sprinkling is undertaken for dust suppression ?																														
5.	Whether two trees are planted for every one removed ?	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓		✓	✓	✓
6.	Whether excavated earth is conserved for re-use ?	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓		✓	✓	✓
7.	Whether water supply and sanitation facilities are provided in labour camps?	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓		✓	✓	✓
8.	Whether 50% of the work force is employed from local community?																														
9.	Whether contractor has prepared a construction site management plan?																														
10.	Whether measures are taken to exclude public from all construction sites ?	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓		✓	✓	✓
11.	Whether health and safety training has been imparted to all personnel ?	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓		✓	✓	✓
12.	Whether restoration of borrow areas is undertaken after borrowing ?																														
13.	Whether all accident reports and records are maintained periodically?																														
	Signature of Engineer of Contractor																														
	Signature of Engineer of DSMC																														

Note: ✓ for Complied, X for not Complied, Blank for Not Applicable

Northeastern Region Capital Cities Development Investment Programme																																
State Investment Program Management and Implementation Unit, Government of Nagaland																																
Daily EMP Implementation Monitoring Report for Solid Waste Management (Tranche 1)																																
Contract Package No.:		KHM-SWM-1					Name of the Contractor:		Ramky Enviro Engineers Ltd.										DSMC:		CDM Smith Inc.											
Date of Start of Construction:		JAN - 2012										Reporting Month and Year:		Aug, 2014																		
Sl. No.	Mitigation Measures as per EMP	Compliance Status																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
1.	Whether all the construction vehicles have PUC certificate?	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2.	Whether workers are provided with PPE's like earplugs, dust masks etc. ?	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3.	Whether it is ensured that construction at night time is restricted?	✓	✓		✓	✓		✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4.	Whether regular water sprinkling is undertaken for dust suppression ?	✓																														
5.	Whether two trees are planted for every one removed ?	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6.	Whether excavated earth is conserved for re-use ?	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
7.	Whether water supply and sanitation facilities are provided in labour camps?	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
8.	Whether 50% of the work force is employed from local community?																															
9.	Whether contractor has prepared a construction site management plan?																															
10.	Whether measures are taken to exclude public from all construction sites ?	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
11.	Whether health and safety training has been imparted to all personnel ?	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
12.	Whether restoration of borrow areas is undertaken after borrowing ?																															
13.	Whether all accident reports and records are maintained periodically?																															
Signature of Engineer of Contractor																																
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Daily EMP Implementation Monitoring Report for Solid Waste Management (Tranche 1)																																
Contract Package No.:		KHM-SWM-1					Name of the Contractor:		Ramky Enviro Engineers Ltd.										DSMC:		CDM Smith Inc.											
Date of Start of Construction:		JAN 2014										Reporting Month and Year:		Sep. 2014																		
Sl. No.	Mitigation Measures as per EMP	Compliance Status																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
1.	Whether all the construction vehicles have PUC certificate?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2.	Whether workers are provided with PPE's like earplugs, dust masks etc.?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3.	Whether it is ensured that construction at night time is restricted?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4.	Whether regular water sprinkling is undertaken for dust suppression?																															
5.	Whether two trees are planted for every one removed?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6.	Whether excavated earth is conserved for re-use?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
7.	Whether water supply and sanitation facilities are provided in labour camps?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
8.	Whether 50% of the work force is employed from local community?																															
9.	Whether contractor has prepared a construction site management plan?																															
10.	Whether measures are taken to exclude public from all construction sites?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
11.	Whether health and safety training has been imparted to all personnel?	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
12.	Whether restoration of borrow areas is undertaken after borrowing?																															
13.	Whether all accident reports and records are maintained periodically?																															
Signature of Engineer of Contractor																																
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Contract Package No.:		KHM-SWM-1		Name of the Contractor:		Ramky Enviro Engineers Ltd.		DSMC:		CDM Smith Inc.																						
Date of Start of Construction:		JAN 2012										Reporting Month and Year:		OCT 2014																		
Sl. No.	Mitigation Measures as per EMP	Compliance Status																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
1.	Whether all the construction vehicles have PUC certificate?	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	
2.	Whether workers are provided with PPE's like earplugs, dust masks etc. ?	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	
3.	Whether it is ensured that construction at night time is restricted?	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	
4.	Whether regular water sprinkling is undertaken for dust suppression ?																															
5.	Whether two trees are planted for every one removed ?																															
6.	Whether excavated earth is conserved for re-use ?	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	
7.	Whether water supply and sanitation facilities are provided in labour camps?	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	
8.	Whether 50% of the work force is employed from local community?	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	
9.	Whether contractor has prepared a construction site management plan?	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	
10.	Whether measures are taken to exclude public from all construction sites ?	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	
11.	Whether health and safety training has been imparted to all personnel ?	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	
12.	Whether restoration of borrow areas is undertaken after borrowing ?	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	
13.	Whether all accident reports and records are maintained periodically?																															
	Signature of Engineer of Contractor																															
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Note: ✓ for Complied, X for not Complied, Blank for Not Applicable



Northeastern Region Capital Cities Development Investment Programme																																		
State Investment Program Management and Implementation Unit, Government of Nagaland																																		
Daily EMP Implementation Monitoring Report for Solid Waste Management (Tranche 1)																																		
Contract Package No.:		KHM-SWM-1		Name of the Contractor:		Ramky Enviro Engineers Ltd.		DSMC:		CDM Smith Inc.																								
Date of Start of Construction:		JAN - 2012		Reporting Month and Year:		NOV - 2014																												
Sl. No.	Mitigation Measures as per EMP	Compliance Status																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30			
1.	Whether all the construction vehicles have PUC certificate?	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2.	Whether workers are provided with PPE's like earplugs, dust masks etc. ?	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3.	Whether it is ensured that construction at night time is restricted?	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4.	Whether regular water sprinkling is undertaken for dust suppression ?																																	
5.	Whether two trees are planted for every one removed ?																																	
6.	Whether excavated earth is conserved for re-use ?	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
7.	Whether water supply and sanitation facilities are provided in labour camps?	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
8.	Whether 50% of the work force is employed from local community?	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
9.	Whether contractor has prepared a construction site management plan?	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
10.	Whether measures are taken to exclude public from all construction sites ?	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
11.	Whether health and safety training has been imparted to all personnel ?	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
12.	Whether restoration of borrow areas is undertaken after borrowing ?	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
13.	Whether all accident reports and records are maintained periodically?																																	
	Signature of Engineer of Contractor																																	
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Note: ✓ for Complied, X for not Complied, Blank for Not Applicable



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State Investment Program Management and Implementation Unit, Government of Nagaland																																
Daily EMP Implementation Monitoring Report for Solid Waste Management (Tranche 1)																																
Contract Package No.:		KHM-SWM-1					Name of the Contractor:		Ramky Enviro Engineers Ltd.										DSMC:		CDM Smith Inc.											
Date of Start of Construction:		JAN 2012										Reporting Month and Year:		Dec 2014																		
Sl. No.	Mitigation Measures as per EMP	Compliance Status																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
1.	Whether all the construction vehicles have PUC certificate?	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	
2.	Whether workers are provided with PPE's like earplugs, dust masks etc. ?	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	
3.	Whether it is ensured that construction at night time is restricted?	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	
4.	Whether regular water sprinkling is undertaken for dust suppression ?	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	
5.	Whether two trees are planted for every one removed ?																															
6.	Whether excavated earth is conserved for re-use ?	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	
7.	Whether water supply and sanitation facilities are provided in labour camps?	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	
8.	Whether 50% of the work force is employed from local community?																															
9.	Whether contractor has prepared a construction site management plan?	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	
10.	Whether measures are taken to exclude public from all construction sites ?	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	
11.	Whether health and safety training has been imparted to all personnel ?	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	
12.	Whether restoration of borrow areas is undertaken after borrowing ?	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	
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