Ref No: - BOM/ENV/6.9/HD-1704

Date:-17.04.2019

To.

Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (EZ), A/3, Chandersekharpur, Bhubaneswar – 751023

Sub: Six monthly status of compliance to the conditions stipulated in the Environmental Clearance granted by MoEFCC for 15000 TPA Manganese Ore production from 6.90 sq. Miles ML vide letter no. J-11015/396/2008-IA.II(M) dated 21/12/2012 for the period OCT'18 - MAR'19

Sir.

Please find enclosed herewith the Six monthly compliance report for the period OCT'18 – MAR'19 with respect to the conditions stipulated by GoI, MoEF, New Delhi, in the Environmental Clearance grant order of Bolani Ores Mines for the production of 15000 TPA Manganese Ore from 6.90 sq Miles ML vide ministry's letter no. J–11015/396/2008–IA.II(M) dated 21/12/2012.

Thank you,

Yours faithfully,

General Manager

Bolani Ores Mines
वाक्रमाकुनार मिश्रा / Arun Kumar Mishra
वाक्रमाकुनार मिश्रा / Arun Kumar Mishra
वाक्रमाकुनार मिश्रा / Arun Kumar Mishra
वाक्रमाकुनार किलानी
क्रिक्त - आर क्षेत्र डी - बोलानी-अबस्स खदान
क्षित्र - आर क्ष्य डी - बोलानी-अवस्स खदान
क्षित्र - आर क्ष्य डी - बोलानी-अवस्स खदान

न-758 037, क्योंझर, ओड़ीसा 1977 Keonihar, Odisha

Encl: As above

Copy:

- Director, IA Division, MoEF&CC, GOI, Indira Paryavaran Bhavan, Aliganj, Jor Bagh Road, New Delhi - 110 003.
- 2. In-charge, Eastern Zone, CPCB, Southern Conclave, Block 502, 5th & 6th Floors, 1582 Rajdanga Main Road, Kolkata 700 107 (W. B.)
- 3. The Member Secretary, State Pollution Control Board, Paribesh Bhawan, A/118, Nilkantha Naga, Unit VIII, Bhubaneshwar 751 012, Odisha

स्टील अथॉरिटी ऑफ इण्डिया लिमिटेड, रॉ मेटेरिल्स डिवीजन, बोलानी अयस्क खदान, पोस्ट : बोलानी - 758037 जिला - क्योंझर, उडीसा Steel Authority of India Ltd. Raw Materials Division, Bolani Ores Mines, PO. : Bolani - 758037, Dist : Keonjhar, Odisha दुराभाष / Telephone : 06767 - 260211 (O) फैक्स / Fax : 06767-260172, Mobile : +91 8986881005 E-mail : rmdbom2016@gmail.com, Website : www.sail.co.in

Six Monthly

COMPLIANCE REPORT OF

ENVIRONMENTAL CLEARANCE CONDITIONS (Grant Order no: J-11015/396/2008-IA.II(M) dated 21/12/2012)

OF

BOLANI ORES MINES (6.90 Sq Miles ML) In Keonjhar District of Odisha

For the Period April'18 - September'18



STEEL AUTHORITY OF INDIA LIMITED RAW MATERIALS DIVISION BOLANI ORES MINES BOLANI- 758037

Sl. No.	CONDITION	COMPLIANCE
Α.	SPEC	IFIC CONDITIONS
i.	Environmental Clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as applicable.	Not Applicable as the Provision of Wildlife (Protection) ACT 1972 is not attracted to the Project.
ii.	The mining operation shall be restricted to above ground water table and it shall not intersect groundwater table. In case of working below the ground water table, Prior approval of the Ministry of Environment & Forest and Central Ground Water Authority shall be obtained for which a detailed hydrogeological study shall be carried out.	The Mining operations in this ML have not been commenced yet. In case of working below the ground water table, a detailed hydrogeological study will be carried out and prior approval of the Ministry of Environment & Forest and Central Ground Water Authority will be obtained for working below Ground Water Table.
iii.	Mitigation measures to control RSPM levels shall continue to be implemented and air quality data will also be collected during operation of the mines. The data so collected shall be analyzed to see the effectiveness of the mitigation measures implemented. Based on the same, additional safeguard measures, as may be required shall be implemented in the project.	The Mining operations in this ML have not started yet. Mitigation measures are regularly implemented to control the RSPM levels. On production of ROM from this lease, total dispatch will be through rail route. As such, in order to improve the RSPM quality, SAIL-Bolani Ore Mines has completed the implementation of following mitigation measures: (a) Repaired and blacktopped the Road from Karo Bridge to Bolani entry point (3.2 km) at a cost of Rs.732 lakhs. (b) Repaired and blacktopped the Balagoda - Bolani road (2.4 km) at a cost of Rs.20 lakhs. (c) Dry Fog Dust suppression system has been installed in the 600 TPH Crushing & Screening Plant (d) In addition to water sprinkling on haul roads, water sprinkling facility has been extended to the Public roads outside this lease. (e) Fixed water sprinkling system has been installed in the 600 TPH areas. (f) During ROM production from this ML, additional water sprinkling measures as planned in EMP will be undertaken. Regular Environmental Audits are part of the Environmental Management System (EMS) implemented at Bolani Ore Mines, which is certified under ISO-14001:2015 standard. These audits check the conformance of the air quality to the applicable

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No.	CONDITION	COMPLIANCE
		norms and thereby effectiveness of the pollution control equipment / facilities is regularly reviewed for taking up any additional safeguard measures, if any required.
iv.	The biological survey shall be repeated during October-December and mid-May month to see the existence of wildlife corridors, if any. Based on the same, necessary Wildlife Conservation Plan as may be required shall be prepared and implemented in consultation with the state Forest and Wildlife Department.	Necessary biological surveys were conducted by expert committees and Wild Life Experts and based on the same, Site Specific Wildlife Conservation Plan has been prepared and approved by the state Forest and Wildlife Department vide order no 10680/1WL-FC-Mrl-SSP-228/2018 Dt. 22.11.2018 with a total financial outlay of Rs.1088.431 lakhs. An amount of Rs.772.999 lakhs has been deposited in CAMPA account of Forest Dept. for interventions in Project impact area. The Study revealed no Wildlife corridors within the Mining Lease area.
V.	The biological survey shall also be undertaken to identify the trees with orchids, if any Such trees, so identified shall be protected and if need be, these trees may be relocated.	Detailed study of the area for identification of orchids completed by the Consutant, M/s Grow Green Consortium Pvt. Ltd. A Report based on survey including recommendations for preservation of the species is yet to be submitted by the consultant. The same shall be submitted at regional office of MoEF&CC for endorsement.
vi.	The Over Burden (OB) generated during the mining operation shall be stacked at earmarked dump sites(s) only and should not be kept active for long period. In critical areas, use of geo textiles shall be undertaken for stabilization of dump. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status should be submitted to the Ministry of Environment & Forest and its Regional Office located at Bhubaneswar on six monthly basis.	Noted for Compliance.
Vii.	Catch drains and siltation ponds of appropriate size shall be constructed to arrest silt and sediment flows from mine working, soil, OB and mineral dumps. The water so collected should be utilized for watering the mine area, roads,	The Mining operations in this ML have not started yet. Therefore, no silt is generated from the Mine working. However, above measures will be undertaken as soon as the Mining operations are started.

S1.	CONDITION	COMPLIANCE
	green belt development etc The drains should be regularly de-silted particularly after monsoon and maintained properly.	
viii.	Dimension of retaining wall at the toe of dumps and OB benches within the mine to check run-off and siltation should be based on the rainfall data	The Mining operations in this ML have not started yet. Dimension of retaining walls to be constructed to check run-off and siltation will be based on Rainfall data and as per approved mining plan.
ix.	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna such as elephant, leopard, sloth bear, wolf, gaur, python etc. Spotted in the study area and contribute towards the cost of implementation of the plan and/ or Regional Wild life Management plan for conservation of flora and fauna so prepared by the State Government. The amount so contributed shall be included in the project cost. A copy of action plan may be submitted to the Ministry and its Regional Office, Bhubaneswar within three months.	Necessary biological surveys were conducted by expert committees and Wild Life Experts and based on the same, Site Specific Wildlife Conservation Plan has been prepared and approved by the state Forest and Wildlife Department vide order no 10680/1WL-FC-Mrl-SSP-228/2018 Dt. 22.11.2018 (copy of approval enclosed as Annexure-II) with a total financial outlay of Rs.1088.431 lakhs. An amount of Rs.772.999 lakhs has been deposited in CAMPA account of Forest Dept. for interventions in Project impact area. The Study revealed no Wildlife corridors within the Mining Lease area.
X.	The critical parameters such as RSPM (Particulate matter with size less than 10 micron i.e. PM 10 and NOx in the ambient air within the impact zone, peak particle velocity at 300 m distance or within the nearest habitation, whichever is closer shall be Monitored periodically. Further, quality of discharged water shall also be monitored [TDS, DO, PH and Total Suspended Solids (TSS)]. The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the Company in public domain. The Circular No. J-20012/1/2006-	The Mining operation in this ML has not started yet. However, the critical parameters such as PM ₁₀ , NO _X etc. are regularly monitored in the ambient air within the impact zone. Action has been taken for installation of 4 (Four) nos) Continuous Ambient Air Quality Monitoring System (CAAQMS) in core and buffer zones of this lease for measurement critical parameters such as RSPM (Particulate matter with size less than 10 micron i.e. PM ₁₀ and NO _X in the ambient air within the impact zone. The quality of discharged water is also regularly monitored for parameters like TDS, DO, PH and Total Suspended Solids (TSS). The monitored data are enclosed in the six monthly compliance reports which are uploaded on the website of SAIL. The monitored data are also displayed on an electronic display board near the main entry gate which is in public domain.

S1.		
No.	CONDITION	COMPLIANCE
	IA.II(M) dated 27.05.2009 issued by Ministry of Environment and Forest, which is available on the website of the Ministry www.envfor.nic.in shall also be referred in this regard for the compliance.	The monitoring reports are attached as Annexure-I.
В.	GENE	RAL CONDITIONS
i.	No change in mining technology	The Mining operation in this ML has not started yet.
	and scope of working should be made without prior approval of the Ministry of Environment & Forests	However, there will be no change in Mining technology or scope of work, other than that which has been prescribed in Mine Plan/Mining Scheme. Prior approval from MoEF&CC shall be sought to change Mining technology or scope of working.
ii.	No change in the calendar plan including excavation, quantum of mineral iron ore and waste should be made.	No change in the calendar plan including excavation, quantum of mineral iron ore and waste will be made.
iii.	The project proponent shall obtain Consent to establish from the State Pollution Control Board, Orissa and effectively implement all the conditions stipulated there in.	Consent to Establish has been obtained vide Order no. 23403/Ind-II-NOC-5374 dt 21/12/2013. An application for revalidation of the CTE has been submitted vide no. 2476275 Dt. 04-03-2019. The conditions are effectively implemented and a compliance report has already been submitted to OSPCB for considering grant of consent to operate. The Mining operation in this ML has not started yet.
iv.	A final mine closure plan along with details of Corpus Fund should Be submitted to the Ministry of Environment & Forest 5 years in Advance of final mine closure for approval.	Final Mine Closure plan along with details of Corpus fund will be submitted to the Ministry 5 years in advance of final mine closure for approval. However, the Progressive Mine Closure Plan (PMCP) is approved by IBM vide their letter no. MS/OTFM/45-ORI/BHU/2017-18 Dt. 27.03.2018.
V.	The project proponent shall practice Suitable rain water harvesting measures on long term basis and work out detailed scheme rain water harvesting in consultation with Central Ground Water Authority and submit a copy of the same to the Ministry of Environment & Forests and its Regional Office, Bhubaneswar.	The Rainwater Harvesting measures proposed in report of "Technical Feasibility Study on Rain Water Harvesting & Master Plan for Ground Water Recharges" prepared by the consultant, M/s KRG Rainwater Foundation, have been approved by CGWB Bhubaneswar vide their letter no.: 5-22/ CGWA/SER/2018-19-1306 Dt. 26.12.2018. Meanwhile, departmental initiatives for Soil and moisture Conservation had been taken up, measures such as de-silting of network of seasonal water channels, Plantations of drought hardy plant species on the degraded lands, water harvesting structure s along seasonal channels, have been taken up by Bolani Ore Mines, SAIL to augment ground water recharge, as per

Sl.	CONDITION	COMPLIANCE
No.		schemes prepared with in-house expertise, in line with prevailing guidelines of CGWB. Bolani Ore Mines is not using any ground water either for domestic purpose or for industrial purpose, neither has any plan to do so for future mining activities.
vi.	Vehicular emissions should be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of Mineral. The vehicles should be covered with a tarpaulin and shall not be overloaded.	Not applicable at present as Mining operations in this ML has not started yet. However, the same will be complied, as soon as the Mining operation starts.
vii.	No Blasting shall be carried out after the sunset. Blasting operation should be carried out only during the day time. Controlled Blasting should be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.	Not applicable at present as Mining operations in this ML have not started yet. However, on commencement of mining operation, Blasting will be carried out only during the daytime and controlled blasting will be practiced, with due precaution to control ground vibrations and fly rocks and boulders.
viii.	Mineral handling area shall be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer point should also have efficient dust control arrangements. These should be properly maintained and operated.	In the Mineral handling areas such as Loading plant area, Dry fog dust suppression in 600 TPH Plant and fixed water sprinkling systems have been provided.
ix.	Sewage treatment plant should be installed for the colony. ETP should also be provided for the workshop and wastewater generated during mining operation.	Based on the conceptual plan submitted by IIT KGP a detail feasibility report (FR), Technical Specification (TS) for STP of capacity 2.4 MLD Capacity has been prepared by CET, an in-house consultant of SAIL for execution. Implementation period of the job is 24 months with an estimated cost of Rs. 17.56 Cr. The proposal is under tender process. Meanwhile, individual septic tanks followed by soaking
		pits have been provided in all quarters and office locations. 3 nos. of ETPs (Oil and Grease catch traps) have been provided at mechanical workshops and equipment washing junctions, to collect and treat workshop effluent.

COMPLIANCE
All newly appointed workers undergo a comprehensive medical examination (Pre-Employment Medical Examination) and subsequently a Periodical Medical Examination (PME) at regular intervals. All workers undergo a PME every 5 years; however, for workers whose age is >45 years the PME is done every 3 years. All contractual workers also undergo medical examination. The findings are maintained in each worker's individual medical record maintained throughout his service. These records are manual maintained and also computerized. The above tests are carried out at the Bolani Mines Hospital. A three tick health monitoring program is in vogue the hospital The mine's hospital has an Occupational Healt Department O.P.D. run by Occupational Healt Physician. The mine hospital is a 50 bedded multi specialty hospital with facilities to handle major and
minor surgeries and a casualty department. Most of the labours engaged in the construction activity belong to nearby villages. However, provisions have also been made, as and when required, for the housing of construction labour in adjacent to the construction sites in non-forest lands on temporary basis to completion of the project. Infrastructure and facilities available at Bolani such as safe drinking water, medicated health care etc. are enjoyed by the labors.
As per present practice, monitoring of ground water quality and levels of existing wells inside the ML area done quarterly in the existing wells of Bolani and Balagoda Village and data is submitted in compliant reports. The ground water level data is as follows: Village Name
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S1.	CONDITION	COMPLIANCE
110.	Water Authority and Regional Director, Central Ground Water Board. If at any stage, it is observed that the groundwater table is getting depleted due to the mining activity; necessary corrective measures shall be carried out.	
xiii.	The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water, if any, required for the project.	Water Drawl agreement for extraction of the 7 cusec (for envisaged level of production) of surface water from Karo River and tributaries has been executed with Executive Engineer, Baitarini Division, Salapada vide agreement no.424 Dt.23.02.2019, with validity of 03 (three) years. Presently the Average consumption is well within the permitted quantity.
xiv.	environmental issues and for ensuring compliance with the EC	The Policy towards Corporate Environmental Responsibility including details of set up have been submitted to Ministry vide our letter no RMD/BOM/E&L/5.1sqMiles/EC/2013/91 dt 18-03-2013. Necessary steps are being taken for implementation of the same (common for the adjoining 5.10 sq. miles ML of SAIL) regularly. SAIL has always been an environmentally conscious and responsible company. Way back in 1996, it was a pioneer in adopting a Corporate Environmental Policy. In view of the rapid technological advancements in the past two decades and growing stringency of regulatory requirements, SAIL has revised its
XV.	At least four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM (Particulate matter with size less than 10 micron i.e. PM10) and NOx monitoring. Location of the stations should be decided based on the meteorological data,	Four nos. of Ambient Air quality monitoring locations have been fixed in core zone and buffer zone (2 nos. of common for the adjoining 5.10 sq. miles ML of SAIL), in consultation with State Pollution Control Board, where RSPM (PM ₁₀) including other parameters are monitored. The monitoring reports are attached as Annexure-I(A) . Action has been taken for installation of 4 (Four) nos) Continuous Ambient Air Quality Monitoring System

Sl.	CONDITION	COMPLIANCE
No.	topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.	(CAAQMS) in core and buffer zones of this lease for measurement critical parameters such as RSPM (Particulate matter with size less than 10 micron i.e. PM 10 and NOx in the ambient air within the impact zone .
xvi.	Data on Ambient Air Quality [RSPM (PM10) and NOx] should regularly be submitted to the Ministry including its Regional Office, Bhubaneswar and the State Pollution Control Board/ Central Pollution Control Board once in six months.	At present, the data on ambient air quality (RSPM, SO ₂ , NO _X & CO) is regularly submitted on six-monthly basis in the compliance reports of the same (enclosed as Annexure – I (A)). After the installation of CAAQMS system, the data on ambient air quality (PM 10, PM 2.5, SO ₂ , NO _X & CO) will be automatically uploaded to OSPCB server.
xvii.	The top soil, if any, shall temporarily be stored at earmarked site only and should not be kept unutilized for a period more than three years. The topsoil should be used for land reclamation and plantation.	The Mining operations in this ML have not started. However, the top soil generated (after commencement of mining operation) will temporarily be stored at earmarked site and utilized within three years of storing.
XVIII.	Measures should be taken for control of noise levels below 85dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provide with ear plugs/ muffs.	started. However, all workers deployed in the
xix.	Industrial waste water (workshop and waste water from mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.	The Mining operations in this ML have not been started. However, the Same is Noted for Compliance.
XX.	A separate environmental management cell with suitable qualified personnel should be set up under the control of a Senior Executive, who will report directly	An Environment Management Section (EMS) is established as a separate section under the Mines Department under direct control of Dy. General Manager (Mines). The details of constitution is as follows:

S1.		
No.	CONDITION	COMPLIANCE
	to the Head of the Organization.	1. Assistant General Manager (Env & Lease) 2. Assistant Manager (Env & Lease) 3. Mining Mate (Env & Lease) Assistant General Manager (Environment & Lease) coordinates the day to day activities pertaining to communications related to statutory clearances and compliances of Environment, Forest & Lease Renewal issues and reports to the Dy General Manager (Mining) and Mines Manager who being statutory head regularly reviews the compliances of various Stipulations, Acts and Regulations pertaining to Environmental Matters of Mines and reports to Head of Mines. One (1) Assistant Manager (Environment & Lease) is posted in the EMC who expedites initiation of proposals as per Environmental Management Plan and coordinates field implementation of the jobs. A Mining Mate (Environment & Lease) assists him in the day to day activities. Necessary measures are also being taken up for capacity building of the Environment Management Cell by appointment of required qualified personnel as planned in EMP Further, an Environmental Management System (EMS) has been implemented at Bolani Ore Mines which has been certified as per ISO 14001:2015 Standard. The EMS of BOM covers Mining activities, Maintenance activities, Mineral Beneficiation and all other allied activities. As per the EMS, a senior executive of the organization in the level of DGM(Mech.), I/c CMC & CBRS functions as Management Representative and is responsible for strict implementation.
xxi.	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office located at Bhubaneswar.	The fund earmarked for environmental protection measures is kept in separate account and is not diverted for other purpose. An amount of Rs.143.23 lakhs was spent for environment & forest protection measures during the year 2018-19 against an allocated budget of Rs.140.00 lakhs.
xxii.	Project authorities should inform to the Regional Office, Bhubaneswar regarding date of financial closures and final approval of the project by concerned authorities and date of start of land development work.	Bolani Ores Mines will inform Regional Office, Bhubaneswar regarding date of financial closures and final approval of the project by concerned authorities and date of start of land development work as soon as the mining commences.

S1.	CONDITION	COMPLIANCE
No.		
xxiii.	Regional office of this Ministry located at Bhubaneswar shall monitor compliance of stipulated conditions. The project authorities should extend full co-operation to the officer(s) of the Regional Office by furnishing requisite date/information/monitoring reports.	BOM has and always will extend wholehearted co- operation to the inspecting authorities by furnishing requisite date/ information/ monitoring reports and minutely examining the scope of further actions for improvement.
xxiv.	The project proponent shall submit	Six monthly compliance reports on the status of
	six monthly report on the status of	implementation of environmental safeguards are being
	the compliance of the stipulated	submitted to MoEF&CC, New Delhi, Regional Office
	environmental clearance conditions	– MoEF&CC, Bhubaneshwar, Central Pollution
	including results of monitored data	Control Board and State Pollution Control Board.
	(both in hard copies as well as by e-	Copy of the compliance report inclusive of
	mail) to the Ministry of	Environmental Parameters Monitoring data is being
	Environmental and Forests, its	uploaded to the SAIL web site i.e. www.sail.co.in
	Regional Office, Bhubaneswar, the respective Zonal office of	
	Central Pollution Control Board	
	and State Pollution Control	
	Board. The proponent shall upload	
	the status of compliance of the	
	environmental clearance	
	conditions, including results of	
	monitored data on their website	
	and shall update the same	
	periodically. It shall simultaneously	
	be sent to the Regional Office of	
	the Ministry of Environment and Forest, Bhubaneswar, the	
	respective Zonal Officer of Central	
	Pollution Control Board and the	
	State Pollution Control Board.	
XXV.	A copy of clearance letter shall be	Copies of clearance letter were given to concerned local
	sent by the proponent to concerned	bodies, from whom suggestion/representation has been
	Panchayat, Zila Parisad/Municipal	received while processing the proposal.
	Corporation, Urban Local Body and	
	the local NGO, if any, from whom	
	suggestion/ representation has been received while processing the	
	proposal. The clearance letter shall	
	also be put on the website of the	
	Company by the proponent, The	
	State Pollution Control Board	
	should display a copy of the	

S1.	CONDITION	COMPLIANCE
No.	clearance letter at the Regional Office, District Industry Center and Collector's office/ Tehsildar's office for 30 days.	
xxvi.	The State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's Office/Tehsildar's Office for 30 days.	Noted for Compliance.
xvii.	The environmental statement for each financial year ending 31st march in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of the compliance of environmental clearance conditions and shall also be sent to the respective Regional Office of the Ministry of Environment and Forests, Bhubaneswar by e-mail.	BOM/ENV/HD-1209 Dt.12.09.2018. The environment statement is uploaded on the website of the SAIL along with the status of the compliance of environmental clearance conditions and is also sent to the respective Regional Office of the Ministry of Environment and Forests, Bhubaneswar by e-mail.
XVIII.	The project authorities should advertise at least in two local newspapers of the District or State in which the project is located and widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Boards and also at web site of the Ministry of Environment and Forests at http://envfor.nic.in and	clearance was published in Odiya daily SAMBADA,

Sl. No.	CONDITION	COMPLIANCE
140.	a copy of the same should be forwarded to the Regional Office of the this Ministry located Bhubaneswar.	
8.	The Ministry or any other competent authority may alter /modify the above conditions or stipulate any further condition in the interest of environment protection.	
9.	Failure to comply with any of the condition mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted.
10.	The above condition will be enforced inter-alia, under the provisions of the Water (prevention & Control of Pollution) Act, 1974, the Air (prevention and control of pollution) Act, 1981, the Environment (protection) Act, 1986 and public liability Insurance Act, 1991 along with their amendments and rules made there under.	Noted.
11.	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days, as prescribed undersection-16 of the National Green Tribunal Act 2010	Noted.

ANNEXURE - I(A)

SAIL RMD

② From: 00:00, 01-Oct-2018 ② Upto: 00:00, 01-Apr-2019

CISF Colony

Parameter	Average	Average Min	Average Max	Min	Max
PM _{2.5} (μg / m3)	16.98	0.05 (00:00, 30 Dec to 00:00, 31 Dec 2018)	193.03 (00:00, 01 Feb to 00:00, 02 Feb 2019)	0.01 (11:04, 16 Jan 2019)	983.1 (12:48, 04 Feb 2019)
PM ₁₀ (μg / m3)	44.74	0.97 (00:00, 21 Nov to 00:00, 22 Nov 2018)	162.53 (00:00, 11 Mar to 00:00, 12 Mar 2019)	0.01 (23:06, 30 Dec 2018)	997 (03:06, 09 Jan 2019)

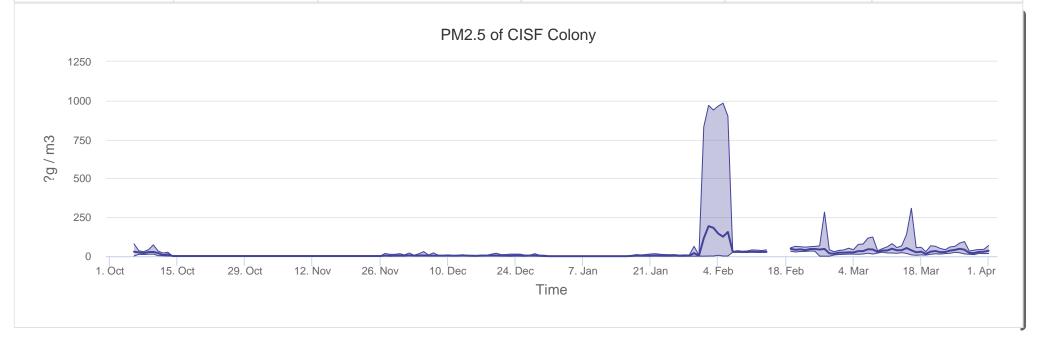
AAQMS 2 - Campus Store

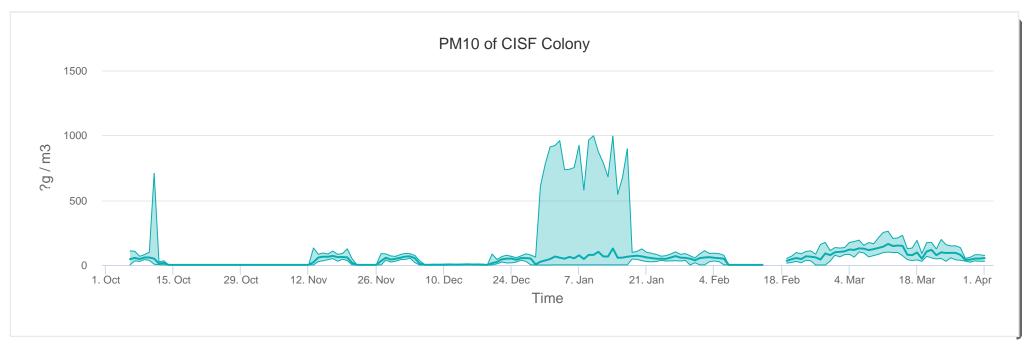
Parameter	Average	Average Min	Average Max	Min	Max
PM _{2.5} (μg / m3)	12.25	7.51 (00:00, 16 Feb to 00:00, 17 Feb 2019)	113.78 (00:00, 25 Oct to 00:00, 26 Oct 2018)	5.04 (12:37, 01 Nov 2018)	161.6 (21:17, 25 Oct 2018)
PM ₁₀ (μg / m3)	29.64	10.41 (00:00, 17 Jan to 00:00, 18 Jan 2019)	525.19 (00:00, 25 Oct to 00:00, 26 Oct 2018)	8.14 (12:17, 01 Nov 2018)	686.7 (21:39, 25 Oct 2018)
NO(μg / m3)	12.41	1.78 (00:00, 11 Nov to 00:00, 12 Nov 2018)	458.67 (00:00, 26 Dec to 00:00, 27 Dec 2018)	0.01 (02:50, 14 Oct 2018)	80526 (18:03, 26 Dec 2018)
NO₂(μg / m3)	44.84	1.93 (00:00, 29 Oct to 00:00, 30 Oct 2018)	641.26 (00:00, 26 Dec to 00:00, 27 Dec 2018)	0.07 (13:34, 07 Dec 2018)	84473 (18:31, 26 Dec 2018)

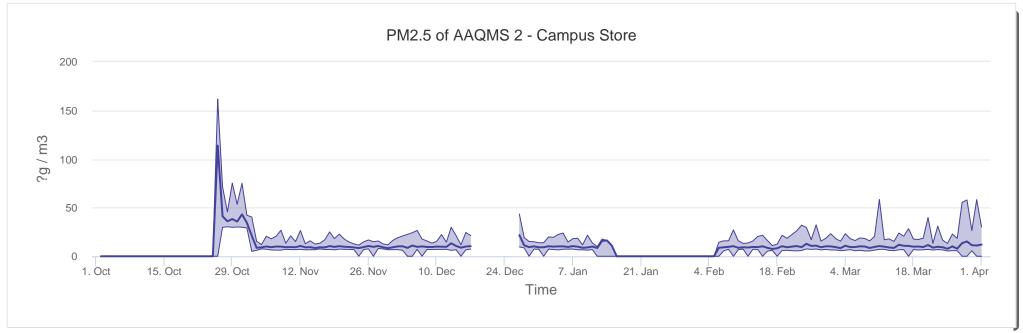
Parameter	Average	Average Min	Average Max	Min	Max
NO _x (μg / m3)	51.47	4.03 (00:00, 29 Oct to 00:00, 30 Oct 2018)	744.78 (00:00, 26 Dec to 00:00, 27 Dec 2018)	0.74 (09:17, 10 Jan 2019)	93414 (18:31, 26 Dec 2018)

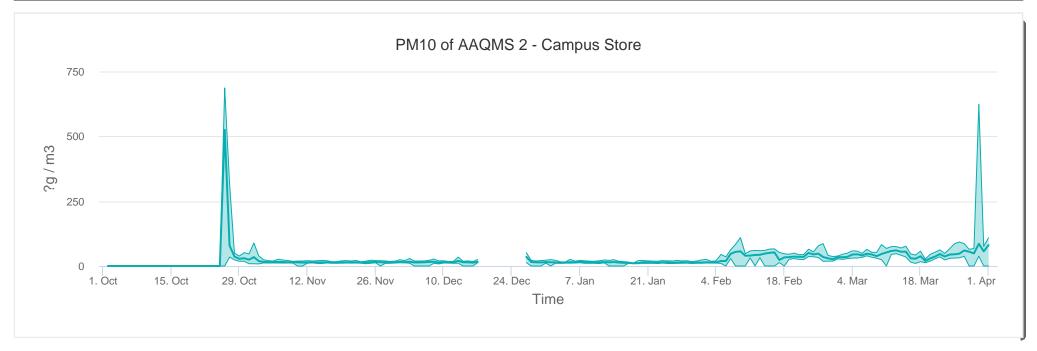
Near Karo Bridge

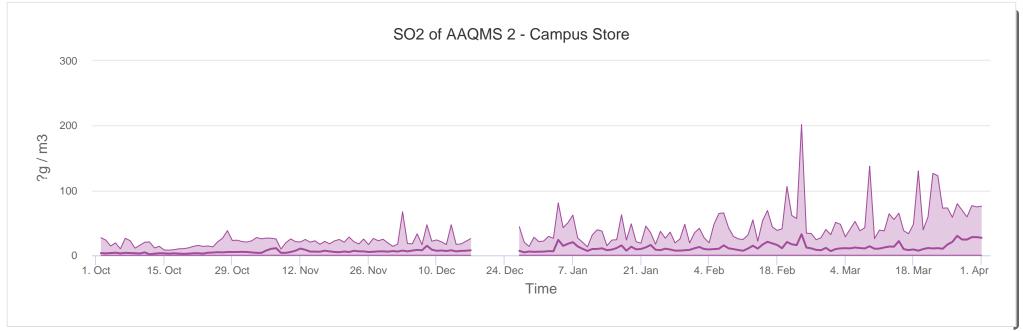
Parameter	Average	Average Min	Average Max	Min	Max
PM _{2.5} (μg / m3)	110.19	1.42 (00:00, 29 Nov to 00:00, 30 Nov 2018)	1356.12 (00:00, 02 Jan to 00:00, 03 Jan 2019)	0.68 (11:10, 04 Dec 2018)	20768 (12:50, 02 Jan 2019)
PM ₁₀ (μg / m3)	162.24	1.47 (00:00, 03 Dec to 00:00, 04 Dec 2018)	359.77 (00:00, 11 Dec to 00:00, 12 Dec 2018)	1.49 (17:10, 30 Nov 2018)	3127 (12:37, 19 Dec 2018)

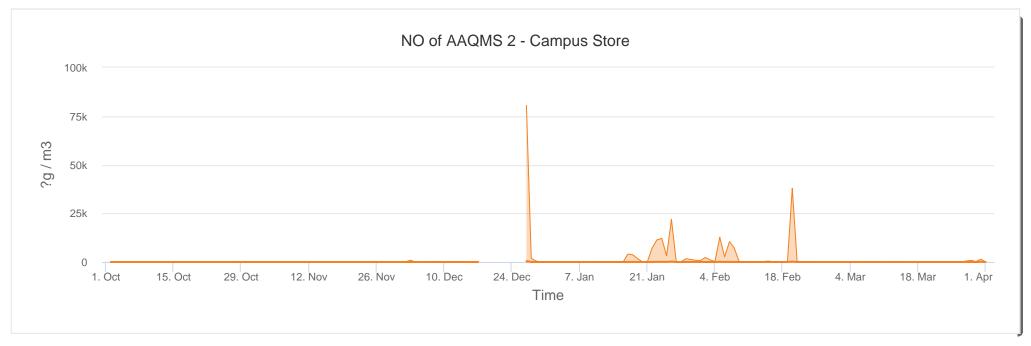


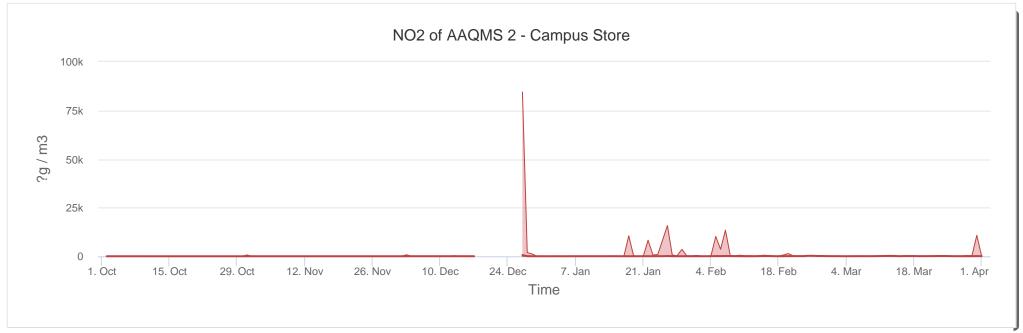


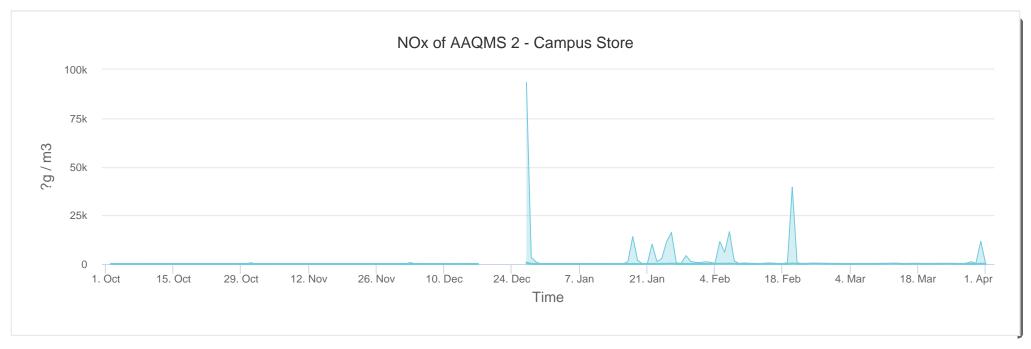


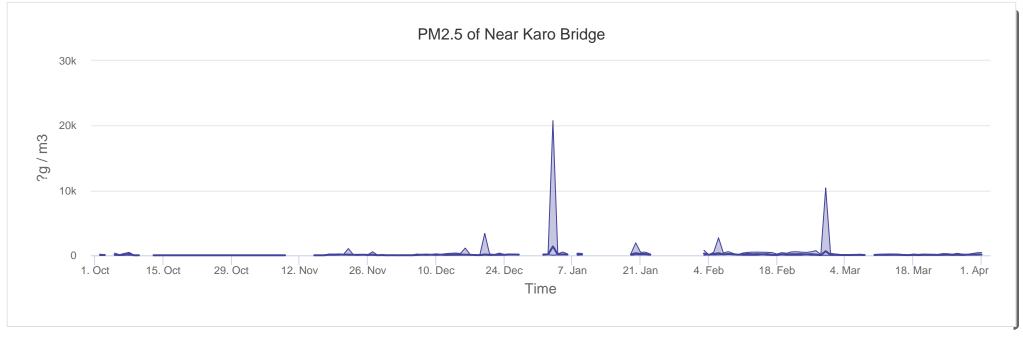


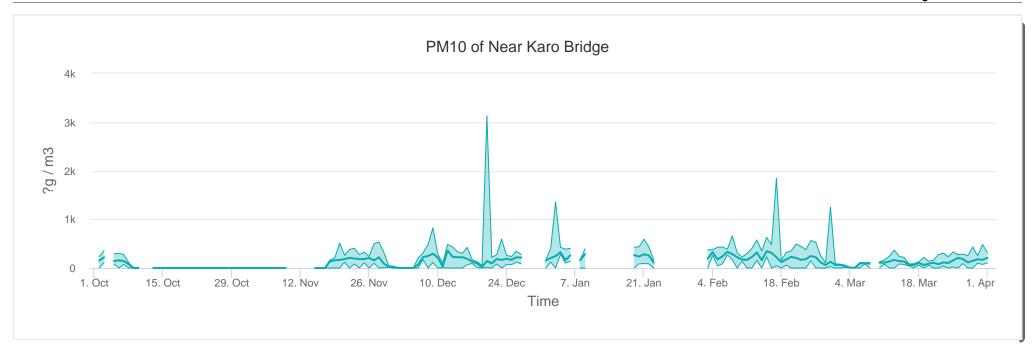












ANNEXURE - I(B)



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Report no. - CEMC/BOM/060219/W1

Issued Date-06.02.2019

WATER QUALITY TEST REPORT

Name & Address of the Client

Date of Sampling

Sampling by

Date of Sample Received

Sample Location

Sample Description

Date of Analysis Reference No.

: M/s. SAIL-RMD, Bolani Ores Mines, Barbil

: 30.01.2019

: Santhosh Kumar Mohanty

: 31.01.2019

: Surface Water

: Karoriver before entering 6.90 ML Lease

: 31.01.2019 to 06.02.2019

: CEMC-06022019W1

ANALYSIS DESILLT

SI. No.	Test Parameters	Unit	Method of Testing	Result
1	pH Value @ 25°C	~=	APHA 4500H ⁺ B	7.56
2	Total Suspended Solids	mg/l	APHA 2540 D	12.2
3	Oil & Grease	mg/l	APHA 5520 B	ND
4	Total Residual Chlorine	mg/l	APHA 4500Cl, B	ND
5	BOD for 5 days@ 20°C	mg/l	APHA 5210 B	8.8
6	Chemical Oxygen Demand	mg/l	APHA 5220 C	36
7	Arsenic as as	mg/l	APHA 3114 B	< 0.001
8	Mercury as Hg	mg/l	APHA 3500 Hg	< 0.001
9	Lead as Pb	mg/l	APHA 3111 B,C	< 0.01
10	Cadmium as Cd	mg/l	APHA 3111 B,C	< 0.003
11	Hexavalent Chromium as Cr ⁺⁶ . Max.	mg/l	APHA 3500Cr B	< 0.05
12	Copper as Cu	mg/l	APHA 3111 B,C	< 0.03
13	Zinc as Zn	mg/l	APHA 3111 B,C	< 0.05
14	Nickel as Ni	mg/l	APHA 3111 B,C	< 0.01
15	Cyanide as CN	mg/l	APHA 4500CN C,D	ND
16	Fluoride as F	mg/l	APHA 4500F C	0.12
17	Sulphide as S	mg/l	API-LA 4500 S2-D	< 0.01
18	Phenolic compound as C ₆ H ₅ OH, Max.	mg/l	APHA 5530 B,D	ND
19	Manganese as Mn	mg/l	APHA 3500Mn B	0.16
20	Total Iron as Fe	mg/l	APHA 3500Fe, B	0,28
21	Nitrate Nitrogen as N	mg/I	APHA 4500NO ₃ E	2.6

NB ND- Not Detectable

Authorized Signatory

Notes:

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Laboratory

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Report no. - CEMC/BOM/060219/W2

Issued Date-06.02.2019

WATER QUALITY TEST REPORT

Name & Address of the Client

Date of Sampling

Sampling by

Date of Sample Received Sample Description

Sample Location

Date of Analysis Reference No.

: M/s, SAIL-RMD, Bolani Ores Mines, Barbil

: 30.01.2019

: Santhosh Kumar Mohanty

: 31.01.2019

: Surface Water

: Jhikaria Naflah Existing 6.90 ML and before

joining Karo

: 31.01.2019 to 06.02.2019 : CEMC-06022019W2

ANALYSIS RESULT

SI. No.	Test Parameters	Unit	Method of Testing	Result
1	pH Value @ 25°C		APHA 4500H B	7.35
2	Total Suspended Solids	mg/l	APHA 2540 D	15.6
3	Oil & Grease	mg/l	APHA 5520 B	ND
4	Total Residual Chlorine	mg/l	APHA 4500Cl, B	ND
5	BOD for 5 days@ 20°C	mg/l	APHA 5210 B	9.2
6	Chemical Oxygen Demand	mg/l	APHA 5220 C	40
7	Arsenic as as	mg/l	APHA 3114 B	< 0.001
8	Mercury as Hg	mg/l	APHA 3500 Hg	< 0.001
9	Lead as Pb	mg/l	APHA 3111 B,C	< 0.01
10	Cadmium as Cd	mg/l	APHA 3111 B,C	< 0.003
11	Hexavalent Chromium as Cr ⁻⁶ , Max.	mg/l	APHA 3500Cr B	< 0.05
12	Copper as Cu	mg/l	APHA 3111 B,C	< 0.03
13	Zinc as Zn	mg/l	APHA 3111 B,C	< 0.05
14	Nickel as Ni	mg/l	APHA 3111 B,C	< 0.01
15	Cyanide as CN	mg/l	APHA 4500CN C,D	ND
16	Fluoride as F	mg/l	APHA 4500F C	0.14
17	Sulphide as S	mg/l	APHA 4500 S ² -D	< 0.01
18	Phenolic compound as C ₆ H ₅ OH, Max.	mg/I	APHA 5530 B,D	ND
19	Manganese as Mn	mg/l	APHA 3500Mn B	0.42
20	Total Iron as Fe	mg/l	APHA 3500Fe, B	0.64
21	Nitrate Nitrogen as N	mg/l	APHA 4500NO ₃ E	3.4

NB: ND- Not Detectable

gnatory

Notes:

The results relate only to the sample tested. P

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Report no. - CEMC/BOM/060219/W3

Issued Date-06.02.2019

WATER QUALITY TEST REPORT

Name & Address of the Client

Date of Sampling

Sampling by

Date of Sample Received

Sample Description

Sample Location

Date of Analysis Reference No. : M/s. SAIL-RMD, Bolani Ores Mines, Barbil

: 30.01.2019

: Santhosh Kumar Mohanty

:31.01.2019

: Surface Water

: Jhikaria Nallah at School Pond existing 5.1 ML

: 31.01.2019 to 06.02.2019

: CEMC-06022019W3

ANALYSIS RESULT

SI. No.	Test Parameters	Unit	Method of Testing	Result
1	pH Value @ 25°C	- 44	APHA 4500H B	7.44
2	Total Suspended Solids	mg/l	APHA 2540 D	10.1
3	Oil & Grease	mg/l	APHA 5520 B	ND
4	Total Residual Chlorine	mg/l	APHA 4500Cl, B	ND
5	BOD for 5 days@ 20°C	mg/l	APHA 5210 B	6.4
6	Chemical Oxygen Demand	mg/l	APHA 5220 C	18
7	Arsenic as as	mg/l	APHA 3114 B	< 0.001
8	Mercury as Hg	mg/l	APHA 3500 Hg	< 0.001
9	Lead as Pb	mg/l	APHA 3111 B,C	< 0.01
10	Cadmium as Cd	mg/l	APHA 3111 B,C	< 0.003
11	Hexavalent Chromium as Ct ⁺⁶ Max.	mg/l	APHA 3500Cr B	< 0.05
12	Copper as Cu	mg/l	APHA 3111 B,C	< 0.03
13	Zinc as Zn	mg/l	APHA 3111 B,C	< 0.05
14	Nickel as Ni	mg/l	APHA 3111 B,C	< 0.01
15	Cyanide as CN	mg/l	APHA 4500CN C,D	ND
16	Fluoride as F	mg/l	APHA 4500F C	0.11
17	Sulphide as S	mg/l	APHA 4500 S ² D	< 0.01
18	Phenolic compound as C ₆ H ₅ OH, Max.	mg/l	APHA 5530 B,D	ND
19	Manganese as Mn	mg/l	APHA 3500Mn B	0.19
20	Total Iron as Fe	mg/l	APHA 3500Fe, B	0.42
21	Nitrate Nitrogen as N	mg/l	APHA 4500NO ₃ E	2.2

NB: ND- Not Detectable

Authorized Signatory

Notes:

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Report no. - CEMC/BOM/060219/W4

Issued Date-06.02.2019

WATER QUALITY TEST REPORT

Name & Address of the Client

Date of Sampling Sampling by

Date of Sample Received Sample Description Sample Location

Date of Analysis Reference No.

: M/s. SAIL-RMD, Bolani Ores Mines, Barbil : 30,01,2019

: Santhosh Kumar Mohanty

: 31.01.2019

: Surface Water

: Karoriver Near Kalimandir : 31.01,2019 to 06.02,2019

: CEMC-06022019W4

ANALYSIS RESIDT

SI. No.	Test Parameters	Unit	Method of Testing	Result
1	pH Value @ 25°C	**	APHA 4500H B	7.46
2	Total Suspended Solids	mg/l	APHA 2540 D	18,6
3	Oil & Grease	mg/l	APHA 5520 B	ND
4	Total Residual Chlorine	mg/l	APHA 4500Cl, B	ND
5	BOD for 5 days@ 20°C	mg/l	APHA 5210 B	10.6
6	Chemical Oxygen Demand	mg/l	APHA 5220 C	54
7	Arsenic as as	mg/l	APHA 3114 B	<0.001
8	Mercury as Hg	mg/l	APHA 3500 Hg	< 0.001
9	Lead as Pb	mg/l	APHA 3111 B,C	< 0.01
10	Cadmium as Cd	mg/l	APHA 3111 B,C	< 0.003
11	Hexavalent Chromium as Cr ⁺⁶ . Max.	mg/l	APHA 3500Cr B	< 0.05
12	Copper as Cu	mg/l	APHA 3111 B,C	< 0.03
13	Zinc as Zn	mg/l	APHA 3111 B,C	< 0.05
14	Nickel as Ni	mg/l	APHA 3111 B,C	< 0.01
15	Cyanide as CN	mg/I	APHA 4500CN C,D	ND
16	Fluoride as F	mg/l	APHA 4500F C	0.19
17	Sulphide as S	mg/l	APHA 4500 S ² -D	< 0.01
18	Phenolic compound as C ₆ H ₅ OH, Max.	mg/l	APHA 5530 B,D	ND
19	Manganese as Mn	mg/l	APHA 3500Mn B	0.24
20	Total Iron as Fe	mg/l	APHA 3500Fe, B	0.82
21	Nitrate Nitrogen as N	mg/l	APHA 4500NO ₃ E	3.8

NB: ND- Not Detectable

Weard Authorized Signatory

Notes:

The results relate only to the sample tested.

Laboratory

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Report no. - CEMC/BOM/060219/W5

Issued Date-06.02,2019

WATER QUALITY TEST REPORT

Name & Address of the Client

Date of Sampling

Sampling by

Date of Sample Received

Sample Description

Sample Location

Reference No.

Date of Analysis

: M/s. SAIL-RMD, Bolani Ores Mines, Barbil

: 30.01.2019

: Santhosh Kumar Mohanty

: 31.01.2019

: Surface Water

: Panposh nallah within 5.10 ML

: 31.01.2019 to 06.02.2019

: CEMC-06022019W5

ANALYSIS RESULT

SI. No.	Test Parameters	Unit	Method of Testing	Result
1	pH Value @ 25°C		APHA 4500H* B	7.28
2	Total Suspended Solids	mg/l	APHA 2540 D	6.8
3	Oil & Grease	mg/I	APHA 5520 B	ND
4	Total Residual Chlorine	mg/l	APHA 4500CL B	ND
5	BOD for 5 days@ 20°C	mg/l	APHA 5210 B	7.6
6	Chemical Oxygen Demand	mg/l	APHA 5220 C	29
7	Arsenic as as	mg/l	APHA 3114 B	< 0.001
8	Mercury as Hg	mg/l	APHA 3500 Hg	< 0.001
9	Lead as Pb	mg/l	APHA 3111 B,C	< 0.01
10	Cadmium as Cd	mg/l	APHA 3111 B,C	< 0.003
11	Hexavalent Chromium as Cr ⁺⁶ Max.	mg/l	APHA 3500Cr B	< 0.05
12	Copper as Cu	mg/l	APHA 3111 B,C	< 0.03
13	Zinc as Zn	mg/l	APHA 3111 B.C	< 0.05
14	Nickel as Ni	mg/l	APHA 3111 B,C	< 0.01
15	Cyanide as CN	mg/l	APHA 4500CN C,D	ND
16	Fluoride as F	mg/l	APHA 4500F C	0.16
17	Sulphide as S	mg/l	APHA 4500 S ² -D	< 0.01
18	Phenolic compound as C ₆ H ₅ OH, Max.	mg/l	АРНА 5530 В,D	ND
19	Manganese as Mn	mg/l	APHA 3500Mn B	0.2
20	Total Iron as Fe	mg/l	APHA 3500Fe, B	0,26
21	Nitrate Nitrogen as N	mg/l	APHA 4500NO ₃ E	4.2

NB: ND- Not Detectable

Authorized Signatory

Notes:

The results relate only to the sample tested.

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Seal of Laboratory

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Report no. - CEMC/BOM/060219/W6

Issued Date-06.02.2019

WATER QUALITY TEST REPORT

Name & Address of the Client

Date of Sampling

Sampling by

Date of Sample Received Sample Description

Sample Location

Date of Analysis Reference No.

: M/s. SAIL-RMD, Bolani Ores Mines, Barbil

: 30.01.2019

: Santhosh Kumar Mohanty

: 31,01,2019

: Surface Water

: Limtur Nallah existing 6.90 ML before joining

: 31.01.2019 to 06.02.2019 : CEMC-06022019W6

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SL No.	Test Parameters	Unit	Method of Testing	Result
1	pH Value @ 25°C	40	APHA 4500H B	7.24
2	Total Suspended Solids	mg/l	APHA 2540 D	7.6
3	Oîl & Grease	mg/l	APHA 5520 B	ND
4	Total Residual Chlorine	mg/l	APHA 4500Cl, B	ND
5	BOD for 5 days@ 20°C	mg/l	APHA 5210 B	7.2
6	Chemical Oxygen Demand	mg/l	APHA 5220 C	26
7	Arsenic as as	mg/l	APHA 3114 B	< 0.001
8	Mercury as Hg	mg/l	APHA 3500 Hg	< 0.001
9	Lead as Pb	mg/l	APHA 3111 B,C	< 0.01
10	Cadmium as Cd	mg/l	APHA 3111 B,C	< 0.003
П	Hexavalent Chromium as Cr ⁺⁶ . Max.	mg/l	APHA 3500Cr B	<0.05
12	Copper as Cu	mg/l	APHA 3111 B,C	< 0.03
13	Zinc as Zn	mg/I	APHA 3111 B,C	< 0.05
14	Nickel as Ni	mg/l	APHA 3111 B,C	< 0.01
15	Cyanide as CN	mg/l	APHA 4500CN C,D	ND
16	Fluoride as F	mg/l	APHA 4500F C	0.18
17	Sulphide as S	mg/l	APHA 4500 S ² D	<0.01
18	Phenolic compound as C ₆ H ₅ OH, Max.	mg/l	APHA 5530 B,D	ND
19	Manganese as Mn	mg/l	APHA 3500Mn B	0.19
20	Total Iron as Fe	mg/l	APHA 3500Fe, B	0.28
21	Nitrate Nitrogen as N	mg/l	APHA 4500NO3 E	4.6

NB: ND- Not Detectable

Authorized Signatory

Seal of Laboratory inspinental

Notes:

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Report no. - CEMC/BOM/060219/W7

Issued Date-06.02.2019

WATER QUALITY TEST REPORT

Name & Address of the Client

Date of Sampling

Sampling by

Date of Sample Received Sample Description

Sample Location

Date of Analysis Reference No.

: M/s, SAIL-RMD, Bolani Ores Mines, Barbil

: 30.01.2019

: Santhosh Kumar Mohanty

:31.01.2019

: Surface Water

: Karoriver existing from 6.90 ML Lease

(after Limtur)

: 31.01.2019 to 06.02.2019

: CEMC-06022019W7

ANALYSIS RESULT

SL No.	Test Parameters	Unit	Method of Testing	Result
1	pH Value @ 25°C		APHA 4500H B	7.28
2	Total Suspended Solids	mg/l	APHA 2540 D	8.6
3	Oil & Grease	mg/l	APHA 5520 B	ND
4	Total Residual Chlorine	mg/l	APHA 4500Cl, B	ND
5	BOD for 5 days@ 20°C	mg/L	APHA 5210 B	6.8
6	Chemical Oxygen Demand	mg/l	APHA 5220 C	21
7	Arsenic as as	mg/l	APHA 3114 B	< 0.001
8	Mercury as Hg	mg/l	APHA 3500 Hg	< 0.001
9	Lead as Pb	mg/l	APHA 3111 B,C	< 0.01
10	Cadmium as Cd	mg/l	APHA 3111 B,C	< 0.003
11	Hexavalent Chromium as Cr ⁻⁶ . Max.	mg/l	APHA 3500Cr B	< 0.05
12	Copper as Cu	mg/l	APHA 3111 B,C	< 0.03
13	Zinc as Zn	mg/l	APHA 3111 B,C	< 0.05
14	Nickel as Ni	mg/l	APHA 3111 B,C	< 0.01
15	Cyanide as CN	mg/l	APHA 4500CN C,D	ND
16	Fluoride as F	mg/l	APHA 4500F C	0.14
17	Sulphide as S	mg/l	APHA 4500 S ² D	< 0.01
18	Phenolic compound as C ₆ H ₅ OH, Max.	mg/l	APHA 5530 B,D	ND
19	Manganese as Mn	mg/l	APHA 3500Mn B	0.18
20	Total Iron as Fe	mg/l	APHA 3500Fe, B	0.34
21	Nitrate Nitrogen as N	mg/l	APHA 4500NO3 E	4.1

NB: ND- Not Detectable

Authorized Signatory

Notes:

The results relate only to the sample tested.

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Report no. - CEMC/BOM/060219/W8

Issued Date-06.02.2019

WATER QUALITY TEST REPORT

Name & Address of the Client

Date of Sampling

Sampling by

Date of Sample Received Sample Description

Sample Location Date of Analysis Reference No.

: M/s, SAIL-RMD, Bolani Ores Mines, Barbil

: 30.01.2019

: Santhosh Kumar Mohanty

: 31.01.2019

: Ground Water

: Well Water of Bolani Village

: 31.01.2019 to 06.02.2019

: CEMC-06022019W8

ANALYSIS RESULT

SI. No.	Test Parameters	Unit	Method of Testing	Result
1	pH Value @ 25°C	-	APHA 4500H B	7.18
2	Total Suspended Solids	mg/l	APHA 2540 D	<5
3	Oil & Grease	mg/l	APHA 5520 B	ND
4	Total Residual Chlorine	mg/l	APHA 4500CL B	ND
5	BOD for 5 days@ 20°C	mg/l	APHA 5210 B	<2
6	Chemical Oxygen Demand	mg/l	APHA 5220 C	<10
7	Arsenic as as	mg/l	APHA 3114 B	< 0.001
8	Mercury as Hg	mg/l	APHA 3500 Hg	< 0.001
9	Lead as Pb	mg/l	APHA 3111 B,C	< 0.01
10	Cadmium as Cd	mg/l	APHA 3111 B,C	< 0.003
11	Hexavalent Chromium as Cr ⁻⁶ , Max.	mg/l	APHA 3500Cr B	<0.05
12	Copper as Cu	mg/I	APHA 3111 B,C	< 0.03
13	Zinc as Zn	mg/l	APHA 3111 B,C	< 0.05
14	Nickel as Ni	mg/l	APHA 3111 B,C	< 0.01
15	Cyanide as CN	mg/l	APHA 4500CN C,D	ND
16	Fluoride as F	mg/l	APHA 4500F C	0.22
17	Sulphide as S	mg/l	APHA 4500 S ² -D	< 0.01
18	Phenolic compound as C ₆ H ₅ OH, Max.	mg/l	APHA 5530 B,D	ND
19	Manganese as Mn	mg/l	APHA 3500Mn B	<0,05
20	Total Iron as Fe	mg/l	APHA 3500Fe, B	0.22
21	Nitrate Nitrogen as N	mg/l	APHA 4500NO ₃ E	1.24
22	GW Level	mt.		3.14

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Notes:

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Report no. - CEMC/BOM/060219/W9

Issued Date-06.02,2019

WATER QUALITY TEST REPORT

Name & Address of the Client

Date of Sampling

Sampling by

Date of Sample Received

Sample Description

Sample Location

Date of Analysis Reference No.

: M/s. SAIL-RMD, Bolani Ores Mines, Barbil

: 30.01.2019

: Santhosh Kumar Mohanty

: 31.01.2019

: Ground Water

: Well Water of Balagoda Village

: 31.01.2019 to 06.02.2019

: CEMC-06022019W9

ANALYSIS RESULT

SI. No.	Test Parameters	Unit	Method of Testing	Result
1	pH Value @ 25°C	-	APHA 4500H* B	6.92
2	Total Suspended Solids	mg/l	APHA 2540 D	<5
3	Oil & Grease	mg/l	APHA 5520 B	ND
4	Total Residual Chlorine	mg/l	APHA 4500Cl, B	ND
5	BOD for 5 days@ 20°C	mg/l	APHA 5210 B	<2
6	Chemical Oxygen Demand	mg/l	APHA 5220 C	<10
7	Arsenic as as	mg/l	APHA 3114 B	<0,001
8	Mercury as Hg	mg/l	APHA 3500 Hg	< 0,001
9	Lead as Pb	mg/l	APHA 3111 B,C	< 0.01
10	Cadmium as Cd	mg/l	APHA 3111 B,C	< 0.003
11	Hexavalent Chromium as Cr ²⁶ Max	mg/l	APHA 3500Cr B	< 0.05
12	Copper as Cu	mg/l	APHA 3111 B,C	< 0.03
13	Zinc as Zn	mg/l	APHA 3111 B.C	< 0.05
14	Nickel as Ni	mg/l	APHA 3111 B,C	< 0.01
15	Cyanide as CN	mg/1	APHA 4500CN C,D	ND
16	Fluoride as F	mg/l	APHA 4500F C	0.24
17	Sulphide as S	mg/l	APHA 4500 S ² D	< 0.01
18	Phenolic compound as C ₆ H ₅ OH, Max.	mg/l	APHA 5530 B,D	ND
19	Manganese as Mn	mg/l	APHA 3500Mn B	< 0.05
20	Total Iron as Fe	mg/l	APHA 3500Fe, B	0.26
21	Nitrate Nitrogen as N	mg/l	APHA 4500NO3 E	1.42
22	GW Level	mt.		6 08

NB: ND- Not Detectable

Authorized Signatory

Notes:

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Report no. - CEMC/BOM/060219/W10

Issued Date-06.02,2019

WATER QUALITY TEST REPORT

Name & Address of the Client

Date of Sampling

Sampling by

Sample Location Date of Analysis

Reference No.

Date of Sample Received

: M/s. SAIL-RMD, Bolani Ores Mines, Barbil

: 30.01.2019

: Santhosh Kumar Mohanty

: 31.01.2019

: ETP Outlet in CBRS : 31.01.2019 to 06.02.2019

: CEMC-06022019W10

ANALYSIS RESULT

SI, No.	Test Parameters	Unit	Method of Testing	Result
1	pH Value @ 25°C		APHA 4500H B	7.12
2	Total Suspended Solids	mg/I	APHA 2540 D	8.6
3	Oil & Grease	mg/l	APHA 5520 B	ND
4	Total Residual Chlorine	mg/l	APHA 4500Cl, B	ND
5	BOD for 5 days@ 20°C	mg/l	APHA 5210 B	4.8
6	Chemical Oxygen Demand	mg/l	APHA 5220 C	18
7	Arsenic as as	mg/l	APHA 3114 B	< 0.001
8	Mercury as Hg	mg/l	APHA 3500 Hg	< 0.001
9	Lead as Pb	mg/l	APHA 3111 B,C	< 0.01
10	Cadmium as Cd	mg/l	APHA 3111 B,C	< 0.003
11	Hexavalent Chromium as Cr ⁺⁶ , Max.	mg/l	APHA 3500Cr B	< 0.05
12	Copper as Cu	mg/l	APHA 3111 B,C	< 0.03
13	Zinc as Zn	mg/l	APHA 3111 B,C	< 0.05
14	Nickel as Ni	mg/l	APHA 3111 B,C	< 0.01
15	Cyanide as CN	mg/l	APHA 4500CN C.D	ND
16	Fluoride as F	mg/l	APHA 4500F C	0.07
17	Sulphide as S	mg/l	APHA 4500 S ² D	< 0.01
18	Phenolic compound as C ₆ H ₅ OH, Max.	mg/l	APHA 5530 B.D	ND
19	Manganese as Mn	mg/l	APHA 3500Mn B	0.18
20	Total Iron as Fe	mg/l	APHA 3500Fe, B	0.38
21	Nitrate Nitrogen as N	mg/l	APHA 4500NO ₃ E	3.2

NB: ND- Not Detectable

Authorized Signatory

Notes:

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Report no. - CEMC/BOM/060219/W11

Issued Date-06,02,2019

WATER QUALITY TEST REPORT

Name & Address of the Client

Date of Sampling

Sampling by

Date of Sample Received

Sample Location Date of Analysis Reference No.

: M/s. SAIL-RMD, Bolani Ores Mines, Barbil

: 30.01.2019

: Santhosh Kumar Mohanty

: 31.01.2019

: Taling pond Seepage Water : 31.01.2019 to 06.02.2019 : CEMC-06022019W11

ANIAT MOTO DECITE T

SI. No.	Test Parameters	Unit	Method of Testing	Result
1	pH Value @ 25°C	uw.	APHA 4500H° B	7.48
2	Total Suspended Solids	mg/l	APHA 2540 D	10.8
3	Oil & Grease	mg/l	APHA 5520 B	ND
4	Total Residual Chlorine	mg/l	APHA 4500Cl, B	ND
5	BOD for 5 days@ 20°C	mg/l	APHA 5210 B	5.2
6	Chemical Oxygen Demand	mg/l	APHA 5220 C	26
7	Arsenic as as	mg/l	APHA 3114 B	< 0.001
8	Mercury as Hg	mg/l	APHA 3500 Hg	< 0.001
9	Lead as Pb	mg/l	APHA 3111 B,C	< 0.01
10	Cadmium as Cd	mg/l	APHA 3111 B,C	< 0.003
1.1	Hexavalent Chromium as Cr ⁺⁶ . Max.	mg/l	APHA 3500Cr B	< 0.05
12	Copper as Cu	mg/l	APHA 3111 B,C	< 0.03
13	Zinc as Zn	mg/l	APHA 3111 B,C	< 0.05
14	Nickel as Ni	mg/l	APHA 3111 B,C	< 0.01
15	Cyanide as CN	mg/l	APHA 4500CN C,D	ND
16	Fluoride as F	mg/l	APHA 4500F C	0.16
17	Sulphide as S	mg/l	APHA 4500 S ² D	<0.01
18	Phenolic compound as C ₆ H ₅ OH, Max.	mg/l	APHA 5530 B,D	ND
19	Manganese as Mn	mg/l	APHA 3500Mn B	0.28
20	Total Iron as Fe	mg/l	APHA 3500Fe, B	0.24
21	Nitrate Nitrogen as N	mg/l	APHA 4500NO ₃ E	2.8

NB: ND- Not Detectable



Notes:

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Report no. - CEMC/BOM/060219/W12

Issued Date-06.02.2019

WATER QUALITY TEST REPORT

Name & Address of the Client

Date of Sampling

Sampling by

Date of Sample Received

Sample Description

Sample Location Date of Analysis

Reference No.

: M/s. SAIL-RMD, Bolani Ores Mines, Barbil

: 30.01.2019

: Santhosh Kumar Mohanty

:31,01.2019

: Drinking Water

: Township Supply Water (Mount GH)

: 31.01.2019 to 06.02.2019

: CEMC-06022019W12

ANALYSIS RESULT

SL No.	Test Parameters	Unit	Method of Testing	Result
1	pH Value @ 25°C	**	APHA 4500H B	7.24
2	Total Suspended Solids	mg/l	APHA 2540 D	<5
3	Oil & Grease	mg/l	APHA 5520 B	ND
4	Total Residual Chlorine	mg/l	APHA 4500CI, B	ND
5	BOD for 5 days@ 20°C	mg/l	APHA 5210 B	<2
6	Chemical Oxygen Demand	mg/l	APHA 5220 C	<10
7	Arsenic as as	mg/l	APHA 3114 B	< 0.001
8	Mercury as Hg	mg/l	APHA 3500 Hg	< 0.001
9	Lead as Pb	mg/l	APHA 3111 B,C	< 0.01
10	Cadmium as Cd	mg/l	APHA 3111 B,C	< 0.003
11	Hexavalent Chromium as Cr ⁻⁶ , Max.	mg/l	APHA 3500Cr B	< 0.05
12	Copper as Cu	mg/l	APHA 3111 B,C	< 0.03
13	Zinc as Zn	mg/l	APHA 3111 B,C	< 0.05
14	Nickel as Ni	mg/l	APHA 3111 B,C	< 0.01
15	Cyanide as CN	mg/l	APHA 4500CN C,D	ND
16	Fluoride as F	mg/l	APHA 4500F C	< 0.05
17	Sulphide as S	mg/l	APHA 4500 S ² D	< 0.01
18	Phenolic compound as C ₆ H ₅ OH, Max.	mg/l	APHA 5530 B,D	ND
19	Manganese as Mn	mg/l	APHA 3500Mn B	< 0.05
20	Total Iron as Fe	mg/l	APHA 3500Fe, B	0.29
21	Nitrate Nitrogen as N	mg/l	APHA 4500NO ₃ E	1.36

NB: ND- Not Detectable

Authorized Signatory

Notes:

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Manager

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OFFICE OF THE PRINCIPAL CHIEF CONSERVATOR OF FORESTS (WILDLIFE) & CHIEF WILDLIFE WARDEN, ODISHA

Department of Forest and Environment, Government of Odisha

No. / 1WL-FC-Mrl-SSP-228/2018 Dated, Bhubaneswar the Nov, 2018

То

The General Manager (Mines), SAIL-RMD-Bolani Ores Mines, Bolani, Keonjhar, Odisha, PIN - 758037

Sub:

Bolani Ores Mines (6.90 sq miles) of M/s Steel Authority of India Ltd. In Keonjhar district of Odisha – Approval of Site Specific Wildlife Conservation Plan

Sir,

It is to inform that you have to implement a Site Specific Wildlife Conservation Plan for Bolani Ores Mines (6.90 sq mile) in Keonjhar district of Odisha in compliance to Specific Condition No.(ix) of the environmental clearance granted by Govt. of India, MoEF in their letter No.J-11015/396/2008-IA.II(M) dated 21.12.2012.

- 2. The Site Specific Wildlife Conservation Plan in respect of the above project has been approved by the undersigned with financial forecast of ₹1088.431 lakh (Rupees ten crore eighty-eight lakh forty-three thousand one hundred) only for the following activities.
 - a. For activities to be implemented by the user agency in project area

₹315.432 lakh

b. For activities to be implemented in project impact area

₹772.999 lakh

Grand Total:

₹1088.431 lakh

- 3. Various activities in the project area will be executed by the Project proponent under the guidance of the Divisional Forest Officer, Keonjhar Division. A sum of ₹772.999 lakh only may be deposited in the CAMPA fund meant for the purpose for implementation of various activities within the project impact area by the Forest Deptt. as envisaged in the plan.
- 4. You may please note the following conditions for future compliance.
 - This Plan may be revisited after 5 years and the User Agency will give undertaking to contribute towards the revised cost of the conservation plan till the project period, if any.
 - The project proponent has to prepare and submit the Conservation Plan for the next 10 years. If there would be need for Site Specific Wildlife Conservation Plan after expiry of the present plan period, the user agency will have to submit another such plan at least one year before the expiry of the present Conservation Plan and deposit the outlay amount upon its approval. In case of delay, it will be dealt as per law for violations of Forest Conservation Act, 1980 and Environment (Protection) Act, 1986.

The project proponent has to give an undertaking to bear the differential cost in case of enhancement of wage rate at the time of implementation of this plan.

Yours faithfully

2 copies of approved site specific WL Conservation Plan

> Principal Chief Conservator of Forests (WL) & Chief Wildlife Warden, Odisha

Memo No. 1068/ /date 22/4/18

Copy forwarded for information and necessary action to -

- 1. Special Secretary to Govt. of Odisha, F&E Deptt., Bhubaneswar with reference to that Deptt. memo No.10F(Con)255/2016/20260/F&E dt 03.10.2017
- 2. Principal Chief Conservator of Forests, Odisha with reference to his memo No.21988 dt 12.10.2017
- 3. Regional Chief Conservator of Forests, Rourkela Circle with reference to his memo No.3236 dt 15.10.2018
- 4. Divisional Forest Officer, Keonjhar Division alongwith copy of the approved site specific wildlife conservation plan with reference to memo No.3236 dt 15.10.2018 of RCCF, Rourkela Circle

Principal Chief Conservator of Forests (WL) & Chief Wildlife Warden, Odisha

The project proponent has to give an undertaking to bear the differential cost in case of enhancement of wage rate at the time of implementation of this plan.

Yours faithfully

2 copies of approved site specific WL Conservation Plan

> Principal Chief Conservator of Forests (WL) & Chief Wildlife Warden, Odisha

Memo No. 10684 /date 274/18

Copy forwarded for information and necessary action to -

- 1. Special Secretary to Govt. of Odisha, F&E Deptt., Bhubaneswar with reference to that Deptt. memo No.10F(Con)255/2016/20260/F&E dt 03.10.2017
- 2. Principal Chief Conservator of Forests, Odisha with reference to his memo No.21988 dt 12.10.2017
- 3. Regional Chief Conservator of Forests, Rourkela Circle with reference to his memo No.3236 dt 15.10.2018
- 4. Divisional Forest Officer, Keonjhar Division alongwith copy of the approved site specific wildlife conservation plan with reference to memo No.3236 dt 15.10.2018 of RCCF, Rourkela Circle

Principal Chief Conservator of Forests (WL) & Chief Wildlife Warden, Odisha