M/s DHARAMCHAND JAIN (Mining Lessee)

"DHARAM VILLA"

12-A, Mahatma Gandhi Marg, Ring Road, Lajpat Nagar-IV, New Delhi-110024 Phone: 011-41642414 Email: mdmpl@rediffmail.com avinjain999@gmail.com

DATE: 05.12.2024

Ref. No.: 305/24-25/300-24/002

To.

The Member Secretary,
State Environment Impact Assessment Authority, Odisha,
(Ministry of Environment, Forests & Climate Change)
Qr. No-5RF-2/1, Unit-IX, Bhubaneswar -751 022.

Subject

: Submission of Environmental Clearance compliances status of the stipulated conditions for iron production of 0.31 MTPA & Manganese ore 0.094 MTPA in respect of M/s Dalpahar Iron and Manganese Ore Mines of Sri D.C. Jain for the period April 2024 to September 2024-Reg.

Reference: SEIAA File No: 55644/46-NCMB1/02-2021 & Letter No. 2260/SEIAA dated 19.08.2021.

Dear Sir,

With reference to the above cited subject and gazette notification, we are submitting herewith the compliance report for iron production of 0.31 MTPA & Manganese ore 0.094 MTPA) April 2024 to September 2024 in respect of M/s Dalpahar Iron and Manganese Ore Mines of Sri D.C. Jain.

Thanking you.

Yours faithfully,

For M/s Dalpahar Iron and Manganese Ore Mines of Sri D.C. Jain.

Authorized Signature

Mines Manager
Dalpahar Iron & Mn. Mines
M/s. D. C. Jain
Dalpahar

Encl.: Compliance Copy with detailed analysis report and supporting photographs and monitoring data.

NAME OF THE PROJECT:

Dalpahar Iron and Manganese Ore Mines of Sri D.C. Jain

Mine Lease Area:

89.961 Ha.

CLEARANCE LETTER NO. & DATE:

SEIAA LETTER NO.: 2260/SEIAA

DATED: 19.08.2021

PRODCUTION CAPACITY:

0.31 MTPA (Iron Ore) & 0.097 MTPA (Manganese)

SL.NO	STIPULATED CONDITONS:	STATUS
	Part 'A': Specific Conditions of Clearance	
ii	This Environmental Clearance is granted with a Condition that "the Mining activity shall be restricted to 10.594 Ha (diverted land) for which forest clearance has been obtained. Mining activity over the rest of the lease area shall be taken only after obtaining forest clearance for the same. Additional air quality monitoring station shall be installed at entry and exit of mines and haulage	Mining activity and allied works are being restricted to 10.594 Ha (diverted land) only for which forest clearance has been obtained. We would like to assure that we will do the Mining activity over the rest of the lease area only after obtaining forest clearance for the same. Supporting copy of Forest Clearance (16.464 Ha.) obtained is attached as Annexure -1 . The additional air quality monitoring stations have already been installed at the entry and
	road, buffer zone and schools and habitations.	exit gate of the mines in consultation with the Regional office, SPCB. Supporting photos of the same is attached as Photo-1 & details are given in Table-01 .
iii	The mine shall implement the Pollution Control Measures and safeguards as proposed in the Environment Management Plan (EMP) of Environment Impact Assessment (EIA) report.	We have implemented the Pollution Control Measures and safeguards as proposed in the Environment Management Plan (EMP) of Environment Impact Assessment (EIA) report. Effective Water Spraying is being carried out regularly in all the mine areas say crushing & screening areas, mineral stock yards, loading areas etc. with 02 no. of 08 KL water tankers capacity. Supporting photos for the same is attached as Photo-02 . Screen plant has already been installed with the pollution control measures such as dry fog systems. Supporting photos for the same is attached as Photo-03 . Installation of Wheel washing facility (WWSF) is under progress at the exit gate of mineral dispatch route. Supporting photos for the same is attached as Photo-04 .
iv	The proponent shall install STP of adequate capacity for treatment of domestic waste water and treated water shall be reused.	There is no residential camp available inside the ML area, however, the generated domestic waste water from office premises are treated through soak pit.
V	The proponent shall obtain permission from appropriate authority including WR Deptt, Govt. of Odisha for drawl of ground water.	We have obtained the necessary permission like NOC from CGWA for drawl of ground water to run the mines operation vide letter No. CGWA/NOC/MIN/ORIG/2021/10646 dated 02.02.2023 which is valid up to 01.02.2025. Annexure – 2.
vi	Adequate mitigation measures shall be	Drilling machines equipped with wet provision.
	taken for dust suppression, environment	Effective Water Spraying is being carried out

	tt or M/s Daipanar fron and Manganese Ore Mine	
	protection in catchment area	regularly in all the mine areas say crushing & screening areas, mineral stock yards, loading areas etc. with 02 no.s of 08 KL water tanker capacity. Supporting photos for the same is attached as Photo-02 . Screen plant has already been installed with the pollution control measures such as dry fog systems. Supporting photos for the same is attached as Photo-03 . Installation of Wheel washing facility (WWSF) is under progress at the exit gate of mineral dispatch route. Supporting photos for the same is attached as Photo-04 . Covering of loaded trucks with tarpaulin is being implemented at side during dispatch of minerals. Supporting photos for the same is attached as Photo-05 .
vii	The proponent shall carryout periodical health check-up of employees due to Occupational Health Hazards by occupational health expert, at least once in six months, both for employees as well as people of neighboring habitation.	The IME & MPE is being carried as per/in compliance to Mines Act 1952 & rules 1956 and amendments thereto. The IME & PME tests included PFT, X-Ray, and lung spirometer, etc We have carried out such periodical health check-up of 22 Nos. of persons across the employees, subcontractors as well as people of neighboring habitation engaged in our mine operation. Supporting Documents in this regard is attached as Annexure-3 .
Viii	The transportation of mineral shall be carried out through the covered trucks. Vehicular emissions shall be kept under control and regularly monitored. The vehicles carrying the mineral shall not be overloaded.	The mineral transportation is being carried out through the covered trucks only and we are further ensuring that the vehicles carrying the mineral shall not be overloaded. Supporting photos for the same is attached as Photo-05 . The project is ensuring vehicle emission monitoring for all mining and other supporting vehicles/equipment. The monitoring of vehicle emission is carried out through Diesel Smoke Meter by Pollution Testing Centre. A sample HEMM emission test result is attached as Annexure-4 .
ix	Mineral handling area shall be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.	Effective Water Spraying is being carried out regularly in all the mineral handling areas say crushing & screening areas, mineral stock yards, loading areas etc. with 02 no. of 08 KL water tanker capacity. Supporting photos for the same is attached as Photo-02 . In addition to that screen plant has already been installed with the pollution control measures

		such as dry fog systems. Supporting photos for the same is attached as Photo-02 . These are being properly maintained and operated by the maintenance team.
X	Garland drains with appropriate size, gradient and length shall be constructed to arrest silt and sediment flows from ore dumps and directly into the water bodies. The water so collected shall be utilized for watering the roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly.	In due course of mine development garland drains with appropriate size, gradient and length are to be constructed to arrest silt and sediment flows from ore dumps and directly into the nearby water bodies. The water so collected will be utilized for watering the roads, green belt development etc The proposed details of retaining wall, garland drain, settling pond are enclosed as Table-02 .
хi	Public Hearing for the project was conducted on 26th August 2011. The proponent shall comply with all the commitments made to the issues raised by the Public during the public hearing.	The project is complying all the commitments raised by the Public during the public hearing. Point wise compliance is enclosed-as table-3
xii	The proponent shall comply to the NEERI recommendations.	The project is complying all the NEERI recommendations.
xiii	The mining lease holders shall, after ceasing mining operations, undertake regrassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.	We are abiding by the said condition. We are assuring to comply with the condition after completion of the mining activities.
I	Part 'B': Standard Conditions : Statutory compliance:	
İ	This Environmental Clearance (EC) is subject to orders/ judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, Common Cause Conditions as may be applicable.	We are abiding by the said condition and order issued by the competent authority with assurance to do due compliance from time to time.
ii	The Project proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2nd August,2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Others before commencing the mining operations.	We are abiding by the said condition of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014
iii	The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective	The State Government of Odisha is ensuring compliance with the stipulation and all compensation is being deposited by the us while undertaking mining operations in the broken up forest land.

	or of 1/1/ o 2 only officer from only 1/10118 officer of the 1/11116	
	Department of Mining & Geology in strict compliance of Judgment of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors.	
iv	This Environmental Clearance shall become operational only after receiving formal NBWL Clearance from MoEF & CC subsequent to the recommendations of the Standing Committee of National Board for Wildlife, if applicable to the Project,	The project is not coming near or within 10 kms of any Eco Sensitive Zone. The NOC from NBWL is not applicable for this project.
V	This Environmental Clearance shall become operational only after receiving formal Forest Clearance (FC) under the provision of Forest Conservation Act, 1980, and subsequent amendments thereto as applicable for the project.	It is being complied. The project has obtained the Forest Clearance over the 16.464 forest area involved in the project i.e. 89.961 Ha from the MOEFCC, GOI under the under section 2 of FC Act, 1980. c F. No. 8-103/2000-FC dated 14.11.2005. Copy enclosed as Annexure # 1 .
Vİ	Project Proponent (PP) shall obtain Consent to Operate after grant of EC and effectively implement all the conditions stipulated therein. The mining activity shall not commence prior to obtaining Consent to Establish / Consent to Operate from the concerned State Pollution Control Board.	We have obtained the consent to Operate order no. 2970 from the SPCB, Odisha vide Letter 4296/IND/I-CON-4882 Dated 27.03.2024. Copy of the same is attached herewith as Annexure-5 .
vii	The PP shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under. PP shall adhere to various circulars issued by Directorate General Mines Safety (DGMS) and Indian Bureau of Mines from time to time.	We are complying & abiding by the said condition and order issued by the competent authority with due compliance from time to time.
viii	The Project Proponent shall obtain consents from all the concerned land owners, before start of mining operations, as per the provisions of MMDR Act, 1957 and rules made there under in respect of lands which are not owned by it.	The granted lease area is inside the reserve forest. There is no such private land involved in this project. Lessee has taken forest clearance for working inside the forest area. Mining Operation is being carried out on the surface right areas only and as per the approved land use plan approved in Mining Plan by IBM. Copy of the same is attached herewith as Annexure-6 .
ix	The Project Proponent shall follow the mitigation measures provided in MoEF & CC's Office Memorandum No. Z-11013/57/2014-IA.II (M), dated 29'h October, 2014, titled "Impact of mining activities on Habitationsissues related to the mining Projects wherein Habitations and villages are the part of	The granted lease area is inside the reserve forest. The mining Lease area is not a part of any habitation area or not surrounded by any habitation area. The mining operations and transportation of iron ore does not pass through any village or habitation surrounding.

_	mine lease areas or Habitations and villages	,
	are surrounded by the mine lease area".	
х	The Project Proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and from CGWA for withdrawal of groundwater for the project.	We will obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water if required. However, we have already obtained the necessary NOC from CGWA for the drawl of 95 KLD ground water vide letter no. CGWA/NOC/MIN/ORIG/2021/10646 dated 02.02.2023 which is valid up to 01.02.2025. Copy of the same is attached herewith as Annexure-2.
xi	A copy of EC letter will be marked to concerned Panchayat / local NGO etc. if any, from whom suggestion / representation has been received while processing the proposal.	The Project Proponent has submitted the copies of the environmental clearance to the Heads of local bodies, Panchayats and Municipal Bodies in addition to that to the relevant offices of the Government.
xii	State Pollution Control Board shall be responsible for display of this EC letter at its Regional Office, District Industries Centre and Collector's office/ Tehsildar's Office for 30 days.	It has been complied.
xiii	The Project Authorities should widely advertise about the grant of this EC letter by printing the same m at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board and web site of the Ministry of Environment, Forest and Climate Change (www.environmentclearance.nic.in). A copy of the advertisement may be forwarded to the concerned MoEF & CC Regional Office for compliance and record.	The Project Proponent advertised in the local newspapers Odia Daily (vernacular language) and The Odisha English daily newspaper within stipulated time period. Copy of the advertisement published in the English Daily, 'The Statesman' published on 23.07.2011 and copy of the advertisement published in Odia Daily (vernacular language) The Samaya Published on 23.07.2011 has already been submitted to the MoEF & CC Regional Office for compliance and record Copy attached-Annexure -7.
xiv	The Project Proponent shall inform the MoEF & CC/SEIAA, Odisha for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred than mining operation shall only be carried out after transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time.	We are agreed & abiding by the said condition.
II	Air quality monitoring and preservation	
i	The Project Proponent shall install a minimum of 3 (three) online Ambient Air Quality	· '

Monitoring Stations with 1 (one) in upwind and 2 (two) in downwind direction based on long term climatological data about wind direction such that an angle of 120° is made between the monitoring locations to monitor critical parameters, relevant for mining operations, of air pollution viz. PM10, PM2.5, NO2. CO and SO2 etc. as per the methodology mentioned NAAQS Notification No. 29016/20/90/PCI/I, dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone. The ambient air quality shall also be monitored at prominent places like office building, canteen etc. as per the site condition to ascertain exposure characteristics at specific The above data shall be digitally displayed within 03 months in front of the main Gate of the mine site.

areas of the mines. The data for the same is being displayed at the mines main gate for public information. The supporting photo of the digital display board is attached as photo-6.

The parameters being monitored are PM2.5, PM10, Sox, NOx, CO. The values reported are within the stipulated norms. Details on the air quality monitored in the project attached as **Annexure-8.**

This is being monitored on a regular basis by a Third Party, M/s Green Force Associates Private Limited, a NABL accredited laboratory.

Effective safeguard measures for prevention dust generation and subsequent suppression (like regular water sprinkling, metaled road construction etc.) shall be out in areas prone to air pollution wherein high levels of PM10 and PM2 s are evident such as haul road, loading and unloading point and transfer points. The Fugitive dust emissions from ah sources shall be regularly controlled by installation required equipments/ machineries and preventive maintenance. Use of suitable water-soluble chemical dust suppressing agents may be explored for better effectiveness of dust control system. It shall be ensured that air pollution level conform standards prescribed MoEF&CC/ Central Pollution Control Board.

Effective safeguards measures like dry fog system has been installed in crusher/screen plants and Water Spraying is being carried out regularly in all the mineral handling areas say crushing & screening areas, mineral stock yards, loading areas etc. with 02 no.s of 08 KL water tanker capacity for the prevention of dust generation. Supporting photos for the same is attached as **Photo-02 & 03**.

These are being properly maintained and operated by the maintenance team to ensure that air pollution level conform to the standards prescribed by the MoEF & CC/Central Pollution Control Board.

The monitoring reports on fugitive dust emission of site shows that the values are well within the stipulated norms. The monitoring report of the project is attached as **Annexure-9**.

III Water quality monitoring and preservation

ii

In case, immediate mining scheme envisages ground water intersection of table. then Environmental Clearance shall become only operational after receiving formal clearance from CGWA. In case, mining operation involves intersection of ground water table at a later stage, then PP shall ensure that As per the approved mining plan by the Indian Bureau of Mines, GoI the groundwater table exists at 460m RL and present mines operation is restricted at 530m RL. So, presently there is no occurrence of groundwater intersection during the reporting period. We have obtained approval from the

miespe	ct of M/s Dalpahar Iron and Manganese Ore Mine	
	prior approval from CGWA and MoEF & CC is in place before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed hydro-geological study of the area.	Central Ground water Authority for extraction of fresh ground water for a total quantity of 95.00 m3/day or 34675 m3/year, which h is valid up to 01.02.2025.
ii	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 maintain. The natural water bodies and or streams which are flowing in an around the village, should not be disturbed. The Water Table should be nurtured so as not to go down below the pre- mining period. In case of any water scarcity in the area, the Project Proponent has to provide water to the villagers for their use. A provision for regular monitoring of water table in open dug wall located in village should be incorporated to ascertain the impact of mining over ground water table. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.	Regular Monitoring of the flow rate and quality of the springs and perennial nallah in and around the mining lease is being carried out and records of the same are also maintained. The surface water quality from Suna Nadi and Baitarani River, both upstream and downsteam, it is noted that the flow rate varies from 1.9 m/sec and 2.1 m/s for the rivers Baitariani and Suna Nadi in the upstream and 2.2 m/s as well as 2.6 m/s respectively in the downstream direction. Copy of the same are attached herewith as Annexure-10 & 10A . We are monitoring the quality and the depth of the Ground water / dug wells located within and surrounding the mine area. From the data monitored during the month of April, 2024, it is noted that the values reported from the four villages are within the range of 5.1 mtrs to 6.7 mtrs. Copy of the ground water quality and level are attached herewith as Annexure-11 & 11A .
iii	Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo-meter installations during the mining operation in consultation with Central Ground Water Authority/ State Ground Water Department. The Report on changes in Ground water level and quality shall be submitted on six- monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.	We are monitoring and maintaining the record of the ground water level and quality in and around the mining lease on regular basis by establishing a network of existing wells Copy of the same is attached herewith as Annexure-11 & 11 A. The ground water quality and depth is being monitored from dug wells located in the surrounding villages like Bichakundi, Jalahari, Joda and Khandbond. The values reported have been found to be within the permissible limits.
iv	The Project Proponent shall undertake regular monitoring of natural water course/water resources/ springs and perennial nallahs existing/ flowing in and around the mine lease and maintain its records. The project proponent shall undertake regular monitoring of water quality upstream and downstream of water bodies	We are monitoring and maintaining the record of flow rate and water quality of the natural water course/springs and perennial nallhas in and around the mining lease including the monitoring of water quality upstream and downstream of the same on regular basis(six monthly) as prescribed in the condition. The record of monitored data is being sent to

in respec	in respect of M/s Dalpahar Iron and Manganese Ore Mines of Sri D.C. Jain.		
	passing within and nearby/ adjacent to the mine lease and maintain its records. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. PP shall carryout regular monitoring w.r.t. pH and included the same in monitoring plan. The parameters to be monitored shall include their water quality vis- a-vis suitability for usage as per CPCB criteria and flow rate. It shall be ensured that no obstruction and/ or alteration be made to water bodies during mining operations without justification and prior approval of MoEF&CC / SEIAA, Odisha. The monitoring of water courses/ bodies existing in lease area shall be carried out four times in a year viz. premonsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the record of monitored data be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, SEIAA, Odisha, Central Ground Water Authority and Regional Director, Central Ground Water Board, State Pollution Control Board. Clearly showing the trend analysis on six-monthly basis.	the said authorities on six monthly basis through the submission of compliance reports time to time. The project has engaged a NABL accredited laboratory, M/s Green Force Associates Private Limited for the monitoring and analysis of the parameters of the same. The values mentioned in the reports found to conforms to the prescribed standards.	
V	Quality of polluted water generated from mining operations which include Chemical Oxygen Demand (COD) in mines runoff; acid mine drainage and metal contamination in runoff shall be monitored along with Total Suspended Solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended Solids (TSS). The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board, at a suitable location near the main gate of the Company. The circular No. J- 20012/1 /2006-IA.II (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change may also be referred in this regard.	The quality of discharged/run off water during monsoon is being monitored and analysed regularly (for COD, TDS, DO, PH and Total Suspended Solids (TSS)]. The monitoring data results shall be updated in the company website and the display of result is being done in the display board which is present in entrance of mines main gate. The analysis report of the discharged/run off water is attached as Annexure-12 .	
vi	The project proponent shall construct retaining wall and settling pond within the lease area. Further, check dams shall be co constructed at strategic locations in which rain water passes in rainy season. Finally, the excess superannuated after sedimentation shall be	We are assuring the implementation of the necessary precautionary measures by construction of retaining wall, check dams, check weirs, settling pits at strategic locations in due course of mining development/operations through which rain	

	allowed to spill away through stone pitch structure to the nearby valley.	water will pass in rainy season. Finally, the excess superannuated after sedimentation shall be allowed to spill away through stone pitch structure to the nearby valley. For prevention and control of soil erosion and management of silt. The proposed construction measures are explained in table-2.
vii	De-silting of agricultural lands in buffer zone and beyond including nearby Nalas/rivers perennially periodically and perpetually caused due to wash up of minerals/OB/dumps shall be done as per SOP submitted. A legal affidavit shall be submitted within 6 months from the date of issue of Environmental Clearance to this effect with periodicity of de-silting.	We have undertaken to de-silt the agricultural lands in buffer zone and beyond including nearby Nallas/rivers perennially periodically and perpetually caused due to wash up of minerals/OB/dumps, if any occurs.
viii	Detail design of the existing retaining wall and the proposed for the expansion from a chartered Civil Engineer shall be submitted within 6 months from the date of issue of Environmental Clearance to ensure that no silt after wash up is escaped from the core / buffer zone of the mines.	The project is ensuring and implementing the construction of guard wall, check dams, check weirs, settling pits, etc. at the toe of the dumps for prevention and control of soil erosion and management of silt in due course of mine development as stated in the condition.
ix	Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area in consultation with Central Ground Water Board/ State Groundwater Department. A report on amount of water recharged needs to be submitted to Regional Office, MoEF&CC annually.	The project is committed towards the implementation of the Rain water harvesting facilities development after receiving necessary forestry and other clearances from the competent authorities, in upcoming Premises of colony and mine office area as applicable along with ground water recharge wells so as to augment the ground water resources in the area in consultation with Central Ground Water Board/ State Groundwater Department. A report on amount of water recharged shall be submitted to Regional Office, MoEF&CC annually through compliance report status conditions.
X	Industrial waste water (workshop and waste water from the mine) should be properly collected and treated in an ETP as proposed so as to conform to the notified standards prescribed from time to time. The standards shall be prescribed through Consent to Operate (CTO) issued by concerned State Pollution Control Board (SPCB). The workshop effluent shall be	Oil & Grease Separation unit has already been planned for the proposed workshop within the mining lease area with the provisions of sediment settling and filtering of oil and grease. The final outlet is having provision for reuse of treated water for workshop, plantation, dust suppression etc. purposes. The oil and grease collected from the unit are collected into the leak proof

	treated after its initial passage through Oil and grease trap.	barrels/drums and sold to the authorized reprocessors.
xi	The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of the MoEF & CC and State Pollution Control Board.	The water balance/water audit will be carried out through certified third party as applicable and the recommended /suggested measures for reducing the consumption of water will be taken up accordingly.
IV	Noise and vibration monitoring and prevention	n
i	The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.	Drilling and blasting is carried out as per the recommendation of CIMFR, Dhanbad. The Peak particle velocity (PPV) will be monitoring regularly through minimat instrument.
ii	The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is nol disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day /night hours.	We have only a small establishment at the mine site with hardly 50 people working there. The lighting system is barely sufficient for the project activities to be undertaken. Therefore, presently, it is noted that risk of animal / humans being affected due to light and sound at night is minimal. Further, we are ensuring that no lighting system should face towards the outside of mining area or towards the forest area or villages, so that there is no disturbance of the biological clock of the villagers. The project is also take necessary measure to control the noise level in night time. The noise quality, is being monitored around the surrounding villages, both during the daytime as well as night time, the values are found within prescribed limits. The report of the same is attached as annexure-13.
iii	The Project Proponent shall take measures for control of noise levels below 85 dBA in the work environment. The worker engaged in operations of HEMM, etc. should be provided with ear plugs /muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personals/ laborers are working without personal protective equipment.	The Workers engaged in Operations are already been provided with earplugs/muffs, besides this acoustic enclosure for all machine operating cabins will also be provided. Noise Level monitoring is being carried out through the sound level meter by the third party and values of the reports are found well within the norms. Copy of the same is attached herewith as Annexure-13. All personnel including laborers who are working in dusty areas are provided with protective respiratory devices along with adequate training, awareness and information

		on safety and health aspects.
V	Mining Plan	
i	The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of mineral, waste, over burden, inter burden and top soil etc No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, O.B & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form to Short Term Permit (STP), Query license or any other name.	The project proponent is carrying the mining operation as per the approved Mining plan which is approved by IBM, GoI and if any change in the technology, we will take the approval of SEIAA. The copy of approved mining plan is attached herewith as Annexure-6.
ii	The Project Proponent shall get the Final Mine Closure Plan along with Financial Assurance approved from Indian Bureau of Mines/Department of Mining & Geology as required under the Provision of the MMDR Act, 1957 and Rules/ Guidelines made there under. A copy of approved final mine closure plan shall be submitted within 2 months of the approval of the same from the competent authority to the concerned Regional Office of the Ministry of Environment, Forest and Climate Change for record and verification.	The date of financial closure, final approval of the project and date of land development of the project will be intimated from the Indian Bureau of Mines A Final mine closure plan along with a detailed corpus fund will be submitted to the Ministry of Environment & Forest, 2 years in advance of final mine closure for approval. There are only two mine quarries within the 10 ha of land in which all the mining operations are being carried out. So far, the project has not started reclamation of the mined out areas.
iii	The land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life shall be governed as per the approved Mining Plan. The excavation vis-a-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation becomes self-	The Project Proponent is carrying out the mining operation as per the approved Mining plan as approved by IBM, GoI and if any change required in the technology, we will take the approval of SEIAA.

	sustaining. The compliance status shall be	
	submitted half-yearly to the MoEF & CC and its	
	concerned Regional Office / SEIAA, Odisha.	
	g.ca. , c.a.c.,	
VI	Land Reclamation	
İ	The over burden (OB) generated during the mining operation shall be stacked at earmarked OB dump site(s) only and it should not be kept active for long period of time. The physical parameters of OB dumps like height, width and angle of slopes shall be governed as per approved mining plan as per the guidelines/circulars issued by D.G.M.S. w.r.t. safety in mining operations shall strictly adhere to maintain the stability of top soil/OB dumps. The top soil shall be used for land reclamation and plantation.	The overburden (OB) generated during the mining operation shall be stacked at the earmarked dump site(s) only as per the approved mining plan followed by proper terracing of OB dump so that the overall slope shall not exceed as per the approved mining plan. The dumps are to be provided with a retaining wall at the toe followed by a garland drain and settling pits. No Topsoil is being generated from mining operation as its operation is restricted to already broken up area only. If any, it will be stored at earmarked site(s) only with proper protection measures.
ii	The rejected/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of OB dumps like height, width and angle of slopes shall be governed as per approved mining plan as per the guidelines/circulars issued by D.G.M.S. w.r.t. safety in mining operations shall strictly adhere to maintain the stability of top soil/OB dumps.	The overburden (OB) generated during the mining operation stacked at the earmarked dump site(s) only as per the approved mining plan followed by proper terracing of OB dump so that the overall slope shall not exceed as per the approved mining plan. The dumps are to be provided with a retaining wall at the toe followed by a garland drain and settling pits.
iii	The reclamation of waste dump sites shall be done in scientific manner as per the Approved Mining Plan cum Progressive Mine Closure Plan.	The reclamation of dumps will be done in scientific manner as per the approved mining plan. Plantation and environment safeguard measures like provision of Coir mating, plantation, retaining wall, garland drainage provided at the bottom of the dump slopes.
iv	The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability, prevent erosion and surface run off. The selection of local species regulates local climatic parameters and help in adaptation of plant species to the microclimate. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps. The dump mass should be consolidated with the help of dozer/compactors thereby ensuring proper filling/leveling of dump mass. In critical areas, use of geo textiles/ geo-membranes / clay liners /	The maximum heights of the dumps are to be maintained as per the Mining plan. The OB dumps shall be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, we will use the geo textiles for stabilization of the dump. The entire excavated area shall be backfilled and afforested.

micspe	ct of M/s Dalpahar Iron and Manganese Ore Mine	.э от он о.с. јаш.
	Bentonite etc. shall be undertaken for stabilization of the dump.	
V	The Project Proponent shall carry out slope stability study in case the dump height is more than 30 meters. The slope stability report shall be submitted to concerned regional office of MoEF & CC, Govt. of India, Bhubaneswar as well as SEIAA, Odisha.	The dumps height shall be maintained within the height of 30 meters as per the approved mine plan. We will carry out the slope stability study in case the height of the dump increases beyond the stipulated 30 meters height and the report shall be submitted to the office of MoEF & CC, Govt. of India, Bhubaneswar as well as SEIAA, Odisha accordingly.
vi	Catch drains, settling tanks and siltation ponds of appropriate size shall be constructed around the mine working, mineral yards and topsoil / OB / waste dumps to prevent runoff of water and flow of sediments directly into the water bodies (Nallah/ River/ Pond etc.). The collected water should be utilized for watering the mine area, roads, green belt development, plantation etc. The drains/ sedimentation sumps etc. shall be desilted regularly, particularly after monsoon season, and maintained properly.	Proposed Catch drains, check dams, check weirs, settling pits, etc. of adequate and appropriate size will be constructed at the toe of the dumps for prevention and control of soil erosion and management of silt. Apart from that, the project will also construct concrete structures of RCC wall at the toe of the dump and strategic locations for prevention of the soil erosion and management of silts. The collected water is being used for the dust suppression and gardening purpose. The desiltation of the check dams, and catch drains will be done in regular basis. The proposed action plan with time schedule for the same is attached as table-2.
vii	Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/ silt material. The sedimentation pits/ sumps shall be constructed at the comers of the garland drains. (viii)	Proposed Catch drains, check dams, check weirs, settling pits, etc. of adequate and appropriate size will be constructed at the toe of the dumps for prevention and control of soil erosion and management of silt. Apart from that, the project will also construct concrete structures of RCC wall at the toe of the dump and strategic locations for prevention of the soil erosion and management of silts. The collected water is being used for the dust suppression and gardening purpose. The desiltation of the check dams, and catch drains will be done in regular basis. The proposed action plan with time schedule for the same is attached as table-2.
viii	The top soil, if any, shall temporarily be stored at earmarked site(s) within the mine lease only and should not be kept unutilized for long. The physical parameters of the top soil dumps like height, width and angle of slope shall be governed as per the approved Mining Plan	No Topsoil is being generated from mining operation as its operation is restricted to already broken up area only, if any, it will be stored at earmarked site(s) only with proper protection measures.

- 35 F C	ct of M/s Daipanar from and Manganese Ore Mine	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	and as per the guidelines framed by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of dumps. The topsoil shall be used for land reclamation and plantation purpose.	
ix	The mining lease holders shall, after ceasing mining operations, undertake regrassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth o1 fodder, flora, fauna etc.	The project proponent would like to assure that the implementation of the said condition will be carried out as per the approved mining plan.
VII	Transportation	
i	No Transportation of the minerals shall be allowed in case of roads passing through transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers.	The transportation of the mineral is being carried out in the specified road and the road is being maintained by the project proponent up to main road. The mineral is being transported through road as permitted by District Administration, Keonjhar. The pollution due to transportation load on the environment is being effectively controlled by engaging dry fog systems, water sprinkling tankers regularly. Vehicular emissions are being kept under control by regularly maintaining the vehicles. Project ensures to obtain Pollution Under Control (PUC) certificate for all the vehicles which run in the mines from authorized pollution testing centres. We are also ensuring that all the trucks used for the mineral transportation are covered with tarpaulin to avoid the spillage of ore. Supporting photos and annexure-4.
ii	The Main haulage road within the mine lease should be provided with a permanent water arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipments like bag filters, vacuum suction	After the establishment of the main haulage road in mine development activity permanent sprinkling arrangement systems of 500 meters will be arranged as applicable. The applicable air pollution control systems like dry fog system, etc. already been installed in our Crusher and screen plant areas to avoid the air borne dust.

ППС	hoods, dry fogging system etc. shall be	
	installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.	
iii	Traffic management shall be done as per recommendation of Traffic Management Study Report.	Traffic management is being followed as per the Traffic Management Study Report prepared by CRRI.
iv	The Project Proponent shall provide parking plaza for the heavy vehicles within the lease area as recommendation of NEERI.	The Project Proponent has earmarked the parking plaza for the heavy vehicles within the lease area as recommended by NEERI.
VIII	Green Belt Development	
İ	The Project Proponent shall develop greenbelt in 7.5m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Green belt shall be developed within first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by the Ministry irrespective of the stipulation made in approved mine plan.	Safety zone plantation over 7.5 meters all along the lease boundary is already occupied with pre-existing plantation of native saplings. During the reporting period it was planned for plantation of 2900 saplings over 1.49 Ha within safety zone area .As the total area is coming under forest .Hence, we have done the gap filling plantation of 1900 no.s over the vacant space available, safety zone area and core drilling left out land during the plan period 2024-25 as proposed.
ii	The Project Proponent shall carryout plantation/ afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the State Forest Department/ Agriculture Department/ Rural development department/ Tribal Welfare Department/ Gram Panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per Hectare. Adequate budgetary provision shall be made for protection and care of trees.	As per the prescribed standard in the condition we will do the needful plantation/ afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species as per the approved mining plan and in consultation with the State Forest Department/ Agriculture Department and the authorities as applicable.
iii	The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease, The development of such grazing land shall be done in consultation with	No grazing land is involved in the project as all of the mine project area belongs to the Forest land. Presently, the stipulation is not applicable.

	ct of M/s Dalpahar Iron and Manganese Ore Mine	20 01 011 D. C. Julii.
	the State Government. In this regard, Project Proponent should essentially implement the directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded/ protected against felling and plantation of such trees should be promoted.	
iv	The Project Proponent shall undertake all precautionary measures for conservation and protection of endangered flora and fauna and Schedule-I species during mining operation. A Wildlife Conservation Plan shall be prepared for the same clearly delineating action to be taken for conservation of flora and fauna. The Plan shall be approved by Chief Wild Life Warden of the State Govt.	The project has prepared the Wild Life Conservation Plan in consultation with DFO for conservation and protection of endangered flora and fauna and the same got approved by PCCF (Wildlife) & Chief Wild Life Warden, Bhubaneswar with an estimated cost of Rs.250.254 Lakhs which includes Rs.64.374 Lakhs towards activities to be implemented within the ML area and Rs.185.520 Lakhs towards activities to be implemented by the DFO in the project impact area. Copy attached-Annexure -14.
V	And implemented in consultation with the State Forest and Wildlife Department. A copy of Wildlife Conservation Plan and its implementation status (annual) shall be submitted to the Regional Office of the Ministry.	We have prepared the Wildlife Conservation Plan and has deposited the money with the State Forest Department. The implementation is to be carried out by the State Forest and Wildlife authorities. Progress made with this regard to the implementation of the plan shall be reported to the Regional Office along with the Half yearly compliance reports by the project proponents.
IX	Public hearing and human health issues	
i	The Project Proponent shall appoint an Occupational Health Specialist for Regular as well as Periodical medical examination of the workers engaged in the mining activities, as per the DGMS guidelines. The records shall be maintained properly. PP shall also carryout Occupational health check-ups in respect of workers which are having ailments like BP, diabetes, habitual smoking, etc. The check-ups shall be undertaken once in six months and necessary remedial/ preventive measures be taken. A status report on the same may be sent to MoEF&CC Regional Office and DGMS on half-yearly basis.	We have appointed an Occupational Health Specialist for Initial Medical Examination & Periodical Medical Examination of the workers engaged in the project is being undertaken for employees, who are engaged in the process of mining & are likely exposed to dust to observe any contractions due to exposure to dust. This is being carried as per in compliance to Mines Act 1952 & rules 1956 and amendments thereto. The various tests include PFT, X-Ray, and lung spirometry, etc. Based on the above tests, there is none of the above-mentioned employees was found by Silicosis/ Pneumoconiosis or occupational health-related diseases during the examination. A status report on the same is

in respe	ect of M/s Dalpahar Iron and Manganese Ore Mine	s Dalpahar Iron and Manganese Ore Mines of Sri D.C. Jain.				
		attached as Annexure-03.				
ii	A commitment in form of an undertaking for periodical occupational health checkup of the employee and the local people shall be done through an occupational health expert as per the detailed action plan submitted with the proposal within 6 months from the date of issue of Environmental Clearance.	The project proponent appointed and Occupational Health Specialist for Initial Medical Examination & Periodical Medical Examination of the workers engaged in the project is being undertaken for employees as well as for the local villagers. Supporting document for the same is attached as Annexure-03.				
iii	The Project Proponent must demonstrate commitment to work towards 'Zero Harm' from their mining activities and carry out Health Risk Assessment (HRA) for identification workplace hazards and assess their potential risks to health and determine appropriate control measures to protect the health and wellbeing of workers and nearby community. The proponent shall maintain accurate and systematic records of the HRA. The HRA for neighborhood has to focus on Public Health Problems like Malaria, Tuberculosis, HIV, Anaemia, Diarrhoea in children under five, respiratory infections due to bio mass cooking. The proponent shall also create awareness and educate the nearby community and workers for Sanitation, Personal Hygiene, Hand washing, not to defecate in open, Women Health and Hygiene (Providing Sanitary Napkins), hazard of tobacco and alcohol use. The Proponent shall carryout base line HRA for all the category of workers and thereafter every five years	The Project Proponent is committed towards 'Zero Harm' from their mining activities and is being carry out Health Risk Assessment (HRA) for identification workplace hazards and assess their potential risks to health and appropriate control measures are being taken for protect the health and wellbeing of workers and nearby community. The project is maintaining accurate and systematic records of the HRA.				
iv	thereafter every five years. The proponent shall carry out occupational health surveillance which be a part of HRA and include Biological Monitoring where	Initial Medical Examination & Periodical Medical Examination of the workers engaged in the project is being undertaken periodically				
	practical and feasible, and the tests and investigations relevant to the exposure (e.g. for Dust a X-Ray chest; For Noise Audiometric; for Lead Exposure Blood Lead, For Welders Full Ophthalmologic Assessment; for Manganese Miners a complete Neurological Assessment by a Certified Neurologist, and Manganese (Mn) estimation in Blood; For Inorganic Chromium- Fortnightly skin inspection of hands and forearms by a	for employees, who are engaged in the process of mining & are likely exposed to dust to observe any contractions due to exposure to dust. This is being carried as per in compliance to Mines Act 1952 & rules 1956 and amendments thereto. The various tests include PFT, X-Ray, and lung spirometry, etc Supporting document for the same is attached				

in respec	ct of M/s Dalpahar Iron and Manganese Ore Mine	s or 5ri D.C. Jain.
	responsible person. Except routine tests all	
	tests would be carried out in a Lab	
	accredited by NABH. Records of Health	
	Surveillance must be kept for 30 years,	
	including the results of and the records of	
	Physical examination and tests. The record of	
	exposure due to materials like Asbestos,	
	Hard Rock Mining, Silica, Gold, Kaolin,	
	Aluminium, Iron, Manganese, Chromium,	
	Lead, Uranium need to be handed over to	
	the Mining Department of the State in case the	
	life of the mine is less than 30 years. It would	
	be obligatory for the State Mines	
	Departments to make arrangements for the	
	safe and secure storage of the records	
	including X-Ray. Only conventional X-Ray	
	will be accepted for record purposes and not	
	the digital one). X-Ray must meet ILO criteria	
	(17 xl4 inches and of good quality).	
V	The proponent shall maintained a record of	It is being complied through the Initial Medical
1	performance indicators for workers which	Examination & Periodical Medical Examination
	1.	
	includes (a) there should not be a significant	time to time as per the guidelines.
	decline in their Body Mass Index and it should	
	stay between 18.5 -24.9, (b) the Final Chest	
	X-Ray compared with the base line X-Ray	
	should not show any capacities,(c) At the	
	end of their leaving job there should be no	
	Diminution in their Lung Functions Forced	
	Expiratory Volume in one second	
	(FEV1), Forced Vital Capacity (FVC), and the	
	ratio) unless they are smokers which has to	
	•	
	be adjusted, and the effect of age, (d) their	
	hearing should not be affected. As a proof	
	an Audiogram (first and last need to be	
	presented), (e) they should not have	
	developed any Persistent Back Pain, Neck	
	Pain, and the movement of their Hip, Knee	
	and other joints should have normal range of	
	movement, (f) they should not have suffered	
	loss of any body part. The record of the	
	, ,	
	same should be submitted to the Regional	
	Office, MoEF&CC annually along with details	
	of the relief and compensation paid to workers	
	having above indications.	
vi	The project proponent shall ensure that	The personnel's working at dusty areas are
1		<u> </u>
	personnel working in dusty areas should	provided with proper PPEs i.e. nose masks
	ļ ·	
	wear protective respiratory devices and they	etc. The working force is also being trained
	ļ ·	• •

		The year-wise distribution report of the PPEs to the workers for the FY-2024-25 is attached as Annexure-15.
vii	Project Proponent shall make provision for the housing for workers/labors or shall construct labor camps within/outside (company owned land) with necessary basic infrastructure/ facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the completion of the project related infrastructure. The domestic waste water should be treated with STP in order to avoid contamination of underground water.	The is no such housing being made for the labours within the lease area however the project will provided a temporary housing facility for the work force by facilitating fuel for cooking, septic tank followed by soak pit for domestic effluents (STP-Ultra Filtration Unit), drinking water, medical health care etc. outside the ML area.
Viii	The activities proposed in Action plan prepared for addressing the issues raised during the Public Hearing shall be completed as per the budgetary provisions mentioned in the Action Plan and within the stipulated time frame. The Status Report on implementation of Action Plan shall be submitted to the concerned Regional Office of the Ministry along with District Administration.	We are committed to comply all the issues raised during the public hearing in all aspects. The Status Report on implementation submitted to the concerned Regional Office of the Ministry along with District Administration. Detail of the status report is explained in table-03 .
Ix	Issues raised and recorded in proceedings of public hearing w.r.t. environment/pollution / CER shall be complied by the Mining Authority as per OM F.No.22-65/2017-IA.III, dated 30.09.2020 of MoEF&CC, Govt. of India.	We are committed to comply all the issues raised during the public hearing in all aspects and it is being complied in due course of time. The Status Report on implementation of Action Plan submitted to the concerned Regional Office of the Ministry along with District Administration. Detail of the status report is explained in table-03.
X	Corporate Environment Responsibility(CER)	
İ	The activities and budget earmarked for Corporate Environmental Responsibility (CER) as per Ministry's O.M dated 30.09.2020 or as proposed by SEAC should be kept in a separate bank account. The activities proposed for CER shall be implemented in a time bound manner and annual report of implementation of the same along with documentary proof viz. photographs, purchase documents, latitude & longitude of infrastructure developed & road	We are abiding by the provisions made in the CER and a time bound action plan is to be submitted and the same for its implementation in phased manner. The project has earmarked the funds for implementation of environment protection measures and the same is being used for environmental protection measures. Copy attached-Annexure -16

	Office MoEF&CC annually along with audited statement.	
ii	Project Proponent shall keep the funds earmarked for environmental protection measures in a separate account and refrain from diverting the same for other purposes. The Year wise expenditure of such funds should be reported to the MoEF & CC and its concerned Regional Office / SEIAA, Odisha.	The project has earmarked the funds for implementation of environment protection measures separately and the same is being used for environmental protection measures only. The Year wise expenditure of such funds reported to the MoEF & CC and its concerned Regional Office / SEIAA, Odisha on regular basis.Copy attached-Annexure -16.
ΧI	Miscellaneous	
	The Project Proponent shall prepare digital map (land use & land cover) of the entire lease area once in five years purpose of monitoring land use pattern and submit a report to concerned Regional Office of the MoEF&CC.	The Digital procession of the entire lease area using remote sensing technique has already been carried out engaging the third party named M/s Geosensing Information Pvt. Ltd., Chennai .We are herewith communicating the same to SEIAA, Odisha and MOEF & CC as Annexure-17.
ii	The Project Authorities should inform to the Regional Office regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	The Project is in working condition, therefore, the date of financial closure, final approval of the project and date of land development of the project will be intimated.
iii	The project proponent shall establish a solar power plant with 30KVA capacity within the lease area as proposed.	The project proponent shall establish a solar power plant with 30KVA capacity Within the lease area as proposed. As on date procurement of 20KVA capacity material has been completed.
Iv	The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MoEF&CC & its concerned Regional Office, SEIAA, Odisha, Central Pollution Control Board and State Pollution Control Board.	The project has submitted the half yearly compliance report to SEIAA, Orissa as well as the Integrated Regional Office (IRO) of MOEF&CC, Bhubaneswar. Copy attached-Table-4.
V	A separate 'Environmental Management Cell' with suitable qualified manpower should be set-up under the conlrol of a Senior Executive. The Senior Executive shall directly report to Head of the Organization. Adequate number of qualified Environmental Scientists and Mining Engineers shall be appointed and submit a report to RO, MoEF&CC.	A separate Environmental management cell with suitable qualified personnel is already set-up under the control of a Senior Executive, who is directly reporting to the Head of the Organization Cell of our mines. The detail of the same with name and designation of the members of the Environment Management Cell is attached as Annexure -18 .
vi	The proponent shall comply all the specific conditions as recommended by CSIR-NEERI on carrying capacity study (as	We are committed to comply all the specific conditions as recommended by CSIR-NEERI on carrying capacity study.

_	applicable) in time bound manner as proposed	
Vii	applicable) in time bound manner as proposed. The mining lease holders shall, after ceasing mining operations, undertake regrassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.	We are committed and abiding by the said condition.
Viii	The project proponent shall augment infrastructure on drinking water, health care and education in nearby villages as per time bound action plan submitted.	We are abiding by the said condition. The details on budgetary provisions made for the purpose, to be implemented in phase wise, are attached as Annexure-19 .
ix	The project proponent shall obtain permission from DGMS under 106(2b) to carry out blasting operation within the lease area.	The project proponent has obtained the 106(2)(b) permission from the DGMS Chaibasa Region. Copy attached as Annexure -20.
x	The concerned Regional Office of the MoEF&CC shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the MoEF&CC officer(s) by furnishing the requisite data / information / monitoring reports.	We will extend all our cooperation during any such inspections by the Authority.
xi	Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	We are abiding by the said condition.

Supporting Photos:

Photo-1 Ambient Air Quality monitoring station at entry and exit gate.





Photo-2 Mobile Water sprinkler tanker for dust suppression.





Photo-3 Mobile screen Plant Equipped with dry fog system for dust suppression

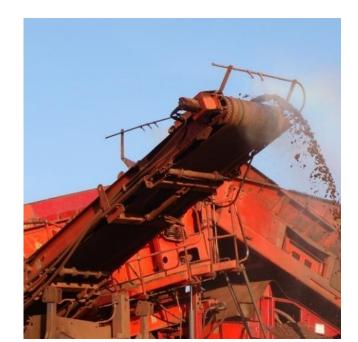




Photo-4 Wheel Wash Facility installation under progress



Photo-5 Trucks carrying ore from mines covered with Tarpaulin





<u>Photo-7</u> Plantation activity in core & buffer zone and saplings distribution to peripheral villagers







<u>ANNEXURE-1</u> (Forest Clearance)

> F. No. 8-103/2000-FC Government of India Ministry of Environment & Forests (F.C. Division)

> > Paryavaran Bhawan, C.G.O. Complex, Lodhi Road, New Delhi-110003

Dated: 14th November 2005

The Secretary (Forests), Government of Orissa, Bhubaneshwar.

Sub: Diversion of 16.464 ha of forest land (originally proposed 97.084 ha) for mining of iron and manganese ore in favour of M/s D. C. Jain in Keonjhar District,

Sir,

To

Kindly refer to your letter No. 10F(Cons) 71/2000/14739/F&E dated 14.09.2000 and subsequent letter No. 10F(Cons) 65/2002/18564/F&E dated 27.10.2005 whereunder the above proposal was forwarded to this office seeking prior approval of the Central Government in accordance with the Section-2 of the Forest (Conservation) Act, 1980.

- After careful consideration of the proposal of the State Government, the Central Government hereby conveys its approval under Section-2 of the Forest (Conservation) Act, 1980 for diversion of 16.464 ha of forest land for mining of iron and manganese ore in favour of M/s D. C. Jain in Keonjhar District, Orissa, subject to the fulfilment of
- (i) Legal status of the forest land shall remain unchanged.
- Compensatory Afforestation shall be raised over equivalent non-forest land, and (ii)
- shall be maintained at the project cost.

 The non-forest land identified for Compensatory Afforestation shall be declared (iii) as Reserved Forest/Protected Forest under Indian Forest Act, 1927 (iv)
- Pena: Compensatory Afforestation shall be raised over degraded forest land double in extent to the area used in violation, i.e., over 32,928 ha, and shall be maintained at the project cost.
- The mining lease period under the Forest (Conservation) Act, 1980 shall be co-(v) terminus with the current lease granted under MMRD Act, 1957.
- The State Government should transfer amount of NPV and other funds to Compensatory Afforestation Fund Management and Planning Authority (CAMPA), which has already been constituted and notified by the Central Government on 23.04.2004. Till such time, the CAMPA intimates the Head of Accounts for deposition of funds, the funds will be maintained in the form of fixed deposits in the name of Nodal Officer or concerned Divisional Forest Officer of the State Government. The funds realized towards the NPV shall not be utilized by the State Government.
- RCC pillars of 4 feet height shall be erected to demarcate the area by the user agency at the project cost and will be marked with forward and back bearings.



EXTENSION OF NOC

भारत सरकार जल शक्ति मंत्रालय जल संसाधन, नदी विकास और गंगा संरक्षण विभाग केन्द्रीय भूमि जल प्राधिकरण Government of India Ministry of Jal Shakti Department of Water Resources, River Development & Ganga Rejuvenation Central Ground Water Authority

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र) NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

Project Name:					Dalpahar Iron And Mn Ore Mines Of Sri D C Jain											
Project Address:				12-a	12-a, Mahatma Gandhi Marg (ring Road), Lajpat Nagar Iv, New Delhi, 110024											
Village:				Khad	dabandh	na				Block:	Joda					
District:			Kend	dujhar					State:	Odisha						
Pin Code:												7				
Communication Address:					, Mahatı ı, Kendu						Lajpat Nag	gar Iv, Ne	w Delh	ni, 1100	24,	
Address of CGWB Regional Office :				Central Ground Water Board South Eastern Region, Bhujal Bhawan, Khandagir Square, Nh-5, Bhubaneshwar, Khordha, Odisha - 750001												
1.	NOC No.:		CGV	N A /NIO C	·/N/INI//	DEIG/20	21/10	646	-	1						
	Applicatio				OC/MIN/ORIG/2021/10646 1/OR/MIN/2020			3.	Category: (GWRE 2017)		Safe					
4.	Project St	atus:	New	/ Project						5.	NOC T	/pe:	New			
6.	Valid from	n:	02/0	2/2023		- /				7.	Valid up to: 01/02/2025					
8.	Ground W	ater Abs	tractio	n Permi	ted:		72									
	Fresh	Water			Salin	Saline Water				Dewatering Total			al			
	m³/day	m³/y	ear	m³.	day	m³/year			m³/da	m³/day m³/year		³/year	m³/day m³/yea		ar	
	95.00	34675	5.00		1)										
Э.	Details of	ground w	ater a	bstraction	on /De	watering	struct	tures								
		To	tal Ex	isting N	o.:0							Total Prop	osed No.	:2		
				DW	DCE	3 B\	N	ΓW	MP		DW	DCB	BW	TW	/	MP
	Abstraction	Structure	e*	0	0	C)	0	0		0	0	2	0		0
DW	/- Dug Well; D	CB-Dug-cu	ım-Bore	Well; BW	-Bore W	/ell; TW-Ti	ube Wel	II; MP-	Mine Pit							
10.	Ground W	ater Abs	tractio	n/Resto	ration	Charges	paid ((Rs.)	:				69350.	00		
 Number of Piezometers(Observation wells) to be constructed/ monitored & Monitoring mechanism. 		No n Piezor						N	Monitoring	g Mechanis	sm					
						Manual	DWL	R**				WLR With	n Telemet	ry		
	**DWLR - Di	gital Water	Level	1		0	1				0					

(Compliance Conditions given overleaf)

This is an auto generated document & need not to be signed.

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली – 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011 Phone: (011) 23383561 Fax: 23382051, 23386743 Website: cgwa-noc.gov.in

पानी बचाये – जीवन बचाये SAVE WATER - SAVE LIFE

Annexure-3 (IME & PME Certificate)

Recorder

HI-TECH DIAGNOSTIC CENTRE

BANSPANI ROAD, OPPOSITE MAA MANGALA TEMPLE JODA-758034, DIST.: KEONJHAR, ODISHA

Date: 02.10.24

Certificate

As per Occupational Health Surveillance Programme of Dalpahar Iron &Mn. Mines, (Owner Shri D.C.JAIN) Dalpahar of having a lease area over an extent of 89.961 Ha, routine Periodical Medical Examination and Initial Medical Examination of the persons engaged in the process of mining, crushing and who are likely to be exposed to dust and noise was conducted for 22 numbers of employees.

The employees were subjected to various tests including Lung Spirometery and High resolution X- Ray of the chest to observe the condition and functioning of lungs due to exposure of dust.

On the basis of the above tests, none of the employees was found to have any of the occupational health diseases like Siderosis, Silicosis and Pneumoconiosis etc.

We have also enclosed the list of persons who have undergone the above test during the period 01-04-2024 to 30-09-2024 as per the norms.

Dr.MIRNMOY MAHATO M.B.B.S,AFIH(DGFASLI)

Reg.No. - 31153

Dr MRINMOY MAHATO MBBS, AFIH (DGFASLI) REG No. 31153 (OMC) MEDICAL OFFICER

HI-TECH DIAGNOSTIC CENTRE

BANSPANI ROAD, OPPOSITE MAA MANGALA TEMPLE JODA-758034, DIST.: KEONJHAR, ODISHA

List Of Employees Under gone IME/PME for the Period from 01.04.24 to 30.09.24

Dalpahar

SL NO	EMP:ID	DATE	TYPE	CERTIFICATE	EMPLOYEE NAME	AGE
1	10012589	27-09-24	PME	T 12112	SURENDRA ROUT	54
2	10000702	28-08-24	PME	T 12021	JUGAL KISHORE MOHANTA	47
3	10016633	28-08-24	PME	T 12022	Kanhei Charan Mahanta	51
4	10001531	13-08-24	PME	T-11999	MANOJ KUMAR TRIBEDI	53
5	10003233	15-07-24	PME	T-11953	SUDIPTA KUMAR APATTA	35
6	10013950	15-07-24	PME	T-11954	KARTTIK PARIDA	33
7	OSPL	12-07-24	IME	A-14665	HARISH MAHARANA	21
8	OSPL	16-05-24	IME	A-14349	SANOJ KUMAR PRADHAN	32
9	BISWESWARI	22-08-24	IME	A-14816	MAHENDRA PARIDA	28
10	BISWESWARI	02-05-24	IME	A-14234	MD MAHFOOZ ANSARI	36
11	BISWESWARI	02-05-24	IME	A-14236	FIROJ CHAMPIA	30
12	HS	07-05-24	IME	A-14278	BABULAL BEHERA	40
13	HS	07-05-24	IME	A-14276	HRUDA RANJAN NAYAK	30
14	HS	07-05-24	IME	A-14275	BISHNA MAHAKUD	24
15	HS	06-04-24	IME	A-14112	RAJKISHORE MAHANTA	43
16	HS	26-04-24	IME	A-14205	BHIMSEN NAIK	30
17	HS	29-04-24	IME	A-14214	RASIKA MUNDA	42
18	HS	29-04-24	IME	A-14221	YUDHISTER MAHANTA	33
19	HS	03-05-24	İME	A-14237	MAHESH THAKUR	38
20	HS	10-05-24	IME	A-14301	NILAKANTHA MAHAKUD	23
21	HS	25-04-24	IME	A-14200	DIPAK BARIK	24
22	AVK	23-04-24	IME	A-14180	JITENDRA KUMAR SAHOO	32

Annexure-4 (PUC certificate)

Form 59

[See rules 115 (2)]

Pollution Under Control Certificate

Authorised By : Government of Odisha

Date : 29/06/2024
Time : 16:27:21 PM
Validity upto : 28/12/2024



Certificate SL. No. : OR90100240002459

 Registration No.
 : OD09G0099

 Date of Registration
 : 20/Jul/2007

 Month & Year of Manufacturing
 : January-2007

 Valid Mobile Number
 : ******7985

 Emission Norms
 : BHARAT STAGE II

 Fuel
 : DIESEL

 PUC Code
 : OR9010024

 GSTIN
 : 21ALHPR203

GSTIN : 21ALHPR2026H1ZG Fees : Rs.177.00

MIL observation : No

Vehicle Photo with Registration plate 60 mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Tallia a Fasia sia a s	Carbon Monoxide (CO)	percentage (%)		
Idling Emissions	Hydrocarbon, (THC/HC)	ppm		
	со	percentage (%)		
High idling emissions	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	2.45	0.69

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note: 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to https://puc.parivahan.gov.in

Authorised Signature with stamp of PUC 0perator 60mm x 20 mm

Annexure-5 (CTO Copy)



CONSENT ORDER

Page 1 of 13

DALPAHAR IRON AND MANGANESE MINES OF SRID, C. JAIN

BY REGD. POST WITH AD

STATE POLLUTION CONTROL BOARD, ODISHA

[DEPARTMENT OF FOREST, ENVIRONMENT & CLIMATE CHANGE, GOVERNMENT OF ODISHA] A/118, Nilakantha Nagar, Unit-VIII, Bhubaneswar-751012 Phone-2561909, Fax: 2562822, 2560955 E-mail: paribesh1@ospcboard.org, Website: www.ospcboard.org

CONSENT ORDER

4296

IND-I-CON-4882

27.03.2024

CONSENT ORDER NO. 2970

Sub: Consent for discharge of sewage and trade effluent under section 25/26 of Water (PCP) Act, 1974 and for existing / new operation of the plant under section 21 of Air (PCP) Act, 1981.

Ref: Your online application No. 5344222, dated 11-01-2024.

Consent to operate is hereby granted under section 25/26 of Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of Air (Prevention & Control of Pollution) Act, 1981 and rules framed thereunder to

Name of the Industry:

DALPAHAR IRON AND MANGANESE MINE OF SRI D.C. JAIN (89,961 ha)

Name of the Occupier & Designation: SRI AVIN JAIN, POWER OF ATTORNEY HOLDER

Address: AT: DALPAHAR, PO: BICHHAKUNDI, JODA, DIST: KEONJHAR, PIN-758034.

This consent order is valid for the period from 01.04.2024 to 31.03.2025.

Details of Products Manufactured

SI. No	Product	Quantity
01.	Iron Ore	0.31 MTPA
02	Manganese Ore	0.094 MTPA

This consent order is valid for the specified outlets, discharge quantity and quality, specified chimney/stack, emission quantity and quality of emissions as specified below. This consent is granted subject to the general and special conditions stipulated therein.

<u>Annexure-06</u>(Mine Plan Approval)



भारत सरकार GOVERNMENT OF INDIA खान मंत्रालय MINISTRY OF MINES भारतीय खान ब्यूरो INDIAN BUREAU OF MINES क्षेत्रीय खान नियंत्रक के कार्यालय OFFICE OF THE REGIONAL CONTROLLER OF MINES



REGD. PARCEL
Phone: 0674-2352463
TeleFax: 0674-2352490
E-mail: ro.bhubaneshwar@ibm.gov.in
Plot No.149, Pokhariput
BHUBANESWAR-751020

Date: 06.11.2020

No. RMP/A/18-ORI/BHU/2020-21

सेवामे

Shri Avin Jain, Legal Heir of Late Shri D C Jain, Dharam Villa, 12-A, Mahatma Gandhi Marg (Ring Road), Lajpat Nagar-IV, New Delhi-110024

विषय: Approval of Review of Mining Plan of Dalpahar Iron & Mn Mine along with Progressive Mine Closure Plan (PMCP), over an area of 89.961 ha out of 101.171 ha in Keonjhar district of Odisha State, submitted by Shri D C Jain under Rule 17 of Mineral Concession Rules, 2016.

संदर्भ: - i) Your letter No. Nil dated 21.09.2020 received on 28.09.2020.

- ii) This office letter of even no. dated 28.09.2020.
- iii) This office letter of even no. dated 28.09.2020 addressed to the Director of Mines, Govt. of Odisha, copy endorsed to you.
- iv) This office letter of even no. dated 13.10.2020.
- v) Your letter No. Nil dated 26.10.2020.

महोदय.

In exercise of the power delegated to me vide Gazette Notification No. S.O. 1857(E) dated 18.05.2016, I hereby **Approve** the Review of Mining Plan including Progressive Mine Closure Plan of Dalpahar Iron & Mn Mine over an area of 89.961 ha out of 101.171 ha of Shri D C Jain in Keonjhar district of Odisha State submitted under Rule 17 of Mineral Concession Rules, 2016. This approval is subject to the following conditions:

- I. The Review of Mining Plan is approved without prejudice to any other law applicable to the mine area from time to time whether made by the Central Government, State Government or any other authority and without prejudice to any order or direction from any court of competent jurisdiction.
- II. The proposals shown on the plates and/or given in the document is based on the lease map /sketch submitted by the applicant/ lessee and is applicable from the date of approval.
- III. It is clarified that the approval of aforesaid Review of Mining Plan does not in any way imply the approval of the Government in terms of any other provision of Mines & Minerals (Development & Regulation) Act, 1957, or the Mineral Concession Rules, 2016 and any other laws including Forest (Conservation) Act, 1980, Environment (Protection) Act, 1986 or the rules made there under, Mines Act, 1952 and Rule & Regulations made there under.
- IV. Indian Bureau of Mines has not undertaken verification of the mining lease boundary on the ground and does not undertake any responsibility regarding correctness of the

boundaries of the leasehold shown on the ground with reference to lease map & other plans furnished by the applicant / lessee.

V. At any stage, if it is observed that the information furnished, data incorporated in the document are incorrect or misrepresent facts, the approval of the document shall be revoked with immediate effect.

 If this approval conflicts with any other law or court order/ Direction under any statute, it shall be revoked immediately.

VII. Validity of this document shall expire on 31.03.2026.

VIII. Next Financial Assurance shall be due for submission on 31.03.2026.

IX. The approval of this document is subject to extension of lease by State Government and will not warrant any entitlement of the lessee to avail the benefit of extension of lease validity as under section 8A of MMDR Ammendment Act, 2015.

Encl: - One copy of Review of Mining Plan

(हरकेश मीना)

क्षेत्रीय खान नियंत्रक

प्रतिलिपि सादर सूचनार्थ:-

 The Director of Mines, Directorate of Mines, Government of Odisha, Heads of the Department Building, Bhubaneswar

751001, Odisha along with one copy of Review of Mining Plan by REGISTERED PARCEL.

2. Shri K Shankar, 49/23, Umapathy Street, West Mambalam, Chennai-600033.

(हरकेश मीना)

क्षेत्रीय खान नियंत्रक

<u>Annexure-07</u>(Advertisement in English language)



1

17

STATE POLLUTION CONTROL BOARD, ORISSA

(Department of Forest & Environment, Govt. of Orissa)
Paribech Bhawan, A/118, Nijakanthanagar, Unit-VIII, Bhubaneswar-751012
Fax: 2562822 / 2560955, Tel.: 2564033 / 2563924, EPABX: 2561901 / 2562847
E-mail: paribech (Gallenne in Website: www.ospcboard.org

No. 11974-IND-II-PH-473

Date: 21-07-2011

NOTICE

It is brought to notice of all concerned that Sri Avin Jain have proposed to have Environmental Assessment for Dalpahar Iron and Manganese Mines for enhancement of production of Iron Ore from 708 TPA to 0.31 MTPA and Manganese up to 0.094 MTPA over an area of 101.171 Ha. At - Champus, Joda in the District of Keonjhar to obtain Environmental Clearance from the Ministry of Environment & Forests, Government of India, the proponent has applied to the State Pollution Control Board, Orissa, Bhubaneswar for a public hearing.

By virtue of the notification of Ministry of Environment & Forests, Govt. of India, No. S.O. 1533 (E) dtd. 14-09-2006, the Board has been authorized to conduct environmental public hearing and as such invites suggestions, views, comments and objections on matters relating to environmental aspects of the proposed project from all the persons including bona fide residents, environmental groups and other located at the proposed site / sites of displacement / sites likely to be affected.

For the above purpose a person will only mean:

- A. Any person who is likely to be affected by the Grant of Environmental Clearance.
- B. Any person who owns his control over the project with respect to which an application has been submitted for Environmental Clearance.
- C. Any association of persons whether incorporated or likely to be affected by the expected and rior functioning in the field of environment.
- D. Any local authority within any part of whose limit is within the neighbourhood whereign the project is proposed to the Tocated.

wherein the project is proposed to be located.

Persons as above who desire to submit their views, comments, objections etc. relevant to the project may do so in writing within 30 days from the date of publication of this notice addressing the same to the Member Secretary, Orissa Pollution Control Board through Registered Post, Besides this, persons interested to submit their views, relevant to the proposed project in writing or orally may also do so during the public hearing to be conducted at Dalpahar Village, Keonjhar on 26-08-2011 at 11-00 a.m.

Ing to be conducted at Dalpahar Village, Keonjhar on 26-08-2011 at 11-00 a.m. Persons desirous of participating in the public hearing may go through the Environmental Impact Assessment / EMP of the said project which will be available at the following offices. Copy of the Executive Summary both in English & Oriya also available in the following offices and the same can also be downloaded from the Website www.osacboard.org free of cost.

- 1. District Collector's Office, Keonjhar.
- 2. District Industries Center, Keonjhar
- 3. In the Office of the Chief Executive Officer, Zilla Parishad, Keonjhar,
- In the Hoad Office of the Orissa Pollution Control Board, Paribesh Bhawan, A/118, Nilakanthanagar, Unit-VIII, Bhubaneswar-12.
- Regional Office, State Poliution Control Board, Orissa, Keonjhar.
- Department of Forest & Environment (Environment), Government of Orissa, Bhubaneswar.

For any further clarification in the matter, the Regional Officer, State Pollution Control Board, Keonghar or the Member Secretary, Orissa Pollution Control Board at Bhub-ineswar may be contacted. Suggestions, comments, objections etc. will not be entertained if not submitted in writing within the stipulated period or not submitted in writing of orally during the public hearing.

MEMBER SECRETARY

The Statesman alt 23.7.11 P. 13

Environment Parameter Monitoring Reports:

<u>Annexure-8</u> (Ambient Air Quality monitoring report)



Report No- GFAPL/24-25/DIOM/083

Issued Date-04.10.2024

TEST REPORT

Client Name &Address	Dalpahar Iron & Mn Ore Mines of Sri. D.C. Jain, At/PO- Dalpahar, Dist- Keonjhar, Odisha				
Nature of Sampling	Ambient Air Quality Monitor	ng (AAQ)			
Sampling By	GFAPL's Representative				
Environmental Condition	Good Sampling Method As per IS: 5182				
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO		
Discipline	Chemical Group Atmospheric Pollution				
Sampling Location & Coordinates	AAQ5- Village Pataberha				
Instrument Used	Respirable Dust Sampler, Fine	Particulate Dust San	npler		

Date of Sampling	PM ₁₀ (μg/m3)	PM _{2.5} (μg/m3)	SO ₂ (μg/m3)	NO ₂ (μg/m3)
02.09.2024	45.6	21.6	<4.0	<9.0
05.09.2024	47.2	22.2	<4.0	<9.0
09.09.2024	43.4	20.1	<4.0	<9.0
12.09.2024	45.4	20.5	<4.0	<9.0
16.09.2024	42.8	19.6	<4.0	<9.0
19.09.2024	40.8	18.2	<4.0	< 9.0
23.09.2024	44.2	20.2	<4.0	<9.0
26.09.2024	39.2	16.8	<4.0	<9.0
30.09.2024	41.6	17.9	<4.0	<9.0
Max	47.20	22.20	<4.0	<9.0
Min	39.20	16.80	<4.0	<9.0
Average	43.36	19.68	<4.0	<9.0
NAAQ* Standard	100	60	80	80
Methods of Analysis	IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)

Reviewed By

CHIEF ANALYST E ASSOCIATES PRIVATE LIMITED **GREENFORCE ASSO** BHURCHIEL Wallystoisha Miss. Arti Sahoo

Authorized Signatory
TECHNICAL MANAGER
GREENFORCE ASSOCIATES PRIVATE LIMITED
Mr. S.K. Parhi

Note:

- The results listed refer only to tested samples and applicable parameters Endorsement of products is neither inferred nor implied.
- Total liability of our lab is limited to the invoiced amount.
- Samples will be destroyed after 30 days from the date of test report unless otherwise specified.

 This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.

 Report refers to the sample submitted to us and not drawn by unless mentioned otherwise.

END OF REPORT

--1--



Report No- GFAPL/24-25/DIOM/082

Issued Date-04.10.2024

TEST REPORT

Mail Idegreenforceassociates@gmail.com

Client Name &Address	Dalpahar Iron & Mn Ore Mines of Sri. D.C. Jain, At/PO- Dalpahar, Dist- Keonjhar, Odisha				
Nature of Sampling	Ambient Air Quality Monitor	ing (AAQ)			
Sampling By	GFAPL's Representative				
Environmental Condition	Good Sampling Method As per IS: 5182				
Location of performance of Laboratory activities	Laboratory Permanent Facility Deviation from the method (if any) NO				
Discipline	Chemical Group Atmospheric Pollution				
Sampling Location & Coordinates	AAQ4- Village Jalahari				
Instrument Used	Respirable Dust Sampler, Fine Particulate Dust Sampler				

Date of Sampling	PM ₁₀ (μg/m3)	PM _{2.5} (μg/m3)	SO ₂ (μg/m3)	NO ₂ (μg/m3)
02.09.2024	43.8	21.2	<4.0	<9.0
05.09.2024	44.8	21.6	<4.0	<9.0
09.09.2024	41.4	19.2	<4.0	<9.0
12.09.2024	42.8	19.8	<4.0	<9.0
16.09.2024	43.4	20.1	<4.0	<9.0
19.09.2024	41.5	18.8	<4.0	<9.0
23.09.2024	44.2	19.8	<4.0	<9.0
26.09.2024	38.6	16.1	<4.0	<9.0
30.09.2024	40.5	16.8	<4.0	<9.0
Max	44.80	21.60	<4.0	<9.0
Min	38.60	16.10	<4.0	<9.0
Average	42.33	19.27	<4.0	<9.0
NAAQ* Standard	100	60	80	80
Methods of Analysis	IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)

Reviewed By

Authorized Signatory

CHIPT ANALYST
GREENFORCE ASSOCIATES PRIVATE LIMITED
BHUE AND SHAPE SHAPES PRIVATE LIMITED
Miss. Arti Sahoo ISHA

TECHNICAL MANAGER

DRCE ASSESSION MEGAPRIVATE LIMITED

BHUBANESIKAR AUDISHA

- The results listed refer only to tested samples and applicable parameters Endorsement of products is neither inferred nor implied. Total liability of our lab is limited to the invoiced amount.

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 Report refers to the sample submitted to us and not drawn by unless mentioned otherwise.

END OF REPORT



GREEN FORCE ASSOCIATES PRIVAT





👰 Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg, Baramunda, Bhubaneswar, Dist - Khurdha



Report No- GFAPL/24-25/DIOM/081

Mail Id: greenforceassociates@gmeil.com



Issued Date-04.10.2024

TEST REPORT

Client Name & Address	Dalpahar Iron & Mn Ore Mines of Sri. D.C. Jain, At/PO- Dalpahar, Dist- Keonjhar, Odisha				
Nature of Sampling	Ambient Air Quality Monitor	ing (AAQ)			
Sampling By	GFAPL's Representative				
Environmental Condition	Good Sampling Method As per IS: 5182				
Location of performance of Laboratory activities	Laboratory Permanent Facility Deviation from the method (if any) NO				
Discipline	Chemical Group Atmospheric Pollution				
Sampling Location & Coordinates	AAQ3- Village Bichhakhundi				
Instrument Used	Respirable Dust Sampler, Fine Particulate Dust Sampler				

Date of Sampling	PM ₁₀ (μg/m3)	PM _{2.5} (μg/m3)	SO ₂ (μg/m3)	NO ₂ (μg/m3)
02.09.2024	46.1	21.2	<4.0	<9.0
05.09.2024	48.2	21.6	<4.0	<9.0
09.09.2024	42.4	19.5	<4.0	<9.0
12.09.2024	43.8	20.1	<4.0	<9.0
16.09.2024	44.6	20.6	<4.0	<9.0
19.09.2024	42.1	19.5	<4.0	<9.0
23.09.2024	45.2	20.8	<4.0	<9.0
26.09.2024	39.8	17.1	<4.0	<9.0
30.09.2024	41.9	18.2	<4.0	<9.0
Max	48.20	21.60	<4.0	<9.0
Min	39.80	17.10	<4.0	<9.0
Average	43.79	19.84	<4.0	<9.0
NAAQ* Standard	100	60	80	80
Methods of Analysis	IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)

Reviewed By

CAREMANIST GREENFORCE PRIVATE LIMITED BHLIBANTISSED ODISHA

Authorized Signatory

GREENFORCE ASSOCIATES PRIVATE LIMITED
Mr. S.R. PARHODISHA

Note:

The results listed refer only to tested samples and applicable parameters Endorsement of products is neither inferred nor implied. Total liability of our lab is limited to the invoiced amount.

Samples will be destroyed after 30 days from the date of test report unless otherwise specified.

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Report refers to the sample submitted to us and not drawn by unless mentioned otherwise.

END OF REPORT

-1-







📿 Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg, Baramunda, Bhubaneswar, Dist - Khurdha









Report No- GFAPL/24-25/DIOM/080

Issued Date-04.10.2024

TEST REPORT

Client Name &Address	Dalpahar Iron & Mn Ore Mines of Sri. D.C. Jain, At/PO- Dalpahar, Dist- Keonjhar, Odisha				
Nature of Sampling	Ambient Air Quality Monitor	ring (AAQ)			
Sampling By	GFAPL's Representative				
Environmental Condition	Good Sampling Method As per IS: 5182				
Location of performance of Laboratory activities	Laboratory Permanent Facility Deviation from the method (if any)				
Discipline	Chemical	Group	Atmospheric Pollution		
Sampling Location & Coordinates	AAQ2- Dalpahar camp		-		
Instrument Used	Respirable Dust Sampler, Fine Particulate Dust Sampler				

Date of Sampling	PM ₁₀ (μg/m3)	PM _{2.5} (μg/m3)	SO ₂ (μg/m3)	NO ₂ (μg/m3)
02.09.2024	52.6	24,2	6.4	10.8
05.09.2024	54.2	24.8	6.6	11.2
09.09.2024	49.2	22,4	4.8	10.2
12.09.2024	50.2	22.8	5.2	10.4
16.09.2024	48.4	20.8	4.8	9.8
19.09.2024	45.6	20.2	4.6	9.6
23.09.2024	47.6	21.5	4.8	9.8
26.09.2024	42.8	18.8	4.6	9.6
30.09.2024	45.6	20.8	5.2	10.2
Max	54.20	24.80	6.60	11.20
Min	42.80	18.80	4.60	9.60
Average	48.47	21.81	5.22	10.18
NAAQ* Standard	100	60	80	80
Methods of Analysis	IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)

Reviewed By

Authorized Signatory

TECHNICAL MANAGER
GREENFORCE CHUICAL MANAGER
BHUBANESWAR, ODISHA

CHIEF ANALYST

RCE ASSOCIATES PRIVATE LIMITED

BHIEF ARTI SANO GREENFORCE

Note:

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💡 Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg, Baramunda, Bhubaneswar, Dist - Khurdha







Report No- GFAPL/24-25/DIOM/079

Issued Date-04.10.2024

TEST REPORT

Client Name &Address	Dalpahar Iron & Mn Ore Mines of Sri. D.C. Jain, At/PO- Dalpahar, Dist- Keonjhar, Odisha				
Nature of Sampling	Ambient Air Quality Monitor	ing (AAQ)			
Sampling By	GFAPL's Representative				
Environmental Condition	Good Sampling Method As per IS: 5182				
Location of performance of Laboratory activities	Laboratory Permanent Facility Deviation from the method (if any)				
Discipline	Chemical Group Atmospheric Pollution				
Sampling Location & Coordinates	AAQ1- Mine area				
Instrument Used	Respirable Dust Sampler, Fine Particulate Dust Sampler				

Date of Sampling	PM ₁₀ (μg/m3)	PM _{2.5} (μg/m3)	SO ₂ (μg/m3)	NO ₂ (μg/m3)
02.09.2024	53.5	24.2	7.2	12.8
05.09.2024	56.2	25.2	7.8	13.6
09.09.2024	50.1	22.4	5.4	10.4
12.09.2024	52.8	23.1	5.8	10.8
16.09.2024	50.2	22.8	5.4	10.2
19.09.2024	47.2	20.4	4.8	9.8
23.09.2024	50.6	22.3	5.2	10.2
26.09.2024	45.1	20.1	4.4	9.6
30.09.2024	49.8	21.4	4.8	10.2
Max	56.20	25.20	7.80	13.60
Min	45.10	20.10	4.40	9.60
Average	50.61	22.43	5.64	10.84
NAAQ* Standard	100	60	80	80
Methods of Analysis	IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)

Reviewed By

Authorized Signatory

GREENFORCE ASSOCIATES PRIVATE LIMITED BHUBANTS WAR POPILS HA

CHIEF ANALYST
GREENFORCE ASSOCIATES PRIVATE LIMITED
BHUFFELD NAME ODISHA
Miss. Arti Sahoo

Note:

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💡 Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg, Baramunda, Bhubaneswar, Dist - Khurdha







Report No- GFAPL/24-25/DIOM/084

Issued Date-04.10.2024

TEST REPORT

Client Name &Address	Dalpahar Iron & Mn Ore Mines of Sri. D.C. Jain, At/PO- Dalpahar, Dist- Keonjhar, Odisha				
Nature of Sampling	Ambient Air Quality Monitor	ing (AAQ)			
Sampling By	GFAPL's Representative				
Environmental Condition	Good Sampling Method As per IS: 5182				
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO		
Discipline	Chemical	Group	Atmospheric Pollution		
Sampling Location & Coordinates	AAQ6- Village Dalpahar				
Instrument Used	Respirable Dust Sampler, Fine Particulate Dust Sampler				

Date of Sampling	PM ₁₀ (μg/m3)	PM _{2.5} (μg/m3)	SO ₂ (μg/m3)	NO ₂ (μg/m3)
02.09.2024	48.5	22.6	<4.0	<9.0
05.09.2024	49.2	23.2	<4.0	<9.0
09.09.2024	45.4	20.8	<4.0	<9.0
12.09.2024	46.7	21.2	<4.0	<9.0
16.09.2024	43.1	20.1	<4.0	<9.0
19.09.2024	41.2	19.5	<4.0	<9.0
23.09.2024	45.2	20.8	<4.0	<9.0
26.09.2024	40.2	18.2	<4.0	<9.0
30.09.2024	42.8	18.8	<4.0	<9.0
Max	49.20	23.20	<4.0	<9.0
Min	40.20	18.20	<4.0	<9.0
Average	44.70	20.58	<4.0	<9.0
NAAQ* Standard	100	60	80	80
Methods of Analysis	IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)

Reviewed By

CHIEF ANALYST
GREENFORCE CARPATALIES PRIVATE LIMITED

BHMG-ANESW STADDISHA

Authorized Signatory

TECHNICAL MANAGER GREENFORCE ASSOCIATES PRIVATE LIMITED
BHUBEN BANGARETHA
Mr. S.K. Parhi

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Annexure-9 (Fugitive Dust Emission monitoring)



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🥯 Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg, Baramunda, Bhubaneswar, Dist - Khurdha

Mail Id: greenforceassociates@gmail.com



Issued Date-04.10.2024

TEST REPORT

Client Name & Address	Dalpahar Iron & Mn Ore Mines of Sri. D.C. Jain, At/PO- Dalpahar, Dist- Keonjhar, Odisha				
Nature of Sampling	Fugitive Dust Emission (F)				
Sampling By	GFAPL's Representative				
Environmental Condition	Good Sampling Method As per IS: 5182				
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO		
Discipline	Chemical	Group	Atmospheric Pollution		
Sampling Location & Coordinates	F1- Excavation Area; F2- Crushing & Screening Area	a;			
Instrument Used	Respirable Dust Sampler (RDS)			

CL N.	D-4-66	Result (μg/m³)
Sl. No.	Date of Sampling	F1	F2
1.	06.09.2024	398.6	418.6
2.	24.09.2024	429.6	446.2
Max		429.6	446.2
	Min	398.6	418.6
	Average	414.1	432.4
Fugitive Standard		1200 µ	ig/m³
N	lethods of Analysis	IS:5182 (Part-4)

Reviewed By

CHIEF ANALYST
GREENFORCE ASSOCIATES PRIVATE LIMITED
BHUE THE MANY SOLISHA
Miss. Arti Sanoo

Authorized Signatory

TECHNICAL MANAGER GREENFORCE ASSOCIATES PRIVATE LIMITED
BHURANES MANAGERSHA
Mr. S.K. Parhi

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Annexure-10 (Surface water Flow rate monitoring report)



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🍳 Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg, Baramunda, Bhubaneswar, Dist - Khurdha

🌠 Mail Id: greenforceassociates@gmail.com

Report No- GFAPL/24-25/ DIOM/022

Issued Date-05.05.2024

TEST REPORT

Client Name &Address	Dalpahar Iron & Mn Ore Mines of Sri. D.C. Jain, At/PO- Dalpahar, Dist- Keonjhar, Odisha				
Nature of Sampling	Surface Water Flow Rate				
Sampling By	GFAPL's Representative				
Location of performance of Laboratory activities	Laboratory Permanent Facility	Laboratory Permanent Facility Deviation from the method (if any) NO			
Discipline	Chemical	Group	Water		
Date of Sampling	19.04.2024		*		

Sl. No.	Locations	Result
1	Baitarani river (Upstream)	1.9 m/sec
2	Baitarani river (Down stream)	2.2 m/sec
3	Suna Nadi (Up stream)	2.1 m/sec
4	Suna Nadi (Down Stream)	2.6 m/sec

Verified By

CHIEF ANALYST
GREENFORCE AND THATES PRIVATE LIMITED
BHUBANESWEEL ODISHA

Authorized By

TECHNICAL MANAGER
GREENFORCE ASSOCIATES PRIVATE LIMITED
BHUBANESWAR, TOISHA

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Mail Id: greenforceassociates@gmail.com

Report No- GFAPL/24-25/DIOM/067

Issued Date-06.08.2024

TEST REPORT

Client Name &Address	Dalpahar Iron & Mn Ore Mines of Sri. D.C. Jain, At/PO- Dalpahar, Dist- Keonjhar, Odisha			
Nature of Sampling	Surface Water Flow Rate	Surface Water Flow Rate		
Sampling By	GFAPL's Representative	GFAPL's Representative		
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO	
Discipline	Chemical	Group	Water	
Date of Sampling	22.07.2024			

Sl. No.	Sampling Location	Result (in m/sec)
1	Baitarani River (Upstream)	3.0
2	Baitarani River (Downstream)	3.8
3	Suna Nadi (Upstream)	2.9
4	Suna Nadi (Downstream)	3.6
Verified By		Authorized By

GREENFORCHIES BOOKSTES PRIVATE LIMITED

MINSBAND SALOR ODISHA

Note:

TECHNICAL Managerer GREENFORCE ASSOCIATES PRIVATE LIMITE! BHUBANESWAR, ODISHA

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Annexure-10A (Surface water Quality Monitoring Analysis Reports)



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Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg, Baramunda, Bhubaneswar, Dist - Khurdha

Mail Id: greenforceassociates@gmail.com

Report No- GFAPL/24-25/DIOM/060

Issued Date-06.08.2024

TEST REPORT

Client Name &Address	Dalpahar Iron & Mn Ore Mines of Sri. D.C. Jain, At/PO- Dalpahar, Dist- Keonjhar, Odisha				
Nature of Sampling	Surface Water				
Sampling By	GFAPL's Representative				
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO		
Discipline	Chemical	Group	Water		
Date of Sampling	22.07.2024	Date of Receiving	23.07.2024		
Date of Analysis	23.07.2024	Date of Complete	27.07.2024		
Sampling Location & Coordinates	SW3- Suna nadi (Up stream) SW4- Suna Nadi (Down Stream)	No. of Page	•		

SI. No.	Parameter	Testing Methods	Unit	Standard as per IS-2296 Class-C	SW3	SW4
1.	Colour	IS 3025: (Part 4)- 2021	Hazen	300	70	130
2.	Turbidity	APHA 24th ED: 2130-B - 2023	NTU	-	18	32
3.	рН	APHA 24th ED 4500- H+B:2023	_	6.0-9.0	7.04	7.12
4.	Conductivity	APHA 24th ED 2510-B: 2023	μS/cm		132.8	156.8
5.	Total Dissolved Solid	APHA 24th ED 2540-C: 2023	mg/l	1500	83	98
6.	Chloride (as Cl)	APHA 24th Ed 4500- Cl-B:2023	mg/l	600	7	8
7.	Cyanide (as CN)	APHA 24th ED 4500-CN-F	mg/l	0.05	<0.02	<0.02
8.	Hexavalent Chromium(asCr+6)	APHA 24th ED 3500-Cr-B: 2023	mg/l	0.05	<0.05	<0.05
9.	Iron (as Fe)	APHA 24th ED 3500-Fe-B: 2023	mg/l	0.5	0.1	0.12
10.	Sulfate (as SO4)	APHA 24th ED 4500-SO4 D: 2023	mg/l	400	3.6	3.8
11.	Fluoride (as F)	APHA 24th ED 4500-F-C: 2023	mg/l	1.5	< 0.05	< 0.05

--1 of 3--







🍳 Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg, Baramunda, Bhubaneswar, Dist - Khurdha Mail Id: greenforceassociates@gmail.com

SI. No.	Parameter	Testing Methods	Unit	Standard as per IS-2296 Class-C	SW3	SW4
12.	Oil & Grease	IS 3025 PART 39-1991 RA-2003	mg/l		<2.0	<2.0
13.	Dissolved oxygen	APHA 24th ED 4500 O-C:2023	mg/l	4	6.5	6.4
14.	BOD (3)days at 27°C	IS 3025 (PART 44): 1993 REA- 2009	mg/l	3.0	<2.0	<2.0
15.	Chemical Oxygen Demand as COD	APHA 24th ED 5220 C:2023	mg/l	-	<4.0	<4.0

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💡 Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg, Baramunda, Bhubaneswar, Dist - Khurdha

Mail Id: greenforceassociates@gmail.com (An ISO 14001, 9001, 45001 certified Consulting Organization & NABL Accredited Laboratory)

Report No- GFAPL/24-25/DIOM/059

TEST REPORT

Issued Date-06.08.2024

Client Name &Address	Dalpahar Iron & Mn Ore Mines of Sri. D.C. Jain, At/PO- Dalpahar, Dist- Keonjhar, Odisha			
Nature of Sampling	Surface Water			
Sampling By	GFAPL's Representative			
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO	
Discipline	Chemical	Group	Water	
Date of Sampling	22.07.2024	Date of Receiving	23.07.2024	
Date of Analysis	23.07.2024	Date of Complete	27.07.2024	
Sampling Location & Coordinates	SW1- Baitarani river (Upstrea SW2- Baitarani river (Down s			

Sl. No.	Parameter	Testing Methods	Unit	Standard as per IS-2296 Class-C	SW1	SW2
1.	Nitrate (as NO3)	APHA 24th ED 4500-NO3-E: 2023	mg/l	50	0.38	0.34
2.	Phenolic Compounds as C6H5OH	APHA 24th ED 5530 B,D:2023	mg/l		<0.001	<0.001
3.	Copper (as Cu)	IS: 3025(Part 42)	mg/l	0.05	< 0.02	< 0.02
4.	Lead (as Pb)	APHA 24th ED 3500 Pb: 2023	mg/l	0.01	< 0.01	< 0.01
5.	Zinc (as Zn)	APHA 24th ED 3500 Zn: 2023	mg/l	5	< 0.02	< 0.02
6.	Arsenic as As	IS: 3025 (Part 37)	mg/l		< 0.001	< 0.001
7.	Selenium (as Se)	APHA 24th ED 3500 B: 2023	mg/l	0.001	< 0.001	< 0.001
8.	Cadmium (as Cd)	IS: 3025(Part 41)	mg/l	0.003	< 0.001	< 0.001
9.	Total Coliform	APHA 24th ED 9222-H: 2023	MPN/ 100ml	Dic	510	900

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CHIEFAWALYST GREENFORCE ASSOCIANTES PRIVATE LIMITED BHUBANESWAR! ODISHA

TECHNICAL MANAGER
GREENFORCE ASSOCIAL MANAGER BHUBANESWAR

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 Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg, Baramunda, Bhubaneswar, Dist - Khurdha

Mail Id: greenforceassociates@gmail.com

Report No- GFAPL/24-25/DIOM/059

Issued Date-06.08.2024

TEST REPORT

Client Name &Address	Dalpahar Iron & Mn Ore Mines of Sri. D.C. Jain, At/PO- Dalpahar, Dist- Keonjhar, Odisha			
Nature of Sampling	Surface Water	Surface Water		
Sampling By	GFAPL's Representative			
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO	
Discipline	Chemical	Group	Water	
Date of Sampling	22.07.2024	Date of Receiving	23.07.2024	
Date of Analysis	23.07.2024	Date of Complete	27.07.2024	
Sampling Location & Coordinates	SW1- Baitarani river (Upstream SW2- Baitarani river (Down str			

Sl. No.	Parameter	Testing Methods	Unit	Standard as per IS- 2296 Class-C	SW1	SW2
1.	Colour	IS 3025: (Part 4)- 2021	Hazen	300	80	120
2.	Turbidity	APHA 24th ED: 2130-B - 2023	NTU		28	30
3.	рН	APHA 24th ED 4500- H+B:2023		6.0-9.0	7.14	7.18
4.	Conductivity	APHA 24th ED 2510-B; 2023	μS/cm		131.2	137.6
5.	Total Dissolved Solid	APHA 24th ED 2540-C: 2023	mg/l	1500	82	86
6.	Chloride (as Cl)	APHA 24th Ed 4500- Cl-B:2023	mg/l	600	8	9
7.	Cyanide (as CN)	APHA 24th ED 4500-CN-F	mg/I	0.05	< 0.02	<0.02
8.	Hexavalent Chromium(asCr+6)	APHA 24 th ED 3500-Cr-B: 2023	mg/l	0.05	<0.05	<0.05
9.	Iron (as Fe)	APHA 24th ED 3500-Fe-B: 2023	mg/l	0.5	0.15	0.18
10.	Sulfate (as SO4)	APHA 24th ED 4500-SO4 D: 2023	mg/l	400	3.3	4.2
11.	Fluoride (as F)	APHA 24th ED 4500-F-C: 2023	mg/l	1.5	<0.05	<0.05

--1 of 3--



GREEN FORCE ASSOCIATES PRIVATE LIMITED

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Mail Id: greenforceassociates@gmail.com

(An ISO 14001, 9001, 45001 certified Consulting Organization & NABL Accredited Laboratory)

Report No- GFAPL/24-25/DIOM/060

Issued Date-06.08.2024

TEST REPORT

Client Name &Address	Dalpahar Iron & Mn Ore Mines of Sri. D.C. Jain, At/PO- Dalpahar, Dist- Keonjhar, Odisha				
Nature of Sampling	Surface Water				
Sampling By	GFAPL's Representative				
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO		
Discipline	Chemical	Group	Water		
Date of Sampling	22.07.2024	Date of Receiving	23.07.2024		
Date of Analysis	23.07.2024	Date of Complete	27.07.2024		
Sampling Location & Coordinates	SW3- Suna Nadi (Up stream) SW4- Suna Nadi (Down Stream	n) [

Sl. No.	Parameter	Testing Methods	Unit	Standard as per IS-2296 Class-C	SW3	SW4
1.	Nitrate (as NO3)	APHA 24th ED 4500-NO3-E: 2023	mg/l	50	0.28	0.24
2.	Phenolic Compounds as C6H5OH	APHA 24th ED 5530 B,D:2023	mg/l	J - 1 3	<0.001	<0.001
3.	Copper (as Cu)	IS: 3025(Part 42)	mg/l	0.05	< 0.02	< 0.02
4.	Lead (as Pb)	APHA 24th ED 3500 Pb: 2023	mg/l	0.01	< 0.01	< 0.01
5.	Zinc (as Zn)	APHA 24th ED 3500 Zn: 2023	mg/l	5	< 0.02	< 0.02
6.	Arsenic as As	IS: 3025 (Part 37)	mg/l		< 0.001	< 0.001
7.	Selenium (as Se)	APHA 24th ED 3500 B: 2023	mg/l	0.001	< 0.001	< 0.001
8.	Cadmium (as Cd)	IS: 3025(Part 41)	mg/l	0.003	< 0.001	< 0.001
9.	Total Coliform	APHA 24th ED 9222-H: 2023	MPN/ 100ml	THE	540	900

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CATES PRIVATE LIMITED GREENFORG SWAR, ODISHA BHUBANE

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ANNEXURE- 11 (Ground Water Level Monitoring Report)







Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg, Baramunda, Bhubaneswar, Dist - Khurdha Mail Id: greenforceassociates@gmail.com

Report No- GFAPL/24-25/DIOM/067

Issued Date-06.08.2024

TEST REPORT

Client Name &Address	Dalpahar Iron & Mn Ore Mines of Sri. D.C. Jain, At/PO- Dalpahar, Dist- Keonjhar, Odisha				
Nature of Sampling	Ground Water Level				
Sampling By	GFAPL's Representa	ative			
Location of performance of Laboratory activities	Site Facility	Deviation from the method (if any)	NO		
Discipline	Chemical	Group	Water		
Date of Sampling	22.07.2024				

SI. No.	Locations	Result
1	GWL1- Bore well of Dalpahar Camp	5.1 m
2	GWL2- Bore well of Village Bichhakhundi	4.8 m
3	GWL3- Bore well of Village Jalhari	5.5 m
4	GWL4- Bore well of Village Joda	4.2 m

Verified By

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TECHNICAL MANAGER
REENFORCE ASSOCIATES PHYSTE LIMITED
BHUBANESWAR, ODISHA

BHUBANESWAR

CHIEF AND REST GREENFORCE CARROLLINITED PRIVATE LIMITED BHUBANASWAR ODISHA

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ANNEXURE- 11A(Ground Water Quality Monitoring Report)



GREEN FORCE ASSOCIATES PRIVATE LIMITED

Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg, Baramunda, Bhubaneswar, Dist - Khurdha

Mail Id: greenforceassociates@gmail.com
(An ISO 14001, 9001, 45001 certified Consulting Organization & NABL Accredited Laboratory)

Report No- GFAPL/24-25/DIOM/062

Issued Date-06.08.2024

TEST REPORT

Client Name &Address	Dalpahar Iron & Mn Ore Mines of Sri. D.C. Jain, At/PO- Dalpahar, Dist- Keonjhar, Odisha				
Nature of Sampling	Ground Water				
Sampling By	GFAPL's Representative				
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO		
Discipline	Chemical	Group	Water		
Date of Sampling	22.07.2024	Date of Receiving	23.07.2024		
Date of Analysis	23.07.2024	Date of Complete	27.07.2024		
Sampling Location & Coordinates	GW3- Bore Well of Village Ja GW4- Bore Well of Village Jo				

Sl.	Parameter	Testing Methods	Unit	Standard as per IS: 10500, 2012		GW3	GW4
No.	: — /			AL	PL		
1	Odour	APHA 24th ED: 2150-B -2023		Agreeable	Agreeable	U/O	U/O
2	Taste	APHA 24th ED: 2160-B -2023		Agreeable	Agreeable	al	al
3	Nitrate	APHA 24th ED 4500-NO3-E: 2023	mg/l	45	NR	1.66	1.82
4	Cadmium (as Cd)	IS: 3025(Part 41)	mg/l	0.003	NR	< 0.001	< 0.001
5	Copper (as Cu)	IS: 3025(Part 42)	mg/l	0.05	1.5	< 0.02	<0.02
6	Zinc (as Zn)	APHA 24th ED 3500 Zn: 2023	mg/l	5	15	< 0.02	< 0.02
7	Lead (as Pb)	APHA 24th ED 3500 Pb: 2023	mg/l	0.01	NR	< 0.01	<0.01
8	Selenium (as Se)	APHA 24th ED 3500 B: 2023	mg/l	0.001	NR	< 0.001	< 0.001
9	Mercury (as Hg)	APHA 24th ED3500Hg: 2023	mg/l	0.001	NR	< 0.001	< 0.001
10	Vanadium	ICP-AS	mg/l			1.66	1.82

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Sl.	Parameter	neter Testing Methods	Unit	Standard as per IS: 10500, 2012		GW3	GW4
No.				AL	PL		
9	Total Alkalinity	APHA 24th ED 2320-B: 2023	mg/l	200	600	23	26
10	Residual Free Chlorine	APHA 24 th ED 4500 CL-B:2023	mg/l	0.2	1.0	<0.2	<0.2
11	Cyanide	APHA 24th ED 4500 CN-F:2023	mg/l	0.05	NR	<0.02	< 0.02
12	Total Chromium	APHA 24th ED 3500-Cr-B: 2023	mg/l	0.05	NR	<0.05	< 0.05
13	Iron	APHA 24th ED 3500-Fe-B: 2023	mg/l	0.3	NR	0.18	0.23
14	Sulfate	APHA 24th ED 4500-SO4 E: 2023	mg/l	200	400	5.1	4.4
15	Fluoride	APHA 24th ED 4500-F-C: 2023	mg/l	1.0	1.5	<0.05	< 0.05
16	Boron	APHA 24th ED 4500 B-B:2023	mg/l	0.5	1.0	<0.01	< 0.01
17	Manganese	IS 3025 PART-59 :2006 RA 2012	mg/l	0.1	0.3	<0.05	< 0.05
18	Sodium as Na	APHA 24th ED 3500- Na-B	mg/l		a	5.5	5
19	Potassium as K	APHA 24th ED 3500- K-B	mg/l	M,		0.5	0.5

REMARKS: NR- Not Relaxable; AL-Acceptable Limit; PL- Permissible Limit

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GREENFORCE ASSOCIA SEA PRIVATE LIMITED
BHUBANESWAR, ODISHA

Note:

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Mail Id: greenforceassociates@gmail.com

Report No- GFAPL/24-25/DIOM/062

Issued Date-06.08.2024

TEST REPORT

Client Name &Address	Dalpahar Iron & Mn Ore Mines of Sri. D.C. Jain, At/PO- Dalpahar, Dist- Keonihar, Odisha				
Nature of Sampling	Ground Water				
Sampling By	GFAPL's Representative				
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO		
Discipline	Chemical	Group	Water		
Date of Sampling	22.07.2024	Date of Receiving	23.07.2024		
Date of Analysis	23.07.2024	Date of Complete	27.07.2024		
Sampling Location & Coordinates	GW3- Bore Well of Village Jalha GW4- Bore Well of Village Joda	ri			

SI.	Parameter	Testing Methods	Unit	Standard as per IS: 10500, 2012		GW3	GW4
No.				AL	PL		
1	Colour	IS 3025: (Part 4)- 2021	Hazen	5	15	<5.0	<5.0
2	Turbidity	APHA 24th ED: 2130-B -2023	NTU	1	5	<1	<1
3	pH Value @25°C	APHA 24th ED 4500- H+B:2023	1	6.5-8.5	NR	7.02	6.84
4	Total Dissolved Solids(TDS)	APHA 24th ED: 2540-C: 2023	mg/l	500	2000	75	76
5	Chloride (as Cl)	APHA 24th Ed 4500- Cl-B:2023	mg/l	250	1000	9	8
6	Total Hardness	APHA 24th ED 2340-C: 2023	mg/l	200	600	30	32
7	Calcium	APHA 24th Ed 3500- Ca-B:2023	mg/l	75	200	7.6	8
8	Magnesium	APHA 24th ED 3500-Mg-B: 2023	mg/l	30	100	2.7	2.9

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SI.	Parameter	Testing Methods	Unit	Standard as per IS: 10500, 2012		GW1	GW2
No.				AL	AL	G,,,1	0,,2
11	Arsenic (as As)	IS: 3025 (Part 37)	mg/l	0.01	0.05	<0.001	< 0.001
12	Aluminum (as Al)	APHA 24th ED 3500Al : 2023	mg/l	0.03	0.2	<0.01	< 0.01
13	Mineral Oil	APHA 24th ED 5220 B: 2023	mg/l	0.5	NR	ND	ND
14	Anionic Detergents (as MBAS)	APHA 24th ED 5540 C : 2023	mg/l	0.2	1.0	ND	ND
15	Phenolic Compound (as C6H5OH)	APHA 24th ED 5530 B,D: 2023	mg/l	0.001	0.002	<0.001	<0.001
16	Total Coliforms	APHA 24th ED 9222-H: 2023	MPN/ 100ml	0.2	NR	<1.8	<1.8

REMARKS: NR- Not Relaxable; AL-Acceptable Limit; PL- Permissible Limit

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(An ISO 14001, 9001, 45001 certified Consulting Organization & NABL Accredited Laboratory)

Report No- GFAPL/24-25/DIOM/061

Issued Date-06.08.2024

TEST REPORT

Client Name &Address	Dalpahar Iron & Mn Ore Mines of Sri. D.C. Jain, At/PO- Dalpahar, Dist- Keonjhar, Odisha				
Nature of Sampling	Ground Water				
Sampling By	GFAPL's Representative				
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO		
Discipline	Chemical	Group	Water		
Date of Sampling	22.07.2024	Date of Receiving	23.07.2024		
Date of Analysis	23.07.2024	Date of Complete	27.07.2024		
Sampling Location & Coordinates	GW1: Bore Well of Village Dalpa GW2: Bore Well of Village Bichh	ihar Camp			

SI.	Parameter	Parameter Testing Methods	Unit	Standard as per IS: 10500, 2012		GW1	GW2
No.	4			AL	PL		
1	Odour	APHA 24th ED: 2150-B -2023		Agreeable	Agreeable	U/O	U/O
2	Taste	APHA 24th ED: 2160-B -2023		Agreeable	Agreeable	al	al
3	Nitrate	APHA 24th ED 4500-NO3-E : 2023	mg/l	45	NR	1.68	1.64
4	Cadmium (as Cd)	IS: 3025(Part 41)	mg/l	0.003	NR	<0.001	< 0.001
5	Copper (as Cu)	IS: 3025(Part 42)	mg/l	0.05	1.5	< 0.02	<0.02
6	Zinc (as Zn)	APHA 24th ED 3500 Zn: 2023	mg/l	5	15	<0.02	<0.02
7	Lead (as Pb)	APHA 24th ED 3500 Pb: 2023	mg/l	0.01	NR	< 0.01	<0.01
8	Selenium (as Se)	APHA 24th ED 3500 B: 2023	mg/l	0.001	NR	< 0.001	< 0.001
9	Mercury (as Hg)	APHA 24th ED3500Hg: 2023	mg/l	0.001	NR	< 0.001	< 0.001
10	Vanadium	ICP-AS	mg/l			1.68	1.64



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Mail Id: greenforceassociates@gmail.com

SI.	Parameter	Parameter Testing Methods	Unit	Standard as per IS: 10500, 2012		GW1	GW2
No.				AL	PL		
9	Total Alkalinity	APHA 24th ED 2320-B: 2023	mg/l	200	600	34	24
10	Residual Free Chlorine	APHA 24 th ED 4500 CL-B:2023	mg/l	0.2	1.0	<0.2	<0.2
11	Cyanide	APHA 24th ED 4500 CN-F:2023	mg/l	0.05	NR	<0.02	< 0.02
12	Total Chromium	APHA 24th ED 3500-Cr-B: 2023	mg/l	0.05	NR	<0.05	<0.05
13	Iron	APHA 24th ED 3500-Fe-B: 2023	mg/l	0.3	NR	0.21	0.2
14	Sulfate	APHA 24th ED 4500-SO4 E: 2023	mg/l	200	400	4.6	4.8
15	Fluoride	APHA 24th ED 4500-F-C: 2023	mg/l	1.0	1.5	<0.05	< 0.05
16	Boron	APHA 24th ED 4500 B-B:2023	mg/l	0.5	1.0	<0.01	< 0.01
17	Manganese	IS 3025 PART-59 :2006 RA 2012	mg/l	0.1	0.3	<0.05	< 0.05
18	Sodium as Na	APHA 24th ED 3500- Na-B	mg/l	1 -	4	6.2	7.4
19	Potassium as K	APHA 24th ED 3500- K-B	mg/l	-15	Sau-	0.6	0.7

REMARKS: NR- Not Relaxable; AL-Acceptable Limit; PL- Permissible Limit

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Report No- GFAPL/24-25/DIOM/061

Issued Date-06.08.2024

TEST REPORT

Client Name &Address	Dalpahar Iron & Mn Ore Mines of Sri. D.C. Jain, At/PO- Dalpahar, Dist- Keonihar, Odisha				
Nature of Sampling	Ground Water				
Sampling By	GFAPL's Representative				
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO		
Discipline	Chemical	Group	Water		
Date of Sampling	22.07.2024	Date of Receiving	23.07.2024		
Date of Analysis	23.07.2024	Date of Complete	27.07.2024		
Sampling Location & Coordinates	GW1: Bore Well of Village Dalpahar Camp GW2: Bore Well of Village Bichhakhundi				

SI.	Parameter	Parameter Testing Methods	Unit	Standard as per IS: 10500, 2012		GW1	GW2
No.				AL	PL		
1	Colour	IS 3025: (Part 4)- 2021	Hazen	5	15	<5.0	<5.0
2	Turbidity	APHA 24th ED: 2130-B -2023	NTU	1	5	<1	<1
3	pH Value @25°C	APHA 24th ED 4500- H+B:2023	-	6.5-8.5	NR	7.08	6.88
4	Total Dissolved Solids(TDS)	APHA 24th ED: 2540-C: 2023	mg/l	500	2000	94	78
5	Chloride (as Cl)	APHA 24th Ed 4500- Cl-B:2023	mg/l	250	1000	10	12
6	Total Hardness	APHA 24th ED 2340-C: 2023	mg/l	200	600	40	30
7	Calcium	APHA 24th Ed 3500- Ca-B:2023	mg/l	75	200	9.6	7.2
8	Magnesium	APHA 24th ED 3500-Mg-B: 2023	mg/l	30	100	3.9	2.9

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♀ Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg, Baramunda, Bhubaneswar, Dist - Khurdha

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SI.	Parameter	arameter Testing Methods	Unit	Standard as per IS: 10500, 2012		GW3	GW4
No.				AL	AL	3,13	
11	Arsenic (as As)	IS: 3025 (Part 37)	mg/l	0.01	0.05	<0.001	<0.001
12	Aluminum (as Al)	APHA 24th ED 3500Al : 2023	mg/l	0.03	0.2	<0.01	< 0.01
13	Mineral Oil	APHA 24th ED 5220 B: 2023	mg/l	0.5	NR	ND	ND
14	Anionic Detergents (as MBAS)	APHA 24th ED 5540 C : 2023	mg/l	0.2	1.0	ND	ND
15	Phenolic Compound (as C6H5OH)	APHA 24th ED 5530 B,D: 2023	mg/l	0.001	0.002	<0.001	<0.001
16	Total Coliforms	APHA 24th ED 9222-H: 2023	MPN/ 100ml	0.2	NR	<1.8	<1.8

REMARKS: NR- Not Relaxable; AL-Acceptable Limit; PL- Permissible Limit

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ANNEXURE- 12 (Discharged/run off water Quality Monitoring Report)



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Mail Id: greenforceassociates@gmail.com (An ISO 14001, 9001, 45001 certified Consulting Organization & NABL Accredited Laboratory)

Report No- GFAPL/24-25/DIOM/068

Issued Date-06.08.2024

TEST REPORT

Client Name &Address	Dalpahar Iron & Mn Ore Mines At/PO- Dalpahar, Dist- Keonjhar				
Nature of Sampling	Surface Runoff	Surface Runoff			
Sampling By	GFAPL's Representative				
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO		
Discipline	Chemical	Group	Water		
Date of Sampling	22.07.2024	Date of Receiving	23.07.2024		
Date of Analysis	23.07.2024	Date of Complete	27.07.2024		
Sampling Location & Coordinates	SR1 - Near Mines Office; SR2 - Near Crusher Plant;				

SI.	Parameter	Testing Methods	Unit	Standard as per IS-2296 Class-C	SR1	SR2
1.	Nitrate (as NO3)	APHA 24th ED 4500-NO3-E: 2023	mg/l	50	1.62	1.78
2.	Phenolic Compounds as C6H5OH	APHA 24th ED 5530 B,D:2023	mg/l	1 2 -	< 0.001	< 0.001
3.	Copper (as Cu)	IS: 3025(Part 42)	mg/l	0.05	< 0.03	< 0.03
4.	Lead (as Pb)	APHA 24th ED 3500 Pb: 2023	mg/l	0.01	< 0.01	< 0.01
5.	Zinc (as Zn)	APHA 24th ED 3500 Zn: 2023	mg/l	5	0.08	0.1
6.	Arsenic as As	IS: 3025 (Part 37)	mg/l	1	< 0.001	< 0.001
7.	Selenium (as Se)	APHA 24th ED 3500 B: 2023	mg/l	0.005	< 0.001	< 0.001
8.	Cadmium (as Cd)	IS: 3025(Part 41)	mg/l	0.003	< 0.001	< 0.001
9.	Total Coliform	APHA 24th ED 9222-H: 2023	MPN/ 100ml		570	510

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Mail·Id: greenforceassociates@gmail.com

Report No- GFAPL/24-25/DIOM/078

Issued Date-04.09.2024

TEST REPORT

Client Name &Address	Dalpahar Iron & Mn Ore Mines of Sri. D.C. Jain, At/PO- Dalpahar, Dist- Keonjhar, Odisha			
Nature of Sampling	Surface Runoff			
Sampling By	GFAPL's Representative			
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO	
Discipline	Chemical	Group	Water	
Date of Sampling	19.08.2024	Date of Receiving	20.08.2024	
Date of Analysis	20.08.2024	Date of Complete	26.08.2024	
Sampling Location & Coordinates	SR1 - Near Mines Office; SR2 - Near Crusher Plant;			

SI. No.	Parameter	Testing Methods	Unit	Standard as per IS-2296 Class-C	SR1	SR2
17.	Colour	IS 3025: (Part 4)- 2021	Hazen	300	70	100
18.	Turbidity	APHA 24th ED: 2130-B - 2023	NTU		14	18
19.	pH	APHA 24th ED 4500- H+B:2023		6.0-9.0	6.94	6.98
20.	Conductivity	APHA 24th ED 2510-B: 2023	μS/cm		150.4	166.9
21.	Total Dissolved Solid	APHA 24th ED 2540-C: 2023	mg/l	1500	90	100
22.	Total Suspended Solid	APHA 24th ED 2540-D: 2023	mg/l		42	50
23.	Chloride (as Cl)	APHA 24th Ed 4500- Cl-B:2023	mg/l	600	8	11
24.	Cyanide (as CN)	APHA 24th ED 4500-CN-F	mg/l	0.05	< 0.02	< 0.02
25.	Hexavalent Chromium(asCr+6)	APHA 24th ED 3500-Cr-B: 2023	mg/l	0.05	<0.05	<0.05
26.	Iron (as Fe)	APHA 24th ED 3500-Fe-B: 2023	mg/l	0.5	0.28	0.29
27.	Sulfate (as SO4)	APHA 24th ED 4500-SO4 D: 2023	mg/l	400	6.9	7.2
28.	Fluoride (as F)	APHA 24th ED 4500-F-C: 2023	mg/l	1.5	< 0.05	< 0.05
29.	Oil & Grease	IS 3025 PART 39-1991 RA-2003	mg/l	Company and in	<2.0	<2.0
30.	Dissolved oxygen	APHA 24th ED 4500 O-C:2023	mg/l	4	6.4	6.4
31.	BOD (3) days at 27°C	IS 3025 (PART 44): 1993 REA-2009		3.0	<2.0	<2.0
32.	Chemical Oxygen Demand as COD	APHA 24th ED 5220 C:2023	mg/l		7.6	8.2

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Mail Id: greenforceassociates@gmail.com

(An ISO 14001, 9001, 45001 certified Consulting Organization & NABL Accredited Laboratory)

Report No- GFAPL/24-25/DIOM/078

Issued Date-04.09.2024

TEST REPORT

Client Name &Address	Dalpahar Iron & Mn Ore Mines of Sri. D.C. Jain, At/PO- Dalpahar, Dist- Keonjhar, Odisha			
Nature of Sampling	Surface Runoff			
Sampling By	GFAPL's Representative			
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO	
Discipline	Chemical	Group	Water	
Date of Sampling	19.08.2024	Date of Receiving	20.08.2024	
Date of Analysis	20.08.2024	Date of Complete	26.08.2024	
Sampling Location & Coordinates	SR1 - Near Mines Office; SR2 - Near Crusher Plant;	7		

Sl. No.	Parameter	Testing Methods	Unit	Standard as per IS-2296 Class-C	SR1	SR2
1.	Nitrate (as NO3)	APHA 24th ED 4500-NO3-E: 2023	mg/l	50	1.54	1.62
2.	Phenolic Compounds as C6H5OH	APHA 24th ED 5530 B,D:2023	mg/l		<0.001	<0.001
3.	Copper (as Cu)	IS: 3025(Part 42)	mg/l	0.05	< 0.03	< 0.03
4.	Lead (as Pb)	APHA 24th ED 3500 Pb: 2023	mg/l	0.01	< 0.01	< 0.01
5.	Zinc (as Zn)	APHA 24th ED 3500 Zn: 2023	mg/l	5	0.07	0.08
6.	Arsenic as As	IS: 3025 (Part 37)	mg/l		< 0.001	< 0.001
7.	Selenium (as Se)	APHA 24th ED 3500 B: 2023	mg/l	0.005	< 0.001	< 0.001
8.	Cadmium (as Cd)	IS: 3025(Part 41)	mg/l	0.003	< 0.001	< 0.001
9.	Total Coliform	APHA 24th ED 9222-H: 2023	MPN/ 100ml		900	900

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오 Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg, Baramunda, Bhubaneswar, Dist - Khurdha





Report No- GFAPL/24-25/DIOM/090

Issued Date- 04.10.2024

TEST REPORT

Client Name &Address	Dalpahar Iron & Mn Ore Mines of Sri. D.C. Jain, At/PO- Dalpahar, Dist- Keonihar, Odisha					
Nature of Sampling	Surface Runoff					
Sampling By	GFAPL's Representative					
Environmental Condition	Good	Sampling Method	As per APHA 24th ED 1060 B: 2023			
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO			
Discipline	Chemical	Group	Water			
Date of Sampling	23.09.2024	Date of Receiving	24.09.2024			
Date of Analysis	24.09.2024	Date of Complete	28.09.2024			
Sampling Location & Coordinates	SR1 - Near Mines Office; SR2 - Near Crusher Plant;					

Sl. No.	Parameter	Testing Methods	Unit	Standard as per IS-2296 Class-C	SR1	SR2
33.	Colour	IS 3025: (Part 4)- 2021	Hazen	300	100	120
34.	Turbidity	APHA 24th ED: 2130-B - 2023	NTU		18	20
35.	pH	APHA 24th ED 4500- H+B:2023		6.0-9.0	7.08	7.1
36.	Conductivity	APHA 24th ED 2510-B: 2023	μS/cm		160.4	171.2
37.	Total Dissolved Solid	APHA 24th ED 2540-C: 2023	mg/l	1500	96	102
38.	Total Suspended Solid	APHA 24th ED 2540-D: 2023	mg/l		60	58
39.	Chloride (as Cl)	APHA 24th Ed 4500- Cl-B:2023	mg/l	600	10	11
40.	Cyanide (as CN)	APHA 24th ED 4500-CN-F	mg/l	0.05	< 0.02	< 0.02
41.	Hexavalent Chromium(asCr+6)	APHA 24 th ED 3500-Cr-B: 2023	mg/l	0.05	<0.05	<0.05
42.	Iron (as Fe)	APHA 24th ED 3500-Fe-B: 2023	mg/l	0.5	0.27	0.26
43.	Sulfate (as SO4)	APHA 24th ED 4500-SO4 D: 2023	mg/l	400	6.5	6.8
44.	Fluoride (as F)	APHA 24th ED 4500-F-C: 2023	mg/l	1.5	< 0.05	< 0.05
45.	Oil & Grease	IS 3025 PART 39-1991 RA-2003	mg/l	11100 11	<2.0	<2.0
46.	Dissolved oxygen	APHA 24th ED 4500 O-C:2023	mg/l	4	6.5	6.4
47.	BOD (3) days at 27°C	IS 3025 (PART 44): 1993 REA-2009		3.0	<2.0	<2.0
48.	Chemical Oxygen Demand as COD	APHA 24th ED 5220 C:2023	mg/l	27	7.2	9.2

Reviewed By

NALYST

ANALYSES PRIVATE LIMITED

Authorized Signatory

TECHNICAL MANAGER CREENFORCE PERMITTED BHUBANG SUKRPODICHA

GREENFORGES ASSOCIATES PRIVATE BHUBANESWAR ODISHA Note:

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GREEN FORCE ASSOCIATES PRIVATE LIMITED

Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg, Baramunda, Bhubaneswar, Dist - Khurdha

Mail Id: greenforceassociates@gmail.com

(An ISO 14001, 9001, 45001 certified Consulting Organization & NABL Accredited Laboratory)

Report No- GFAPL/24-25/DIOM/090

Issued Date- 04.10.2024

TEST REPORT

Client Name & Address	Dalpahar Iron & Mn Ore Mines of Sri. D.C. Jain, At/PO- Dalpahar, Dist- Keonjhar, Odisha			
Nature of Sampling	Surface Runoff			
Sampling By	GFAPL's Representative			
Environmental Condition	Good	Sampling Method	As per APHA 24th ED 1060 B: 2023	
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO	
Discipline	Chemical	Group	Water	
Date of Sampling	23.09.2024	Date of Receiving	24.09.2024	
Date of Analysis	24.09.2024	Date of Complete	28.09.2024	
Sampling Location & Coordinates	SR1 - Near Mines Office; SR2 - Near Crusher Plant;		¥	

Sl. No.	Parameter	Testing Methods	Unit	Standard as per IS-2296 Class-C	SR1	SR2
1.	Nitrate (as NO3)	APHA 24th ED 4500-NO3-E: 2023	mg/l	50	1.58	1.54
2.	Phenolic Compounds as C6H5OH	APHA 24th ED 5530 B,D:2023	mg/l	-	<0.001	< 0.001
3.	Copper (as Cu)	IS: 3025(Part 42)	mg/l	0.05	< 0.03	< 0.03
4.	Lead (as Pb)	APHA 24th ED 3500 Pb: 2023	mg/l	0.01	< 0.01	< 0.01
5.	Zinc (as Zn)	APHA 24th ED 3500 Zn: 2023	mg/l	5	0.06	0.08
6.	Arsenic as As	IS: 3025 (Part 37)	mg/l		< 0.001	< 0.001
7.	Selenium (as Se)	APHA 24th ED 3500 B: 2023	mg/l	0.005	< 0.001	< 0.001
8.	Cadmium (as Cd)	IS: 3025(Part 41)	mg/l	0.003	< 0.001	< 0.001
9.	Total Coliform	APHA 24th ED 9222-H: 2023	MPN/ 100ml	DO	900	900

Reviewed By

Authorized Signatory

PHATE LIMITED

CHLENANALYST

GREENFORCE 36500184E@PRIVATE LIMITED

BHUBANESWAR, ODISHA

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👤 Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg, Baramunda, Bhubaneswar, Dist - Khurdha

Mail Id: greenforceassociates@gmail.com

Report No- GFAPL/24-25/DIOM/068

Issued Date-06.08.2024

TEST REPORT

Client Name &Address	Dalpahar Iron & Mn Ore Mines of Sri. D.C. Jain, At/PO- Dalpahar, Dist- Keonjhar, Odisha				
Nature of Sampling	Surface Runoff	1000			
Sampling By	GFAPL's Representative				
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO		
Discipline	Chemical	Group	Water		
Date of Sampling	22.07.2024	Date of Receiving	23.07.2024		
Date of Analysis	23.07.2024	Date of Complete	27.07.2024		
Sampling Location & Coordinates	SR1 - Near Mines Office; SR2 - Near Crusher Plant;				

Sl. No.	Parameter	Testing Methods	Unit	Standard as per IS-2296 Class-C	SR1	SR2
1.	Colour	IS 3025: (Part 4)- 2021	Hazen	300	50	70
2.	Turbidity	APHA 24th ED: 2130-B - 2023	NTU	The second secon	10	16
3.	pH	APHA 24th ED 4500- H+B:2023		6.0-9.0	6.87	6.92
4.	Conductivity	APHA 24th ED 2510-B: 2023	μS/cm		153.2	160.4
5.	Total Dissolved Solid	APHA 24th ED 2540-C: 2023	mg/l	1500	92	98
6.	Total Suspended Solid	APHA 24th ED 2540-D: 2023	mg/l		68	72
7.	Chloride (as Cl)	APHA 24th Ed 4500- Cl-B:2023	mg/l	600	9	10
8.	Cyanide (as CN)	APHA 24th ED 4500-CN-F	mg/l	0.05	< 0.02	< 0.02
9.	Hexavalent Chromium(asCr+6)	APHA 24 th ED 3500-Cr-B: 2023	mg/l	0.05	<0.05	<0.05
10.	Iron (as Fe)	APHA 24th ED 3500-Fe-B: 2023	mg/l	0.5	0.32	0.3
11.	Sulfate (as SO4)	APHA 24th ED 4500-SO4 D: 2023	mg/l	400	7.2	7.6
12.	Fluoride (as F)	APHA 24th ED 4500-F-C: 2023	mg/l	1.5	< 0.05	< 0.05
13.	Oil & Grease	IS 3025 PART 39-1991 RA-2003	mg/l		<2.0	<2.0
14.	Dissolved oxygen	APHA 24th ED 4500 O-C:2023	mg/l	4	6.5	6.3
15.	BOD (3) days at 27°C	IS 3025 (PART 44): 1993 REA-2009	mg/l	3.0	<2.0	<2.0
16.	Chemical Oxygen Demand as COD	APHA 24th ED 5220 C:2023	mg/l		8	8

Verified By

Authorized By

CHIEF ADALYST
GREENFORCE ASSESSMENT PRIVATE LIMITED BHNRS NATH Sahoo ISHA

TECHNICAD MANAGER GREENFORCETASING CHANGE LIMITED BHUBANESWATP OF BISHA

Note:

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ANNEXURE- 13 (Ambient Noise Quality Monitoring Report)



GREEN FORCE ASSOCIATES PR





💡 Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg, Baramunda, Bhubaneswar, Dist - Khurdha

Mail Id: greenforceassociates@gmail.com



Report No- GFAPL/24-25/DIOM/088

Issued Date-04.10.2024

TEST REPORT

Client Name &Address	Dalpahar Iron & Mn Ore Mines of Sri. D.C. Jain, At/PO- Dalpahar, Dist- Keonjhar, Odisha				
Nature of Sampling	Workzone Noise M	Ionitoring			
Sampling By	GFAPL's Represer	GFAPL's Representative			
Location of performance of Laboratory activities	Site Facility	Deviation from the method (if any)	NO		
Discipline	Chemical	Group	Atmospheric Pollution		
Environmental Condition	Good	Time Integration	1 second		
Time Weighing	Fast	Frequency Weighing	A- Weighing		
Sampling Duration	24 hrs	Area categorization	Industrial Area		
Date of Sampling	23.09.2024	Date of Completion	24.09.2024		
Instrument Used	Noise Meter	Sampling Method	As per IS: 9989		

CL N		Day Time	Night Time	
SI. No.	Sampling Locations	Results i	lts in dB(A)	
1.	Mine area;	61.6	53.2	
2.	Dalpahar camp;	62.8	56.8	
	Noise permissible limits as per CPCB N	orms in dB(A) Leq		
	Category of Area	Day Time	Night Time	
Industri	al Area	75	70	
Commer	cial Area	65	55	
Resident	ial Area	55	45	
Sensitive	Area/ Silence Zone	50	40	

Reviewed By

CHIEF CINALYST
GREENFORCE CASSOCIATION PRIVATE LIMITED
BRIGHT ANGENT AND DISHA

Authorized Signatory

TECHNICAL MANAGER
GREENFORCE ASSOCIATES PRIVATE LIMITED
BHURSHINEWAR 19815HA

Mr. S.K. Parhi

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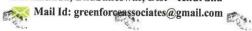






♀ Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg, Baramunda, Bhubaneswar, Dist - Khurdha







Report No- GFAPL/24-25/DIOM/089

Issued Date-04.10,2024

TEST REPORT

Client Name & Address		Dalpahar Iron & Mn Ore Mines of Sri. D.C. Jain, At/PO- Dalpahar, Dist- Keonihar, Odisha			
Nature of Sampling	Ambient Noise Mo	nitoring			
Sampling By	GFAPL's Represe	ntative			
Location of performance of Laboratory activities	Site Facility	Deviation from the method (if any)	NO		
Discipline	Chemical	Group	Atmospheric Pollution		
Environmental Condition	Good	Time Integration	1 second		
Time Weighing	Fast	Frequency Weighing	A- Weighing		
Sampling Duration	24 hrs	Area categorization	Residential Area		
Date of Sampling	23.09.2024	Date of Completion	24.09.2024		
Instrument Used	Noise Meter	Sampling Method	As per IS: 9989		

CL M		Day Time	Night Time
Sl. No.	Sampling Locations	Results	in dB(A)
1.	Village Bichhakhundi;	48.6	38.1
2.	Village Dalpahar;	48.2	38.3
	Noise permissible limits as per CP	CB Norms in dB(A) Leq	
Category	y of Area	Day Time	Night Time
Industrial	l Area	75	70
Commerc	cial Area	65	55
Resident	ial Area	55	45
Sensitive Area/ Silence Zone		50	40

Reviewed By

Authorized Signatory

GREENFORCE CASE PANATES PRIVATE LIMITED BHMBANKSHVSAL QDISHA

TECHNICAS MANAGER
GREENFORCE TECHNICAS MANAGER BHUBANESWAR, PODISHA

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ANNEXURE-14 (Wildlife conservation plan Approval)



OFFICE OF THE DIVISIONAL FOREST OFFICER, KEONJHAR DIVISION Phone No- 06766-254315, email ID- dfokjr.od@gov.in

No. 299 / 6F-Mining-57/2020 Dated, Keonjhar the 03rdAugust, 2023

To

Sri Avin Jain, Power of Attorney Holder, Dalpahar Iron & Mananganese Mines of D.C. Jain, Dharam Villa, 12-A, Mahatma Gandhi Marg, Ring road, Lajpat Nagar-IV, New Delhi-110024.

Sub:

Revision of Site Specific Wildlife Conservation Plan in respect of Dalpahar Iron & Manganese Mines of D.C. Jain.

Ref:

Memo No. 9070/WL dated 27.11.2014 of Principal Chief Conservator of Forests

(WL) & CWLW, Odisha, Bhubaneswar.

This office letter No. 8804 dated 29.12.2014.

Sir,

With reference to the letters cited above on the captioned subject, this is to intimate that, you were requested to deposit the approved cost i.e. 185.520 lakh (for activities to be implemented by DFO, Keonjhar Division in the project impact area) towards the Site Specific Wildlife Conservation Plan in respect of your Dalpahar Iron & Manganese Mines of D.C. Jain But, after lapses of 9 years you have not deposited the same in the Orissa CAMPA Account.

Now the Govt. of Odisha in Steel & Mines Department has extended the validity period of mining lease over 89.961 ha in Block-A vide his letter No.3957/SM dated 28.04.2022 up to 08.06.2036 and mining lease deed has been executed with the Collector, Keonjhar over 89.961 ha (in Block-A) of Dalpahar Iron & Manganese Mines of D.C. Jain.

In view of the above, the Site Specific Wildlife Conservation Plan in respect of the above mining lease will be revisited as per current wage rate & current wildlife scenario as per existing guideline issued by the Principal Chief Conservator of Forests (WL) & CWLW, Odisha, Bhubaneswar. So afresh Site Specific Wildlife Conservation Plan over 89.961 ha is to be prepared.

This is for your information and necessary action.

Divisiona Forest Officer, Keonihar Division.

Memo No. 8992 / Dated. 03-08-2023

Copy submitted to the Regional Chief Conservator of Forests, Rourkela Circle, Rourkela / Principal Chief Conservator of Forests, FD&NO, FC Act, O/o the PCCF, Odisha, Bhubaneswar / Principal Chief Conservator of Forests (WL) & CWLW, Odisha, Bhubaneswar for favour of kind information.

Divisional Derest Officer

ANNEXURE- 15 (PPEs Distribution report for the year 2024-25)

	Details of Personal protective Equipment (PPEs) Distribution					
	For the Period March 2024 to September 2024					
	Dalpahar Iron &	Manganese I	Mines of Sri D.C	. Jain		
SI.No.	Item(PPEs)	Qty	Unit	Remarks		
1	Helmet White	5	Nos			
2	Helmet Yellow	25	Nos			
3	Helmet Blue	5	Nos			
4	Reflective Jacket	37	Nos			
5	Reflective Jacket Belt Type	15	Nos	To workers and Executives of		
6	Safety Shoes Leather	35	PAA	Mines.		
7	Nose Mask	65	Nos			
8	Ear Plug	23	Nos			
9	Rain Coat	79	Nos			

<u>ANNEXURE- 16 (</u>Yearly Environmental Expenses)

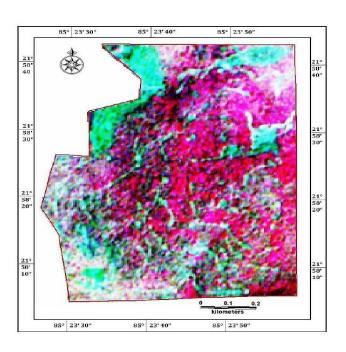
SI. No	DESCRIPTION	From 19.08.2021 To 2023-2024 (in Rs./Lakhs)	2024-2025 (Apr 2024-Sep 2024) (in Rs./Lakhs)
Environn	nental Monitoring Parameter Testing charges		
1	AAQ, Ground Water, Surface Water, STP, ETP, Soil Test, Fugitive Test, etc.	3.96	6.56
	Dump Stabilization & P	lantation	
2	Plantation, dump stabilization by coir matting	0.26	1.65
	Dust Suppressio	n	
3	Mobile water Sprinkler Tanker maintenance	12.00	1.66
4	Dry fog system for crusher and screen	2.50	0.45
	Environmental Instruments and its ma	intenance & calibrat	ion
5	Instruments, etc.(Display Board)	5.48	1.36
6	ETP and its maintenance(Wheel wash system)	2.0	6.84
	Miscellaneous Expe	enses	
7	Occupational Health & Hygiene monitoring	0	0.33
8	Others (EIA/EMP Studies like:-Traffic study ,socio-economic study, Hydrology study, etc.) & blasting vibration studies	25.57	8.66
9	Website Development	0.50	0.25
10	Solar Panels construction office campus	12.91	0.50
	Total	65.18	28.26

Statutory Expenses incurred in EMP since 2021 till date

Type of Statutory Expenses	Expenses in lakhs
Ground water drawal Charges	0.69
Consent to Operate (CTO) application	28.98
Wildlife Management plan Expenses	579.30
Tree felling Expenses	179.40
Enhanced Ground water NOC Application	1.47
Total	789.84
	Ground water drawal Charges Consent to Operate (CTO) application Wildlife Management plan Expenses Tree felling Expenses Enhanced Ground water NOC Application

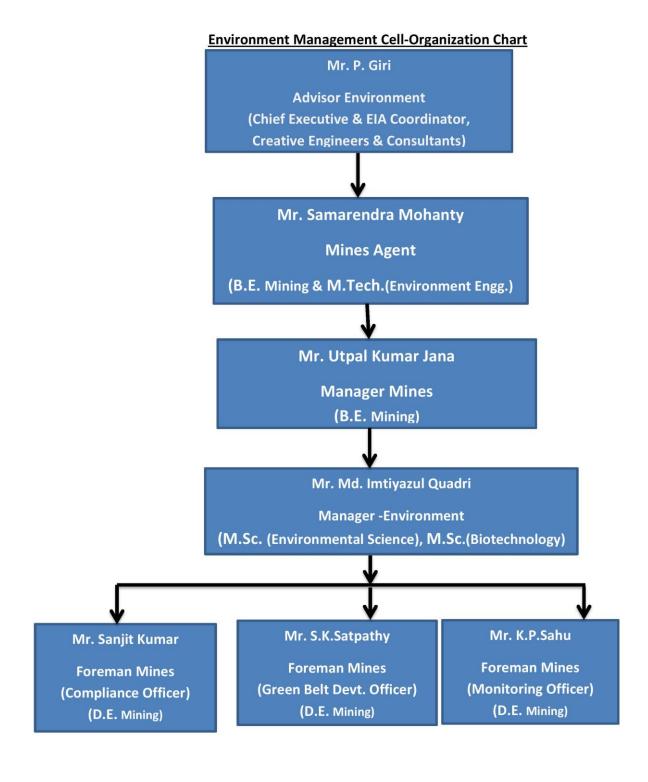
ANNEXURE- 17 (Digital Processing Report of ML for the year 2024)

LANDUSE/ LAND COVER (LULC) STUDY USING REMOTE SENSING SATELLITE DATA AROUND 10 KM BUFFER AREA OF DALPAHAR IRON AND MANGANESE ORE MINING LEASE (89.961 HA) OF BARBIL TEHSIL, KEONJHAR DISTRICT, ODISHA



Prepared by Geosensing Information Pvt. Ltd, Chennai

ANNEXURE-18 (Environment Management Cell Structure)



ANNEXURE- 19 (Budgetary Estimate for the various socio-economic developments)

5.9 Summary of ESC cost

The cost estimated for infrastructure, Health and Education, Livelihood program, Employment program and Special programs/ Sustainable Growth has been summarized in the table below:

Table 5.14 Summary of ESC cost

Sl. No.	Item	Total Amount (In Rs. Lakhs)
1	Infrastructure Development	1,11,45,000.00
2	Health infrastructure & services	20,00,000.00
3	Education infrastructure & support	10,00000.00
4	Sustainable Livelihood	17,40,000.00
5	Vocational Training	26,50,000.00
6	Special Program	16,00,000.00
	Total	2,01,35,000.00

Total Amount is Rs 2,01,35,000.00 (Rupees Two Crore One Lakhs Thirty Five Thousand only)

ANNEXURE-20 (106 (2) (b) Permission from DGMS for Blasting operation)



भारत सरकार Govt. of India श्रम एटां रोजगार मंत्रागर Ministry of Labour & Employment रवान सुरक्षा महानिदेशागरा Directorate-General of Mines Safety



NO: 33251504|SEZ|Bhubaneshwar Region 1|Perm|2024|263567

Date: @@Date

प्रेषक

खान सुरक्षा निदेशक,

भुवनेश्वर क्षेत्र-।।

सेवा में.

अभिकर्ता, Dalpahar Iron and Manganese Mine,

Sri Dharam Chand Jain,

पी.ओ.: जोरुरी, जोडा,

ज़िला: केओंझर, ओडिशा-758035.

বিষয়: Relaxation under Regulation 106(2)(b) of the Metalliferous Mines Regulations, 1961 to deploy Heavy Earth Moving Machineries in conjunction with deep hole blasting at Dalpahar Iron and Manganese Mine of Sri Dharam Chand Jain

महोदय,

कृपया उपर्युक्त विषय पर अपना ऑनलाइन आवेदन आईडी No. 263567दिनांक 04.03.2024 और ऑफ़लाइन जमा की गई Plan और Section देखें।

इस मामले पर आपके आवेदन और संलग्न plans/sections और अन्य संलग्नकों में दी गई जानकारी के आधार पर विचार किया गया है।

In exercise of the powers conferred on the Chief Inspector of Mines (also designated as Director-General of Mines Safety) under the provisions of Regulations 106(2)(b) of the Metalliferous Mines Regulations, 1961 and by virtue of authorisation granted to me by the Chief Inspector of Mines (also designated as Director-General of Mines Safety) under Section 6(1) of the Mines Act, 1952, I, hereby permit you to work for extraction of Iron and Manganese ore by deployment of Heavy Earth Moving Machineries (HEMMs) in the area demarcated as X1,X2,X3,X4,...X19 & close at X1 as shown in blue colour and in conjunction with deep hole blasting in the area demarcated as a1,a2,a3,...a10 & close at a1(Block-I); b1,b2,b3....b5 & close at b1(Block-II); c1,c2,c3... c5 & close at c1(Block-III); d1,d2,d3,d4 & close at d1 (Block-IV) and e1, e2, e3, e4 & close at e1(Block-V) shown in violet colour as shown on the surface plan No.

Table-1 Showing AAQ Monitoring locations as per direction of SPCB:

SI.No.	Monitoring Locations	Zone of Monitoring
1	Mines Area Site Office (AAQ-01) (Mines Exit Gate)	Core Zone
2	Bichakundi Village (AAQ-02)	Buffer Zone
3	Khandbandh Village (AAQ-03)	Buffer Zone
4	Jalahari Village (AAQ-04)	Buffer Zone
5	Patabeda Village (AAQ-05)	Buffer Zone
6	Dalpahar Village (AAQ-06) Buffer Zone	

Table-2 Showing detail of proposed surface run off management structures for construction:

SI. No	Particulars	Location	Dimensions in M
1	Retaining Wall	Between Lease Pillar No.16 & 17	200.0 X 1.0 X 1.0
	(L x W x H) in M	Dump side	
2	Retaining Wall	Between Lease Pillar No.12	260.0 X 1.0 X 1.0
	(L x W x H) in M	Dump side	
3	Retaining Wall (RCC)	Between Lease Pillar No.04 & 05	440.0 X 1.0 X 1.0
	(L x W x H) in M	Dump side	
4	Garland drain	Between Lease Pillar No.16 & 17	200.0 X 1.0 X 1.0
	(L x W x H) in M	Dump side	
5	Garland drain	Between Lease Pillar No.12	260.0 X 1.0 X 1.0
	(L x W x H) in M	Dump side	
6	Garland drain	Between Lease Pillar No.4 & 5	570.0 X 1.0 X 1.0
	(L x W x H) in M	Dump side	
7	Settling Pit (in CUM)-1	Near Lease Pillar No.17	6.0 x 5.5 x 2.0
8	Settling Pit (in CUM)-2	Near Lease Pillar No.12	10.0 x 5.0 x 2.0
9	Settling Pit (in CUM)-3	Near Lease Pillar No.05	6.0 x 5.5 x 2.0

Table-3 Showing compliance to the Public Hearing committment

	COMMITMENT OF THE				
SI No.	ISSUE RAISED BY PUBLIC	PROJECT PROPONENENT	COMPLIANCE STATUS		
1	Plantation	He committed to plant trees in the ratio of 1:2 in the mined out area and the affected areas and nearby villages with consulting with the villagers according to their demand.	Mines has started its operation in March-2024. During the monsoon season we have done plantation on mines and both the road side villages as per approved mining plan FY 202324.		
2	Drinking water, Health care & Education	He also committed that the company will take steps for providing health services , Education facilities and provision of drinking water to the local villages.	Though the mines has started its operation in March-2024,Project has started the work in this regard for providing drinking water,health kits and education for nearby villages.		
3	Road	He will take steps for repair and maintenance of the connecting roads.	Connecting roads are being regularly being maintained with motor grader and damages are repaired time to time.		
4	Peripheral Development works	He also informed that peripheral developenent works will also be undertaken after operation of mines.	Mines have started its operation in March-2024. The peripheral work as committed will be undertaken accordingly.		

Table-4

EC Compliance submission Details			
SI. No.	Period	Date of Submission	
1.	April 2023 to September 2023	24.11.2023	