

STEEL AUTHORITY OF INDIA LTD. (A Govt. of India Enterprise)
Regd. Office: Ispat Bhawan,
Lodhi Road, New Delhi – 110 003

BOKARO STEELPLANT KIRIBURU IRON ORE MINE P.O. KIRIBURU – 833 222 DIST. SINGHBHUM (W), JHARKHAND

Ref No.: CGM/KIOM/21-22/2321

Date: 16.11.2021

To,
Regional Office (ECZ)
Ministry of Environment, Forest & Climate Change
Bungalow No. A-2, Shyamali Colony
Ranchi- 834002

Sub: Six Monthly Compliance of the Conditions stipulated in Environmental Clearance of Kiriburu- Meghahatuburu Iron Ore Mines for the period April-2021 to September-2021

Sir,

We are hereby submitting status of compliance for the period April-2021 to September-2021to the conditions stipulated in the Environmental Clearance granted by MoEF&CC vide No- J-11015/272/2007-IA.II (M) dated 23.09.2014 for Kiriburu- Meghahatuburu Iron Ore Mines for production capacity of 16 MTPA (ROM) of Iron Ore & vide No- J-11015/272/2007-IA.II (M) dated 30.07.2020 for Tailing Excavation & Selling from Kiriburu- Meghahatuburu Iron Ore Mines- 1 MTPA from each Mine within 16 MTPA capacity.

A Soft copy of compliance report in a form of CD is also enclosed.

Thanking you.

Yours faithfully, For Steel Authority of India Limited,

प्रमलेश राव / KAMLESH RAI

मुख्य महाप्रबंधक (खान)

Chief General Manager (Mines) 16.11.2021

कि.लो.अ.ख., वी.एम.एल, मेल

KIOM BSL, SAIL (Kamlesh Rai)

Chief General Manager (Mines)

Kiriburu Iron Ore Mines

Bokaro Steel Plant

Encl: Compliance Report & Annexure Copy:

- 1) Director, IA, MoEF&CC, GOI, Indira Paryavaran Bhavan, Aliganj, JorBagh Road, New Delhi- 110 003.
- 2) Member Secretary, JSPCB, HEC, Dhurwa, Ranchi- 834 004
- 3) In- Charge, Eastern Zone, CPCB, Southern Conclave, Block 502, 5th & 6th Floors, 1582, Rajdanga Main Road, Kolkata 700 107 (W.B.)

Status of Compliance to Conditions Stipulated in Environmental Clearance granted by MoEF& CC Vide order no. J-11015/272/2007-IA. II (M) dated 23.09.2014

&

Vide order no. J-11015/272/2007-IA. II (M) dated 30.07.2020

of

Kiriburu - Meghahatuburu Iron Ore Mine

(Period: April'2021 to September'2021)



STEEL AUTHORITY OF INDIA LIMITED

BOKARO STEEL PLANT
KIRIBURU - MEGHAHATUBURU IRON ORE MINES
P.O. - KIRIBURU, PIN :833222
DIST.: SINGHBHUM (WEST)
JHARKHAND STATE

Status of Compliance to Conditions Stipulated in Environmental Clearance (Vide order no. J-11015/272/2007-IA. II (M), dt.23.09.2014) & (Vide order no. J-11015/272/2007-IA. II (M) dated 30.07.2020) of

Kiriburu - Meghahatuburu Iron Ore Mines, RMD, SAIL. (Period: April'2021 to September'2021)

A. Specific Conditions

Cond. No.	Condition Stipulated	Compliance Status as on September'2021
(1)	Environment clearance is subjected to obtaining clearance, if any, under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to this project.	 No notified National Park / Wildlife Sanctuary / Biosphere Reserve / Tiger Reserve are located within 10 kms from the Mining Lease boundary. Hence it is not applicable to this mining project.
(11)	No Mining activities will be allowed in forest area for which the Forest clearance is not available.	 Mining activities have been restricted to 726.09 ha for which forest clearances have been obtained from MoEF&CC.
(iii)	The Project proponent will seek and obtain approval under the FC Act, 1980 for diversion of the entire forest land located within the mining lease within a period of the two years from 01.02.2013 i.e. the date of issue of guidelines by FC vide there letter F. No 11-362/2012-FC, failing which the mining lease area will be reduced to the non-forest area plus the forest area for which the project proponent has been able to obtain the FC at the end of this period. The case of reduction in mine lease area, the project proponent will need to get a revised mining plan approved from the competent authority for reduced area and enter into a new mining lease as per reduced lease area. The EC will be construed to be available for the mining lease area as per the revised mining lease deed.	 MoEF&CC vide F.No.11-599/2014-FC, dated 01.04.2015 has issued revised guidelines by suppression of the guideline issued vide F. No. 11-362/2012-FC, dated 01.02.2013. AS per these revised guidelines, in case of existing mining leases in part or in full, where approval under Section 2 of FC Act for a part of the forest land has only been obtained, Central Government accorded general approval under Section 2(iii) of the FC Act for the remaining area of the forest land falling within such mining leases and directed State Governments to realize NPV from the user agency within a period of one year from the date of issue of this letter for entire forest land falling in the mining lease, in case NPV of such forest land has not already been realised. Subsequently, MoEF&CC vide guidelines dated 31.03.2016, extended the dead line for payment of NPV up to 30.09.2016. NPV amount of Rs. 91,74,32,187/- (Rupees Ninety-one crore seventy-four lakh thirty-two thousand one hundred eighty-seven) was deposited on 22.10.2019 through RTGS by UTR no. SBINR52019102200122381 in Jharkhand

Period: April'2021 to September'2021

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R. P. SELVAM C.G.M. (M) MICM



Kiriburu - Meghahatuburu

Cond. No.	Condition Stipulated	Compliance Status as on September'2021
		CAMPA fund for the balance forest area 879.609 ha of amalgamated lease of Kiriburu- Meghahatuburu Iron Ore Mines under protest without prejudice to its right and contentions in Writ Petition WP(C) No. 5695 of 2016. ANNEXURE 1- PAYMENT RECIEPT OF NPV PAID TOWARDS CAMPA FUND
(iv)	The project proponent shall complete all the tasks as per the action plan submitted with budgetary provisions during the public hearing held on 24.11.2012. Major issues raised during public hearing were related to employment of tribal villagers on priority basis, financial assistance to village women so that they can be self-employed, clean water availability, construction of a bridge over Koina River at Kumdi village, environmental protection measures, construction of Pucca road for villagers and repair of roads in the region.	Kiriburu-Meghahatuburu Iron Ore Mines have taken up the task for engaging tribal from local villages through 4 nos. of registered Co-operative Labour Societies at mines. The Self Employment Centers i.e., KIRAN at Kiriburu and "SOUBHAGYA" at Meghahatuburu have expanded its coverage and marketing tie-ups with other units of SAIL and jharcraft to make the market sustainability of products manufactured. ANNEXURE 2- PHOTOGRAPHS OF SELF EMPLOYMENT CENTER AT KIOM & MIOM. SAIL During Global Pandemic COVID 19, a huge quantity of Cotton Face Mask has been weaved by the women at KIRAN and SOUBHAGYA self-employment centers and have been distributed among local people free of cost under CSR activity. Food packets has been distributed among the local people of peripheral village inside the forest area (Karampada, Thalkobad) during the vaccination drive for the motivational purposes to increase maximum number of participation. ANNEXURE 3- FACE MASKS & FOOD PACKETS DISTRIBUTION UNDER CSR INITIATIVES DURING COVID-19 PANDEMIC BY KIOM-MIOM SAIL For MIOM = 10 nos. of students for 2020-22 (2 years) & 10 nos. of students for 2021-23(2 years) from IOM have been sponsored for ITI course to ITI, Rourkela (Cost to company/Expenditure-Rs.45000/ per student per year-valuing Rs. 10

Period: April'2021 to September'2021

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Cond. No.	Condition Stipulated	Compliance Status as on September'2021
		Lakhs/year; Costing Rs 5 Lakhs in six months for MIOM including transportation arrangements). For KIOM- 10 nos. of students for 2020-22 (2 years) & 10 nos. of students for 2021-23 (2 years) from KIOM have been sponsored for ITI course to ITI Rourkela (Cost to company/Expenditure Rs.45000/ per student per year- valuing Rs.4 Lakh/year; Costing Rs 4.5 Lakh in six months for KIOM). For clean drinking water, tube wells with hand pumps have been provided at the surrounding villages- ANNEXURE 4- CLEAN RO DRINKING WATER, HAND PUMPS HAVE BEEN PROVIDED AT THE SURROUNDING VILLAGES BY KIOM & MIOM, SAIL Bridge over Koina river at Kumdih Village has already been constructed by KIOM-MIOM. ANNEXURE 5- BRIDGE OVER KOINA RIVER AS KUMDIH VILLAGE HAS BEEN CONSTRUCTED BY KIOM-MIOM, SAIL
(v)	The Project proponent shall obtain necessary prior permission of the competent authority for drawl of requisite quantity of surface water and ground water for the project.	Kiriburu-Meghahatuburu Iron Ore Mines are using only surface water for domestic & industrial purposes. \ Permission exists for water drawl from Kare River. Water drawl permission from River Koina has been obtained from Water Resource Depth Government of Jharkhand dated 20.09.2017 Letter No 2/PMC/WS-549/2017-448.Wate drawl' agreement signed between SAIL and Govt of Jharkhand. ANNEXURE 6- WATER AGREEMENT BETWEEN KIOM-MIOM. SAIL & WATER RESOURCE DEPARTMENT, GOVT. OF JHARKHAND
(vi)	Implementation of the site-specific conservation plan for the core & buffer	As per prevailing practice of the state fores department a scheme for Protection 8





Cond. No.	Condition Stipulated	Compliance Status as on September'2021
	zone and Integrated Wild Life conservation plan which is being prepared by the Dept. of Forest, Govt of Jharkhand. Abiding the guidelines of this Integrated Wild Life Conservation Plan and accordingly contribute proportionately in the preparation and implementation of the Plan.	Conservation of Forest and Wild life habita including Anti-Depredation measures and Eco development activities for villagers for a period of ten years in the district of Singhbhum (West) and applicable for Kiriburu Meghahatuburu group of Mines was prepared by Chief Wildlife Warden, Govt. of Jharkhand. For implementation of the above scheme for Kiriburu-Meghahatuburu mines, SAIL has deposited an amount of Rs.6, 21, 44,836.00 for implementation of the scheme as per demand raised by Divisional Forest Officer, Saranda Forest Division. Integrated Wildlife Management Plan for West Singhbhum District was prepared by an Expert Committee constituted by the Govt. of Jharkhand vide notification dated 27.08.2011. As per the notification constituting the committee, SAIL was assigned responsibility for institutionalizing and funding the study. The said Plan is completed in respects and is ready for implementation by the Jharkhand State Forest Dept. In this regard, SAIL has already submitted an undertaking to abide by the guidelines and contribute fund for implementation of Integrated Wildlife Management Plan in entire lease hold area, on pro rata basis. In addition to the above, a consultant has been engaged for preparation of Site-Specific Wildlife and Biodiversity Conservation plan for Amalgamated Lease of Kiriburu-Meghahatuburu Iron Ore Mines. The aforementioned consultant has prepared the draft report for site-specific wildlife & biodiversity conservation plan associated with the amalgamated mining lease area of Kiriburu-Meghahatuburu iron ore mines, Draft report has been presented before DFO Saranda on 11/06/2021 which is been

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Cond.	Condition Stipulated	Compliance Status as on September'2021
		provisionally approved with some modification. Again modified report has been presented before RCCF, Jamshedpur on 07/09/2021, where it is been provisionally approved and the plan is under approval stage before PCCF, Wildlife, Ranchi.
		 In the draft Site-Specific Wildlife and Biodiversity Conservation Plan various structures has been proposed such as Rain Water Harvesting, Weed Removal, Avenual Plantation, Gap Filling, Wildlife Rescue Team Mobile QRT, Artificial Bird Nest, Bird Bath a various locations in Township and mining Area of KIOM-MIOM.
		 All the measures suggested will be implemented at the project cost. It is undertaken that a copy of action plan will be submitted to the MOEF&CC and its Regional office. ANNEXURE 7- WORK ORDER COPY OF CEMC. BHUBNESHWAR FOR SITE- SPECIFIC WILDLIFE AND BIODIVERSITY CONSERVATION PLAN FOR KIRIBURU-MEGHAHATUBURU IRON ORE MINES
(vii)	The Mining operation shall be restricted to above ground water table and it should not intersect ground water table. In case of working below ground water table, prior approval of the Ministry of Environment & Forests and Central Ground Water Authority shall be obtained, for which a detailed hydro-geological study shall be carried out.	 Water table level at Kiriburu - Meghahatuburu mining lease area is in the range of 537 m AMSI and present working depths at Kiriburu and Meghahatuburu Mines are 780 m above MSL and 760 m above MSL respectively. Hence there is no interference of Mine workings with the ground water table. Due to any reason if it is required to work below the groundwater table, we will obtain prior approval of the Ministry of Environment, Forest & Climate Change and the Central Ground Water Authority shall be obtained, for which a detailed hydro-geological study will be carried out.
(viii)	The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be	Ore transportation through closed conveyers within the leasehold area at the Ore Processing Plant and final dispatch to Steel Plants through





Cond. No.	Condition Stipulated	Compliance Status as on September'2021
NO.	done regularly. Vehicles with PUCC only will be allowed to ply. The mineral transportation shall be carried out through trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate from all the vehicles from authorized pollution testing center.	rakes has been adopted to minimize the pollution from the transportation of ore Photographs showing the covered. ANNEXURE 8- PHOTOGRAPHS SHOWING THE COVERED CONVEYOR TRANSPORTING IRON OR AT KIOM-MIOM. SAIL. Transportation of ore from mine face to ore processing plant is being done by high capacity (9.5 Cu.M) Shovel— (100 T) Dumper combination to reduce nos. of vehicle plying and thus reduce generation of dust through Mine haul roads. 28 KL High Pressure Water Sprinklers are being used for effectively controlling haul road dust emission at the both the mines. All these vehicles are being maintained in good condition to control vehicular emissions. PUG certificate has been obtained from authorized Pollution testing center for different categories of Vehicle running within the lease. Moreover, permanent Water sprinkling arrangement in permanent haul road installed in being operated. Dry Fog Dust Suppression System has been installed at Hopper and Crushing Unit in Mineral Separation Plant. ANNEXURE 9- PHOTOGRAPH SHOWING THE DUST SUPPRESSION THROUGH WATER SPRINKLERS AND DRY FOG DUST SUPPRESSION SYSTEM AT KIOM MIOM, SAIL.
(ix)	Plantation on the OB dump slopes has to be increased and manage properly. House- keeping should be improved in processing area.	During the year 2021-22, during APRIL 2021 TO SEPTEMBER 2021, 1200 nos. of saplings were planted and maintained on OB dump. Backfilled area and lease area & watered regularly. To prevent soil erosion and effective plantation over the dump slopes. Housekeeping at the ore processing plants have been improved at both the mines through adoption of regular cleaning of spillages at various points, timely repair & maintenance of

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No. Condition Stipulated	Compliance Status as on September 2021
Cond. Condition Stipulated	rollers / conveyer belts, awareness training of housekeeping practices, etc. 2 No. of MoUs have been signed between SAI RMD Kiriburu Iron Ore Mine and Meghahatubur Iron Ore Mine for the Eco-Restoration of backfilled mine pits on both the mines. Total project cost will be 99.34 Lakhs for Meghahatuburu Iron Ore Mine for 8.5 Ha of backfilled area. For Kiriburu Iron Ore Mine: Area of Eco Restoration will be 10 Ha, The IFP will provide technology and services along with the expenditure of restoration as per the All Indice Coordinated Research Project (AICRP "Combating Desertification by Enhancing Vegetation Cover & People Livelihood is Degraded Dry Lands & Deserts of India" under objective "Restoration of Mine, degraded hillshill slopes, sand dunes, ravines and saline area through introduction of new genotypes varieties/ species and natural resource conservation in different landscapes". A team of 6 Officials of Forest Ecology & Climat Change Division, Institute of Forest Productivity Ranchi visited the Kiriburu Iron Ore Mine during 23/06/2021-25/06/2021 regarding the preparatory work for Rehabilitation of slopes in the coming months of 10 Ha of mined ou backfilled area. A team of officers of E&L, Mining & Survey Department from Kiriburu Iron Ore Mine was also deployed for necessary coordination with the officials of IFP, Ranchi. For aforementioned purpose, team of official visited & surveyed the backfilled area situated a Hill-1 of Kiriburu mine pit. They have selected and measured the slope of backfilled area nea already planted area for the plantation purposes Various activities have been planned like ploughing of Trenches & Digging of Pits for plantation and soil erosion control purposes and plantation on slopes during July 2021. Planning for irrigation water was also done in coordination with Officials of IFP, Ranchi & KiOM Sail.

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Kiriburu - Meghahatuburu

Cond. No.	Condition Stipulated	so that the plantation activities for next year will be smoothen. • A team of 3 Officials of Forest Ecology & Climate Change Division, Institute of Forest Productivity, Ranchi along with 2 Technical Field Staffs visited the Kiriburu Iron Ore Mines during 26/07/2021-27/07/2021 regarding the Plantation of Plant Saplings for Rehabilitation of slopes for 10 Ha of mined out backfilled area. A team of officers of E&L, Mining & Survey Department from Kiriburu Iron Ore Mine was also deployed for necessary co-ordination with the officials of IFP, Ranchi. • 394 No of plant sapling have been planted on the sloped of 10ha of mined out backfilled area. Apart from this, 39 existing plants have been replaced by the officials of IFP, Ranchi which was having mortality. Details of Plant species planted are as follows: -	
		Local Name of	Scientific Names
		गुलमोहर	Delonix regia
		वकाइन	Melia azedarach
		आकाशमनी	Acacia auriculiformis
		कांटा चाँस	Bambusa bamboos
		Hadge बास	Bambusa multiplex
		कागज फूल	Baugainvillea
		Agave	Agave
		TOWNSHIP & COIL	PHOTOGRAPH SHOWING ARIOUS LOCATIONS OF MINES, R MATTING & COPY OF MOU RMD, SAIL KIOM & IFP RANCHI ATION ON MINED OUT AREA
(x)	There are about 850 households in the township for both MIOM and KIOM mines. A full-fledged sewage treatment plant should be set up by the project in the colony. The oil & grease trap at the workshop at both the mines should have a	sewerage from the colonies have been supported by Further Installa	ition of full-fledged Sewage covering both MIOM and KIOM

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Cond.	Condition Stipulated	Compliance Status as on September 2021
	covered shed. A separate pit should be constructed to retain the treated water which should be reused for washing purpose instead of discharging into natural course.	ANNEXURE 11- WORK ORDER COPY FOR CONSTRUCTION OF 3 NUMBER OF SEWAGE TREATMENT PLANTS FOR TOWNSHIP HOUSEHOLDS AT KIOM-MIOM, SAIL. • ETPs consisting oil & grease traps have been provided to arrest oil from the workshop effluents. These ETP areas have been covered with sheds. The treated effluent from these ETPs is being collected and used for plantation / dust suppression at haul roads. ANNEXURE 12- EFFLUENT TREATMENT & DISPOSAL FACILITY FOR USED OIL AT KIOM-MIOM. SAIL
higher particu	Project shall identify the causes for the higher particulate matter and take appropriate mitigative measures. Project shall start monitoring PM2.5.	 All the dust generating sources have been identified at both Kiriburu and Meghahatuburu Mines. The existing dust control measures at these dust prone areas have been augmented for controlling the fugitive dust emissions. The following measures have been augmented for controlling fugitive dust emissions: Dry fog dust suppression systems at ore unloading hoppers have been revamped through replacing nozzles. Additional dry-fog dust suppression systems have
		been provided at transfer points and screening areas. > Wet drilling facilities with the Drill Machines have
		 been revamped. Increased frequency of Haul Road Sprinkling based on the weather conditions.
		Additional permanent water sprinkling arrangement has also been provided in permanent haul roads of Mines near hopper to reduce fugitive dust.
		 In addition to the above, new dust suppression systems at Tertiary Crushers, Screens, ore handling areas, etc., are under progress at both Kiriburu and Meghahatuburu mines. Monitoring PM2.5 in ambient air has already





Kiriburu - Meghahatuburu

Cond. No.	Condition Stipulated	Compliance Status as on September'2021
		been started. The PM2.5 in the ambient ranges from 16 to 47 ug/m³. ANNEXURE 9- PHOTOGRAPH SHOWING THE DUST SUPPRESSION THROUGH WATER SPRINKLERS AND DRY FOG DUST SUPPRESSION SYSTEM AT KIOM-MIOM. SAIL.
(xii)	Project should ensure that all the workers wear safety devices.	 Safety device like Safety Shoe, certified helmet & ear muff etc. are provided to all workers making the workplace safe includes providing instructions, procedures, training and supervision to encourage people to work safely and responsibly. Wearing safety devices including personal protective equipments (PPEs) for all the workmen is being ensured. Necessary instructions have also been displayed at prominent areas in the mines. All the Heads of the Departments (HODs) have been instructed to ensure wearing of safety devices by workmen in their respective departments. The same is being reviewed in the review meetings held on monthly basis. ANNEXURE 13- PHOTOGRAPHS SHOWING EMPLOYES & WORKERS WEARING PERSONAL PROTECTIVE EQUIPMENTS AT KIOM-MIOM, SAIL.
(xiii)	The project proponent shall obtain consent to operate from the state pollution control board, Jharkhand and effectively implement all the conditions stipulated therein.	 Consent to operate (CTO) under section 25 /26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981 has been obtained on 24.12.2019 for 16 MTPA capacities vide letter no. JSPCB/HO/RNC/CTO-5913229/2019/2540with validity up to 31.12.2024 Consent to operate (CTO) under section 25 /26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981 has been obtained on 07.12.2020 for Tailing Disposal from Meghahatuburu and Kiriburu Iron Ore Mines- 1 MTPA from each within 16 MTPA

Period: April'2021 to September'2021

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Cond. No.	Condition Stipulated	Compliance Status as on September'2021
		capacities vide letter no. JSPCB/HO/RNC/CTO- 9151117/2020/1890 with validity up to 30.09.2023 ANNEXURE 14- COPIES OF CONCENT TO OPERATE (CTO) OF KIOM-MIOM, SAIL
(xiv)	Implementation of Environment Management Policy of the company w.r.t. judicious use of Mineral resources for growth & development synchronizing mining and environment with prosperity.	SAIL has always been an environmentally conscious and responsible company. 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 Environmental Policy and made "Corporate Environmental Vision, Policy and Responsibility", which is under implementation. ANNEXURE 15- CORPORATE ENVIRONMENTAL VISION POLICY AND RESPONSIBILITY OF SAIL. For effective implementation of corporate environmental policy, EMS linked with ISO 14001:2015 has been implemented and maintained at both Kiriburu and Meghahatuburu Iron Ore Mines. This has resulted in continual improvement in environmental aspects and helped in conservation of resources. ANNEXURE 16- CERTIFICATE OF REGISTRATION FOR ISO 14001:2015 ENVIRONMENT MANAGEMENT SYSTEM OF KIOM & MIOM, SAIL.
(xv)	There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis in consultation with Regional Director, Central Ground Water Board resources in the area in consultation with Central Ground Water Board.	 To augment ground water resources, a huge water pond (Size: 150 m X 100 M) has been made to receive storm water from the township and recharge ground water. The pond is being regularly de-silted before monsoon to maintain capacity. As the mine pits are located at the hill top, all the surface runoff from the mining areas have been diverted to mine pits and stored at bottom most pits, from where it seeps in to the ground. Technical feasibility study of rainwater harvesting cum ground water recharge system





Kiriburu - Meghahatuburu

Cond.	Condition Stipulated	Compliance Status as on September'2021
		development has been done through consultan M/s Think Innovative Solution, Ranchi. The Technical Feasibility Report has been submitted to Central Ground Water Board, Mid Eastern Region, Patna vide letter No KIOM/GM/15-16, dated 22.07.2015. The report was reviewed by CGWB and recommended for implementations vide letter No CGWB/MER/CGWA/2015-840, dated 13.08.2015. Various rainwater harvesting schemes suggested under the Technical Feasibility report are under consideration for implementation. ANNEXURE 17- PHOTOGRAPH COVERING ROOF TOP & CATCHMENT POND FOR RAIN WATER HARVESTING SYSTEM OF KIOM-MIOM. SAIL
(xvi)	Regular monitoring of ground water table to be carried out at the upstream and depth of water available in the dug well is to be measured. Monitoring to be done by establishing a network of existing wells and constructing new piezometers.	 2 nos. of existing Dug Wells located around the mines has been selected for ground water level monitoring. Ground water table levels at the selected wells are being monitored at regular intervals i.e., 4 times in a year. Action is being taken for installing piezometers by establishing network with the existing dug wells.
(xvii)	Monitoring of Ambient Air Quality to be carried out based on the Notification, as amended from time to time by the Central Pollution Control Board.	 Four (4) ambient air quality monitoring stations at Kiriburu Mines and four (4) more ambient air quality monitoring stations at Meghahatuburu Mines have been established based on the topography and meteorological conditions of the area. Regular ambient air quality monitoring of key parameters to mining industries as per the guidelines of MoEF&CC and CPCB is being done. ANNEXURE 18- AMBIENT AIR QUARTERLY MONITORING REPORT THROUGH ISPCB OF KIOMMIOM, SAIL
(xviii)	Water Sprinkling should be increased at places loading and unloading points &	Dry fog dust suppression systems have been provided at the mineral handling plants of both Kiriburu Meghahatuburu Mines. These systems

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Cond. No.	Condition Stipulated	Compliance Status as on September'2021
	transfer point to reduce fugitive emission.	are being operated and maintained. Water spray nozzles have been provided at transfer points / junction houses. • Frequency of haul road water sprinkling through 28 KL high pressure water sprinklers has been increased at both the mines for control of dust emission from haul roads inside leasehold area. • Permanent water sprinkling arrangement has also been provided in permanent haul roads of Mines near hopper to reduce fugitive dust. ANNEXURE 9- PHOTOGRAPH SHOWING THE DUST SUPPRESSION THROUGH WATER SPRINKLERS AND DRY FOG DUST SUPPRESSION SYSTEM AT KIOM-MIOM, SAIL
(xix)	The up-liftment of scheduled caste/schedule tribe population, specific programmes have been taken in to consideration specially with respect to education, health care, livelihood generation, infrastructure development & promotion of sports & culture for SC/ST population and that these will be intensified in future.	 The Kiriburu - Meghahatuburu mines are located in economically backward tribal regions. Being fully aware of SAIL's social responsibilities, KIOM - MIOM Mines under Bokaro Steel Plant has taken a giant leap in corporate social responsibility (CSR) by providing Health and Hygiene Improvement, Education, Income generation through self-reliant economic activities, Sports & Entertainment, etc., to improve the quality of life of the scheduled caste / tribe populace living in the villages surrounding the mines. These CSR activities are intensified for further increasing quality of life of tribal population. During April'2021 to September'2021 an amount of Rs. 45.82 lakhs (KIOM- Rs 35.23 lakhs and MIOM- Rs 10.59 lakhs) has been spent under CSR activities by the Kiriburu - Meghahatuburu Iron Ore Mines. CSR Details For KIOM: - Expenses on Eklaya Archery Academy: - 10.74 lakhs Organizing Medical Camps (Eye, RCH, HIV -AIDS, weekly med. Check up camp in villages), Exp. for CSR patients in Indoor & OPD.: -4.37 Lakhs

R. P. SELVAM C.G.M. (M) MIOM

Cond. No.	Condition Stipulated	Compliance Status as on September 2021
		 Providing Bus services for School children of peripheral villages [Karampada, Thalkobad]: 1.99 Lakhs Expenditure against to the adopted village's child in KIOM, Saranda hostei: -2.15 Lakhs Payment of Para-teachers engaged in 08 Schools (03 Schools in Jharkhand) & (05 Schools in Odisha): -14.49 Lakhs Procurement of machine for woman empowerment, mushroom cultivation & support services for improvement of production: -0.02 Lakhs Distribution of face mask, hand sanitizer, soap Ration kit to the needy people in the neighboring village due to COVID: -1.47 Lakhs CSR Details for MIOM: - Medical check-up camp conducted in periphera villages: -0.09 Lakh Self-Employment Centre (SOUBHAGYA): -2.41 Lakhs ITI training to local youths- 10 nos (Skill development): -4.05 Lakh Livelihood Generation- 4.04 Lakhs ANNEXURE 19- PHOTOGRAPHS OF VARIOUS CSR ACTIVITIES CONDUCTED BY KIOM-MIOM, SAIL
(xx)	The project proponent shall ensure that no natural watercourse and/or water resources shall be obstructed due to any mining operations.	 No natural watercourse / water resources obstructed due to any mining operation at Kiriburu – Meghahatuburu Iron ore Mines.
(xxi)	The top soil, if any, shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only and it should not be kept active for a long period of time. The maximum height of the dumps shall not	 No top soil is generated from existing operations, as the mines have been in operation since 1960 within the already broken area. However, top soil generated during opening of South and Central blocks shall be stacked separately and will be used for reclamation works. Top soil generated in future during the expansion of the mine pits to virgin areas, if any, will be stored temporarily at earmarked site and will be used for plantation /dump reclamation.

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Cond. Condition Stipulated Compliance Status as on September'2021 No. exceed 8m and width 20m and overall Presently entire OB generated at both Kiriburu slope of the dumps shall be maintained to Meghahatuburu Mines is being used for 45º. The OB dumps should backfilling of mined out areas. scientifically vegetated with situated During April 2021 to September 2021, about native species to prevent erosion and 4,66,470 T of OB at KIOM & 13,76,042 T of OB surface run off. In critical areas, use of geo at MIOM has been used for back filling the textiles shall be undertaken mined-out area. stabilization of the dump. The entire The existing inactive dumps at both Kiriburu excavated area shall be backfilled and Meghahatuburu Mines have already been afforested. Monitoring and management stabilized through plantation covering an area of of rehabilitated areas should continue 41 ha. For further stabilization, additional 1200 until the vegetation becomes selfnos, had been planted in April 2021 to sustaining, Compliance status shall be September 2021 for which regular maintenance submitted to the Ministry of Environment & watering job is carried out during the period. & Forests and its Regional office located at Geo-textiles have also been used to cover some Bhubaneswar on six monthly basis. portion of OB dump slopes for effective stabilization. Apart from this, 19.06 Ha void in the mining pit is been reclaimed with the backfilling. Out of this reclaimed area 10.4 ha area is been fully rehabilitated with plantation on surface & slopes Six monthly Compliance Status is being submitted to the Ministry of Environment, Forest & Climate Change and its Regional Office located at Ranchi. · 2 No. of MoUs have been signed between SAIL, RMD Kiriburu Iron Ore Mine and Meghahatuburu Iron Ore Mine for the Eco-Restoration of backfilled mine pits on both the mines. · Total project cost will be 99.34 Lakhs for Meghahatuburu Iron Ore Mine for 8.5 Ha of backfilled area. · For Kiriburu Iron Ore Mine: Area of Eco-Restoration will be 10 Ha, The IFP will provide technology and services along with the expenditure of restoration as per the All India Coordinated Research Project (AICRP) "Combating Desertification by Enhancing Vegetation Cover & People Livelihood in Degraded Dry Lands & Deserts of India" under objective "Restoration of Mine, degraded hills,

Period: April'2021 to September'2021

MENION THE Kaminah Rai Has SINGUE (SIN) CGM (Mines), KIOM R. P. SELVAM C.G.M. (M) MIOM

hill slopes, sand dunes, ravines and saline areas

Cond. No.	Condition Stipulated	Compliance Status as on September'2021
1 TU.		through introduction of new genotypes, varieties/ species and natural resources conservation in different landscapes". • A team of 6 Officials of Forest Ecology & Climate Change Division, Institute of Forest Productivity Ranchi visited the Kiriburu Iron Ore Mines during 23/06/2021-25/06/2021 regarding the preparatory work for Rehabilitation of slopes in the coming months of 10 Ha of mined out backfilled area. A team of officers of E&L, Mining & Survey Department from Kiriburu Iron Ore Mine was also deployed for necessary coordination with the officials of IFP, Ranchi. • For aforementioned purpose, team of officials visited & surveyed the backfilled area situated at Hill-1 of Kiriburu mine pit. They have selected and measured the slope of backfilled area near already planted area for the plantation purposes. Various activities have been planned like ploughing of Trenches & Digging of Pits for plantation and soil erosion control purposes and plantation on slopes during July 2021. Planning for irrigation water was also done in coordination with Officials of IFP, Ranchi & KIOM, Sail. Officials of IFP, Ranchi also requested for leveling of top surface portion of backfilled area, so that the plantation activities for next year will be smoothen.
		 A team of 3 Officials of Forest Ecology & Climate Change Division, Institute of Forest Productivity, Ranchi along with 2 Technical Field Staffs visited the Kiriburu Iron Ore Mines during 26/07/2021-27/07/2021 regarding the Plantation of Plant Saplings for Rehabilitation of slopes for 10 Ha of mined out backfilled area. A team of officers of E&L, Mining & Survey Department from Kiriburu Iron Ore Mine was also deployed for necessary co-ordination with the officials of IFP, Ranchi. 394 No of plant sapling have been planted on the sloped of 10ha of mined out backfilled area. Apart from this, 39 existing plants have been replaced by the officials of IFP, Ranchi which was having mortality.

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Cond. No.	Condition Stipulated	Compliance Status	as on September'2021
		Details of Plant s	pecies planted are as follows: -
		Local Name of Plant	Scientific Names
		गुलमोहर	Delonix regia
		यकाइन	Melia azedarach
		आकाशयनी	Acacia auriculiformis
		कांटा वीस	Bambusa bamboos
		Hadge wite	Bambusa multiplex
		কাশর ফুল	Baugainvillea
		-Agave	Agave
(xxii)	Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and OB	constructed	and siltation ponds have be at strategic locations. The ent ponds/ check dams are clean
	dumps to prevent run off of water and	periodically.	portary brook warm me broam
	flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, road, green belt development etc. the drains shall be	All OB dump stabilized an vegetation. sedimentatio OB dumps to	os of the mines are either alread d vegetated or being stabilized be Toe walls, garland drains are n pits were constructed around the control surface runoff.
	regularly de-silted particularly after monsoon and maintained properly. The drains settling tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and over burden dumps to prevent run off of water and flow of sediments directly into the river and other water bodies and	construction sedimentatio runoffs from on the recom at MIOM &	our has assessed the need of the additional check dams as a traps to arrest silt from surfamine working and OB dumps. Basemendations of the IIT, 15 nos (7 n Bnos at KIOM) of boulders che sen constructed in consultation with
	sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50	Catchment A	tion and report for" Comprehensi rea Treatment Plan for The Saran Fed by Karo and Koina River Syste





Condition Stipulated	Compliance Status as on September 2021
years' data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of these garland drains and de-silted at regular intervals.	with Specific Measures and Cost Structure for Implementation", has been submitted and being under consideration by the concerned Forest Department. • Final Catchment Area Treatment Plan in Two Volumes (1/2 & 2/2) is been submitted to PCCF, Nodal Ranchi which is under approval stage. • De-silting has been carried out at various locations in lease area. Additional Garland drain construction completed. Sump has been provided allowing settling of silt at corner of garland drains. ANNEXURE 20- PHOTOGRAPHS SHOWING VARIOUS SILT CONTROL ARRANGEMENTS CONSTRUCTED BY KIOM-MIOM, SAIL.
Dimension of the retaining wall at the toe of over burden dumps and OB benches within the mine to check run-off and siltation shall be based on the rain fall date.	 Toe walls, garland drains and siltation pond at the OB Dumps have been constructed to control the surface runoff from the OB dumps. Based on the rainfall of the region, 0.50 m width and 2.0 m height toe walls and 0.50 m width and 0.50 m depth garland drains provided at both the mines.
Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM10 and PM2.5 such as haul road, loading and unloading point and transfer points. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in the regard.	 Dry fog dust suppression systems have been provided at the mineral handling plants of both Kiriburu Meghahatuburu mines. Water spray nozzles have been provided at transfer points / junction houses. 28 KL High Pressure Water Sprinklers are regularly deployed for control of dust emission from haul roads inside leasehold area. Permanent water sprinkling arrangements have been provided in permanent haul road of Mines near hopper. All these fugitive dust control measures are being operated and maintained effectively to maintain air quality parameters below the prescribed standards. ANNEXURE 21- PHOTOGRAPHS SHOWING
	years' data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of these garland drains and de-silted at regular intervals. Dimension of the retaining wall at the toe of over burden dumps and OB benches within the mine to check run-off and siltation shall be based on the rain fall date. Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM10 and PM2.5 such as haul road, loading and unloading point and transfer points. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution

SECURION SECURION

Cond. No.	Condition Stipulated	Compliance Status as on September'2021
110.		MONITORING SYSTEM (CAAOMS) INSTALLED AT MIOM. SAIL ANNEXURE 9- PHOTOGRAPH SHOWING THE DUST SUPPRESSION THROUGH WATER SPRINKLERS AND DRY FOG DUST SUPPRESSION SYSTEM AT KIOMMIOM. SAIL
(xxv)	Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintained.	 Water flow monitoring at Ghagirathi nallah and Pardih nallah are being carried out on monthly basis and records are being maintained.
(xxvi)	Regular monitoring of water quality upstream and downstream of water bodies viz. Karo River and Koina River shall be carried out and record of monitoring data should be maintained and submitted to the Ministry of Environment and Forests, its Regional office, Bhubaneswar, Central Ground Water Authority, Regional Director, Central Ground Water Board, State pollution Control Board and Central Pollution Control Board.	 All the natural nallahs originated from leasehold area as well as surface runoff / effluents from the mines are draining to the river Koina, which controls drainage pattern of the area and is located on western side of the leasehold. No discharge from Kiriburu / Meghahatuburu mines is drained to Karo River. Hence, quality of water of Koina River at upstream and downstream of mines is being regularly monitored and reports are being submitted. ANNEXURE 22- KOINA RIVER UPSTREAM & DOWNSTREAM WATER QUALITY DATA REPORT FOR THE PERIOD OF -APRIL 2021 TO SEPTEMBER 2021 BY KIOM-MIOM. SAIL.
(xxvii)	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and construction new piezometers during the mining operation. The monitoring shall be carried out four times in a year- premonsoon (April-May), monsoon (August), post- monsoon (November) and winter (January) and the data thus collected may be sent regularly to Ministry of Environment and Forests and its Regional office, Bhubaneswar, Central Ground water Authority and Regional Director,	by December, 2021. ANNEXURE 23- GROUND WATER QUALITY REPORT IN DUG WELL FOR THE PERIOD OF -APRIL 2021 TO SEPTEMBER- 2021 BY KIOM-MIOM, SAIL

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Cond. No.	Condition Stipulated	Compliance Status as on September 2021
	Central Ground Water Board.	
(xxviii)	Blasting operation shall be carried out only during the daytime. Controlled blasting shall be practiced. The mitigative measures to control of ground vibrations and to arrest fly rocks and boulders should be implemented. Drills shall either be operated with dust extractors or equipped with water injection system.	Blasting is carried out in a notified fixed day time only (1.00 PM - 2.00 PM). Controlled blasting with slurry explosives and NONEI detonators is being done to minimize ground vibrations and to arrest fly rocks. Further, TLD & DTH are also used to control ground vibration fly rock. All the drills at both Kiriburu & Meghahatuburu Mines have been equipped with wet drilling facility to prevent dust generation during drilling. ANNEXURE 24- BLASTING VIBRATION REPORT FOR KIOM-MIOM. SAIL.
(xxix)	Pre- Placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.	 Periodical Medical Examination (PME) of all workmen working in the mines is being done at our Occupational Health Centre once in every five years/three/one year depending on category. Additional PME is also conducted as per the recommendation of Xth & XIth Conference of Safety, DGMS, Dhanbad. In the year 2021-22 till September 2021, 120 Regular Employees & Executives & 295 Contractual Workers have been Periodical Medically Examined (PME).
(xxx)	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna namely leopard, elephant etc. spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the state forest and wildlife department. Necessary allocation of funds for implementation of the conservation plan shall be made and the funds so allocated shall be included in the project cost. All the safeguard measures	 The Integrated Wild Life Management Plan (IWLMP) prepared by the expert committee has addressed all the issues and recommended precautionary measures to be taken during mining operation for conservation and protection of endangered fauna and necessary allocation of funds for implementation of the conservation plan. The said Plan is completed in respects and is ready for implementation by the Jharkhand State Forest Dept. In this regard, SAIL has already submitted an undertaking to abide by the guidelines and contribute fund for implementation of Integrated Wildlife

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ond.	Condition Stipulated	Compliance Status as on September'2021
No.	brought out in the wildlife conservation plan so prepared specific to the project site shall be effectively implemented. A copy of action plan shall be submitted to the Ministry of Environment and Forests and its Regional office, Bhubaneswar.	Management Plan in entire lease hold area, on pro rata basis. • A consultant has been engaged for preparation of Site-Specific Wildlife and Biodiversity Conservation plan for Amalgamated Lease of Kiriburu-Meghahatuburu Iron Ore Mines. • The aforementioned consultant has prepared the draft report for site-specific wildlife & biodiversity conservation plan associated with the amalgamated mining lease area of Kiriburu-Meghahatuburu iron ore mines. Draft report has been presented before DFO Saranda on 11/06/2021 which is been provisionally approved with some modification. Again modified report has been presented before RCCF, Jamshedpur on 07/09/2021, where it is been provisionally approved and the plan is under approval stage before PCCF, Wildlife, Ranchl. • In the draft Site-Specific Wildlife and Biodiversity Conservation Plan various structures has been proposed such as Rain Water Harvesting, Weed Removal, Avenue Plantation, Gap Filling, Wildlife Rescue Team, Mobile QRT, Artificial Bird Nest, Bird Bath at various locations in Township and mining Area of KIOM-MIOM. • All the measures suggested will be implemented at the project cost. It is undertaken that a copy of action plan will be submitted to the MOEF&CC and its Regional office. **ANNEXURE 7- WORK ORDER COPY OF CEMC BHUBNESHWAR FOR SITE- SPECIFIC WILDLIFE AND BIODIVERSITY CONSERVATION PLAN FOR KIRIBURU-MEGHAHATUBURU IRON ORE MINES
(xxxi)	Provision shall be made for the housing of construction Labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets mobile STP, Safe drinking water, medica	Most of the construction Labour are hired from the local villagers and only few are being hired from outside, for which housing facilities along with necessary infrastructure are being provided.

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Kiriburu - Meghahatuburu

Cond. No.	Condition Stipulated	Compliance Status as on September'2021
	health care, crèche etc. the housing may be in the form of temporary structures to be removed after the completion of the project.	
(xxxii)	A Final Mine Closure Plan along with details of corpus fund shall be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.	 A Final Mine Closure Plan along with details of corpus fund will be submitted to MoEF&CC, New Delhi 5 years in advance of final mine closure for approval.
	Additional Specific Conditions (EC Orde	er Dated 30.07.2020)
(xxxiii)	PP shall implement all the conditions specified in the EC letter no. J-11015 /272/2007-IA. II (M) dated 23rd September, 2014 and subsequent amendments. Any non-compliance reported by the Regional officer or the Expert Committee, during the site visit, as proposed by the committee, EC may be modified or revoked.	All the conditions specified in the EC (General as well as specific) have been implemented and compliance of all the conditions is being incorporated in this EC Compliance.
(xxxiv)	Fines from the tailing dam shall not be excavated during the monsoon period.	 Excavation & dispatch of fines from tailing dam has not been started yet due to non-issuance of transit permits by Govt. of Jharkhand. However, it is assured that fines from the tailing dam shall not be excavated during the monsoon period in any circumstances.
(xxxv)	Mitigative measures proposed for excavation and transportation of mineral shall be complied with including moist and covered.	 Excavation & dispatch of fines from tailing dam has not been started yet due to non-issuance of transit permits by Govt. of Jharkhand. However, it is assured that mitigative measures proposed for excavation and transportation of mineral shall be complied with including moist and covered.
(xxxvi)	The PP shall monitor the fugitive emissions by installing at least two AAQ monitoring stations along the transportation route.	 Excavation & dispatch of fines from tailing dam has not been started yet due to non-issuance of transit permits by Govt. of Jharkhand. However, it is assured that before excavation & dispatch of tailings, at least two AAQ monitoring stations

Period: April'2021 to September'2021

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Cond. No.	Condition Stipulated	Compliance Status as on September'2021 along the transportation route shall be installed.
(xxxvii)	The stripping ratio and total excavation for each year shall remain same as approved in the previous EC. Any change in the same is with prior approval of the Ministry.	 Excavation & dispatch of fines from tailing dam has not been started yet due to non-issuance of transit permits by Govt. of Jharkhand. However, it is assured that the stripping ratio and total excavation for each year shall remain same as approved in the previous EC.

B. General Conditions

Cond. No.	Condition Stipulated	Compliance Status as on September' 2021
(1)	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.	 Mining is being done as per the approved Mining Plan/ Scheme of Mining approved by Indian Bureau of Mines. There is no change in mining technology and scope of work.
(ii)	No change in the calendar plan including excavation, quantum of mineral iron ore and waste should be made.	 ROM production at both the Kiriburu &Meghahatuburu Mines are kept within permitted capacity in the EC / approved Mining Plan. The quantity of ROM Production during the year 2021-22 (April'2021 to September'2021) is as follows- For KIOM:- For 6 Months (April 2021 to September 2021): 19,13,220 Te (ROM) For MIOM:- For 6 Months (April 2021 to September 2021): 17,45,730 Te (ROM) Total ROM Production for April 2021 to September 2021 (KIOM+MIOM): 36,58.950 Te (3.658 MT) against EC of 16 MTPA
(iii)	The critical parameters such as PM10 (size less than 10 micro meter), PM 2.5 (size less than 2.5 micro meter), 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	CONTINUOUS AMBIENT AIR QUALITY MONITORING SYSTEM (CAAOMS) INSTALLED AT

Period: April'2021 to September'2021





Cond. No.	Condition Stipulated	Compliance Status as on September' 2021
	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 board at the project site at a suitable location near the main gate of company in public domain. The circular No. J-20012/1/2006-1A. II (M), dated: 27.05.2009 issued by Ministry of Environment and Forests, which is available on the website of the Ministry www.envfor.nic.in shall also be referred in this regard for its compliance.	The monitored data is being displayed in General Offices of both Kiriburu & Meghahatuburu Mines. Copy of EC compliance along with environmental quality data is being uploaded to the company website www.sail.co.in.
(iv)	Four ambient air quality monitoring stations should be established in the core zone as well as in the buffer zone for PM 10, PM 2.5, SO2 &NOx monitoring. Location of the stations should be decided based on the meteorological, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board. Data on ambient air quality should be regularly submitted to the Ministry including its Regional office located at Bhubaneswar and the State Pollution Control Board/Central Pollution Control Board once in six months.	 Four (4) ambient air quality monitoring stations at Kiriburu Mines and four (4) more ambient air quality monitoring stations at Meghahatuburu Mines have been established based on the topography and meteorological conditions of the area. ANNEXURE 21- PHOTOGRAPHS SHOWING CONTINUOUS AMBIENT AIR QUALITY MONITORING SYSTEM (CAAOMS) INSTALLED AT MIOM. SAIL Regular ambient air quality monitoring of key parameters (PM10, PM2.5, SO2 and NOX) to mining industries as per the guidelines of MoEF&CC and CPCB is being done Ambient air quality monitoring data is being submitted to MoEF&CC, New Delhi and Regional Office, Ranchi along with the compliance reports. Air quality data is also being submitted to Jharkhand State Pollution Control Board. ANNEXURE 25- AMBIENT AIR QUALITY REPORT FOR THE PERIOD, APRIL 2021 TO SEPTEMBER 2021 FOR KIOM-MIOM, SAIL
(v)	Pugitive dust emission from all the	Adequate nos. of fugitive dust emission control

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Cond. No.	Condition Stipulated	Compliance Status as on September' 2021
	sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.	measures have been provided at the mines. Dry fog dust suppression systems at the mineral handling plants and water sprinklers at haul roads / transfer points have also been provided. • These systems are being operated and maintained. Details of major fugitive dust control measures at various main unit operations are as follows: > Drilling – Wet drilling is being practiced. > Blasting – Controlled blasting by using slurry explosives & NONEL technology is being followed to control the dust generation during blasting. > Haulage – Haul roads are regularly sprinkled with water by four (Two at each mine) mobile pressurized water sprinklers of 28KL capacity each. Permanent water sprinkling arrangement has also been provided in permanent haul roads of Meghahatuburu Mines near hopper to reduce fugitive dust. > Crushing/Screening – Dry-fog dust suppression systems for unloading, crushing & screening, transfer points have been provided at both the mines. ANNEXURE 9- PHOTOGRAPH SHOWING THE DUST SUPPRESSION THROUGH WATER SPRINKLERS AND DRY FOG DUST SUPPRESSION SYSTEM AT KIOM-MIOM, SAIL
(vi)	Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged operations of HEMM, etc. should be provided with ear plugs/muffs.	 Regular maintenances and periodic checks of the HEMM are being carried out to control noise below 85 dB (A) in the work environment. The operators engaged in blasting/ drilling operations and operator of HEMM are provided with protective earplug/ear muffs with helmet. Use of these protective measures is ensured by educating the workers on ill effect of the prolonged excessive exposure to high Noise levels and daily checks by shift mining

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Kiriburu - Meghahatuburu

Cond. No.	Condition Stipulated	Compliance Status as on September' 2021
		engineers regarding usage of ear plug/ea muffs. Regular noise survey is also carried out by trained technician of OHS & by JSPCB on quarterly in the mines as per mines rules and parameters are found within norms. Measured noise levels at the mines during April'2021 to September'2021 are within permissible limit below 75 dB(A) KIOM Day Time- 73.7 dB(A) to 74.0 dB(A) KIOM Night Time- 61.3 dB(A) to 62.2 dB(A) MIOM Day Time- 70.6 dB(A) MIOM Day Time- 67.5 dB(A) MIOM DG Set- 72.4 dB(A) KIOM DG Set- 65.6 dB(A) ANNEXURE 26- NOISE MONITORING THROUGH NABL LABORATORY REGISTERED WITH ISPCB FOR THE PERIOD, APRIL 2021 TO SEPTEMBER
	Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E), dated: 19th May,1993 and 31th December, 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.	ETPs consisting oil & grease traps have been provided at the mines for treating the effluents from garages. The treated water from these ETPs are being used for plantation / dust suppression. Effluents generated from the beneficiation plants are being treated in Thickeners followed by Tailing Ponds. The clear water to the tune of 60% is being recycled and the underflow from thickener is discharged into Tailing Dam. Presently the recirculation facility at the rate of 160 cubic meter/ hr. is carried out as per the requirement of ore processing System for recovery & recycling of clear water from the Tailing Pond is under stabilization at Kiriburu Mines. ANNEXURE 27- TAILING DAM WATER QUEITY ASSESSMENT REPORT THROUGH NABLE.

Period: April'2021 to September'2021

R. P. SELVANA

Cond.	Condition Stipulated	Compliance Status as on September' 2021
No.		PERIOD, APRIL 2021 TO SEPTEMBER 2021 FOR KIOM-MIOM, SAIL
(viii)	Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.	Dust masks have been provided to personnel working in dusty areas i.e., drilling, excavation, unloading & loading areas, crushing &screening areas. Training on safety and health aspects is being imparted on regular basis. A full-fledged Occupational Health Centre is run by the mines for regular health surveillance. Use of dust masks is ensured by daily checks by shift in-charges of the respective departments.
(ix)	Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	 Periodical Medical Examination (PME) of all workmen working in the mines is being done at our Occupational Health Centre once in every five years/three/one year depending on category. Additional PME is also conducted as per the recommendation of 10th&11th conference of Safety, DGMS, Dhanbad.
(x)	A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.	have been established at both Kiriburu and Meghahatuburu mines and headed by Sr.
(xi)	The funds earmarked for environmental protection measures should be kept in separate account and should not be divided for the purpose. Year wise expenditure should be reported to the Ministry and its Regional office located at Bhubaneswar.	2021 TO SEPTEMBER 2021 AT KIOM: - • Development & maintenance of lake garden & Visibuser Township, Rs 12 98





Cond.	Condition Stipulated	Compliance Status as on September' 2021
.101		 Cleaning of Sankoja Dam, upkeeping of different offices etc. inside plant/mines area KIOM: Rs.7.21 lakh Upkeeping of different installation, offices including other misc. jobs at hilltop & township KIOM: Rs.12.69 lakh R/c for bush cutting in township & hilltop area of KIOM: Rs.1.37 lakh R/c for cleaning of various water reservoir at Karo Dalmia, township, Kiriburu: Rs.0.85 lakh Support facility for drinking water supply at Dalmia filter plant at Dalmia and filter plant at Murgapara water reservoir at KIOM: Rs.13.6 lakh R/c for R&M of sewerage line, drain etc. at KIOM: Rs.1.0 lakh R/c for R&M of drinking water supply, sanitary installation work etc. at township & hilltop KIOM: Rs.5.68 lakh General upkeeping of township & hutment area: Rs.11.44 lakh Cleaning of sewerage line at township & hilltop KIOM: Rs 6.69 lakh Mosquito Control operation work at township & inside mining area: Rs.5.7 lakh
		AT MIOM: -
		 Plantation of trees 1500 nos saplings in mines & township & its maintenance, watch & ward, watering: Rs.8.84 lakh Collection & disposal of industrial & domestic garbage- Rs 12.12 lakh Aesthetic beautification by upkeeping of Megha Nikunj, Sanjivani Vatika Garden & View Point, Hospital- Rs. 6.79 Lakhs Laying & Maintenance of sewerage line in MIOM township- Rs. 4.70 lakh Implementation of Mosquito Control system (Fogging system)- Rs.3.90 lakh Maintenance of Dust Suppression- Rs. 13.3 Lakhs
(xii)	The project authorities should inform to the Regional office located at Bhubaneswar regarding date of financial closures and final approval of the project by the concerned authorities and the date	 The Kiriburu and Meghahatuburu Iron Ore Mines are working mines operating since 1960 and 1985 respectively. Installation of various facilities under the 16 MTPA expansion are under progress. Will be informed in due time

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Cond. No.	Condition Stipulated	Compliance Status as on September' 2021
	of start of land development work.	after installation of the facilities.
(xiii)	The Regional office of the Ministry located at Bhubaneswar shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional office by furnishing the requisite data/information/monitoring reports.	 Full co-operation is extended to the officers of the Regional Office, MoEF&CC, Bhubaneswar / Ranchi, by furnishing the requisite data/ information / monitoring reports.
(xiv)& (xv)	The project proponent shall submit six monthly reports on the status of the implementation of the stipulate environmental safeguards to the Ministry of Environment and Forest, its Regional Office, Bhubaneswar, Central Pollution Control Board and State pollution Control Board.	 Six monthly compliance reports on the status of implementation of environmental safeguards are being submitted to MoEF&CC, New Delhi, Regional Office - MoEF&CC, Ranchi, Central Pollution Control Board and State Pollution Control Board. Copy of the compliance report including environmental quality data is being uploaded to the SAIL web site i.e., www.sail.co.on.
(xvi)	A copy of clearance letter will be marked to concerned Panchayat/local NGO, if any, from whom suggestion/representation has been received while processing the proposal.	has already been sent to the Panchayat. The clearance letter has been put on the
(xvii)	State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and Collectors office/Tehsildar's office for 30 days.	
(xviii)	The project authorities should advertise at least in two local newspapers 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 Board and also at web site of the Ministry of Environment and Forests a	newspapers widely circulated, one of which was in the vernacular language (Hindi in Dainile Jagran on 27.09.2014) and other in English (in Telegraph on 27.09.2014) i.e., within stipulated time by informing that the project has been accorded environmental clearance. Further, Ed amendment advertisement done in two newspapers on 04.08.2020 (English in Times of India & Hindi in Prabhat Khabar





Kiriburu - Meghahatuburu

Cond. No.	Condition Stipulated	Compliance Status as on September' 2021
	http://envfor.nic.in and a copy of the same should be forwarded to the Regional office of the Ministry located Bhubaneswar.	PAPERS FOR EC OF KIOM-MIOM, SAIL

13-11-2024

[KAMLESH RAI]

Chief General Manager (Mines) Kiriburu Iron Ore Mines P.O. Meghahatuburu - 833 222

Dist.: Singhbhum (West),

State: - Jharkhand

Chief General Manager (Mines) Meghahatuburu Iron Ore Mines P.O. Meghahatuburu - 833 223

Dist.: Singhbhum (West),

State: - Jharkhand

ANNEXURES: 6 MONTHLY EC COMPLIANCE APRIL 2021 TO SEPTEMBER 2021

EC granted by MoEF& CC

Vide order no. J-11015/272/2007-IA. II (M) dated 23.09.2014

Vide order no. J-11015/272/2007-IA. II (M) dated 30.07.2020

of

Kiriburu - Meghahatuburu Iron Ore Mine, Bokaro Steel Plant, M/s SAIL

AN THE I KAMLESH RAI FOR ANDVALUE (MAY)

Chief General Manager (Mines) Kiriburu Iron Ore Mines P.O. Kiriburu - 833 222 Dist.: Singhbhum (West),

State:- Jharkhand

Chief General Manager William Meghahatuburu Iron Ore Mines

P.O. Meghahatuburu-833223

Dist.: Singhbhum (West),

State:- Jharkhand

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ANNEXURE 1- PAYMENT RECIEPT OF NPV PAID TOWARDS CAMPA FUND



ভারতীয় স্টোট ব্যাছ भागींग स्टेट बैंक STATE BANK OF MOIA

22-10-2019

TO WHOMSOEVER IT MAY CONCERN

It is to certify that, as a sum of Rs. 91,74,32,287/- (Rupees Ninety one crore Seventy four lakh thirty two thousand one hundred eighty seven only) has been transferred on 22.10.2019 from Account No. 30672040728 of SAIL RMD Kolkata vide their request letter dated 22:10:2019 to Account No. 150725879000688 of Corporation Bank, Lodi Complex Branch, New Celhi 110003 of Jharkhand Campa through RTGS UTR No. SBINR52019102200122381.

For STATE BANK OF INDIA Thelen Monoger | Trade Finance | CAS Branch (00008), Kotkata OAMSHER KUMAN SHAGAT S. S. No. - B-8752

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T DGM (033) 2288-5090

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T AMT-III (002) 2288-8117

T AMT-FV (033) 2298-1548 G (003) 2288-7077, 2226-9058

বনিজিক গ্রহক সমূহ বাধা हेर्दि स्वर, व्ह का en electron out out

ADM CARRIE APPRIL

गरिनिक इतक सन्द्र शतक बीवृद्धि भाग, सिंधारे कर्ताल अर समाराज्या नेपार रोड WHENT - 700 071 THE WIE : COURSE

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ANNEXURE-1: A- PAYMENT RECIEPT OF NPV PAID TOWARDS CAMPA FUND



स्टील अथॉरिटी ऑफ इण्डिया लिमिटेड STEEL AUTHORITY OF INDIA LIMITED रॉ मेटेरियल्स डिवीजन RAW MATERIALS DIVISION

CONTROL REPORT REMITTERS NEFT Remittance Date: 22:10:2019

State Bank of India Corporate Accounts Group Branch Kokurta (Code:09998)

Please remit the sum of Rs. 91,74,32,187/- Rupers Ninety One crore seventy four lakh thirty two thousand one handred eighty seven only) as per details below by debiting our account No. 30672040728 for the total amount including your charges.

Name of the beneficiary:

JHARKHAND CAMPA

Dostination Bank's name & branch: Corporation Bank, Lodhi Complex Branch, New Delhi-110003

FSC No. CORPO000371

Account No.: 150725879000688

Amount (in words) Rupons Ninety One crore seventy four takh thirty two thousand one hundred cighty seven only.

Amount (in figures) Rs. 91,74,32,187/-

Cranges.

Total

Date of transfer/ cash

Amount:

Scrot No.:

Name of applicant: SAL RMO KOLKATA

Address: 10, CAMAC STREET, KOLKATA-17

Tel No.22822176

santhure.

CONSTRUMENT CONTRACTOR OF THE PROPERTY LOS FRANCES

- CONDITIONS FOR TRANSFER:

 All payment instructions should be careful checked by the remitter as procedure the processor than th provided, SBI will not be responsible if these particulars are not provided correctly by the remitter.
- Application, Wescage recovered after the business hours will be sent on the immediate next working day.
- SBI shall not be responsible for any diday in the processing of the payment due to RBI RTGS system NOT being available/failure of internal Communication system at the recipient bank/branch/incorrect information provided by the number/Any incorrect credit accorded by the recipient bank/branch due to incorrect information provided by the remitter.
- In Remitting Branch shall not be liable for any loss or damage arising or resulting from diday in transmission delivery or non-delivery of electronic message or any mistakin, emission or error in transmission or delivery thereof or on encrypting? decrypting the missages for any cause whatsomer or from the missagespectation when recovered or for the action of the destination bank of for any aid beyond the capital of State Bank of India.

4 If the recipient branch is closed for any reason, the occount shall be credited on the immediate and working titte:

(iii) Bank is free to recover charges if any in respect of remittances returned on account of truly/ modequate

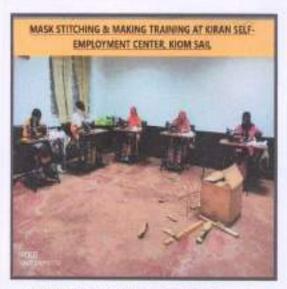
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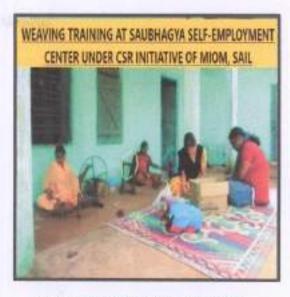
WITHOUT WATER | THE THIRD BANGAL an agreeius (Les a riter) Sending of the application

ANNEXURE-1: B- PAYMENT CHALLAN SUBMITTED AT 5BI OF NPV PAID TOWARDS CAMPA FUND

ANNEXURE 2- PHOTOGRAPHS OF SELF EMPLOYMENT CENTER AT KIOM & MIOM, SAIL



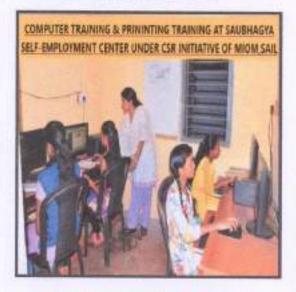
ANNEXURE-2: A- MASK STITCHING & MAKING TRAINING AT KIRAN SELF-EMPLOYMENT CENTER, KIOM, SAIL



ANNEXURE-2: C- WEAVING TRAINING AT SAUBHAGYA SELF-EMPLOYMENT CENTER UNDER CSR INITIATIVE OF MIOM, SAIL



ANNEXURE-2: B- WEAVING TRAINING AT KIRAN SELF-EMPLOYMENT CENTER UNDER CSR INITIATIVE OF MIOM, SAIL

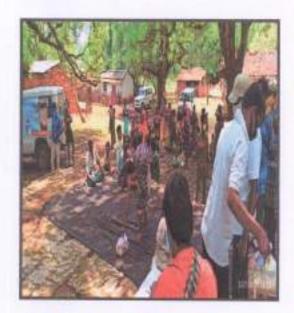


ANNEXURE-2: D- COMPUTER TRAINING &
PRININTING TRAINING AT SAUBHAGYA SELFEMPLOYMENT CENTER UNDER CSR INITIATIVE OF
MIOM, SAIL

ANNEXURE 3- FACE MASKS & FOOD PACKETS DISTRIBUTION UNDER CSR INITIATIVES DURING COVID-19 PANDEMIC BY KIOMMIOM SAIL



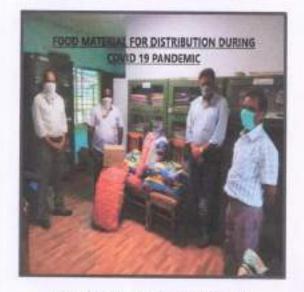
ANNEXURE 3: A STITCHING OF MASK DURING COVID 19 BY KIOM-MIOM, SAIL-BSL



ANNEXURE-3: C-FOOD PACKETS & MASK DISTRIBUTION DURING COVID 19 PANDEMIC, VACCINATION DRIVE IN PERIFERAL VILLEGES



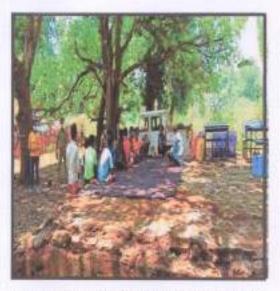
ANNEXURE-3: 8- FOOD PACKETS PREPARED BY KIOM- MIOM DURING COVID 19 PANDEMIC DURING VACCINATION DRIVE IN PERIFERAL VILLEGES



ANNEXURE-3: D- FOOD MATERIALS FOR DISTRIBUTION DURING COVID-19 PANDEMIC

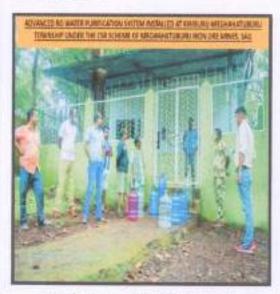


ANNEXURE-3: E- FOOD DISTRIBUTION TO NEEDY PEOPLE AT KIRIBURU SANKUL UNDER CSR SCHEME BY KIOM

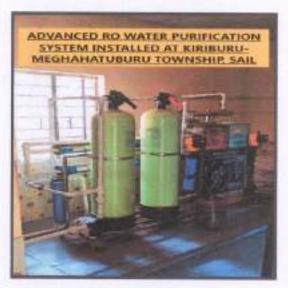


ANNEXURE-3: F-DISTRIBUTION OF FOOD PACKETS TO NEEDY PEOPLE BY KIOM-MIOM, SAIL

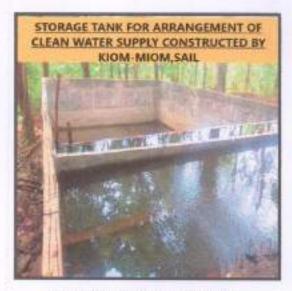
ANNEXURE 4- CLEAN RO DRINKING WATER, HAND PUMPS HAVE BEEN PROVIDED AT THE SURROUNDING VILLAGES BY KIOM & MIOM, SAIL



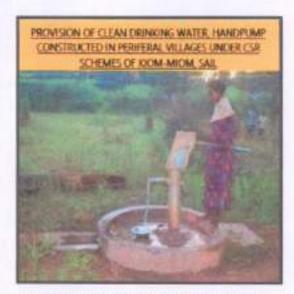
ANNEXURE-4: A- ADVANCED RO WATER
PURIFICATION SYSTEM INSTALLED AT KIRIBURUMEGHAHATUBURU TOWNSHIP LINDER THE CSR
SCHEME OF MEGHAHATUBURU IRON ORE MINES,
SAIL



ANNEXURE 4: B- ADVANCED RO WATER
PURIFICATION SYSTEM INSTALLED AT KIRIBURUMEGHAHATUBURU TOWNSHIP UNDER THE CSR
SCHEME OF MEGHAHATUBURU IRON ORE MINIES,
SAIL

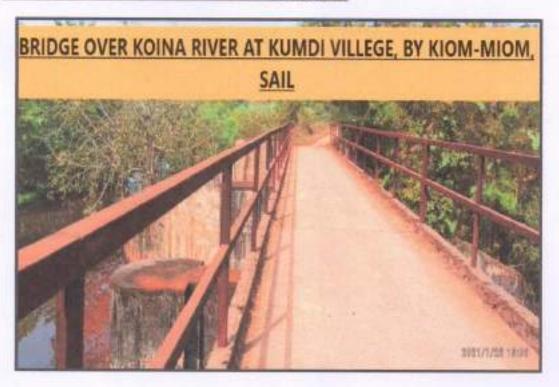


ANNEXURE-4: C-STORAGE TANK FOR ARRANGEMENT OF CLEAN WATER SUPPLY CONSTRUCTED BY KIOM-MIOM, SAIL



ANNEXURE-4: D- PROVISION OF CLEAN DRINKING WATER, HANDPUMP CONSTRUCTED IN PERIFERAL VILLAGES UNDER CSR SCHEMES OF KIDM-MIOM, SAIL

ANNEXURE 5- BRIDGE OVER KOINA RIVER AT KUMDIH VILLAGE HAS BEEN CONSTRUCTED BY KIOM-MIOM, SAIL



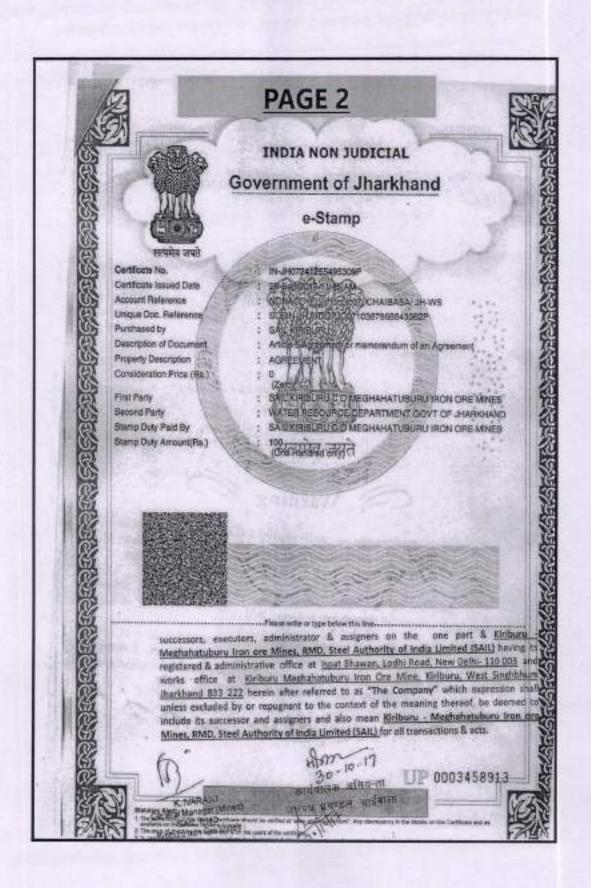
ANNEXURE-S: A: BRIDGE OVER KOINA RIVER AT KUMDI VILLEGE CONSTRUCTED BY KIOM-MIOM, SAIL

ANNEXURE 6- WATER AGREEMENT BETWEEN KIOM-MIOM, SAIL & WATER RESOURCE DEPARTMENT, GOVT. OF JHARKHAND



ANNEXURE-G: A- WATER AGREEMENT BETWEEN KIOM-MIOM, SAIL& WATER RESOURCE DEPARTMENT, GOVT.

OF JHARKHAND- PAGE-1



Whereas the company approached the Government on 28.08.2017 for allowing to Pump 3.326 MCM of water on annual basis in the Koina fiver which is a tributary of South Koel river at Liftude 27°09' 00' [Degree, Minute, Second) North and Longitude 85°15' 50.29' [Degree, Minute, Second) East for existing Kiriburu-Meghahatuburu Iron Dre Mines & Township and expansion of Mines Capachy to 16 MTPA (Type & capacity of the plant) and whereas the Government is in a position to allow withdrawal of 3.326 MCM on annual basis of water as per the concurrence issued by Water Resource Department (WRD), Government of thankhand to Kiriburu - Meghahatuturu ison ore Mines, RMD, Stort Authority of India Limited (SAIL) wide letter no 2/PMC/WS-549/2017-448 dated 20/08/2017 and the parties hereto have agreed to have a formal agreement in this regard.

Now it is hereby agreed by and between the parties as follows:

 That "The Government" agrees to allow 3.326 MCM/Annum withdrawal of required quantity of water as per the details given herein at pora 2.1 below:

The water withdrawal schedule for the plant

PERIOD (DD/MM/YYYY)	QUANTITY OF WATER TO BE DRAWN GURING THE YEAR (IN MCM)
The same of the sa	1
Nov 17- Oct-18	2.25 MCM
Nov-18- Oct-39	2.50 MCM
Nov-19- Oct-20	2.75 MCM
Nov-20-Oct-21	3.326 MCM
Nov-21-Oct-22	3.326 MCM

- 2.1. The water charges for quantity of water to be drawn by the company will come into effect from the period as indicated in column-1 of the table at para 2 above.
- 2.2 The quantity of water to be drawn will be restricted to 3.326 MCM on annual basis) and the measurement of water will be done at the intake point. The measurement of this quantity of water will be checked up jointly by the consumer and the representative of Water resources Department, Govt. of Iharkhand (WRD, GDI) at least in every month. The measuring instruments shall be installed by the consumer at his own cost and shall remain exclusively under the control of WRD, GOI.
- A. General condition to be made applicable to any industry under consideration.
- A.1. The availability of water may be interrupted temporarily for doing repairs or for such other works on the bass of jointly signed protocol & such interruption shall not ordinarily exceed thirty days. No claim by the company shall be preferred against the Government for such fluctuation in the discharge.

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- The quantity of water indicated in para 2 is based on the phasing demand of water put up by the company. In future, if it is found by computation as based on scientific methodology or otherwise that the consumption of water is more than as indicated in para -2, charges for such enhanced quantity of water so assessed, shall become payable to Government by the company.
- A.3. The company will install a water meter near the point of intake to measure the quantity of water pumped. If the quantity of water exceeds the quantity mentioned in para -2, the company will have to pay the bill based on actual withdrawal of water as per meter reading, but the minimum water rent for supply of water will be charged for the quantity as indicated at para +2,
- A.4. The company will have to establish online monitoring system of water drawl based on latest technology evallable at its own cost as and when the same will be implemented by WRD, Govt. of Jharkhand.
- A.S. The Government will not be responsible for any interruption of diminution or stoppage of supply of water due to lockout, strikes, breakdowns of mechanical units or other force majeure or other causes beyond the control of the Government. In view of the production technology & need of water supply to some other usage, the Government shall take such action, as is deemed necessary to restore availability of water with the least possible delay & ensure resumption of interruption or diminution or stoppage of water supply within shortest period.
- A.6. If due to any unforeseen reasons, the Govt. is not able to make available the quantity of water as envisaged in para 2, no legal action can be taken against the
- A.7. The company will make sure that the affluent (waste water along with Pollutants), if needed to be drained in the river or nala, will conform to the latest prescribed affluent quality parameters as prescribed by State Pollution Control Board and shall be safe for disposal in river or nale and shall not be injurious to human and aquatic life. The Water Resources Department as well as authorities specifically authorised. in this regard will also get the test checks conducted at regular interval to testify the same. The installation of equipment or plant needed for this purpose, shall be done by the company. The company will also have to get clearance from the respective State Pollution Control Board and submit the report to WRD at regular interval not exceeding one year for continuence of supply of allocated water. The affluent disposal point should be fixed in the upstream of the respective intake point.
- A.S. The company shall make every endeavour to use the minimum possible water and shall make use of all latest technology to reduce the extant of usage of water.
- That the required water will be withdrawn or pumped by the company from the Right bank of river Kolna River which is a tributary of South Koel river by constructing a suitable water harvesting structure and intake near plant site located at Lat 22°09'00" North and Long. 85°15'50:29" East and or through the storage constructed for this purpose by the Company at Lat22°07'20" N and Long 85°16' 50" E & Lat 22"05'05" N and Long 85"15'50" E 4917 14-17

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- A.10. That the cost of land required for building intake well, pump house, water meter & other allied infrastructure shall be borne by the Company.
- A.11. The Company shall pay water charge at the rate fixed by the WRD, GOL from time to time. As and when this rate is revised by the WRD from time to time, the company will be required to make payment at the revised rates of water charge. The rate fixed by the government shall be binding on the company.
- A.12. All the infrastructures including the intake and water harvesting structure commensurate with the requirement of water as per stipulated in para -2 needed for uninterrupted drawl of water shall be constructed by the company at their own cost, as per the design/drawing approved by the WRD, GOI. The construction of the infrastructure shall be taken up by company only after joint inspection of the water tapping point by the representatives of WRD, GO) and the company and approval there on by the WRD, GOI. This infrastructure shall be operated and maintained by the company at their own cost.
- A.13. That the formal approval of the Government on detailed design, drawing & specification of the water harvesting structure, intake well_pump & pump house shall be obtained by the Company within six months from the date of signing of Agreement.
- A.14. The WRD will have the right to inspect the infrastructures from time to time and suggest corrective mechanism for removing the deficiencies. If any. The company will have to undertake the remedial measures, as suggested by WRD, at their own expenses.
- A.15. The company shall have to bear the cost of rehabilitation and resettlement of the families so displaced. The cost of land acquisition, forest land compensation, etc., as per prevailing norms of the Government, shall have to be borne by the company. The company shall also obtain forest, environmental and other mandatory clearances, wherever required from the concerned departments/Ministry of the State Government/Government of India.
- A.15. The company will not be allowed to draw additional water than the committed above without specific permission.
- A.17. The company shall utilize the water for the agreed purpose only and will have no right to subjet this water to any other company.
- A.18. The Govt, will have right to review the quantum of water required by the Company for its bonafide usage, and shall be at liberty to reduce the quantum as allocated in para -2, so as to optimize the usage of water in the interest of the State.
- A.19. The Company has to fluison with the concerned Chief Engineer, WRD to sign an agreement related to the utilisation of allocated water and making payment of the water charge, as per the terms and conditions stipulated under para —A.11 of this agreement. The allocation of water will come into effect from the day of execution of the agreement with the WRD, thankand.
- A.20. The company shall install appropriate devices to minimise water use consumption

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and also provide for recycling & conservation of industrial water.

- A.21. The drawl of water from intake structure, shall under no circumstances be detrimental to the safety and operational procedures of reservoirs/barrages lying in the upstream or downstream or on both sides of the intake structure.
- A.22. The company will have to go for the construction of Rain Water harvesting (RWH) Pond and Pit of appropriate capacity as per the design and plan approved by Ground Water Directorate, Water Resources department (WRD), Government of Jharkhand at his own cost for the conservation of rain water to most the water demand of the plant during emergency/non-monsoon period and also for ground water recharging commensurate with ground water withdrawn for meeting only the domestic water demand during exigency.
- A 22.1 A comprehensive plan of Rain Water Harvesting Project for ground water technique, must be submitted by the Company to Ground water Directorate of Water Resources Department, Govt, of Jharkhand within two months from the date of signing of Agreement under the intimation to WRD, GOJ. This plan has to get approved by Ground Water Directorate, WRD, GOJ within one month from the date of submission of the above plan.
- A 22.2 Rain Water Harvesting Project for ground water rechanging must be completed within three months from the date of approval of the plan.
- A.23. The company will have to construct a reservoir at a suitable location to meet the water requirement of the plant during non-monsoon (November to May) on the basis of the realistic quantum of water availability computed with the help of actual observed hydro-meteorological data from where it has been intended to meet the water demand of the plant, Lean season flow of the river will not be intercepted at all. To ensure this, inlet in the intake well will be provided above lowest water level (LWL) which will be fixed by the concerned Chief Engineer, WRD, after approval of WRD, GOL.
- A.24. The flood water will be optimally stored and utilized by the installation of a rubber dam/a series of rubber dams or any other suitable techniques for flexible storage at suitable locations across the river (from where the water is to be drawn) by the company at his own cost. The storage planning will be approved by WRD, GOJ.

The designed height of the fexible storage dam will be restored during flood period only by inflating /raking it to store the flood water within the river section and also to store it into some other suitable storages limited to the quantity of water earmarked to the industrial unit. This height of flexible dam will be gradually decreased and finally deflated/lowered fully in accordance with the balance quantity of flood water needed to be stored. However, the height of the flexible storage dam during normal flow of the river will not exceed the upstream level of the river on which the infigation/municipal/industrial projects have been planned in the downstream. The water levels at different river flows near to the flexible dam site in the upstream will be marked by the Company at his own cost. These marked water levels of the river will be finally checked and approved by the WRD, Gol.



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The Company at his own cost has to remove the silt from the river bed likely to be deposited in the upstream of the rubber dam just after the increosen each year to ensure no adverse impact on the river regime.

- A.25. A joint review by the representatives of Govt. of Jharkhand and the company shall be made periodically at least once in every three years on the observed industrial water consumption pattern of the unit to assess the possibility and the technological interventions needed for reducing down the quantum of industrial water already carmarked in order to effect the same from the mutually accepted data.
- A.26. That the accounting year shall be from 1st April to 31st March of two consecutive calendar years. The bills for payment of water charges shall be prepared by the government every month on the basis of demand stipulated in para 2, 2.18 2.2.
- A.27. The company shall ensure to make payment of the bill within 30 days of its presentation, failing which a penalty at the rate of 10% of the water rate in provalence as on the concerned date shall be charged over and above the normal rate. If however, any discrepancy or error is found in the bill the same will be intimated to the government within 15 days for necessary reconcerding, but the payment against the original bill will have to be made within stipulated period. The rectification in the bill, however, will be adjusted in the next accounts and accordingly the next bill be charged from the company.
- A.28. In case of non-payment of water charge for more than two consecutive months by the company, the government shall have the right to stop withdrawal of water from the river by the company.
- A 29. That the date of receipt of the bill or the revised bill, as the case may be at company's office, will be treated as the date of receipt from which date the period of 30 days or 15 days referred to above, would be counted.
- A.30. All disputes and differences, except the matter for which provision has been expressly made in the agreement between the parties arising out of or in connection with this agreement, shall be referred to the Arbitrator, who will be an officer of WRD, litarishand and not below the rank of Superintending Engineer & will be nominated by the State Government. There shall be no objection to the appointment of the Arbitrator on the ground that the Arbitrator so appointed, is a State Government servant or that he had to deal with the matters to which this agreement relates to & that in the course of his duties as Government servant, he had expressed views on all or any of the matters in disputes or differences. The provision of the Arbitration and Conciliation Act, 1996 & any statutory modification thereof for the time being in force, shall apply.
- A.31. This agreement shall remain wolld for a period of five years. For making a fresh agreement, the company will be required to submit an application to the department 6 months prior to expiry of the existing agreement. The fresh agreement will be executed after reviewing the average actual usage by the

General Manor or (Mines), SAIL F. D भागीयालक श्रीसम्बा भागीयालक श्रीसम्बा भूतम्ब प्रमुख्याल बाईसासा

Company. In case, the average utilisation of water during the last four years have been less by more than 10 %, the company will have to submit the justification to WRD for allocating the earlier quantum of water as envisaged in para-2 or else the WRD will revise the allocation of water.

In case the company do not submit the application to WRD within the stipulated time frame or submit the application after the stipulated time frame without substantiating the justification for the allocation of earlier quantum of water, the WRD will have the right to reduce the water allocation to the average use of water made by the company during the last four years or to the quantity to which the WRD deems fit.

- A.32. In case the company violates any of the conditions stipulated in this agreement, WRD, GoJ will be free to take decision regarding termination of the agreement.
- Specific technical conditions to the industry on case to case basis.

WRD, GQI will be free to include any specific technical condition/conditions to the industry on case to case basis as and when required and mutually agreed between either parties, in Annexure - A which will be treated as part of this agreement.

In witness whereof, the parties of this agreement have herein put their respective hands & seals, the day and year of agreement first above written.

Signed, seal & delugies on behalf of

(Name of Company), IVARAJU

General Monopor (Mines)

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R. BITCHES, MANAGER COLLEGE MINN, SHILL MANAGER COLLEGE MINN, SHILL Signed, seal & delivered an bakalf of

Governor of Harkhand through Water Resources Department, Government of Iharkhand.

In presence of

1. DASSAN

2. 099

Annexure-A

Specific Technical Conditions to the industry

- The drawal of water will be done by the company from the intake point located at Lat 22°09'00" North and Long. 85°15'50.29" East from Koina River which is a tributary of South Koel River and or through the storage constructed for this purpose by the Company at Lat22°07'20" N and long 85°35'50" E & Lat 22°05'05" N and long 85°35'30" E across Koina river & trinutaries at Karampada RF, Block Noamundi, Dist West Singhthum.
- The drawel of water must start as per the schedule indicated in clause-2 of the agreement.
- The schedule of drawal of water must start within two years from the date of signing of agreement.
- In the event of delay in drawal of water as per schedule indicated in clause-2 of the agreement, the delay will be penalized as below:

 Up to one year delay from schedule mentioned in clause-2 of the agreement. 		25 % of water charges for the quantity of water drawal indicated for the 1 ³⁷ year under column 2 of the table in clause-2 of the agreement.
(ii) Up to two years delay from schedule mentioned in clause-2 of the agreement.	(4)	50 % of water charges for the quantity of water drawal indicated for the 2 nd year under column-2 of the table in clause-2 of the agreement.
(iii) Beyond two years delay from schedule mentioned in clause-2 of the agreement.		Full water charges for the quantity of water indicated for the 3 ¹⁹ year and orwards under column-2 of the table in clause-2 of the agreement.

5. The schedule of drawal of water will be fixed in such a manner so that the total quantity of water allocated must be drawn within five years from the starting date of the scheduled water drawal as per clause-2 of the agreement. The quantity of water which cannot be used within five years will be deemed as surrendered and dereserved.

Signed, seal & delivered on behalf of

(Name of Company)

K. (VARAJU *
General Manager (Mines)
SAIL * 7
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Signed, share detected and with at

Governor of the thand through Water Resources Department, Government of Jharkhand.

ANNEXURE 7- WORK ORDER COPY OF CEMC, BHUBNESHWAR FOR SITE- SPECIFIC WILDLIFE AND BIODIVERSITY CONSERVATION PLAN FOR KIRIBURU- MEGHAHATUBURU IRON ORE MINES



WORK ORDER

STEEL AUTHORITY OF INDIA LTD. [A Govt. of India Enterprises] Regs. Office: lapst Bittiwan Lod Road: New Deini

WO No: GC/4389/OT/KIDM/W-/31 /1222

To, M/e Centre for Envotech & Management Consultancy Pvt. Ltd., 1" Floor, N-5/305, IRC Village Nayapati, Bhubansswar Dist Khardhe, Odlahe: 751015 Email: cerro 122@orneil com, remc_consultancy@yahoo.co.in Mbl No: +91-9881032826

RAW MATERIALS DIVISION KBR-MBR GROUP OF MINES CONTRACT CELL

PO : Meghahatuburu-833223 Dist : Singhibhuri (West) Jharkhand Email: <u>commercialitiom@umail.com</u> Tole: [00595-244305] Fax: [06595-244965] [244220] [244227]

Dated: 30.01.2021

Bank & Other Details: Aic No: 381010200004176 IFSC Code: UTIBD000381 Axis Bank, Chandrashekharpur Current Appount PAN No: AACCG7431N GST No: 21 AACCC7431N1ZO MSME Certificate (Unyog Andres Memorandum No.- OD15E0019199

	he Work:	Engagement of Consultant for preparation and approval for SITE SPECIFIC WILDLIFE AND DIVERSITY CONSERVATION PLAN for Amalgameted Lease area of Kiriberu-Neghahaluburu inon Ore Mines located in Saranda Forest Division of West Stratable in the Consultant C
Ref.	1.	Our MT No: CCM/MOTOCOMPT As
10.11	12.	Your Offer Dates: 05/11/2029/Pertanded Plates
	3.	OUT LOA NO: CCMS0SMTACONMINAL
100,000	4.	1501 F28.750/- (Ristance Targetta Circle Viscource Co.
	1.00	EMO: \$15.000/JSubmitted Monte Policy
1	lt)	EMD: \$15.000/-Submitted MSME Decument) Hence exampled from submission of EMD. Belance ISD Amount: \$25,750- Ruposs Twenty-Sight Twenty-
0.00	5.	you wite Online Transaction from Asia Bankfar, NL, Deber 25, 11, 2020 PG Amount 23,70,0004 (Rupees Three Lish Seventy Thousand Only) deposited by you wite BG Nor OGT0856210050245, Deber 64/01/2021 (valid upto 03.04.2021)

We are pleased to accept your aforessid tender for the above work and to award the same on the terms and conditions of the tender document and Socpe of Work cure Price Schedule arraced herewith as Amesure-I and subject to the following:

Fr1,50,000.00[Rupoes Eleven Lakh Fifty Thousand only].

2. 26

Date of Commoncement : 13.02,2021 or actual date of communicement of work, whichever is earlier.

Period of Contracts Paying Authority

: 93 (Three) Monthsfrom the date of commencement of work.

Place of Work

: Head of Finance & Accounts Department pooning

Place of Work

- Actstylanaw lease area of HDM-MOM (Total Lease area 2597-450Ha) & SKm buffer zone

(NL

Maintenance Period : ML. Inspect Oper Auth Engris : Shri Manoj Kurrar, DGM(E&L), MIDM

B. Executing Authority

: Shri Praveen Kumer, AGM (Mining)/Vo, E&L, Ki(OM)

2. You are requested to acknowledge the receipt of the West order within 07 [Several days of leave of the order, they signed in its dispicate copy as a token of receipt of the same.

10 You shall execute an agreement on Non-Judicial Stamp Paper worth 45%- within 10 [Fer] days of Issue of this letter & copy of same may be submitted to OC. Till a formal agreement is legared, this Work Order together with LOA, NT, Instructions on Tostevers, Form of Tender, Special Constitions of Contract (SCC) and General Conditions of Contract (GCC) shall constitute a bitiding contract between you and SAL-RIVD-Kurburu Jim One Mines.

11. You shall have to turnish GST Replanation No. # GST is to be obtained & has to clearly show the amount of GST as per rate applicable separately in the Tax invoices relied by you, otherwise in declaration indicating that the value of the baselse sensitive rendered by you in a year is less than #20,00 Labb shall be given in when these, the GST will not be payable to you.

12. The Management reserves the right to withdraw the work order and terrapose the contract at any time without giving any

Thanking you,

Yours Faithfully, Dy Gentral Manager (CC)

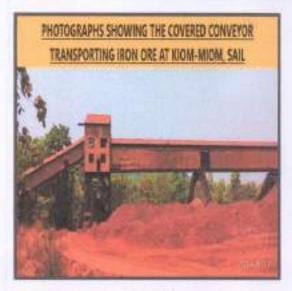
CODY to:
1. CGM [Mines], ICCM for kind information 5. AGM (Mininguite, IRAL, KICM).
2. DGM(FRI), MCM 0. Safety Officer, Kirburu.
3. DGM(FRI), KICM 7. Range Officer, Kirburu.
8. Ov Communitant, CISF

SAIL, RMD, KOM AROM Group of Mines K. B. Seetel SR Dy General Manager (CC) SAS, ASSO CON MIN

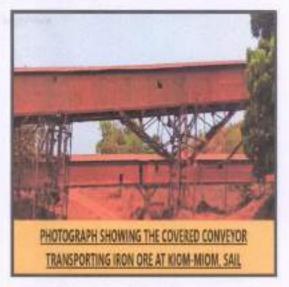
WORK ORDER COPY OF CEMC, BHURNESHWAR FOR SITE- SPECIFIC WILDLIFE AND BIODIVERSITY CONSERVATION PLAN FOR KIRIBURU- MEGHAHATUBURU IRON ORE MINES

ANNEXURE-7: A- WORK ORDER COPY OF CEMC, BHUBNESHWAR FOR SITE - SPECIFIC WILDLIFE AND BIODIVERSITY CONSERVATION PLAN FOR KIRIBURU- MEGHAHATUBURU IRON ORE MINES

ANNEXURE 8- PHOTOGRAPHS SHOWING THE COVERED CONVEYOR TRANSPORTING IRON ORE AT KIOM-MIOM, SAIL

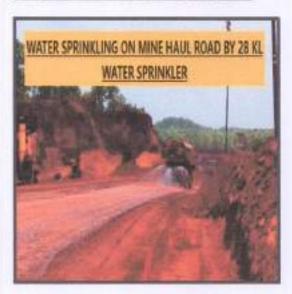


ANNEXURE-8: A- PHOTOGRAPHS SHOWING THE COVERED CONVEYOR TRANSPORTING IRON ORE AT KIOM-MIOM, SAIL

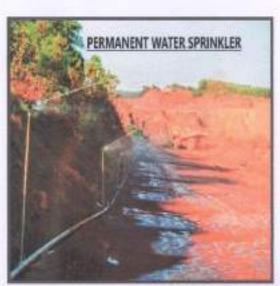


ANNEXURE-8: B- PHOTOGRAPHS SHOWING THE COVERED CONVEYOR TRANSPORTING IRON ORE AT KIOM-MIOM, SAIL

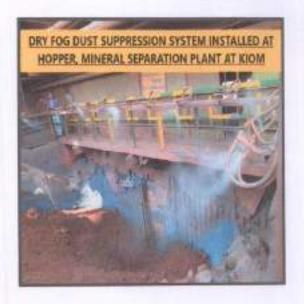
ANNEXURE 9- PHOTOGRAPH SHOWING THE DUST SUPPRESSION THROUGH WATER SPRINKLERS AND DRY FOG DUST SUPPRESSION SYSTEM AT KIOM-MIOM, SAIL



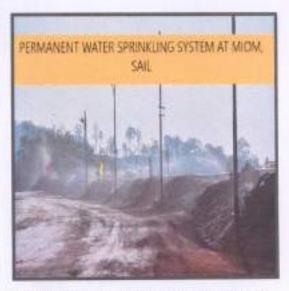
ANNEXURE-9: A- 28 KL WATER SPRINKLER
MOUNTED ON DUMPER, SPRINKLING ON HAUL
ROAD AT KIOM



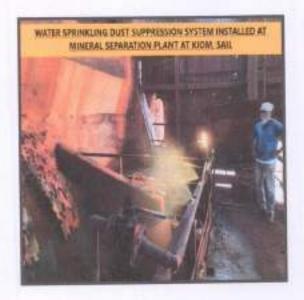
ANNEXURE-9: B- PERMANENT WATER SPRINKLER INSTALLED AT KIOM MINE HAUL ROAD



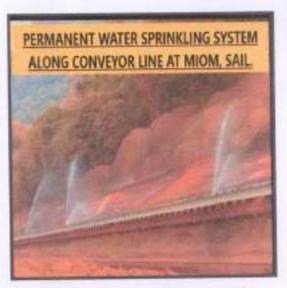
ANNEXURE-9: C- DRY FOG DUST SUPPRESSION SYSTEM INSTALLED AT HOPPER, MINERAL SEPARATION PLANT AT KIGM, SAIL



ANNEXURE-9: E- PERMANENT WATER SPRINKLING SYSTEM AT MEGHAHATUBURU IRON ORE MINES. SAIL

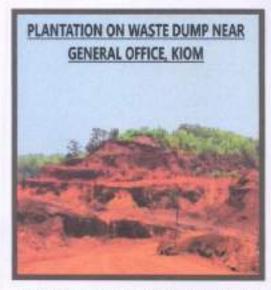


ANNEXURE-9: D- WATER SPINKLING DUST SUPPRESSION SYSTEM INSTALLED AT MINERAL SEPARATION PLANT AT KIOM, SAIL

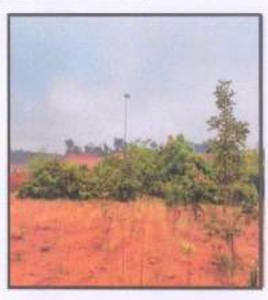


ANNEXURE-9: F- PERMANENT WATER SPRINKLING SYSTEM AT MEGHAHATUBURU IRON ORE MINES. SAIL

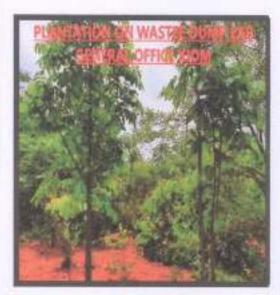
ANNEXURE 10- PHOTOGRAPH SHOWING PLANTATION AT VARIOUS LOCATIONS OF MINES, TOWNSHIP & COIR MATTING & COPY OF MOU SIGNED BETWEEN RMD, SAIL KIOM & IFP RANCHI FOR ECORESTORATION ON MINED OUT AREA KIOM-MIOM, SAIL



ANNEXURE-10: A- PLANTATION ON WASTE DUMP NEAR GENERAL OFFICE, KIOM



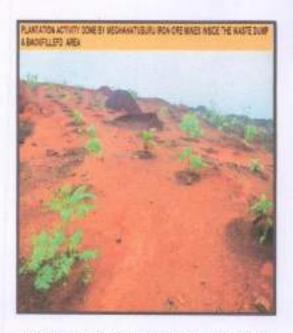
ANNEXURE-10; C- PLANTATION ON BACKFILLED AREA NEAR MINERAL SEPARATION PLANT, KIOM



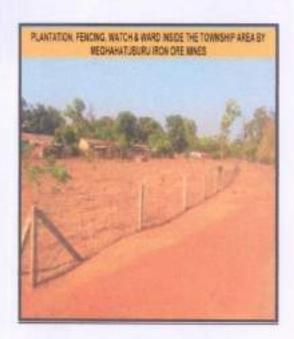
ANNEXURE-10: B- PLANTATION ON WASTE DUMP NEAR GENERAL OFFICE KIOM



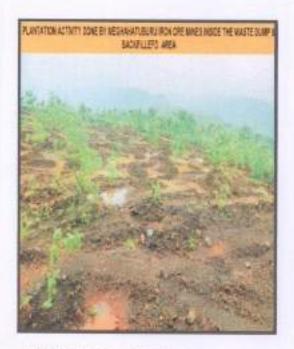
ANNEXURE-JO: D- PLANTATION ON BACKFILLED AREA NEAR MINERAL SEPARATION PLANT, KIOM



ANNEXURE-10: E- PLANTATION ACTIVITY DONE BY MEGHAHATUBURU IRON ORE MINES INSIDE THE WASTE DUMP & BACKFILLEFD AREA



ANNEXURE-10: G- PLANTATION, FENCING, WATCH & WARD INSIDE THE TOWNSHIP AREA BY MEGHAHATUBURU IRON ORE MINES



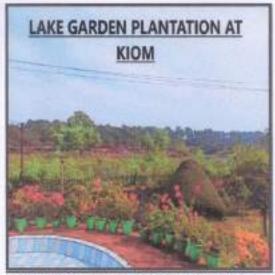
ANNEXURE-10: F- PLANTATION ACTIVITY DONE BY MEGHAHATUBURU IRON ORE MINES INSIDE THE WASTE DUMP & BACKFILLEFD AREA



ANNEXURE-10: H- PLANTATION DONE BY MEGHAHATUBURU IRON ORE MINES IN TOWNSHIP AREA AT MEGHA NIKUNU GARDEN



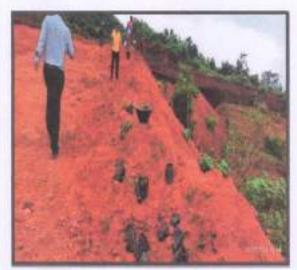
ANNEXURE-10: I- GREEN HOUSE AT LAKE GARDEN KIOM, SAIL



ANNEXURE-10: K- LAKE GARDEN PLANTATION AT KIOM, SAIL



ANNEXURE-10: J- SURVEY & PREPARATORY WORK
DONE BY OFFICIALS OF IFP RANCHI IN
CONSULTATION WITH OFFICIALS OF KIOM



ANNEXURE-10: L- PLANTATION ON BACKFILLING AREA BY IFP RANCHLAT KIOM



Government of Jharkhand

Receipt of Online Payment of Stamp Duty

NON JUDICIAL

Receipt Number : 95ab5dec8e9d93585d38

Receipt Date : 16-Jan-2021 10:53:37 am

Receipt Amount : 100/-

Amount In Words : One Hundred Rupees Only

Decument Type : Agreement or Memorandum of an

Agreement

District Name : West Singhbhum

Stamp Duty Paid By : KIRIBURU IRON ORE MINES RMD SAIL

Purpose of stamp duty paid : AGREEMENT

First Party Name : INSTITUTE OF FOREST PRODUCTIVITY

RANCHI

Second Party Name : KIRIBURU IRON ORE MINES RMD SAIL

GRN Number: 2103844105

- This stamp paper can be verified in the tharmbandhan site through receipt number -

डाव नितिन युक्तकणी

DILIP KUMAR BARMAN

This Receipt is to be used as proof of payment of stamp duty only for one declinent. The use of the same receipt as proof of payment of stamp duty in another document through reprint photo copy or other means is penal offeren under section-62 of Indian Stamp Act, 1899

दश नसीय का अध्योग केवल एक ही दस्तावेक पर शुप्राक शुप्त कर भुगताम के प्रभाज हेए ही किया जा शक्का है। पुन: जिन्ह कर अथवा फोरो कॉरी आदि द्वारा देशी रसीय का दुलर दननावेळ पर नुद्रांक शुक्त का भूगतान के प्रमाण देतु उपयोग भारतीय मुडाक कपिनियम, 1899 की यारा 62 अन्तर्गत दखनीय अपराध है।

ANNEXURE-10: M- COPY OF MOU SIGNED BETWEEN RMD, SAIL KIOM & IFP RANCHI FOR ECO-RESTORATION ON MINED OUT AREA OF 10 HA AT KIOM



Government of Jharkhand

Receipt of Online Payment of Stamp Duty

Receipt Number | 0f2af455e9543651213f

Receipt Date : 16-jan-2021 10:49:12 am

Receipt Amount : 100)-

Amount in Words : One Hundred Rupees Only

Document Type : Agreement or Memorandum of an

Agreement

District Name + West Singhbhum

Stamp Duty Paid By | MEGHAHATUBURU IRON ORE MINES

RMD SAIL

Purpose of stamp duty paid : AGREEMENT

First Party Name : MEGHAHATUBURU IRON ORE MINES

RMD SAIL

Second Party Name | INSTITUTE OF FOREST PRODUCTIVITY

RANCH!

GRN Number : 2103844016

- This stamp paper can be verified in the parmbandhan site through repsipt number -





This Receipt is to be used as proof of payment of stamp duty only for one document. The use of the same receipt as proof of payment of stamp duty in another document through reprint, photo copy or other means is penal offence under section-62 of Indian Stamp Act, 1899

इस रहीद का उपयोग करन एक है। दानाविज पर मुद्दाल जुन्क का भुगतान के प्रमाण देतु ही किया जा बकता है। पुत्र। प्रिन्ट कर अथवा जोटी वॉपी आदि द्वारा देवी स्वीत के दुनरे दानाविज पर मुद्दाक शुल्क का भुगतान के प्रमाण हेतु अथवास असतीय नुद्राका अधिनियम, 1809 की बारा 62 अनतर्गत दमक्तीय अपराध है।

ANNEXURE-10: N-COPY OF MOU SIGNED BETWEEN RMD, SAIL MIOM & IFP RANCHI FOR ECO-RESTORATION ON MINED OUT AREA OF 8.5 HA AT MIOM, SAIL

ANNEXURE 11- WORK ORDER COPY FOR CONSTRUCTION OF 3
NUMBER OF SEWAGE TREATMENT PLANTS FOR TOWNSHIP
HOUSEHOLDS AT KIOM-MIOM, SAIL

Christian Christ

CONTRACT AGREEMENT

BETWEEN



STEEL AUTHORITY OF INDIA LIMITED (RAW MATERIALS DIVISION)

&

M/s SOPHISTICATED INDUSTRIAL MATERIALS ANALYTIC LABS PVT. LTD.

FOR

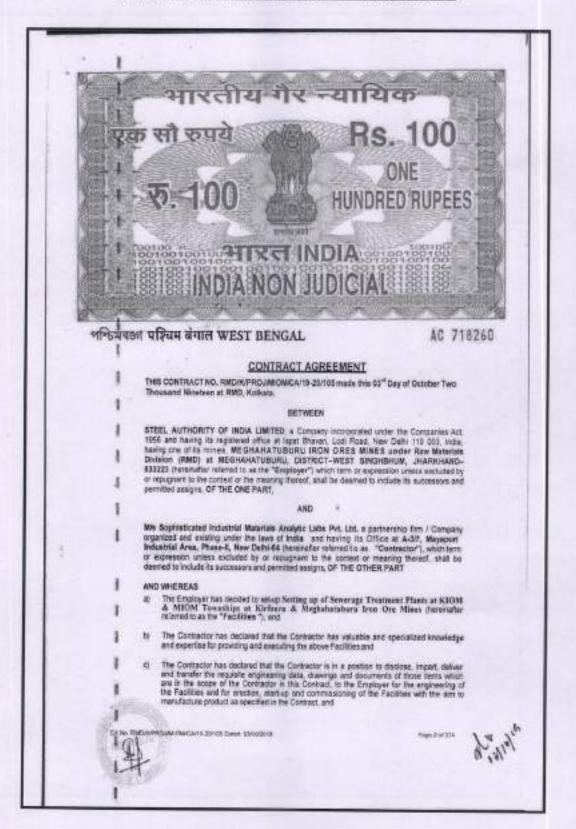
SETTING UP OF SEWERAGE TREATMENT PLANTS AT KIOM & MIOM TOWNSHIPS AT KIRIBURU & MEGHAHATUBURU IRON ORE MINES

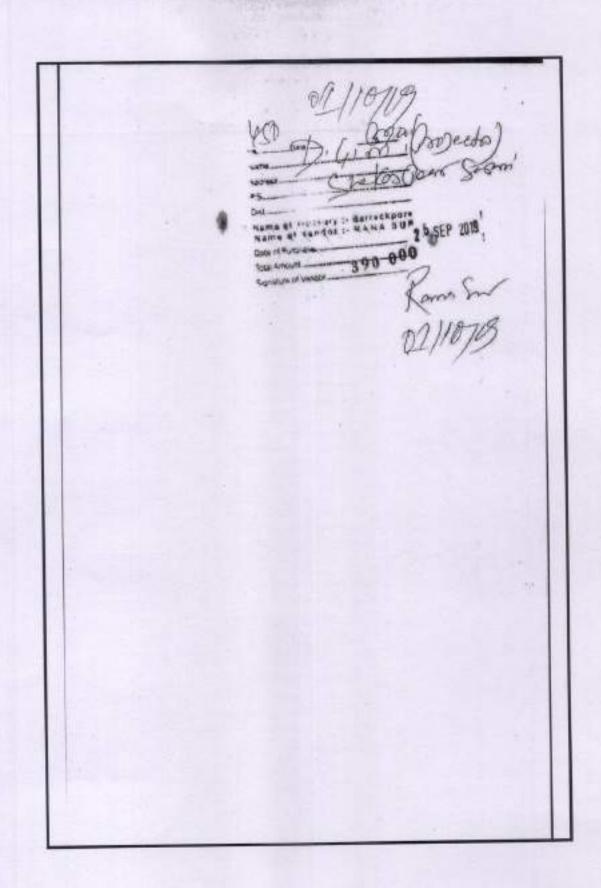
CONTRACT AGREEMENT NO.

RMD/K/PROJ/MIOM/CA/19-20/105 DATED: 03/10/2019

CA 14, PMDHCPROLENDWICHTH-25185 CHAR SEPORCE

Page Collin





- 33 The Contractor has only and injections or training and growing superations in an experimental superation of a bottom and has evaluated and contained an observation, consistent and superations of a bottom and training and contained and observations of the contained and superation of the contained and superation and superations and observations of the product of the contained and an experimental and superation and expensively, and expensively and expensively of some descriptions of the contained and expensively and advantage a

NOW IT IS HEREBY AGREED AN INCOME.

Article 1 Contract Decuments

- 1.1 Dathitions (Reference GCC Course 1)
- 1.2 Contract Documents (Followings 0000 Daylor 2)

The following documents shall constitute the Contract between the Employer and the Contracts and which shall be lead and constitute on an integral part of the Contract.

- (b) This Contract Agreement and Appendices hereig
- (B) Service Conditions of Contract and Acheuse News)
- (c) Safety code for Contractors
- 10 General Conditions of Contract and America harvis
- (6) Contact Terreical Specifications
- (f) LOA hazing by the Employer & accepted by the coroladur.
- (g) Substres of Survey of Swings (excing).
- 1.3 Getter of Precedence (Reference GCC Clause 7)

In the event of any ambiguity or confect between the Contract Documents lated above, the order of processings shall be the order in which the Contract Documents are based in Article 1.2 (Contract Documents) above.

Added: 2 Contract Prior and Turns of Payment

2.1 Contract Price (Reference GOC Clause 16 & Aspendier)

The Energyer handly agrees to any for the Contraction the Contract Price in personnel of the performance by the Contractor of its integration recognition. The Comman Price is P. 128_27_412.60 (Repeats More Cover, Twenty Lists, beyong several Tripusance, from faunths towards and state personnelly productive of GSTgg1275) or such other such as many the contraction of the Comman as may be constructed in accordance with the terms and conditions of the Comman.

2.5 Terms of Parenty (Reference Appendix 1):

The terms of payment are given in Apparent 2 and 500 stouce no - 19.

23 Price Addressment due to Vertellina in Price budges (Pelmenia Appendio-4)

Price adjustment is appropriate as per Appendix A pricine Date Colo. Short to 16,04,2019

OF No. INSULATIONAL CAPITATION CONTINUES CONTI

PARTITION.

Attick 1 Effective Date

1.1 The Effective Date of Contract shall be 24-08-2816.

Afficials Score of Facilities Palmence (ICC Clours 7 & Technical Specifications)

- 4.1 The Context is for the exerction of Social of Facilities as epicified in the GCO Clause 7 and Trachical Specifications, on deside numbery bests. The quantities adopts of any time are inclusive only for the purpose of making projects pagments as provide hadis at eye fide-Clause 2.1 of appendix I.
- 4.2 Should the actual parameter weights other than the miscrate ones, testing the Commenter shall be sented to got any appearance poor from the Emphase not it the Emphase actual to should any amount from the Comment Face due to samples or physical parameter weight.

Added Time for Completion Reference QCC Clause & & Appendix D

5.1 The Facilities will be contributed in 24 (Twenty fourt from the Effective Date of the Contract.

The Performance Bank Gustavies (PBC) shall be substituted by the Contractor wildo 30 days of legistry of Contract.

Articles Consultant

6.1 Conser for Employedness and Technologies (CET), Rangini shall be the Consultant for this project. The consultant in relation to the Context, shall have each functions as one delegated to born or as may be delegated to tent by the Employee have take to take. Employer shall king the Contexts informed of each cologistist.

ACTION 2 Managementing (National and Colombia 19)

T. 1 Tris stuff in as per GCC Charactiff

Action & Liquidated Developes (Vehicles on DCC Course (7 & 21)

4.1 Limitated Decayse due to Delay in Completion of Facilities (Reference OCC Sch-Clause (m.))

If the Contexto fails in allan Completon of the Spotteen within the Tone for Completon or any entire on the service clause 42 (Enteredon of Terre for Completon) of 9000 due to recome advocable to the Completon for Employer shell recome the arroant of Laucelane Shangpar, had only why of spots, by making described from two life Completon is account on the context of Completon Sand Completon from the Completon Formaction and the origin of the Completon Formaction and the completon for the Completon Formaction and the completon of the Completon for t

4.3 Limithter Danasse by Non-LPRInest of Federator Guarantee Patenties of

Earliking (Heference GCC Clause 2/)

for reasons abriquiable to the Contratter: the performance quarantee parameters specified in Apparettic-5 on not not either a whole or in part, the Contractor shall or the CHI and expense make each changes, readheatons and in adolesce to the Facilities or any part theory? 31 (via) to reconstry to meet performance purposes personners. The

CA SE EMDREPROJEKOMOMOM POPORTOMA EDICIONA

(Special Inc.



dienfology

Contactor shall north, the Engloyer upon completion of the recoccary changes modifications and or additions and the Contactor shall be allowed by the Employer to open the conformation guarantee tests twice ofter this campaign of guarantee test and the Contractor frost establish the performance guarantee parameters (July) second or modifies.

Should be Contractor expresses is institute to activity the performance guarantee parameters and attains above the columnan acceptance level of performance quarteres parameters as contracts a Appendix of other in whole or an part the Employer attail recover the amount of Universities according to an attail record by exclusionals of Universities according to a state according to exclusionals of Universities according to the Appendix of the expectations according to the Appendix of the state according to the Appendix of the state according to the according to the state of passible to the Outcomes according to the according to the provision of Appendix of the State of Appendix of the State

In spec, men effor all possible reports and resourcers the Contractor talls to attain the minimum level of performance guarantee parameters in mod less constructed as Employer may as to option result the Faultines and records the commands and the Contractor or afferestated the Contractor or afferestated the Contractor to afferestated the Recipies of the Faultines at the negotiated Proper of the Contractor to acceptance of the Faultines at the negotiated Prope

The Employed shall not reject the part 5 exportment after conversationing and achievement of eminion acceptance level of PG potentials. After automatical acceptance in the inscriner acceptance level of PG parameters the child facility of the Contractor on account of oddy and demonstration of PG parameters will not be have than LO.

- The Overall Emilof Exposured Demograph and restricts Amoles & E.S. & A.J. shall be 10% of the Cantact Price plus establish if way, eschaling these and duties, increase, including for setsy to completion and iner-balliment of the PG parameters shall be 5% and 75% expenditely.
- 8.4 Any Recovery of Coocdated Damages that the effected from the amount payable to the Controller against Commissioning Performance Guerantee Test. Final Acceptance Certificats and Performance Saws Quarantee. LD will not be recovered from the curving also prior to above premarks.

Attick 3 Art traken Paterner GOT Clause To

8.1 This shall be as per minur contact of Charlest of CCC.

6/56/6.15 Limitity of Dort, of India

College 19 Services of Original Services the Contract of the Employer than the Employer is entering one this Contract solely on its sum behalf and not by behalf of any other property or entry. It yesterotes it is expressly and expect that the Contract is not a party to the Contract and has no leader solely on the specific or repris temporal. It is expressly across body and appear that the Contract is not independent or repris temporal. It is expressly across body and appear that the Employer is an independent legal wide with property and authority the deployation have of today and appearance property or in own behalf uniter the deployation have of today and appearance property or in the time of today and in the Good, of india is a further understand and agreed that the Good of india is not understand that the Employer is not apply indicated that the Contract however, and and strain into its leader for they act, provides contract, contracts and part of the Contract honorously. The Contracts honorously the Contract for the contract honorously to the Contract honorously the Contract for the contract and contract of the Contract of honorously the Contract of the contr

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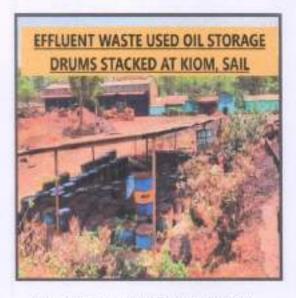


ANNEXURE-11: G- CONTRACT AGREEMENT COPY FOR CONSTRUCTION OF 3 NUMBER OF SEWAGE TREATMENT PLANTS FOR TOWNSHIP HOUSEHOLDS AT KIOM-MIOM, SAIL PAGE-7



ANNEXURE-11: H- ONGOING CONSTRUCTION OF SEWAGE TREATMENT PLANT FOR KIRIBURU-MEGHAHATUBURU TOWNSHIP

ANNEXURE 12- EFFLUENT TREATMENT & DISPOSAL FACILITY FOR USED OIL AT KIOM-MIOM, SAIL

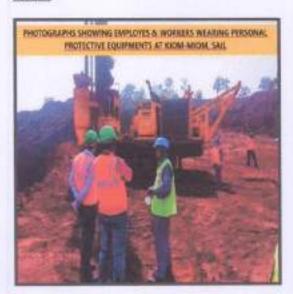


ANNEXURE-12: A- EFFLUENT WASTE USED OIL STORAGE DRUMS STACKED AT KIOM, SAIL

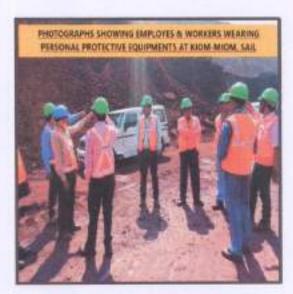


ANNEXURE-12: B- EFFLUENT TREATMENT UNIT (ETP) - EFFLUENT OIL & GREASE TRAP INSTALLED AT KIOM, SAIL

ANNEXURE 13- PHOTOGRAPHS SHOWING EMPLOYES & WORKERS WEARING PERSONAL PROTECTIVE EQUIPMENTS AT KIOM-MIOM, SAIL



ANNEXURE-13: A- PHOTOGRAPHS SHOWING EMPLOYES & WORKERS WEARING PERSONAL PROTECTIVE EQUIPMENTS AT KIOM-MIOM, SAIL



ANNEXURE-13: B- PHOTOGRAPHS SHOWING EMPLOYES & WORKERS WEARING PERSONAL PROTECTIVE EQUIPMENTS AT KIOM-MIOM, SAIL

ANNEXURE 14- COPIES OF CONCENT TO OPERATE (CTO) OF KIOM-MIOM, SAIL

COPY OF CONCENT TO OPERATE (CTO) VALID TILL 31/12/2024 PAGE-1

JHARKHAND STATE POLLUTION CONTROL BOARD

TOWNSHIP ADMINISTRATION BUILDING, HEC COMPLEX, DHURWA, RANCHI \$34004 Telephone: 0651-2400850 (Fax)/ 2400851/2400852/2401847/2400979/2400139

Ref No. JSPCB/HO/RNC/CTO-5913229/2019/25/0

Davied: 2019-12-24

Consent to operate (CTO) under section 25 /26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981

 Application (s) dated 2019-08-26 of KIRBURU-MEGHAFIATUBURU IRON ORE MINES, Occupier Name C Mukhopadhyay for consent under section 25 (1)(b)/25 (1) (c)/26 of the Water (Prevention & Control of Pollintion) Act, 1974 and under section 25(1) of the Air (Prevention & Centrol of Pollintion) Act, 1981.

2. Documents Relied Upon:

- (i.) The content of Eavisonmental Clearance (EC), Ref No. 3-1105/05/2006-IAJI (M) Dated 27.12.2006, Raf No. 3-1105/272/2007-IAJI (M) Dated 23.09.2014 issned by MoEF, Govt. of India.
- (2.) The content of Cousent-to-Establish (CTE), Ref No. G-697 Ranchi, Dated 25:03:2015.
- (3.) The content of Consent-to-Operate (CTO), vide Ref No. ISPCR/HO/RNC/CTO-1024701/2016/1991 Dated: 2016-12-31 for Iron Ore-16.0 Million Ton/annum, Mineral Beneficiation – 16 Million TPA valid up to 33:12:2019;
- (4.) The content of impection report, Ref. No. 1574 dated 13.09.2019 of Regional Office-cum-Laboratory, January of the Board.
- The consent is granted under section 25 / 26 of the Water (Prevention & Control of Pollution) Act, 1974
 such under section 21 of the Air (Prevention & Control of Pollution) Act, 1981 to operate the project in
 Massa KARAMPADA , P.S. KIRIBURU , District WEST SINGHBHUM , as follows:

Project	Site-Arica		Investment (Rs)	Product & Capacity	Period of CTO
	Plot Nos.	Area			Date of issue To
Before Expunsion	Block No. 15, - Karampada, P.O. Kinburu, Dist. West Singhblum	As per EC	98983 Lacs	hon Ore-16.0 Million Tou/annin, Mineral Beneficiation – 16 Millios TPA	31/12/2024

(A) Specific Conditions:

PAGE-2

- That, the occupier shall comply all the conditions imposed in Forest Clearance Letter No. F-No.-8-68/2591-FC (PT) and carry out usining activity over such Forest Area only for which due approval from the competent authority has been obtained.
- 2. That, the occupier shall obtain approval under the F.C. Act for diversion of entire forest land within the mining lease within a period of 2 years from the date of issue of the guidelines vide F. No. 11-362/2012-FC, MOFF, Govt. of India (FC Division) dated 01.02.2013 failing which the mining lease area will be reduced to the non-forest area plus the forest area for which the unit has been able to obtain Environmental Clearance at the end of this time period.
- 3. That, the occupier shall do sprinkling of water time to time on haul roads and dust prone areas.
- That, the occupier shall take initiative to mitigate pollution of Koina river and Karo river in consultation with the State Pollution Coutrol Board and shall submit action taken report within two meeths.
- That, the occupier shall construct sewage treatment plant for the colony as per time bound action plan submitted by the unit. ETP should also be provided for workshop and mineral separation plant.
- That, the occupier shall carry out blasting operation during the day time. Controlled blasting shall be practiced. The initigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.
- That, the occupier shall keep the vehicular emission under control by regularly monitoring of the
 vehicles used in mining operations and in transportation of minerals. The engaged vehicles shall be
 covered with a tarpantin and shall not be overlanded at any cost.
- That, the occupier shall re-circulate the decanted water from the beneficiation plant and slime bailing pond within the mine and there shall be zero discharge from the mine.
- The mining operations shall be restricted to above ground water table and it should not intersect with ground water table.
- Plantation on the OB dump slopes has to be increased and managed properly. Housekeeping should be maintained in the specified area.
- 11. The top soil, if any shall temporarily be stored at earmarked site only and it should not be kept undenutilized for long. The top soil shall be used for land reclamation and plantation. The overburden generated during the mining operations shall be stacked at earmarked dump site only and it should not be kept active for a long period of time. The maximum height of the stack should not exceed 8 m and width 20 m and overall slope of the dump shall be maintained at 45 degrees.
- 12. Catch drains and siltation pend of appropriate size shall be constructed around the mine working, mineral and OB dump to prevent runoff of water and flow of sediments directly into the river and other water bodies.

PAGE- 3

- That, the occupier shall adopt clean development mechanism.
- 14. That, the occupier shall provide adequate no. of high efficiency dust extraction system in mineral hundling plant loading and unloading meas including all the transfer points should also have efficient dust control arrangements. The should be properly maintained and operated.
- 15. That, funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Your wise expenditure should be reported to the Ministry as well as the State Pollution Control Board.
- 16. That, the occupier shall comply the conditions of Environmental Clearance and shall submit six monthly compliance report of it to the Board.
- 17. That, the occupier shall grant of this Consent-to-Operate is issued from the Environmental angle only and does not absolves the project proponent from the other standary obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the inclustry /mit/project proposent.
- 18. That, the grant of fais Consent-to-Operate shall not, in any way, adversely affect or jeografize the legal proceedings, if any, instituted in the past or that could be instituted against you by the State Board for violation of the provisions of the Act or the Rules made there under
- 19. That, the occupier shall submit applications for renewal of coment under section 25 / 26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981 again 120 days prior to the date of expay of this consent i.e. 31.12.2024 with requisite fee and documents showing compliance of all of the above conditions.
- 20. This CTO will supersede the previous CTO issued vide ref.no. JSPCB/HO/RNC/CTO-1024701/2016/1091 Dated: 2016-12-31 valid up to 31-12-2019 for further period.
- That, the occupier shall install CAAQMS and PM10 analyzer with connectivity to website of the Board, within 03 months, failing which Environmental Compensation shall be levied from date of issued of this Consent to operate(CTO);
 - (B) General Conditions:
 - That, the occupier shall maintain the National Ambient Air Quality Standard given below:

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			Concentration	in Ambient Air
N.	Pollutant	Time Weighted Average	Industrial Residential, Rural and Other Assa	Ecologically Sensitive Area (notified by Central Govt.)
(1)	(2)	(3)	(4)	(5)
L	Sulphur Dioxide (SO2), pg/m3	Amoul 24 hours	50 80	10 80
2.	Nitrogen Dioxide (NO2), pg/m3	Armual 24 hours	40 80	30 80
3.	Perticulate Matter (size less flori 10 µm) or PM10, pg/m3	Amusi 24 hours	60 100	60 100
4.	Particulate Matter (size less than 2.5 jum) or PM2.5, jup/m3	Amoust 24 hours	40 69	40 60
5.	Ozone(O3), ag/m3	8 hours 1 hour	100 180	100 180
6.	Lead (Pb) pg/m3	Amsel 24 hours	0.50 1.0	6:50 1:0
7.	Carbon Monoxide (CO) mg/m3	8 hours 1 hour	02 04	02 04
В.	Ammonia (NH3) pg/m3	Amusi 24 lours	100 400	100 400
9.	Benzene (C6H6) pp/m3	Annual	05	05
10.	Henzola) Pyrene(BaP) Particulate Phase only ng/m3	Annual	01	01
11.	Americ (As) ag/m3	Annual	06	06
12.	Nickel (Ni) ng/m3	Annual	20	20

Note : Serial no. I to 4 – Mandatory Serial no. 5 to 12 As applicable for specific type of industry.

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(3) That, the occupier shall keep process efficient in close-circuit and the quality of efficient from other sources in conformity with the standard (s) and the discharge quantity as below:

SN	Parameter	Standard
1	Total Suspended Solids	100 mg/ Nm3
2	BOD	30 mg/L
3	COD	250 mg/L
4	Oil & Grease	10 mg/L

(4) That, the occupier shall dispose of solid wastes as follows:

SN	Waite Type	Mode of Disposal
1	Hazardous Carbonaceous Wastes	As a substitute of Soil or Mineral
2	Hazardous Non-Carbonaceous Wastes	In co-processing in high temperature furnaces or kiins
3	Non-Carbonaceous Non- Hazardous solid wastes/ Mine Over Burden	In TSDF

- (5) That, the occupier shall keep D O Set(s) within accessic enclosure and shall keep the height(s) of exhaust pipe(s) so per Central Pollution Control Board norm.
- (6) That, the occupier shall instell and maintain Central Ground Water Board: State Ground Water Directorate approved system of rais water harvesting-count-ground water recharge and submit the photographic view of the structures within a month.
- (7) That, the occupier shall grow and maintain greenery of the project in the periphery and other available spaces and shall continue coloricing its plant density and biodiversity.
- (8) That, the occupier shall submit environmental ensement with supporting stoichiometric calculations analyses reports, every year latest by 50th September of the next financial year.
- (9) That, the occupier shall submit report(s) duly monitored and issued by an NABL accredited / ISO 9001:2008 and OHSAS 18001:2007 entitled laboratory in compliance sub-para (2), (5), (4) and (5) of pacagraph 3 of this CTO yearly at required periodicity.
- (10) That, this CTO is valid subjected to the validity of mining Lease-Mining Plan/Ecofliendly/Environmental Commune, if applicable, he case of no renewal of Mining Lease-Mining Plan, this consect shall be treated as revoked automatically.

ANNEXURE-14: E- COPY OF CONCENT TO OPERATE (CTO) VALID TILL 31-12-2024 OF KIOM-MIOM, SAIL

PAGE-5

PAGE-6

- (11) That, this CTO is issued from the environmental angle only and does not absolve the occupier from other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility to comply with these conditions laid down in all other laws for the time-being in Scree, rests with the industry/ mil/ occupier.
- (12) That, this CTO shall not in any way, adversely affect or jeopardize the legal proceeding. If any, instituted is the past or that could be, instituted against you by the State Board for violation of the provisions of the Act or the Rules made there under.
- (13) That, the occupier shall comply with all applicable provisions of the Water (Prevention & Control of Pollution) Act, 1974; the Water (Prevention & Control of Pollution) Cess Act, 1977; the Air (Prevention & Control of Pollution) Act, 1981; and the Environment (Protection) Act, 1986 and Rules made there under.
- That, this CTO shall not absolve the occupier from making compliance of other statutory prescribed under any law or direction of courts or any other instrument for the time being in faces.
- That, this CTO is being issued on the basis of information/ documents/ certificate submitted by the unit. This CTO will be revoked if any of the information/documents/certificates/undertaking given by the occupier is found false/fictitious/forged in future.
- 6. The Order shall be valid subject to compliance of all other legal requirements applicable to the unit.
- The State Board reserve the right to revoke, withdraw or make any reasonable variation / change / alteration in conditions of this consent.

This is issued with the approval of the Competent authority

(Rajeev Lochan Bakshi) Member Secretary

Dated: 2019-12-24

Means No.: JSPCB/HO/RNC/CTO-5913229/2019/2540

Copy to: General Manager (Mines), Kiriburu-Meghahatuburu Iron Ore Mines of M/s. SAIL, Kiriburu-Meghahatuburu, Dist. West Singhbhum / D.F.O., Saranda Forest Division, Chaibasa, West Singhbhum / D.M.O., Chaibasa, West Singhbhum / Regional Officer, Regional Office, Janushedpur for information & necessary action. He should ensure that river Knina and Karo may not be polluted due to mining operation.

(Rajeev Lochan Bakshi) Member Secretary

ANNEXURE-14: F- COPY OF CONCENT TO OPERATE (CTO) VALID TILL 31-12-2024 OF KIOM-MIOM, SAIL PAGE-6

COPY OF CTO VALID TILL 30/09/2023

JHARKHAND STATE POLLUTION CONTROL BOARD

TOWNSHIP ADMINISTRATION BUILDING, HEC COMPLEX, DHURWA, RANCHI 834604 Telephone: 0651-2400850 (Fax)/ 2400851/2400852/2401847/2400979/2400139

Ref No. JSPCB/HO/RNC/CTQ-9151117/2020/1690

Dwwd: 2020-12-07

Consent to operate (CTO) under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981.

 Application (s) dated 2020-10-15 of KIRIHURU-MEGHAHATUBURU IRON ORE MINES, Occupier Name: R P SELVAM for consent under section 25 (1)(b)/25 (1) (c)/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21(1) of the Air (Prevention & Control of Pollution) Act, 1981...

2. Documents Relied Upon:

- (a) The content of Letter from MoEF&CC (Forest Conservation Division) vide F. No. 8-69/1991-FC (Pt) dated 26.11.2014 regarding renewal of mining lesse covering 644.26 Ha mof forest land for Kiribura Meghataburu group of Mines (Total lease area 1936.06 ha) in favour of Mis SAIL.;
- (b) The content of Environmental Classence (EC) vide J-11015/272/2007-IA.II (M) dated 23:09:2014 from MoEF, New Delhi;
- (c) The content of Mining lease issued vide 1255 dated 30.07.2019 for the period up to 27.03.2020 from Mines and Geology. Govt. of Jharkhood and later annualed vide 1750 dated 23.10.2019 declaring the area to be read as \$2.00 Hz instead of \$1.97 Hz and total area to be read as 2897.499 Hz instead of 2897.469 Hz.
- (d) The content of Letter from Impact Assessment Division vide F.No. J-11015/272/2007-1A. B (M) dated 36.07-2020 regarding Proposal for clumps in excavation & dispatch pottern of Kiribaru Meghahamburu iron Ore Mining project [ML Area 2897-599 Ht] of M's Steel Authority of India Limited (SAIL), located at Villages Kuibaru, Meghahamburu & Kammpada Reserve Forest, Tehall-Noamandi, District West Singhibaru, Bankhand - EC under Para 7;
- (e) The correct of Coasent to establish (CTE) vide Bof No. JSPCE-HO-RNC/CTE-86-18968/2020/878 Dated: 2020-09-30 for Tailing disposal from Meghamburu and Eiriburu - 1 MIPA flora each;
- (f) The content of obtained authorization vide HWM-1149245/2019/26 dated 03:08:2019 for 05 years;
- (g) The centent of inspection report vale 1045 dated 31.10.2020 instead by Regional Officer, Regional Office-Cum-Laboratory, Jamabodyne;
- The consent is granted under section 25 / 26 of the Water (Provention & Control of Pollution) Act, 1974
 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981 to openite the project in
 Matter & KARAMPADA PS KIRIBURU District WEST SINGSERHUM at follows:

Project	Site-Apra		livestment (Rs)	Product & Capacity	Period of CTO
	Plot Nos.	Area			Date of issue

ANNEXURE-14: G-COPY OF CONCENT TO OPERATE (CTO) VALID TILL 30-09-2023 OF KIOM-MIOM, SAIL

PAGE-1

Before Expension	Mauza : KABAMPAD A Khata No. : BLOCK NO. 15 Klassa No. KABAMPAD A, TOTAL 14 NOS	2897.46 9 Ha.	255 lakh	Tailing disposal from Meghatann and Rinburn - 1 MTPA from each.	30/09/2023
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(A) Specific Conditions:

- 1. That, the occupier shall do sprinkling of water time to time on hall roads and dust prone areas.
- That, the occupier shall construct sewage treatment plant for the colony as per time bound action plan submitted by the unit. ETP should also be provided for workshop and mineral separation plant.
- That, the occupier shall carry out blasting operation during the day time. Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.
- 4. That, the occupier shall keep the vehicular emission under control by regularly monitoring of the vehicles used in mining operations and in transportation of minerals. The engaged vehicles shall be covered with a tarpaulin and shall not be overloaded at any cost.
- That, the occupier shall carry out blasting operation during the day time. Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.
- That, the occupier shall keep the vehicular emission under control by regularly monitoring of the vehicles used in mining operations and in transportation of minerals. The engaged vehicles shall be covered with a tarpaniin and shall not be overloaded at any cost.
- That, the occupier shall re-circulate the decanted water from the beneficiation plant and slime/tailing poud within the mine and there shall be zero discharge from the mine.
- Plantation on the OB dump slopes has to be increased and managed properly. Howekeeping should be maintained in the specified area.
- Catch drains and siltation pend of appropriate size shall be constructed around the mine working, mineral and OB dump to prevent runoff of water and flow of sediments directly into the river and other water bodies.

- 10. That, the occupier shall adopt clean development mechanism.
- 11. That, the occupier shall provide adequate no. of high efficiency dust extraction system in mineral handling plant loading and unloading areas including all the transfer points should also have efficient that control arrangements. The should be properly maintained and operated.
- That, the occupier shall comply the conditions of Environmental Clearance and shall submit six monthly compliance report of it to the Board.
- That, the occupies shall install CAAQMS and PM10 snalyzer with connectivity to website of the Board,
- within 03 months, failing which Environmental Compensation shall be levied from date of issued of this Consent to operate(CTO);
- 14. That, the occupier shall selection applications for renewed of consent under section 25 / 26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981 again 120 days prior to the date of expany of this consent i.e. 30.09.2023 with requisite fee and documents showing compliance of all of the above conditions.
- 15. That, the occupier shall do excevation and dispatch of Tailings maximum up to @IMTPA each from the Tailing ponds of Kiriburu and Meghatuburu Iron ore mines keeping the total production within the approved EC sanctioned capacity of 16 MIPA i.e. 7.5 MIPA of Kiriburu Iron Ore mine and 8.5 MIPA from Meghatuburu Iron Ore Mines;
 - (B) General Conditions:
 - (1) That, the occupier shall maintain the National Ambient Air Quality Standard given below;

			Concentration	in Ambient Air
N	Pollutant	Time Weighted Average	Industrial, Residential, Rural and Other Area	Ecologically Sensitive Area (ossified by Central Govt.)
(1)	(2)	(3)	(4)	ග
1.	Sulphur Dioxide (SO2), µg/m3	Armed 24 hours	50 86	20 80
2.	Nitropen Dioxide (NO2), µg/m3	Annual 24 hours	40 80	30 30
3.	Particulate Matter (size less than 10 µm) or PM10, µg/m3	Arrmal 24 hours	60 100	60 100
4.	Particulate Mother (size less than 2.5 jum) or PM2.5, jug/m3	Arrival 24 hours	40 60	40 60
5.	Ozoae(C3). µg/m3	8 hours Thour	100 180	100 180
6.	Land (Pb) paying	Annud 24 hours	0.50 1.0	0.50 1.0
7.	Carbon Monocide (CO) mates	8 hours Thour	02 04	02 04
8.	Anmonia (NH3) µg/m3	Amount 24 hours	100 400	100 400
9,	Benzene (C6HS) pg/m3	Amuul	05	05
10.	Benzo(a) Pyreac(BaP) Particidate Plane only ng/m3	Annai	01.	01
11.	Arsenic (As) ng/m3	Amral	06	06
12.	Nickel (Ni) ng/m3	Amoust	20	20

Note : Serial no. 1 to 4 - Mandatory Serial no. 5 to 12 As applicable for specific type of industry.

(2) That, the occupier shall maintain the craiseion quality within the standard and the quantity, as follows:

SN	Parameter.	Standard	
1.	Particulate Matter	100 mg/ Nm3	

(3) That, the occupier shall keep process effluent in close-circuit and the quality of effluent from other sources in conformity with the standard (s) and the discharge quantity as below:

SN	Parameter	Streaterd
1	Total Suspended Solids	100 mg/L
2	BOD	30 mg/L
3	Oil 8 Grease	10 mg/L
4	COD	250 mg/L

(4) That, the occupier shall dispose of solid wastes as follows:

SN	Weste Type	Mode of Disposal
1	Hazardous Carbonaceous Wastes	In co-processing in high temperature furnaces or kilns
2	Hazardous Non-Carbonaceous Wastes	In TSDF
3	Non-Carbonaceous Non- Hazardous solid wastes/ Mine Over Burden	As a substitute of Soil or Mineral

- (5) That, the occupier shall keep D G Set(s) within accoustic enclosure and shall keep the height(s) of exhaust pipe(s) as per Countil Pollution Control Board form.
- (6) Thut, the occupier shall install and maintain Central Ground Water Board' State Ground Water Directorate approved system of rain water horvesting-cum-ground water recharge and submit the photographic view of the structures within a month.
- (7) That, the occupier shall grow and maintain greenery of the project in the periphery and other available spaces and shall continue enhancing its plant density and biodiversity.
- (8) That, the occupier shall submit environmental statement with supporting strichemetric calculations analyses reports, every year latest by 30th September of the next financial year.
- (9) That, the occupier shall submit report(s) duly monitored and issued by an NABL accessined / ISO 9001 2008 and OREAS 18001 2007 certified laboratory in compliance sub-pers (2), (3), (4) and (5) of paragraph 3 of this CTO yearly at required periodicity.

ANNEXURE-14: K-COPY OF CONCENT TO OPERATE (CTO) VALID TILL 30-09-2023 OF KIOM-MIOM, SAIL PAGE-5

- That, this CTO is valid subjected to the validity of mining Lause-Mining
 Plan/Ecofriently/Eco/troumental Clearance, if applicable. In case of no renewal of Mining
 Lease-Mining Plan, this consent shall be treated as revoked automatically.
- That, this CTO is assued from the environmental angle only and does not absolve the occupier from other statutory obligations prescribed under any other has or any other matrices in force. The sole and complete responsibility to comply with these conditions and down in all other laws for the time-heing in force, sests with the industry/ until occupier. (11)
- That, this CTO shall not in any way, adversely affect or jeopardize the legal proceeding, if any, instituted in the past or that could be , instituted against you by the State Board for violation of the provisions of the Act or the Rules made there under. (12)
- That, the occupier shall comply with all applicable provisions of the Water (Prevention & Control of Pollution) Act, 1974; the Water (Prevention & Control of Pollution) Cess Act, 1977; the Air (Prevention & Control of Pollution) Act, 1981; and the Environment (Protection) Act, 1986 and Rulas (13) made there under-
- That, this CTO shall not absolve the occupier from making compliance of other statutory prescribed under any law or direction of courts or any other instrument for the time being in force.
- That, this CTO is being issued on the basis of information/ documents/ certificate submitted by the unit. This CTO will be revoked if any of the information/documents/certificates/undertaking given by the occupier is found false/fictitious/forged in future.
- The Order shall be valid subject to compliance of all other legal requirements applicable to the unit,
- The State Board reserve the right to revoke, withdraw or make any reasonable variation / change / J. alteration in conditions of this consent.

This is issued with the approval of the Competent authority

PRASAD SINGH (Dinesh Prasad Singh) Environmental Engineer

Dated: 2020-12-07

Memo No.: JSPCB/HO/RNC/CTO-9151117/2020/1890

Copy to: M/s KIRIBURU-MEGHAHATUBURU IRON ORE MINES. Nonminali, West Singhbhum/ Chief Inspector of Factories, Ranchi / Director of Industry, Govt of Backhand, Ranchi/ Deputy Commissioner, West Singhbhum/ Regional Officer, Regional Office-Cum-Laboratory, Jamshedpur forinformation & necessary action.

Digitally signed by DINESH PRASAD DINESH PRASAD SINGH Date: 2020,12,07 SINGH

19/23/16 +05/30

(Dinesh Prasad Singh) Environmental Engineer

ANNEXURE-14: L-COPY OF CONCENT TO OPERATE (CTO) VALID TILL 30-09-2023 OF KIDM-MIOM, SAIL PAGE-6

ANNEXURE 15- CORPORATE ENVIRONMENTAL VISION, POLICY AND RESPONSIBILITY OF SAIL

CORPORATE ENVIRONMENTAL VISION, POLICY AND RESPONSIBILITY OF SAIL PAGE-1

Corporate Environmental Vision, Policy and Responsibility

Corporate Environmental Vision Statement;

To lead the way in building an environmentally sustainable future for the inclan iron & steel industry by integrating environmental and stakeholder concerns through resource optimisation and the adoption of cleaner technologies and best practices.

Corporate Environmental Policy

Steel Authority of India Limited, the largest steel producer of India, in its endeavour to maintain a clean and sustainable environment in and around its plants and mines, is committed to:

- Integrate sound environmental practices in all its activities.
- Comply with legal and other requirements pertaining to the environment, forests and wildlife and volunteer to go beyond.
- Contribute towards mitigation of climate change through the adoption of cleaner and energy efficient technologies.
- w. Promote development of innovative environment-triently processes and products.
- Restore ecosystems in mined out landscapes and abandoned sites through ecological restoration.
- Integrate the principle of "reduce recover, recycle and reuse" in its operations for conservation of natural resources to ensure a sustainable future.
- Strive for continual improvement of environmental performance by setting and achieving challenging targets.
- Ensure regular monitoring and review of environmental performance through a robust audit mechanism and a transparent reporting system.
- Continuously monitor emissions, discharges and ambient air quality and make data available in the public domain.
- Communicate environmental performance to all stakeholders.
- Improve employee commitment and responsibility towards environment protection through capacity building.
- Promote environmentally responsible behaviour amongst contractual workforce and suppliers.

Strategles:

To ensure sustainable future and realise the vision, the company has planned some strategic action points, which are summarised below, taking into consideration that the old production units shall co-exist with the new units installed/being installed under the ongoing modernisation-cum-expansion schemes for the coming few years:

Implementation of sound environmental practices in operations and progressively adopting best available cleaner technologies for minimizing emissions and discharges.

1

CORPORATE ENVIRONMENTAL VISION, POLICY AND RESPONSIBILITY OF SAIL PAGE-2

- Integration of four 'R's principle of Reduce, Recover, Recycle and Reuse in operation for reducing consumption of natural resources through minimising waste generation, maximising waste utilisation and optimising use of available resources.
- Reduce water consumption through improving water management practices and adopting other measures, like centralised and local recycling.
- Minimising direct and indirect impacts of mining on surrounding forests and wildlife through periodic monitoring using advanced methods, developing and implementing Site Specific Conservation Plans and other measures.
- Bio-diversity conservation through conducting bio-diversity assessment & management studies, periodic moretoring and stakeholder engagement.
- Ecological restoration of mined out areas and abandoned sites through adoption of Progressive and Integrated mine closure plans (PMCP & IMCP).
- Undertaking planned massive plantation through plantation drives at units, social torestry, creating chain of nurseries and Joint Forest Management (JFM) with state torest departments to enhance ecosystem services.
- Minimising impact of operations on environment by developing technologies for maximising use of resources and enhancing utilisation/ management of wastes through well-equipped R&D facility.
- Promoting use of renewable sources of energy and green fuels for reducing dependence on conventional energy sources.
- Monitoring, reviewing and reporting environmental parameters and clearance conditions, for compliance and improvement.
- > Strengthening of environmental administration and management reporting structure.
- Enhancing commitment towards environment protection amongst employees, suppliers & contractors through augmenting employee awareness, increasing competency, capacity building and creating knowledge platforms.
- Implementing an Environmental Management Systems (EMS) having focus on continual improvement, on review, on prevention or mitigation of adverse environmental impacts at all plants / units.

2

ANNEXURE 16- CERTIFICATE OF REGISTRATION FOR ISO 14001:2015 ENVIRONMENT MANAGEMENT SYSTEM OF KIOM & MIOM, SAIL

bsi.



Certificate of Registration

ENVIRONMENTAL MANAGEMENT SYSTEM - ISO 14001:2015

This is to certify that:

Kiriburu Iron Ore Mines Raw Materials Division (RMD) Steel Authority of India (SAIL) Kiriburu District - West Singhbhum 833 222 Jharkhand

India

Holds Certificate No:

EMS 700392

and operates an Environmental Management System which complias with the requirements of ISO 14001-2015 for the following scope:

The Mining, Processing, Loading and Dispatch of Iron Ore.

For and on behalf of BSI:

Onis Cheung, Head of Compliance & Risk - Asia Pacific

Original Registration Date: 2018-11-13 Latest Revision Date: 2018-11-13





Effective Date: 2018-11-13 Expiry Date: 2021-11-12

Page: 1 of 1

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ANNEXURE-16: A-CERTIFICATE OF REGISTRATION FOR ISO 14001-2015 ENVIRONMENT MANAGEMENT SYSTEM OF KIOM, SAIL

bsi.



Certificate of Registration

ENVIRONMENTAL MANAGEMENT SYSTEM - ISO 14001:2015

This is to comity that:

Mechahatuburu Iron Dre Mines Steel Authority of India Ltd. Raw Materials Division (RMD) Rost: Meghahatuburu District: Paschim Singhbhum 833 223 Sharkhand India

-

Holds Certificate No:

EMS 698550

and operates an Environmental Management System which complies with the requirements of JSO 14001/2015 for the following scope:

Mining of Iron Div. Processing, Loading and Disputch.

0

For and on behalf of BST.

Chris Cheurg, Head of Compliance & Blok - Asia People

Original Registration Date: 2018-09-21 Letest Revision Date: 2018-09-21



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Effective Date: 2018-09-21 Excity Date: 2021-09-20

Page: 1 of 1

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Information and Control Till. Electron Court Town Asserts, Courting Pillion Express ACT ANY TWO Is not not personally full Accessors of Localed Registerer in England Information PILLIAN ACCORDING THE FORE LINEAR WINE ALL

ANNEXURE-16: B- CERTIFICATE OF REGISTRATION FOR ISO 14001:2015 ENVIRONMENT MANAGEMENT SYSTEM
OF MIOM , SAIL

ANNEXURE 17- PHOTOGRAPH COVERING ROOF TOP & CATCHMENT POND FOR RAIN WATER HARVESTING SYSTEM OF KIOM- MIOM, SAIL



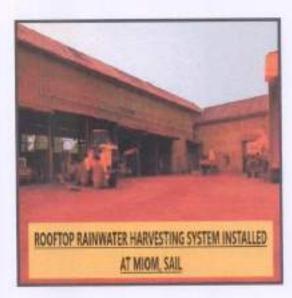
ANNEXURE-17: A- ROOFTOP RAINWATER
HARVESTING SCHEME INSTALLED AT KIOM
GENERAL OFFICE SHOWING COLLECTION, KIOM,
SAIL



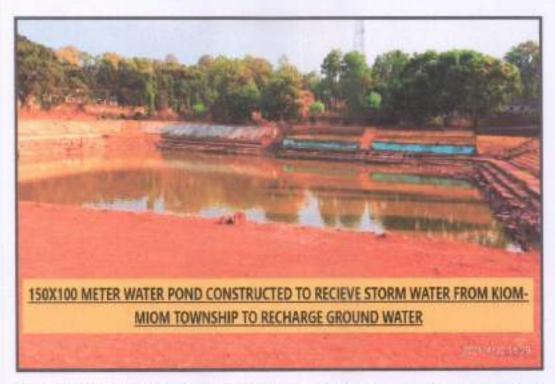
ANNEXURE-17: C- ROOFTOP RAINWATER
HARVESTING SYSTEM SHOWING WATER
COLLECTION PIPE INSTALLED AT MEGNAHATUBURU
IRON ORE MINES SAIL



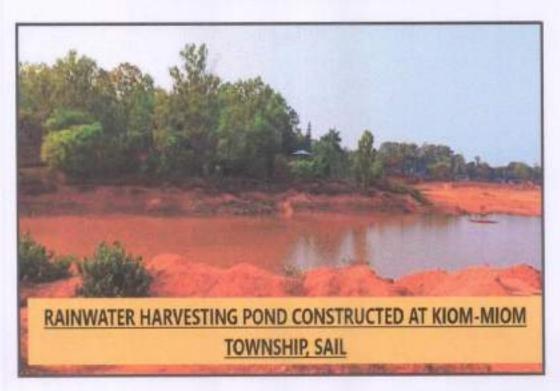
ANNEXURE-17: B- ROOFTOP RAINWATER HARVESTING SCHEME INSTALLED AT KIOM GENERAL OFFICE SHOWING COLLECTION RECHARGE PIT, KIOM, SAIL



ANNEXURE-17: D- ROOFTOP RAINWATER
HARVESTING INSTALLED SHOWING WATER
COLLECTION PIPE AT MEGHAHATUBURU IRON ORE
MINES, SAIL

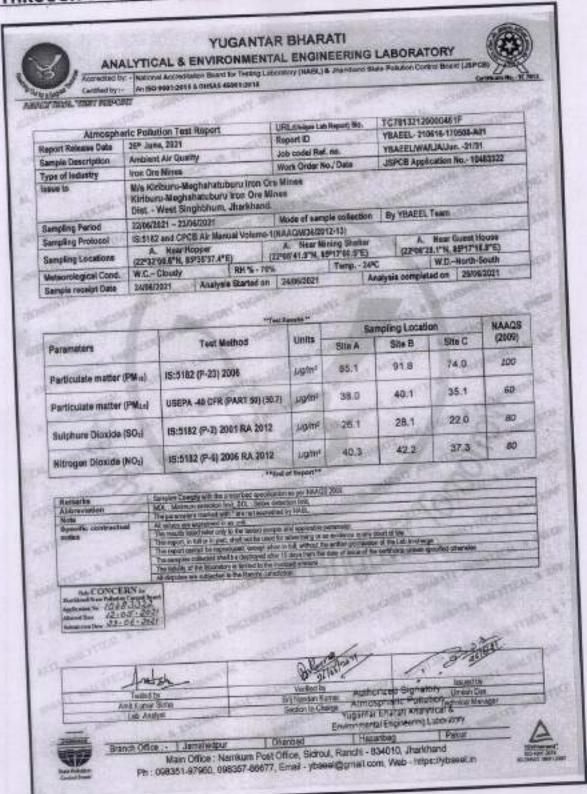


ANNEXURE-17: E- 150X100 METER WATER POND CONSTRUCTED TO RECIEVE STORM WATER FROM KIOM-MIOM TOWNSHIP TO RECHARGE GROUND WATER



ANNEXURE-17: F- RAINWATER HARVESTING POND CONSTRUCTED AT KIOM-MIOM TOWNSHIP, SAIL

ANNEXURE 18- AMBIENT AIR QUARTERLY MONITORING REPORT THROUGH JSPCB OF KIOM-MIOM, SAIL



ANNEXURE-18: A- AMBIENT AIR QUALITY MONITORING REPORT THROUGH ISPCB OF MEGHAHATUBURU IRON ORE MINE, SAIL

YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

edited by - National Accretional Board for Testing Laboratory (NASL) & Journal of State Potulian Control Scant (JSPOS) An 150 9901/2015 5-CHSAS 45001/2018 Certified by:-

Atmosph	eric Pollution Test Report	URL/Unique Lab Raport; No.	TG78132129000471F
Report Release Date	29F Jane, 2021	ReportID	YBAEEL- 210512-124035-A01
Sample Description	Ambient Air Quality	JAC codel Ref. co.	YBARILWAL/AUlin, -21/34
Type of Industry	Iron Ore Mines	Work Order No.J Date	JSPCB Application No 10619224
	Mis Kiriburu-Meghahatuburu iron D Kiriburu-Meghahatuburu iron D Dist West Singhbhum, Jharkh	re Mines	
Sampling Period	The state of the s		To vorce
Sampling Period	23/06/2021 - 24/06/2021	Mode of sample collection	By YTIAEEL Team
the same of the sa	23/06/2021 - 24/06/2021 IS:5182 and CPCB Air Manual Volum	Mode of sample collection	By VIIAEEL Teach
Sampling Protocol	23/06/2021 - 24/06/2021	Mode of sample collection me-1(NAA QMQ60012-13) A. Near Mining Office	A. Near-Hooper
Sampling Period Sampling Protocol Sampling Locations Meteorological Cond.	23/06/2021 - 24/06/2021 IS:5182 and CPCB Air Monual Volum A. Hill Top Guest House	Mode of sample collection me-1(NAAQM2672012-13) A. Near Mining Office (2290492.89"N, 351698.28"S)	A. Near Hopper (22°04'03.11"N, 80°15'05.73"E

Parameters	Test Method	Units	Si	NAAOS		
201	A CONTRACTOR OF THE PARTY OF TH	Linus	Site A	Site B	Site C	(2009)
Particulate matter (PMn)	IS:5182 (P-23) 2006	na _{ini}	78.1	92.4	87.0	200
Particulate matter (PM _{th})	USEPA-40 CFR (PART 50) (SEJ)	Lighter	38.2	44.9	41.2	60
Sulphure Dioxide (50 ₁)	IS:5182 (P-2) 2001 RA 2012	ugana	24.0	27.1	29.2	80
Mitrogen Dioxide (NO ₃)	IS:5182 (P-6) 2006 RA 2012	L/Q/TH ²	41.2	43.2	46.1	80

""Red of Report"

Remerks	Samples Compty with the presonant specification in par NAACS 2200.
Abbreviation	IEC, Minings dendor Init, IC. John detector brid.
Norte	Proper product that and post " ask to consider as APAC.
Opecalis contractual notes	All private project proved in an and The results foliable for the build supply and approach commons The report in fall or input ideal real to prove for interesting or on invitations many count of the The report control the report count of the last field from the fall of the suitant perfections of the fall of the country The report control the report country of the last field from the fall of the suitant perfection of the fall of the country. The report control and the project pour of the 15 days there the date of the country of the fall of the country.
NA CONCERNA	All disputes are uniquited to the Stancts Jurisdigity

Treated by And Kurser Sinha Lat Analyst Authorized Signatory Union for Atmospheric Policinoberrary Manage
Yogania: Bhazar Analytical &
Energy Engraving Laboratory
Historibag Patur
Ranch Standa

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Branch Office - Jamanedour Dhannas Main Office ; Namkum Post Office, Skiroul, Ranch - 534010, Jhankhand

Ph.: 098351-97990, 098357-88877, Email-ybasel@gmail.com, Web - https://ybasel.in

ANNEXURE-18: B. AMBIENT AIR QUALITY MONITORING REPORT THROUGH ISPCB OF KIRIBURU IRON ORE MINE. SAIL

And Township of the second

ANNEXURE 19- PHOTOGRAPHS OF VARIOUS CSR ACTIVITIES CONDUCTED BY KIOM-MIOM, SAIL



ANNEXURE-19: A- EKLAVYA ARCHERY ACADEMY UNDER CSR SCHEME OF KIOM, SAIL



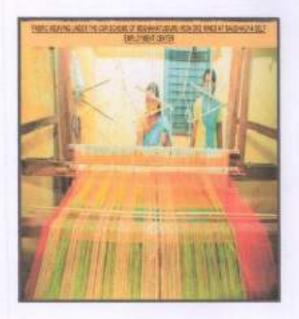
ANNEXURE-19: C-TREATMENT OF PATIENTS
UNDER CSR SCHEME OF MEGHAHATUBURU IRON
ORE MINES UNDER THE CSR SCHEME OF KIRIBURU
- MEGHAHATUBURU GENERAL HOSPITAL



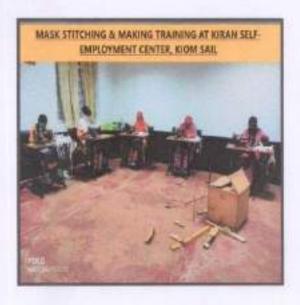
ANNEXURE-19: B- STUDENTS AT SARANDA SUYAN CHATRAVAS, UNDER CSR SCHEME OF KIOM, SAIL



ANNEXURE-19; D- HON'BLE CHAIRMAN & DIRECTOR TECHNICAL VISIT AT SARANDA SUVAN CHATRAVAS



ANNEXURE-19: E- FABRIC WEAVING UNDER THE CSR SCHEME OF MEGHAHATUBIURU IRON ORE MINES AT SAURHAGYA SELF EMPLOYMENT CENTER



ANNEXURE-19: G- MASK STITCHING & MAKING TRAINIG UNDER CSR (KIRAN SELF-EMPLOYMENT CENTER) KIOM, SAIL DURING COVID 19 PANDEMIC



ANNEXURE-19: F- STUDENTS STUDY AT SARNDA SUVAN CHATRAVAS KIOM- MIOM, SAIL

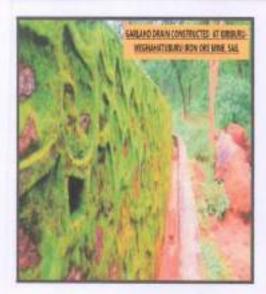


ANNEXURE-19: H-FOOD PACKETS DISTRIBUTION IN PERIFERAL VILLEGES DURING THE VACCINATION DRIVE IN DECOND WAVE OF COVID 19

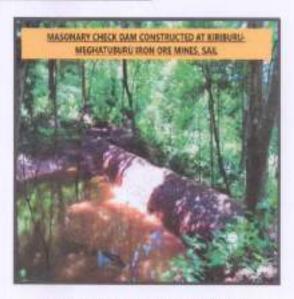


ANNEXURE-19: I- VARIOUS SOFT SKILL DEVELOPMENT PROGRAMMES ORGANISED BY RTC KIOM

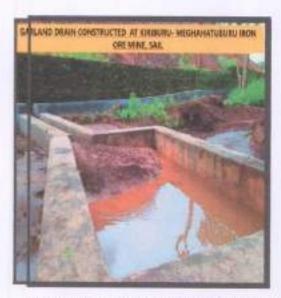
ANNEXURE 20- PHOTOGRAPHS SHOWING VARIOUS SILT CONTROL ARRANGEMENTS CONSTRUCTED BY KIOM-MIOM, SAIL



ANNEXURE-20: A- GARLAND DRAIN CONSTRUCTED AT KIOM-MIOM BY MEGHAHATUBURU IRON ORE MINES, SAIL



ANNEXURE-20: C- MASONARY CHECK DAM CONSTRUCTED AT KIRIBURU-MEGHATUBURU IRON ORE MINES, SAIL



ANNEXURE-20: B- GARLAND DRAIN CONSTRUCTED ATKIOM-MIOM BY MEGHAHATUBURU IRON ORE MINES, SAIL

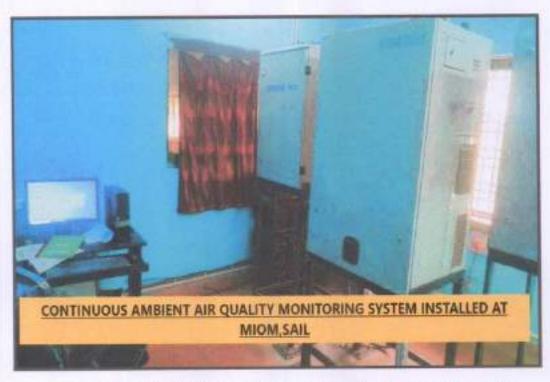


ANNEXURE-20: D- MASONARY CHECK DAM CONSTRUCTED AT KIRIBURU-MEGHATUBURU IRON ORE MINES, SAIL

ANNEXURE 21- PHOTOGRAPHS SHOWING CONTINUOUS AMBIENT AIR QUALITY MONITORING SYSTEM (CAAQMS) INSTALLED AT MIOM, SAIL



ANNEXURE-21: A- CONTINUOUS AMBIENT AIR QUALITY MONITORING SYSTEM INSTALLED AT MEGHAHATUBURU IRON ORE MINES, SAIL



ANNEXURE-21: B - CONTINUOUS AMBIENT AIR QUALITY MONITORING SYSTEM INSTALLED AT MEGHANATUBURU IRON ORE MINES, SAIL

ANNEXURE 22- KOINA RIVER UPSTREAM & DOWNSTREAM WATER QUALITY DATA REPORT FOR THE PERIOD OF -APRIL 2021 TO SEPTEMBER 2021 BY KIOM-MIOM, SAIL



STEEL AUTHORITY OF INDIA LIMITED BOKARO STEEL PLANT

KIRIBURU-MEGHAHATUBURU IRON ORE MINES

RIVER WATER QUALITY

Period	pH	Turbidity	TDS	55	Iron	Manganese
Unit	+4.5	NTU	mg/l	mg/l	mg/l(as Fe)	mg/l (as Mn)
Desirable Limit	6.5-8.5	5	500		0.3	0.1
Penticoble Limit ***	6.5-8.5	10	2000		1.0	0.5
April 21	6,9	2.1	117		0.10	0.03
May 21	6.7	2.3	106	+	0.14	0.05
June 21	6.4	2.4	110		0.09	0.04
July 21	6.7	2.2	102	+:	0.08	0.03
August 21	6.7	2.1	101		0.13	0.04
September 21	6.8	2.5	99	-	0.10	0.02

Requirement (Desirable limits) as per Drinking Water Specification 15 : 10500
 Permissible limit in absence of alternate source as IS : 10500

Period	pH	Turbidity	TDS	SS	Iron	Menganese
Unit	-	NTU	rigg/l	ing//	mg/l(as Fe)	mg/l (as Mn)
Desrable Limit	6.5-8.5	3	500	- 8	63	0.1
Pormisable Limit ***	6,5-8.5	20	2000		2.0	0.3
April' 21	6,8	2.4	115		0.24	0.02
May 21	6.6	2.2	110		0.16	0.06
June 21	6.8	2.6	109		0.11	0.05
July 21	6.7	2,3	106	-	0.12	0.04
August 21	6.7	2.1	100		0.13	0.04
September 21	6.7	2.5	101		0.11	0,03

^{*} Requirement (Desirable limits) as per Drinking Water Specification IS: 10500 ** Permissible limit in absence of alternate source as IS: 10500

EC Compliance - KIOM - MIOM

ANNEXURE-22: A: KOINA RIVER UPSTREAM & DOWNSTREAM WATER QUALITY DATA REPORT FOR THE PERIOD OF - APRIL 2021 TO SEPTEMBER 2021 BY KIOM-MIOM, SAIL

ANNEXURE 23- GROUND WATER QUALITY REPORT IN DUG WELL FOR THE PERIOD OF -APRIL 2021 TO SEPTEMBER 2021 BY KIOM-MIOM, SAIL



STEEL AUTHORITY OF INDIA LIMITED BOKARO STEEL PLANT MEGHAHATUBURU TRON ORE MINES

GROUND WATER QUALITY

	-	KUMDIH VILL			- m
Parameter	Unit	Acceptable Limit*	Permissible Limit*	(June. 21)	Quarter - 4 (Sept' 21)
pH		65-85	6.5-8.5	6.7	6.8
Turbidity	NTU	5	10	3.2	2.7
Dissolved Solids	mg/l	500	2000	219	218
Iron (as Fe)	mg/l	0.3	0.3	0.15	0.13
Manganese (as Mn)	mg/l	0.1	0.3	0.03	0.04

* as per Drinking Water Specification IS 10500 | 2012

EC Compliance - K30M - MIOM

ANNEXURE-23: A-- GROUND WATER QUALITY REPORT IN DUG WELL FOR THE PERIOD OF -- APRIL 2021 TO SEPTEMBER 2021 BY MEGHAHATUBURU IRON ORE MINES, SAIL

STEEL AUTHORITY OF INDIA LIMITED RAW MATERIALS DIVISION KIRIBURU-MEGHANATURIIRID IRON ORE MINES

Annexure-7

MONITORING OF MINE EFFLUENT STANDARDS

Mineral: IRON GRII
Period: April'21 to Sept'21
Name of the Mine: Kiriburu Iron Gre-Mines
Agent: Sci D.K.Barmar; GM(Mines)

Agency: Environment Laboratory, KION-MIOM

Instruments Photometer SQ-118

Unit: Concentration in Mg/L except pH & Turbidity.

Location: Dugwell in Karampada Village

Parameter	Unit	Permissi ble limit*	Destred Limit*	April'21	May'21	June'21	July'23	Aug'21	Sept 21
Depth of water table below ground level									
(H)	-	65-85	6.5-8.5	6.8	6.8	6.8	0.9	6.9	6.8
Turbidity	NYU	10	5.0	3.2	3.1	5,1	3.2	3.1	3.0
Dissolved Solids	mg/l	2000	500.0	217	215	225	219	221	225
from as (Fe)	mg/l	1	0.3	0.18	0.18	0.18	0.38	0.17	0.15
Manganese as (Mn)	mg/l	0.3	0.1	0.63	0.03	0.03	0.03	0:03	0:03

^{*} As per Drinking water specification iS:10500

ANNEXURE-23: B- GROUND WATER QUALITY REPORT IN DUG WELL FOR THE PERIOD OF - APRIL 2021 TO SEPTEMBER 2021 BY KIRIBURU IRON ORE MINES, SAIL

ANNEXURE 24- BLASTING VIBRATION REPORT FOR KIOM-MIOM, SAIL

होत्रियम् आँधाः कांपरिकान विशिष्टेक सःसी-मी (ह) । एव एव एकप्योक्तिया गरंपः, बोलानी पोपः । योगानी, जिलाः । काल्याः (बोलिया) - 758007 milan Oli Corporation Limited SDG(E): 5485 Explosives Support Pant, Bolani P.O.: Bolani, Diel - Koonfear (Odisha) - 758037 Webalis : www.iou.com



वी.डी.जी (एक्सफोतिब) BDG (Explosivsa)

> IOCL/BOLANDBIGV/19-20/01 07-02-2020

To, Dy. General Manager (Mines) Meghabatuburu Tran Ores Mines, SAIL RMD Meghabatuburu

Subject: Submission of Report of Blast Induced Ground Vibration Test.

In response to your request for conducting Blast induced ground vibration study at your mises site for statutory purpose, we call a settinical person from our other location.

In line with your requirement we had arranged to conduct the study at your mines rate on 05.02.2020. Study was carried out by our technical representative Shri Guduru Sunii, Asst. Manager (Marketing).

We are utlacking the Report of the study of Blast Induced Ground vibration test.

Hope this will serve your purpose.

Thanking you,

Yours sincerely

For: Indian Oil Corporation Limited

Adarsh Keshurwani Asst. Manager(Ops.)

> विश्वप्र कार्याल । की-६, नहीं पान चंद पार्ट, पाना (हो) कुंबी - 10000 (बारन) Regil Office: 6-8, A2 Years Jung Mary, Bandon, (East, Munice) - 400001 CIN : L22201MH1969G01211386



IOC/BOL/BIGV/19-20/01 06.02.2020

Report of study conducted on Blast Induced Ground Vibration at Meghahatuburu Ores Mines, RMD, SAIL.

Objective of the study:

To assess the impact of blast induced ground vibrations on the structures nearest to the blast sites.

Particulars of the study:

Location of study:

Meghahaniburu Iron Ores Mines (North Area Bench 9),

RMD, SAIL

Date of the study:

05.02.2020

Study conducted For:

Meghahatuburu Iron Ores Mines, RMD, SAIL

Study conducted by:

Indian Oil Corporation Limited (BDG: Explosives)

IOCL Representatives: 1. Shri Adamh Kesharwani, Asst. Manager(Operations)

2. Shri Guduro Sunil, Technical person, IOCL

MIOM, SAIL Representative: Sh Sandeep Kr. Bharadwaj, Sr. Manager (Mining)

KOCL(BDIC-Espi) Taleter, Angul Odisha

Personal Rheimper (CPS) transcription tand 1-3- S-10000 Plant, busines FEMOST (N) North orders

Findings of the study:

Following were the findings of the study conducted

Date of	Location	Location	34		
blast	of blast		orthogonal	PPV(mm/s) permissible as	Remarks
05.02.2020	North Area	Central Area	0.347	per DGMS 15	Well within

The results are well within the eatings of maximum permissible PPV laid down by DGMS as per the circular ref: DGMS (Tech)/(S&T) Circular No.7 of 1997 dated 29,08,1997.

9.50 Guduru Sunil

AM (Marketing)

(Conducted by)
Sudurt Sofil
Aust, Manager (Mktg.)
(OCLISDE Repl)
Telcher, Angol Odstva

Alua Adarsh Kesharwani AM (Ops.), Bolani Plant

Assessed Constant Landing COSE | Miles Co Co position Landing COSE | Miles Co Co position Landing COSE | Miles Cooper Processed Company Cose | Miles Cooper Processed Company Cose | Miles Cose | Miles

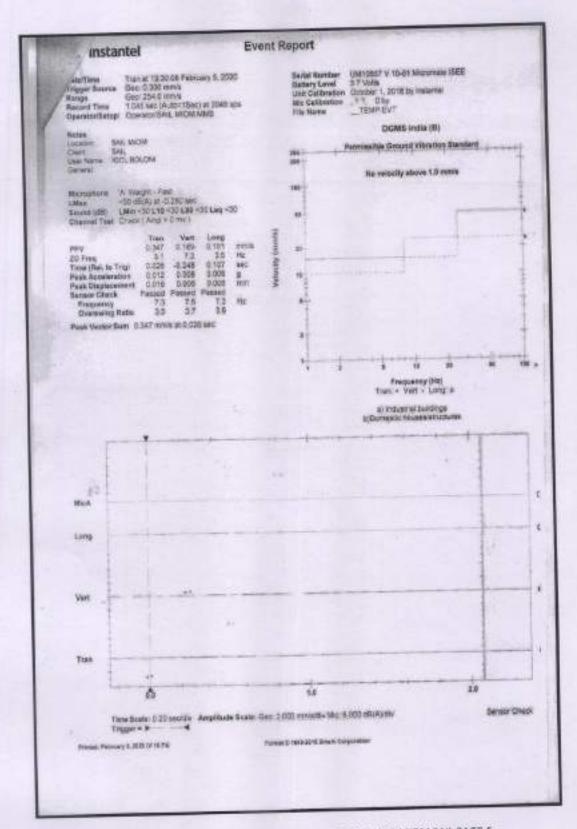
-	VIBRATION-CUM-I	REAST REP	ORT				
SN	PARTICULARS			REMARK	S		
T.	Date of Blast	05.02					
2	Location /Bench	North Area (Bench 9), MIOM					
3	Holz Dix (mm)	156	TOTAL SALE	NOT YE THEOL	72		
4	No. of Holes	20					
3	Bench height (m)	10					
m	Drilling Parameters				_		
\$	Avg. Depth of the hole (m)	9.35	_		-		
7	Spacing (m)	4			_		
g.	Burden (m)	8		_			
9	Block Volume (ps3)	2992	3				
10	Type of Explosives	INDOGEL 600 SERIES					
11	Type of lentances	NONEL					
12	Average Explosive Charge per hale (Kg)	108.500 Kg					
13	Maximum Explosives Charge per Delay (Kg)	110,250 Kg					
14	Total Primer Used(Kg)	10.000		_	_		
15	Total Bulk Explosives (Kg)	2160N			-		
ifi	Total Explosive Used	2179.80		-	-		
	VIBRATION MEASUREMENT:	711710	in sell	_	_		
7	Distance of Vibration Mrc from Blast Six	Approx Blest fo	150 m ft	000			
8	Maci, PPV at Orthogonal Directions (mm/sec.)	T	V	1.			
		0.347	0.119	0.181			
9	Corresponding Frequency (Hz)	11	7.2	3.5			
0	Peak Vector Sum	0.347 m	2.7 19				
	POST BLAST OBSERVATION	10000			-		
	Fragmentation	V. Gree		-			
2	Fly Rock	(NII					
3	Mück Profile	As requi	red		_		

For Indian Oil Corporation Limited
NUCLANCIA COSPONATION CONTRACT
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Sr. Manager (Mining) MIOM, RMD, SAIL

Sarco III. Shardes Schuller Samo SAL - III. S. MCM

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ANNEXURE-24: E-BLASTING VIBRATION REPORT FOR KIOM-MIOM SAIL PAGE-5

ANNEXURE 25- AMBIENT AIR QUALITY REPORT FOR THE PERIOD, APRIL 2021 TO SEPTEMBER 2021 FOR KIOM-MIOM, SAIL



STEEL AUTHORITY OF INDIA LIMITED RAW MATERIAL DIVISION

KIRIBURU-MEGHAHATUBURU IRON ORE MINES

ANNEXURE - 13 (a)

AMBIENT AIR QUALITY REPORT

Period

: APRIL 21 - SEPTEMBER 21

Instrument

: Respirable Dust Sampler, Photometer SQ = 118 : KIRIBURU IRON ORE MINE

Locations

Location - 1 : Mining Field Office Location - 2 : Hopper Location - 3 : Hospital Location - 4 : Township

Month	Sampling location	RPM (µg/m²)	SO ₃ (µg/m³)	NO _x (µg/m³)	
Permissible Lev	el	100	80	80	
APRIL'21	Location - 1	67	23	12	
The state of the s	Location - 2	94	26	21	
	Location - 3	-	BOL	BDL.	
	Location -4	(T)	BOL	BOL	
MAY21	Location - 1	62	22	12	
	Location - 2	89	23	19	
	Location - 3	-7(1)	BDL	BDL	
	Location ~ 4		BDL	BDL	
JUNE'21	Location - 1	70	19	11	
	Location - 2	36	21	16	
	Location - 3	77	BOL	BOL	
	Location - 4		BOL	BOL	
3ULY21	Location -1	-	-	-	
	Location -2	8.	-00	H	
	Location - 3	#	144	*	
	Location - 4		440	144	
AUGUST'21	Location - 1	3.1	+	100	
1/1053 / TB	Location - 2	8		-	
	Location - 3	200		B	
The same of	Location - 4	4		-	
the section of	Location - 1	11.00	-	1#	
SEPTEMBER'21	Location - Z		12.1	- H	
NEWS PRINCES	Location - 3	-77		**	
	Location - 4	The state of the s	**	Tax	

Note: SO₂: BDL (Below Detectable Limit) : 4 µg/m² NO₂: BDL (Below Detectable Limit) : 10 µg/m²

EC Compliance - KIGM - MIGM.



STEEL AUTHORITY OF INDIA LIMITED JHARKHAND GROUP OF MINES, BSL KIRIBURU-MEGHAHATUBURU IRON ORE MINES

AMBIENT AIR QUALITY REPORT

Period

April 21 to Sept 21

Instrument Respirable Dust Sampler, Photometer SQ - 118
Location MEGHAHATLIBURU IRON ORE MINE

: MEGHAHATLIBURU IRON ORE MINE Lucation - I : Dumper Shap.

Location - 2 : Mining field Office.

Location 3 : Hopper

Location - 4 - Township

Month	Sampling location	SPM (µg/m²)	RPM (µg/m²)	500 (µg/m²)	NOx (µg/m³)
Parmissible	Level	500	100	80	80
April 21	Location - 1	98.52	39.21	BDL	BDL
	Location +2	96.11	39.99	BDL	BDL
55.38	Location - 3	97.62	36.31	800	BDU
	Location - 4	80.22	14.46	NDL	BOL
May 21	Location - 1	97.18	38.12	BDL	SOL
	Location 2	96,59	39.31	BDL	100
	Location - 3	98.17	36.45	DDL	108
111111111111111111111111111111111111111	Location - 6	81.83	35.37	BOL	BDL
June 21	-Incetion-1	96.05	24.33	BOL	BDL
	Location + 2	81,38	21.51	BOL	BCC
	Location - 3	90.05	26.38	BOL	BOL
12.31	Location 4	69.89	19.27	HOL	8DL
July 21	tocation-1	84.12	23.58	BDL	BDL
	Location - 2	87.50	24.70	BDL	BIDL
	E-nontage	33.45	27.61	BDL	801
1000	Location -4	73.20	21.03	BOL	BDL
Aug'21	Location - 1	97.92	25.29	BDL	SOL
	Location-2	86.67	12.80	BOL	BOL
	Socation +3	95.30	28.81	BOL	BOIL
	Location+4	74.84	21.70	BOL	BOL
Sept'21	Location - 1	82.72	35,58	BOL	abi.
	Location 2	79.20	12.92	BOL	8DL
	Location + 3	83.03	30.07	EDL	80t
	Location -4	66.13	36.04	BOL	80L

Note:

SO2 : 80L (Below Detectable Limit) - 4 µg/m²

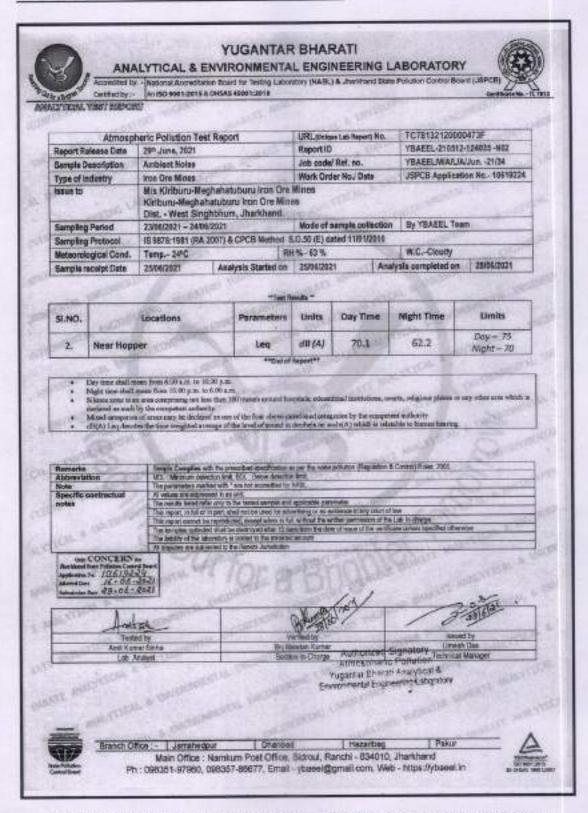
NOs: 80L (Below Detectable Limit) : 10 µg/m²

EC Compliance - KIOM - MIOM

ANNEXURE-25: B-AMBIENT AIR QUALITY REPORT FOR THE PERIOD, APRIL 2021 TO SEPTEMBER 2021 FOR MIOM,

SAIL

ANNEXURE 26- NOISE MONITORING THROUGH NABL LABORATORY REGISTERED WITH JSPCB FOR THE PERIOD, APRIL 2021 TO SEPTEMBER 2021 FOR KIOM-MIOM, SAIL



YUGANTAR BHARATI ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

of br. - Avelonal Apprehium Board by Testing Laboratory (NADL) & Justiceal State Pos-by: An ISO 96612015 & 085AS 45061(2018

Atmospi	verio Pollution Ter	st Report		URLalangue Lat. Pap	ort No.	TC78132120000	
Raport Release Date	26° June, 2021			Report ID	\$300 C	YBALEL-210616-1	
Sample Description	Ambient Noise	-62 W	70	Job godel Rail. en		YBAEELWALIA	
Type of industry	Iron Ore Mines	C. San wanted	nin.	Work Order No. C	late	JSPCB Application	10 NO. 10413322
Japue W	Kiriburu-Mogha Dist West Sin	ghahatuburu iron C hatuburu iron Cee k ghbhum, Jharkhan	#ina	S CONTRACTOR OF THE CONTRACTOR		By YBAEEL Team	100
Sampling Period	22/06/2021 - 23/5	4/2021		Mode of sample.		BY TOMEEL THE	11771
Sampling Protection	IS 9878:1901 (RA	2007) & CPCB Moths			11/2014	- Marie - Province	1
Metacrological Cond.	Тепр 24°С	The same of	2000	%-70%	THE ST	W.CCloudy	25/05/2021
Sample receipt Date	24/06/2021	Analysis Started	Oil-	24/96/2021	Analy	sis completed on	2009(2011)

		"Int R	each "	279	7	11000
SI.NO.	Locations	Parameters	Units	Day Time	Night Time	Limits
2207	Near Hopper	teq	dD (A)	70.6	67.5	Day = 75 Night = 70
-	Hear Hopper	The State of the S	Report	-200	1200	

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Environmental Engineering Laboratory



Hezenteg Brench Office - Jamshedpsy Dherbad

Main Office: Nemloum Post Office, Sidrout Ranchi -834010, Jharktwind Ph : 095351-97910, 098357-99677, Email - ybeen@gmail.com, Web - https://ybasek.in

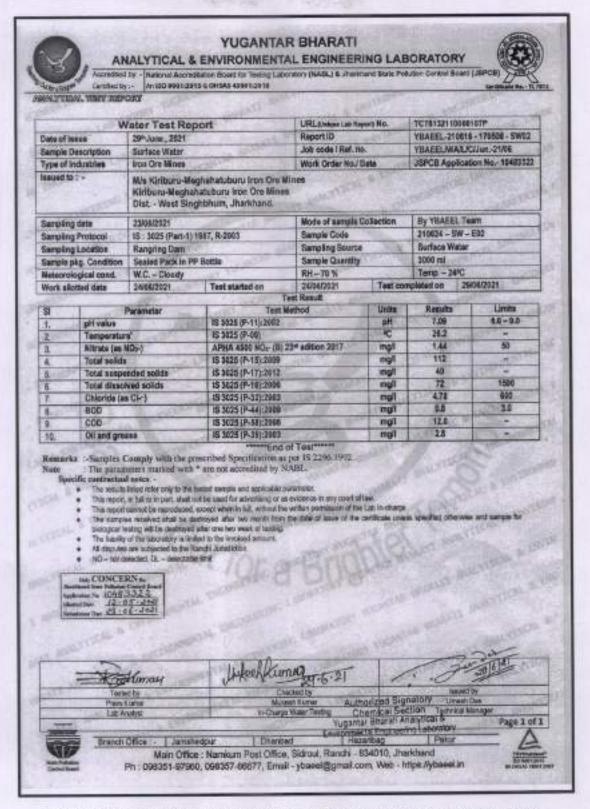
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ANNEXURE-26: C- NOISE MONITORING THROUGH NABI, LABORATORY REGISTERED WITH JSPCB FOR THE PERIOD, APRIL 2021 TO SEPTEMBER 2021 FOR MIOM, SAIL



ANNEXURE-26: D- NOISE MONITORING THROUGH NABL LABORATORY REGISTERED WITH JSPCB FOR THE PERIOD, APRIL 2021 TO SEPTEMBER 2021 FOR KIOM, SAIL.

ANNEXURE 27- TAILING DAM WATER QULITY ASSESSMENT REPORT THROUGH NABL LABORATORY REGISTERED WITH JSPCB FOR THE PERIOD, APRIL 2021 TO SEPTEMBER 2021 FOR KIOM-MIOM, SAIL



ANNEXURE-27: A-TAILING DAM WATER QULITY ASSESSMENT REPORT THROUGH NABL LABORATORY REGISTERED WITH JSPCB FOR THE PERIOD, APRIL 2021 TO SEPTEMBER 2021 FOR MIOM, SAIL

YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Accredited by - Restored Accreditation Board for Treating Laboratory (NABL) & Jimeshand State Politican Control Board (JSPC Gertified by:-An ISO 9001/2018 & OHSAS 45001/2018

Water Test Report		URL streigne Lab Report) NO.	TG78132110099166P	
Date of Issue	29*June 2021	Raport ID	YBAEEL-210512-124035 - SW01	
Sample Description	Surface Water	Job code ! Ref. no.	YBAEELWALICIJus2587	
Type of Industries	Iron Ore Mines	Work Order No./ Date	JSPCB Application No 18619224	
lessed to : -	Mis Kiriburu-Meghahatuburu Ir Kiriburu-Meghahatuburu Iron (on Ore Mines Ore Mines		

Dist. - West Singhbhum, Jharkhand. By YEAREL Team Mode of sample Collection Sampling date 210625 - SW - E01 Sample Code 15: 3025 (Pwt-1) 1987, R-2003 Sampling Protocol Sampling Source Serface Water Sampling Location Pump House 3000 ml Sample plug. Condition Sealed Pack in PP Bottle Sample Quantity W.C.-Cloudy RH-70 % Tamp. - 24°C Meteorological cond.

Test completed on 29/06/2021

BURNESH SAN

2506(2021 Work allotted data 25/06/2021 Test started on

SI	Parameter	Test Method	Units	Results	Limits
1	pit value	(5 5025 (P-11): 2082	pH	6.62	0.0-9.0
2	Temperature*	1S 3025 (P-09)	11 RC	26.5	-
3	Nitrate (as NO>)	APHA 4500 NO- (B) 334 edition 2017	mg/l	1.5	50
4	Total solicte	18 3025 (P-15):2009	mg/l	122	- 0
4	Total suspended solids	IS 3025 (P-17):2012	rigit	42	1577
1	Total dissolved solids	IS 3025 (P-18):2006	ngil	180	1500
7.	Chloride (ss CI-)	IS 3025 (P-32): 2003	mg1	5.74	600
8	800	15 3025 (P-44); 2009	mg/t	1,5	3.0
0	coo	IS 3025 (P-58):2004	mg/l	20.0	**
10.	Oll and grease	IS 3026 (P-39):2003	ing/i	DE 32	

"End of Teet"

Remarks - Sumples Comply with the prescribed Specification as per 15 2296;1992.

Note The parameters marked with * are set accredited by NAME.

Specific continectual acces.

The results issued in the property in the tested sample and oppresses presenter.

This appear in fall or in part, shall not be used for advertising or an exclusive in any count of the .

This report control be reproduced, assept when in full, whout the writers permake of the lat in-charge.

This second control be reproduced, assept when in the what the writers permake of the lat in-charge.

The samples modified that the described with two models then the date of these of the certificate unless biological testing with the described after one two meets of leading.

The facility of the laboratory is finished to the invoked amount.

All deputes are expected to be invoked amount.

NO - not detected, Dr. - benefitiate line.

Can CONCERN to 1051 92011 16 - 06 - 2001 18 - 06 - 2001

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Lab Analyst	In-Charge Water Teeting City	at a Section Technical Manager
and the same of th	Minson	Sharah Analytical 6 Page 1 of 1
Branch Office :- Jamaner	dour Dharbad E-WP Haza	bag Pacir A
Section 1		soun thuckness

Ph : 098351-97960, 098357-86677, Email - strake (@gmail.com, Web - https://ybasel.in

ANNEXURE 27: B-TAILING DAM WATER QULITY ASSESSMENT REPORT THROUGH NABL LABORATORY REGISTERED WITH JSPCB FOR THE PERIOD, APRIL 2021 TO SEPTEMBER 2021 FOR KIOM, SAIL

ANNEXURE 28- COPIES OF THE ADVERTISEMENTS MADE IN THE NEWS PAPERS FOR EC OF KIOM-MIOM, SAIL



ANNEXURE-28: A-COPY OF THE ADVERTISEMENTS MADE IN THE ENGLISH NEWS PAPERS FOR EC ON 27/09/2014 FOR KIOM-MIOM, SAIL



ANNEXURE-28: C-COPY OF THE ADVERTISEMENTS

MADE IN THE ENGLISH NEWS PAPER ON
04/08/2020 FOR EC AMENDMENT FOR KIONMIOM, SAIL



ANNEXURE-28: 8-COPY OF THE ADVERTISEMENTS

MADE IN THE HIND! NEWS PAPERS FOR EC ON

27/09/2014 FOR KIOM-MIOM, SAIL



ANNEXURE-28: D-COPY OF THE ADVERTISEMENTS MADE IN THE HINDI NEWS PAPER ON 04/08/2020 FOR EC AMENDMENT FOR KIOM-MIOM, SAIL