सत्यमेव जयते

File No.: J-11015/348/2005-IA.II (M)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division
****

Dated **25/06/2025**

To,

Shri Rajesh Gupta
M/s LLOYDS METALS AND ENERGY LIMITED
Lloyds Metals & Energy Limited, A2, 2nd Floor, Madhu Estate, Pandurang Budhkar Marg, Lower Parel, Mumbai , MUMBAI, MAHARASHTRA, , 400013
surjagarhmine@lloyds.in

Subject: **Expansion of Iron Ore production capacity from 10 to 26 MTPA Hematite, 45 MTPA BHQ (Banded Hematite Quartzite), 5 MTPA waste (Total Excavation 60.0 MTPA) along with crushing and screening plant (Primary crushing plants -3 x 3000 TPH Gyratory crusher, 1 x700 TPH Jaw crusher, 1 x 350 TPH Jaw crusher, 5 x 250 TPH Jaw crusher, Secondary crushing plants: 12 x 625 TPH Cone crusher, 1 x700 TPH Cone crusher, 1 x 350 TPH Cone crusher, 5 x 250 TPH cone crusher, Screening plants : 12x 625 TPH Screen plant, 5 x 900 TPH Screen plant, 3 x 400 TPH Screen plant, 2 x 250 TPH Screen plant) in the Surjagarh Iron Ore Mine lease area of 348.09 Ha. by M/s. Lloyds Metals & Energy Ltd located near village Surjagarh, Tehsil Etapali, District Gadchiroli, Maharashtra – For Environmental Clearance reg.**

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/MH/MIN/523257/2025 dated 10/02/2025 for grant of prior Environmental Clearance (EC) to the project under the provision of the EIA Notification 2006-and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC25A0000MH5770697N
(ii) File No.	J-11015/348/2005-IA.II (M)
(iii) Clearance Type	Fresh EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	1(a) Mining of minerals
(vi) Sector	Non-Coal Mining
(vii) Name of Project	Expansion of Iron Ore production capacity from 10 MTPA to 26 MTPA Hematite, 45 MTPA BHQ (Banded Hematite Quartzite), 5 MTPA Waste

	(Total Excavation: 60.0 MTPA) along with crushing and screening plant at Surjagarh Iron Ore Mine lease area of 348.09 Ha., located near Village Surjagarh, Tehsil Etapali, District Gadchiroli, Maharashtra of M/s. Lloyds Metals & Energy Ltd.
(ix) Location of Project (District, State)	GADCHIROLI, MAHARASHTRA
(x) Issuing Authority	MoEF&CC
(xii) Applicability of General Conditions	No

3. In view of the particulars given in the Para 1 above, the project proposal interalia including Form-2(Part A, B and C)/ EIA & EMP Reports were submitted to the MoEF&CC for an appraisal by the EAC under the provision of EIA notification 2006 and its subsequent amendments.

4. The above-mentioned proposal has been considered by EAC in the 44th EAC meeting held during 15-16 May 2025. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed from the PARIVESH portal by scanning the QR Code above.

5. The EAC, in its 44th EAC meeting held during 15-16 May 2025, based on information submitted viz: Form 1 (Part A, B and C), EIA/EMP report etc & clarifications provided by the project proponent and after detailed deliberations on all technical aspects and public hearing issues and compliance thereto furnished by the Project Proponent, recommended the proposal for grant of Environment Clearance under the provision of EIA Notification, 2006 and as amended thereof subject to stipulation of Specific and Standard EC conditions as detailed in Annexure (1). The details of the project and observations and recommendations of the EAC are given at Annexure (2).

6. The MoEF&CC has examined the proposal in accordance with the provisions contained in the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and based on the recommendations of the EAC hereby accords Environment Clearance for expansion of Iron Ore production capacity from 10 to 26 MTPA Hematite, 45 MTPA BHQ (Banded Hematite Quartzite), 5 MTPA waste (Total Excavation 60.0 MTPA) along with crushing and screening plant (Primary crushing plants -3 x 3000 TPH Gyratory crusher, 1 x700 TPH Jaw crusher, 1 x 350 TPH Jaw crusher, 5 x 250 TPH Jaw crusher, Secondary crushing plants: 12 x 625 TPH Cone crusher, 1 x700 TPH Cone crusher, 1 x 350 TPH Cone crusher, 5 x 250 TPH cone crusher, Screening plants : 12x 625 TPH Screen plant, 5 x 900 TPH Screen plant, 3 x 400 TPH Screen plant, 2 x 250 TPH Screen plant) in the Surjagarh Iron Ore Mine lease area of 348.09 Ha by M/s. Lloyds Metals & Energy Ltd located near village Surjagarh, Tehsil Etapali, District Gadchiroli, Maharashtra under the provisions of EIA Notification, 2006 and as amended thereof subject to compliance of the Specific and Standard EC conditions as given in Annexure (1).

7. The Ministry reserves the right to stipulate additional conditions, if found necessary.

8. The Environmental Clearance to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.

9. The PP is under obligation to implement commitments made in the Environment Management Plan, which forms part of this EC.

10. General Instructions:

a. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC website where it is displayed.

b. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn must display the same for 30 days from the date of receipt.

c. The project proponent shall have a well laid down environmental policy duly approved by the Board of Directors (in case of Company) or competent authority, duly prescribing standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions.

d. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the project proponent (during construction phase) and authorized entity mandated with compliance of conditions (during operational phase) shall be prepared. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Six monthly progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.

e. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.

f. The Regional Office of this MoEF&CC shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.

g. Any appeal against this EC 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.

11. This issue with an approval of the Competent Authority.

Copy To

i. **The Secretary,** Ministry of Mines, Government of India, Shastri Bhawan, New Delhi.
ii. **The Secretary,** Department of Environment, Government of Maharashtra, Secretariat, Madam Cama Road, Hutatma Rajguru Chowk, Nariman Point, Mumbai-400032, Maharashtra.
iii. **The Secretary,** Directorate of Geology and Mining, Government of Maharashtra Khanij Bhawan, Plot No.27, Shivaji Nagar, Cement Road, Nagpur - 440 010.
iv. **The Secretary,** Department of Forests, Government of Maharashtra, M.S.Nagpur, Van Bhavan Ramgiri Road Civil Lines, Nagpur - 440 001.
v. **The Chief Wildlife Warden,** New Administrative Building (Vanbhavan), 2nd Floor,Zero Mile, Near Govt. Press, Civil Lines, Nagpur - 440 001.
vi. **The Chairman,** Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex East Arjun Nagar, New Delhi - 110 032.
vii. **The Deputy Director General of Forests (C),** Ministry of Environment, Forest and Climate Change, Regional Office, Ground Floor, East Wing, New Secretariat Building, Civil Lines, Nagpur- 440 001.
viii. **The Chairman,** Maharashtra State Pollution Control Board, Kalpataru Point, 3rd and 4th floor, Opp. PVR Cinema, Sion Circle, Mumbai-400 022.
ix. **The Controller General,** Indian Bureau of Mines, Indira Bhavan, Civil Lines, Nagpur-440001.
x. **The Director General**, Directorate General of Mines Safety, Hirapur, Dhanbad, Jharkhand- 826001.
xi. **The Member Secretary,** Central Ground Water Board, Ministry of Agriculture and Irrigation, 12/1 Jam Nagar House, Shahjahan road, New Delhi 110011.
xii. **The District Collector,** Gadchirolli District, Govt. of Maharashtra.
xiii. **Guard File.**
xiv. **PARIVESH Portal.**

Specific EC Conditions for (Mining Of Minerals)

1. Specific Conditions

S. No	EC Conditions
1.1	The Environmental Clearance (EC) shall remain valid for a period of 30 years from the date of issue.
1.2	The instant Environmental Clearance is for the total excavation of 60 MTPA. PP will do the mining in consonance with the Mining Plan approved by Indian Bureau of Mines considering 2025-26 of mine plan as 1st year [ROM ore – 40115279.00 tonnes, Waste Quantity – 4996242.00 tonnes and Total Handling – 45111521.00 tonnes). After the completion of OLBC, the PP can mine with the full capacity of 60 MTPA maximum [comprising 26 MTPA of hematite (maximum) and 45 MTPA of BHQ (maximum) and 5 MTPA (maximum) of waste)].
1.3	No BHQ (Banded Hematite Quartzite) should be transported through road.
1.4	The RO Nagpur of MoEFCC will conduct the site inspection/ monitoring of the project upon completion of the OLBC and submit the site inspection/ monitoring report to Compliance and Monitoring Division of the Ministry.
1.5	Appropriate pollution control measures to prevent air, water and land pollution should be adopted for the stacking of BHQ in the ML area. The PP needs to construct catch drains, garland drains, siltation ponds, etc. to prevent any silt flowing outside the stack area. The PP shall also install water sprinklers and fog cannons on and around the BHQ stack area to prevent any dust pollution.
1.6	The Project Proponent (PP) shall complete the construction of the remaining Garland and Catch Drains, within the Mining Lease (ML) area. The PP shall complete the construction of the remaining Retaining RCC Wall as per their commitment. These structures shall be maintained to ensure slope stability and control soil erosion. The PP shall complete the construction of the remaining two (02) harvesting-cum-siltation ponds, ensuring that all nine (09) planned ponds are fully functional. These ponds must be designed to effectively capture and treat surface runoff and silt-laden water during mining operations. An action taken report in this regard needs to be submitted to Ministry's Regional Office at Nagpur.
1.7	The PP shall construct the remaining Settling Pits as per their commitment. These shall be designed and maintained to prevent siltation and runoff into nearby water bodies. The PP shall construct the proposed Gabion Box Wall as per their commitment. An action taken report in this regard needs to submitted at Ministry's Regional Office at Nagpur.
1.8	PP needs to strictly adhere to MMR (Metalliferous Mines Regulation) / DGMS guidelines and recommendations of the study for undertaking blasting activity. PP shall take all steps so that ground vibration and air over pressure does not exceed the stipulations in MMR/ DGMS guidelines. PP shall carryout the blasting in a controlled manner such that the direction of the blasting should be perpendicular to nearby village and it must follow Metalliferous Mines Regulations, 1961 & DGMS guidelines in this respect so that safety is ensured and chances of ground vibration are minimized.
1.9	The Project Proponent needs to set up a permanent monitoring station in the Surjagarh village to monitor the blast induced ground vibration and air over pressure.

S. No	EC Conditions
1.10	The Project Proponent should follow-up the status of implementation on Wildlife Conservation Plan from the Forest Officials and the same shall be submitted to the Ministry's Regional Office in the six monthly compliance report.
1.11	The Project Proponent shall continue to monitor the air quality, noise level, water quality, water level and ground vibration during drilling and blasting at the edge of the mine, near the village, at crusher and at other sensitive receptors and such collected data shall be submitted quarterly to the Ministry's Regional Office.
1.12	The Project Proponent should install Continuous Ambient Air Quality Monitoring Stations (CAAQMS) as per the scientific study and in consultation with CPCB/SPCB. The real time data so generated should be displayed digitally at entry and exit gate of mine lease area for public display and shall be linked to server of CPCB/SPCB.
1.13	The Project Proponent needs to use modern equipment's such as Camera Traps for ensuring presence and movement of wild animals in the study area in consultation with Wildlife Wing of Forest Department. Appropriate interventions shall be taken to minimise stress conditions for wild animals and to avoid Man-Animal conflict.
1.14	The Project Proponent shall take adequate measures to prevent the pilferage of mineral. The Project Proponent needs to implement all possible mitigation measures while transporting the mineral by Road. Tarpaulins covered trucks should be used to prevent spillage and emission of dust. Operators, Supervisors, contractor personal should be properly trained on environmental aspects of Ore/waste spillage and resultant air and water pollution. Record of above training of the personal, supervisor/officials should be submitted to Regional office of MoEF&CC. PP should use Road sweeping machines to clean the roads.
1.15	The project proponent (PP) should ensure that the loading pattern of materials does not exceed the height of the truck deck and the load should be evenly distributed and leveled across the body of the transportation vehicles in order to make safe transportation practices.
1.16	The Project Proponent needs to install the permanent water sprinklers in addition to mobile water tankers along the haul road and the approach road. Further, 10 nos. of fog canon/mist sprayer of atleast 40 m throw shall be installed at various locations in the mine area. Effective dust suppression system shall also be adopted at other parts of the mining lease to arrest the fugitive dust emission.
1.17	Regional office of MoEF&CC shall do the site inspection of the project within one year of issuance of this EC to check whether the conditions of EC are being complied by PP and there is no adverse impact. PP shall submit the site inspection report of the Regional office of Ministry to IA Divison and Compliance and Monitoring Divison of Ministry within one year from issuance of this EC.
1.18	The Project Proponent shall explore the possibility of using atleast 20% of Electric vehicles/CNG/Solar instead of diesel operation within three years.
1.19	The air pollution control equipment's like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at areas prone to air pollution. PP shall take necessary measures to avoid generation of fugitive dust emissions.
1.20	The Project Proponent should adopt the proper mitigation measures as proposed under EMP. The adoption of mitigation measures and monitoring of the same as proposed in the EMP shall be done

S. No	EC Conditions
	under the supervision of the qualified environmental personnel. The implementation status of the same shall be submitted to the Ministry's Regional Office.
1.21	The Project Proponent should establish in house (at project site) environment laboratory for measurement of environment parameter with respect to air quality and water (surface and ground). A dedicated team to oversee environment management shall be setup at site which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis instead of engaging environment monitoring laboratories/consultants. Any non-compliance or infringement should be reported to the concerned authority.
1.22	The Project Proponent shall conduct third party audit of compliance of EC condition at an interval one year and its report shall be submitted to RO, MoEF&CC.
1.23	The Project Proponent shall ensure the survival rate of 95% for planting the gap plantation and new plantation. The Project Proponent shall make the actual count on the saplings planted and its survival rate and in case of failure of achievement of 95% survival rate, action plan for achieving the target survival rate shall be submitted to the Ministry's Integrated Regional Office. PP shall ensure quality planting stock of appropriate height and collar girth. In case of tall seedlings, PP shall plant seedlings with root biomass to commensurate with seedling height so that the seedling can meet the growth parameters after out planting. (2500 plants/ha). PP shall make provision for drip irrigation to conserve the water. PP should plant fruit bearing trees along with native species within the ML area.
1.24	PP should construct a nursery as committed in EIA-EMP report and shall grow fruit bearing sapling and native species. PP shall distribute especially fruit bearing species saplings among local villagers and action taken report in this regard shall be submitted to RO, MoEFCC.
1.25	To address the concerns raised by the public in the public hearing, PP should complete its public hearing commitments within 3 years. PP shall comply with all action plans made for public hearing concerns and make regular maintenance and record the progressive activity outcomes. The Project proponent shall ensure that the activities proposed under the public hearing is different from the CSR activities.
1.26	PP shall engage institutes of national reputes to conduct social audit to improve the outreach and effectiveness of the CSR programmes.
1.27	The Project Proponent needs to provide good quality drinking water supply and also by laying network of pipelines to the nearest village surjagarh at free of cost.
1.28	The Project Proponent shall provide the rainwater harvesting structure at mine offices and its quarters/colonies to recharge the ground water.
1.29	The Project Proponent shall also organize employment-based apprenticeship/ internship training program every year with appropriate stipend for the youth and other programs to enhance the skill of the local people. The data should be maintained for the training imparted to the persons and the outcome of the training, for the assessment of the training program should be analyzed periodically and improved accordingly. PP should provide the Driving (LMV & HMV), Welder, electrician, computer operator, firefighting, tyre fitter, Mason works, housekeeping, catering etc. PP shall also undertake training programme for safety stepwardship, environmental stepwardship, collection on non-timber forest produce (NTFT) training as part of skill development centre curriculum and

S. No	EC Conditions
	Renewable energy.
1.30	The Project Proponent should periodically monitor and maintain the health records of the mine workers digitally prior to mining operations, at the time of operation of mine and post mining operations. Regular surveillance shall be carried through regular occupational health check-up every year for mine workers. PP shall also organize medical camp for the benefit of the local people and also the monitor the health impacts due to mining activity.
1.31	The mobile water tankers should be used in the ML area for dust suppression and control. Sprinkling should be conducted at least 3hrs/shift. A logbook of water tankers should be maintained mentioning running hours, kilometre reading, maintenance hours of water tankers for each shift. PP shall use non-toxic chemicals for dust suppression in order to reduce the total water requirement.
1.32	The Project Proponent needs to reduce the dependency upon the ground water, surface water (water from rivers, etc.) and it shall construct water reservoirs within the lease area for meeting its day-to-day water needs. An implementation report in this regard needs to submit to Ministry's Regional Office.
1.33	The Project Proponent shall ensure that the transportation shall not occur through village road.
1.34	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. The implementation report of the above said condition shall be submitted to the Ministry's Regional Office, Nagpur.
1.35	Approval/permission of the CGWA/SGWA shall be obtained before drawing ground water for the project activities, if applicable. State Pollution Control Board (SPCB) concerned shall not issue Consent to Operate (CTO) till the project proponent obtains such permission.
1.36	The project proponent shall obtain prior approval from the Central Ground Water Authority (CGWA) before commencing any mining activities below the groundwater table. The proponent must take all necessary measures to prevent depletion and contamination of groundwater, including the installation and regular monitoring of piezometers around the mine lease area, and implement a scientifically designed dewatering and groundwater recharge plan in consultation with a qualified hydrogeologist. PP needs to submit a report to RO, MOEF&CC with half yearly compliance report.
1.37	Project proponent shall take necessary other clearances/permissions under various Acts and Rules if any, from the respective authorities / department.
1.38	PP shall consult State Forest Department and Chief Wildlife Warden about the additional steps to be taken for conservation and free movement of wildlife near the Mine Lease area.
1.39	PP shall organize community awareness programs in local villages to educate residents about co-existing with wildlife and preventing human-wildlife conflicts. Emergency response teams comprising local community members and experts shall be established to handle Human-Animal Conflict situations effectively.
1.40	PP shall ensure that all type of plastic waste generated from the mines shall be stored separately in isolated area and disposed of strictly adhering to the Plastic Waste Management Rules 2016. In pursuant to Ministry's OM dated 18/07/2022 PP shall also create awareness among the people

S. No	EC Conditions
	working in the project area as well as in its surrounding area on the ban on Single Use Plastic (SUP) in order to ensure compliance of Ministry's Notification published by the Ministry on 12/08/2021. A report along with photograph on the measures taken shall also be included in the six monthly compliance report being submitted by PP.
1.41	PP needs to comply the OM dated 24.07.2024 of MoEFCC, wherein it is stated that the plantation of saplings shall be carried out in the earmarked 33% greenbelt area as part of the tree plantation campaign "EK Ped Ma ke Naam" (एक पेड़ माँ के नाम) and the details of the same shall be uploaded in the Meri Life portal (https://merilife.nic.in).
1.42	PP needs to comply with the specific conditions number (ii) to (vii) & (xxv) as mentioned in the EC letter no. J-11015/348/2005-IA.II (M) dated 24.02.2023.
1.43	PP shall carry out regular geotechnical and slope stability studies especially during monsoon and will ensure implementation of recommended slope protection measures from time to time.
1.44	Pollution control measures to mitigate air and water pollution must be implemented at all railway sidings involved in mineral transportation. The CPCB guidelines should be strictly followed at Kelzer, Ballarshah, and Manikgarh railway sidings.
1.45	PP needs to engage national reputed institute to study and suggest measures so that no silt flows in low lying areas, rivers, natural nallah from project & project activities.

Standard EC Conditions for (Mining of minerals)

1. Statutory Compliance

S. No	EC Conditions
1.1	The Project Proponent shall inform the MoEF&CC for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred. PP needs to apply for transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time.
1.2	The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.
1.3	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.
1.4	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of Schedule-I species in the study area).
1.5	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation)

S. No	EC Conditions
	Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
1.6	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
1.7	The Project Authorities should widely advertise about the grant of this EC letter by printing the same in 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/Committee and web site of the Ministry of Environment, Forest and Climate Change (www.parivesh.nic.in). A copy of the advertisement may be forwarded to the concerned MoEFCC Regional Office for compliance and record.
1.8	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 &Ors before commencing the mining operations.
1.9	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 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.
1.10	The Project Proponent shall follow the mitigation measures provided in MoEFCC's Office Memorandum No. Z-11013/57/2014-IA.II (M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area."
1.11	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.
1.12	State Pollution Control Board/Committee 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.
1.13	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.
1.14	This Environmental Clearance (EC) is subject to orders/ judgment of Honble Supreme Court of India, Honble High Court, Honble NGT and any other Court of Law, Common Cause Conditions as may be applicable.

2.

S. No	EC Conditions
2.1	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

S. No	EC Conditions
	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.
2.2	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 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.

3. Air Quality Monitoring And Preservation

S. No	EC Conditions
3.1	Design the ventilation system for adequate air changes as per ACGIH document for all tunnels, motor houses, Oil Cellars.
3.2	The project proponent shall install system to carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g., PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to S02 and NOx emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120 each).covering upwind and downwind directions.
3.3	Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points. The Fugitive dust emissions from all sources shall be regularly controlled by installation of 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 to the standards prescribed by the MoEFCC/ Central Pollution Control Board.
3.4	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 in NAAQS Notification No. B-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 the exposure characteristics at specific places. The above data shall be digitally displayed within 03 months in front of the main Gate of the mine site.
3.5	The project proponent use leak proof trucks/dumpers carrying ore and other raw materials and cover them with tarpaulin.
3.6	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognised under Environment (Protection) Act, 1986. 9) The project proponent shall install system to carryout Continuous Ambient Air Quality monitoring for

S. No	EC Conditions
	common/criterion parameters relevant to the main pollutants released (e.g., PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to S02 and NOx emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120 each). covering upwind and downwind directions.
3.7	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories. Monitor fugitive emissions in the plant premises.
3.8	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
3.9	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
3.10	The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality /fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.

4. Water Quality Monitoring And Preservation

S. No	EC Conditions
4.1	The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognised under Environment (Protection) Act, 1986 and NABL accredited laboratories.
4.2	The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
4.3	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 MoEFCC annually.
4.4	Quality of polluted water generated from mining operations which include Chemical Oxygen Demand (COD) in mines run-off; 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.

S. No	EC Conditions
4.5	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.
4.6	The project proponent shall practice rainwater harvesting to maximum possible extent.
4.7	The project proponent shall make efforts to minimise water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.
4.8	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.
4.9	Industrial waste water (workshop and waste water from the mine) should be properly collected and treated 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 treated after its initial passage through Oil and grease trap.
4.10	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/Committee.
4.11	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.
4.12	In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only 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 prior approval from CGWA and MoEFCC 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.
4.13	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 including upstream and downstream. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. The parameters to be monitored shall include their water quality vis-à-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 MoEFCC. The monitoring of water courses/ bodies existing in lease area shall be carried out four times in a year viz. pre- monsoon (April May), monsoon (August), post-monsoon (November) and winter (January) and the record of monitored data may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority and Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis.

S. No	EC Conditions
4.14	Adhere to Zero Liquid Discharge
4.15	The project proponent shall provide the slime disposal facility with impervious lining and collection wells for seepage. The water collected from the slime pond shall be treated and recycled.
4.16	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.

5. Noise And Vibration Monitoring And Prevention

S. No	EC Conditions
5.1	The Project Proponent shall take measures for control of noise levels below 85 dBA in the work environment. The workers 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.
5.2	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 not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day /night hours.
5.3	The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.

6. Noise Monitoring And Prevention

S. No	EC Conditions
6.1	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.
6.2	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.

7. Energy Conservation Measures

S. No	EC Conditions
7.1	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;
7.2	Provide LED lights in their offices and residential areas.

8. Mining Plan

S. No	EC Conditions
8.1	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-à-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-sustaining. The compliance status shall be submitted half-yearly to the MoEFCC and its concerned Regional Office.
8.2	The Project Proponent shall adhere to approved mining plan, inter alia, including, total excavation (quantum of mineral, waste, over burden, inter burden and top soil etc.); mining technology; lease area; scope of working (method of mining, overburden & dump management, O.B& dump mining, mineral transportation mode, ultimate depth of mining, concurrent reclamation and reclamation at mine closure; land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life; etc.).

9. Land Reclamation

S. No	EC Conditions
9.1	Catch drains, settling tanks and siltation ponds of appropriate size shall be constructed around the mine working, mineral yards and Top Soil/OB/Waste dumps to prevent run off 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 de-silted regularly, particularly after monsoon season, and maintained properly.
9.2	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 corners of the garland drains.
9.3	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 / Bentonite etc. shall be undertaken for stabilization of the dump.
9.4	The Overburden (O.B.), waste and topsoil generated during the mining operations shall be stacked at earmarked OB dump site(s) only and it should not be kept active for a long period of time. The physical parameters of the OB / waste dumps / topsoil dump like height, width and angle of slope shall be governed as per the approved Mining Plan and the guidelines/circulars issued by D.G.M.S. The topsoil shall be used for land reclamation and plantation.

10. Waste Management

S. No	EC Conditions
10.1	Kitchen waste shall be composted or converted to biogas for further use.(to be decided on case to case basis depending on type and size of plant)
10.2	The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.

11. Green Belt And Emp

S. No	EC Conditions
11.1	Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant
11.2	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.

12. Transportation

S. No	EC Conditions
12.1	The Main haulage road within the mine lease should be provided with a permanent water sprinkling 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 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.
12.2	No Transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. In such cases, PP shall construct a 'bypass' road for the purpose of 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. [If applicable in case of road transport].

13. Public Hearing And Human Health Issues

S. No	EC Conditions
13.1	Provision shall be made for the housing of construction labour within the site with all necessary

S. No	EC Conditions
	infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
13.2	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
13.3	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
13.4	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
13.5	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, crèche 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.

14. Green Belt

S. No	EC Conditions
14.1	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.

15. Corporate Environment Responsibility

S. No	EC Conditions
15.1	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
15.2	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest /wildlife norms/ conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest I wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.

S. No	EC Conditions
15.3	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Mineral Beneficiation plants shall be implemented.
15.4	The Project Proponent shall submit the time- bound action plan to the concerned regional office of the Ministry within 6 months from the date of issuance of environmental clearance for undertaking the activities committed during public consultation by the project proponent and as discussed by the EAC, in terms of the provisions of the MoEF&CC Office Memorandum No.22-65/2017-IA.III dated 30 September, 2020. The action plan shall be implemented within three years of commencement of the project.
15.5	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
15.6	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

16. Miscellaneous

S. No	EC Conditions
16.1	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
16.2	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.
16.3	The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/High Court and any other Court of Law relating to the subject matter.
16.4	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
16.5	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponents website permanently.
16.6	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
16.7	The project proponent shall submit six-monthly reports on the status of the compliance of the

S. No	EC Conditions
	stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
16.8	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
16.9	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
16.10	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
16.11	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
16.12	The project proponent shall monitor the criteria pollutants level namely; PM10, S02, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
16.13	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.
16.14	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.
16.15	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.
16.16	The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/High Court and any other Court of Law relating to the subject matter.
16.17	The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
16.18	Concealing factual data failure to comply with any or submission of false/ fabricated data and of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
16.19	A separate 'Environmental Management Cell' with suitable qualified manpower should be set-up under the control of a Senior Executive. The Senior Executive shall directly report to Head of the

S. No	EC Conditions
	Organization. Adequate number of qualified Environmental Scientists and Mining Engineers shall be appointed and submit a report to RO, MoEF&CC.
16.20	In pursuant to Ministrys O.M No 22-34/2018-IA.III dated 16.01.2020 to comply with the direction made by Honble Supreme Court on 8.01.2020 in W.P. (Civil) No 114/2014 in the matter Common Cause vs Union of India, the mining lease holder shall after ceasing mining operations, undertake regrassing the mining area and any other area which may have been disturbed due to other mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.
16.21	The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MOEFCC & its concerned Regional Office, Central Pollution Control Board and State Pollution Control Board.
16.22	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.

17. Corporate Environment Responsibility (Cer)

S. No	EC Conditions
17.1	The Project Proponent shall submit the time- bound action plan to the concerned regional office of the Ministry within 6 months from the date of issuance of environmental clearance for undertaking the activities committed during public consultation by the project proponent and as discussed by the EAC, in terms of the provisions of the MoEF&CC Office Memorandum No.22-65/2017-IA.III dated 30 September, 2020. The action plan shall be implemented within three years of commencement of the project.

Annexure-2

Details of the project.

The instant proposal is for expansion of Iron Ore production capacity from 10 to 26 MTPA Hematite, 45 MTPA BHQ (Banded Hematite Quartzite), 5 MTPA waste (Total Excavation 60.0 MTPA) along with crushing and screening plant (Primary crushing plants -3 x 3000 TPH Gyratory crusher, 1 x700 TPH Jaw crusher, 1 x 350 TPH Jaw crusher, 5 x 250 TPH Jaw crusher, Secondary crushing plants: 12 x 625 TPH Cone crusher, 1 x700 TPH Cone crusher, 1 x 350 TPH Cone crusher, 5 x 250 TPH cone crusher, Screening plants : 12x 625 TPH Screen plant, 5 x 900 TPH Screen plant, 3 x 400 TPH Screen plant, 2 x 250 TPH Screen plant) in the Surjagarh Iron Ore Mine lease area of 348.09 Ha by M/s. Lloyds Metals & Energy Ltd located near village Surjagarh, Tehsil Etapali, District Gadchiroli, Maharashtra.

2. The details of the Project submitted by the Project Proponent are given as under:

i. Project details:

Name of the Proposal	Expansion of Iron Ore production capacity from 10 to 26 MTPA Hematite, 45 MTPA BHQ (Banded Hematite Quartzite), 5 MTPA waste (Total Excavation 60.0 MTPA) along with crushing and screening plant (Primary crushing plants -3 x 3000 TPH Gyratory crusher, 1 x700 TPH Jaw crusher, 1 x 350 TPH Jaw crusher, 5 x 250 TPH Jaw crusher, Secondary crushing plants: 12 x 625 TPH Cone crusher, 1 x700 TPH Cone crusher, 1 x 350 TPH Cone crusher, 5 x 250 TPH cone crusher, Screening plants : 12x 625 TPH Screen plant, 5 x 900 TPH Screen plant, 3 x 400 TPH Screen plant, 2 x 250 TPH Screen plant) in the Surjagarh Iron Ore Mine lease area of 348.09 Ha by M/s. Lloyds Metals & Energy Ltd located near village Surjagarh, Tehsil Etapali, District Gadchiroli, Maharashtra.	
Location	Village	Near Surjagarh
	Tehsil/Taluka	Etapalli
	District	Gadchiroli
	State / UT	Maharashtra
	Latitudes	19º 36’ 58.96” N to 19º 38’ 21.48” N
	Longitudes	80º 20’ 57.12” E to 80º 22’ 32.84” E
	SoI Topo sheet No.	E44C6

Company's Name	M/s Lloyds Metals and Energy Limited
Accredited Consultant and certificate no. and Validity	MECON Limited, Certificate No: NABET/EIA/24-27/RA 0342_Rev 01 dated 13.01.2025 and its valid upto 09/02/2027
KML file	Submitted on parivesh
Seismic zone	Seismic Zone II

ii. Category details:

Category of the project	'A' Category
Schedule No.	1(a) "Mining of minerals"
Mining lease Area (MLA) (in ha.)	348.09
General Conditions (if any)	Not applicable

iii. ToR Details:

a. The Project Proponent has obtained TOR vide letter no. J-11015/348/2005-IA.II (M) dated 26.11.2024.

iv. Details of Mine Lease in chronological manner:

S. No	Details of grant of Mine Lease deed execution	Period of Grant		Name of the Mineral	Mine lease area in Ha
		From	To		
1	Applied in 05.07.1993. And granted vide Lr. No - MMN1104/C.R.683/Ind-9 dated 13.04.2007 and executed on 03.05.2007 for 348.09 ha	03.05.2007	02.05.2027	Iron Ore	348.09
2	As per MMDR Amendment Act, 2015, supplementary lease deed for extension of lease period was executed on 03.12.2021 and ML valid up to 02.05.2057	03.12.2021	02.05.2057	Iron Ore	348.09

v. Land Use/ Land Cover of the Mine Lease Area:

Private land	-
Government land	-
Forest land	348.09 ha
Total Mining lease area (MLA), ha	-
Private land for crusher, workshop & other infrastructure outside the MLA	All facilities within ML Area

vi. Mining plan details:

Mining Plan including Progressive Mine Closure Plan	Letter No.	MCDR-GAD0FE/8/2023-NR-IBM RO NR
	Date	14.06.2024

(approved by Indian Bureau of Mines/ DMG)	Mineral & (Major/Minor)	Iron Ore (Major mineral)
	Mine Lease Area, Ha	348.09ha
	Validity	31st March 2027
Mining Parameters	Quantitative Description	
Method of Mining	A-Mechanized, Open Cast Mining	
Drilling/Blasting	Drilling using 115-250mm diameter drills with 10% sub grade drilling. Blasting is being done by SME and electronic detonator initiation system.	
Geological Reserves	856.771 million tonnes (Likely to increase on further exploration) - as submitted by PP	
Mineable Reserves	856.771 million tonnes (out of this 37.80 million tonnes is blocked reserves) - as submitted by PP	
Breakup of Total Excavation (Topsoil/OB/SB/IB/Mineral Rejects/ Waste, MTPA)	Total excavation 60 MTPA, Waste 5 MTPA	
Life of mine	32 years (Upto 2057)	
Mine Bench Height & Bench Width	Bench height 10m-20m Bench width 15m-30m (As per DGMS Guidelines)	
No. of Mine Benches	No. of Benches (Existing) : Eastern pit: 9 nos & Central pit: 3 nos No. of Benches (Proposed) (as per mining plan): Eastern pit: 9 nos, Central pit : 18 nos & Western pit : 11 nos.	
Existing Depth, m	580 mRL	
Ultimate Depth of Mining, m	160 mRL	
Ground Water Table, m	Ground Water Table: 260 mRL	
Details of ground water intersection	Not anticipated in plan period	
Individual bench slope	80°	
Overall pit slope	37°	
Details of existing/ proposed Crusher	Crushing Plant - Primary crushing plants -3 x 3000 TPH Gyratory crusher, 1 x 700 TPH Jaw crusher, 1 x 350 TPH Jaw crusher, 5 x 250 TPH Jaw crusher. Secondary crushing plants - 12 x 625 TPH Cone crusher, 1 x 700 TPH Cone crusher, 1 x 350 TPH Cone crusher, 5 x 250 TPH cone crusher	

<table>
<tr><td></td><td>Screening plant - 12x 625 TPH Screen plant, 5 x 900 TPH Screen plant, 3 x 400 TPH Screen plant, 2X250 TPH screen plant</td></tr>
<tr><td>Mineral Beneficiation</td><td>NA</td></tr>
<tr><td>RoM output size</td><td><table><tr><td>Type of ore</td><td>Product size in mm</td></tr><tr><td>Hematite</td><td>CLO (5-20 mm,10-40 mm) & Fines (-10 mm)</td></tr><tr><td>BHQ</td><td>-40 mm</td></tr></table></td></tr>
<tr><td>Transportation details including capacity of dumper/tipper, mode of transport and distance</td><td>Dumpers/ Trucks/conveyor belt. Dumper capacity 30-240 T.
BHQ will be transported by road till the overland belt conveyor system is established.</td></tr>
<tr><td>Generation of Topsoil/OB & its Management during plan period & conceptual period</td><td>Top soil is not encountered in plan period</td></tr>
<tr><td>Generation of Mineral Rejects/ Waste & its Management during plan period & conceptual period</td><td>The total waste generated during plan period including is 14.58 Million Tonnes. Waste disposal has been planned to be accommodated in the non -mineralized zone as a temporary waste dump.</td></tr>
</table>

vii. Water requirement:

<table>
<tr><td rowspan="2">Total water requirement</td><td>Present: 1200m3/day,
Incremental: 1012 m3/day
Total : 2212 m3/day</td><td>Fresh water</td><td>2032 m3/day</td></tr>
<tr><td>Potable water: Present : 70m3/day,
Incremental: 88 m3/day,
Total : 158 m3/day</td><td>Treated water</td><td>180 m^3/day</td></tr>
<tr><td>Source</td><td colspan="3">Surface and ground water</td></tr>
<tr><td>Permission for withdrawal/ intersection along with details of grant and its validity</td><td colspan="3">NOC to abstract 70 m3/day (present potable water consumption) of Ground Water has been obtained from CGWA, Govt. of India vide NOC No. CGWA/NOC/MIN/REN/1/2024/10185, dated 22.11.2024. The application for 158 m3/day is submitted.
Approval of withdrawal surface water for 13200 KLD from river Bande is obtained from Dept. of Water Resources, Govt. of Maharashtra vide letter no. 2022/(218/22)/सस.व्य).धो-2) dated 13.01.2023</td></tr>
</table>

viii. Nearest village/ town/ highway/ interstate boundary/ railway station/ water bodies/ monument/ forest

Particulars	Particular's Name	Distance & Directions
Village	Hedri Bande Surjagarh Mallampahad Manger Moharli	2.7 km (SE) 2.1 km(S) 3.1 km (E) 2.2 km (E) 3.6 km (SE) 2.9 km (NW)
Town	Etapalli	26 km
Highway	SH-363 NH-353 C	5 km (SE) 57 km (SW)
Interstate Boundary	Nil	
Railway Station / Railway line	Balharshah Jn.	~157 km (W)
Water Bodies	a. Bande river b. Kappe Nadi c. Akeran Nadi d. Dumme Nadi	1.75 km (W) 2.95 km (N) 6.04 km (W) 6.07 km (SW)
Forest	The lease falls in Bhamragarh Reserve Forest	

ix. Presence of Environmentally Sensitive areas in the study area

Forest Land/ Protected Area/ Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter issued by the concerned Department mentioning the Lr no, date of grant and remarks
Forest Land within the mine lease area and (if yes) status of Forest Clearance	Yes	The Project Proponent submitted that the copy of Forest clearance Vide Letter No. F.No- 8-31/2005 /FC dated 23.03.2007 obtained under section-2 of the Forest (Conservation) Act, 1980 for diversion of 374.90 ha of Reserved/ Protected/ Zudpi forest land for Iron-Ore mining, transmission line and approach road in favour of M/s Lloyds Metals and Engineers Limited (LMEL). PP also submitted that 348.09 ha is the mine lease area and the balance area is for road and transmission line.
National Park	No	Project Proponent has submitted a map showing the distance of wildlife sanctuaries/protected areas from the Mine. The map was authenticated by
Wildlife Sanctuary	No	
Elephant/Tiger Reserve	No	

Eco-Sensitive Zone(ESZ) /Eco-Sensitive Area (ESA)	No	Chief Wildlife Warden and submitted with EIA-EMP report.
Coastal Regulation Zone (CRZ)	No	Not applicable
Schedule-I species (No.s and name of schedule-I species with authenticated letter)	Yes,	There are some Schedule I Fauna like sloth bear, Indian porcupine, pea fowl etc. in the study area. The list is authenticated by PCCF (Wildlife), Nagpur (Schedule as per Wildlife (Protection) Amendment Act, 2022.
Wildlife Conservation Plan	Yes	Site Specific Wildlife Conservation Plan has been approved by PCCF (WL), Maharashtra vide letter dated 28.03.2025 with a total financial out lay of Rs.955.50 lakhs for ML area and buffer zone.

x. Green belt/plantation details:

Proposed area for green belt/plantation and no. of saplings proposed

Sl. No	Year	Green Belt Location (s)	Area Proposed to be Covered (Ha)	Number of Plants Proposed	Expected Survival Rate (%)	Estimated Expenditure (INR)
1	2024 - 2025	Safety Zone	0.326	652	80	40000
2	2025 - 2026	Safety Zone	0.423	846	80	50000
3	2026 - 2027	Safety Zone	0.423	846	80	50000

Budget for green plant & plantation till the end of life of mine.	60 lakhs per annum
Budget for nursery	---

Details of existing plantation and its survival rate

	Peripheral	Dumps	Roads	Township	Others	Survival rate
Existing	0	0.42 Ha	26 kms	-	0.626 Ha in safety	96%

						zone area as gap filling	

No. of tree cuts in the mine lease area and compensatory afforestation	No. of trees cut - 28285 Compensatory Afforestation: 497803 nos. of trees planted
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	6.17 Ha

xi. Baseline detail:

Baseline Data (Air / Water / Noise / Soil / Hydro geological study/ Traffic Study/ others)	
Period of baseline data collection	December 2023 – February 2024
Season (Summer / Pre-monsoon / Post-monsoon / Winter)	Winter season 2023-24
Predominant Wind direction (From)	Northwest
Ambient Air Quality (no. of locations) and results	No. of locations -10 Core zone PM10 (µg/m3)= 60.2 – 80.9 PM2.5 (µg/m3)= 22.6- 32.3 SO2(µg/m3)=7.8-12.1 NOx(µg/m3)=17.4-39.4 Buffer zone PM10 (µg/m3)= 51.4-80.6 PM2.5 (µg/m3)= 20.3-36.25 SO2(µg/m3)= 6.3-17.98 NOx(µg/m3)= 11.4-36.1

	The air quality results are within the limits of National Ambient Air Quality Standards (NAAQS). Green mining initiatives: LMEL deployed EV/Battery operated equipment's (Drills, Excavators, Dumpers, Loaders & LMV's) for Hematite mining which plays a significant role to maintain the ambient air quality standards.
Noise level (no. of locations) and results	No. of locations=8 Core zone (industrial area)= 74.1 dB(A) at daytime 63 dB(A) at nighttime Buffer zone (residential area)= 44.8dB(A) – 54.7dB(A) at daytime 40.6 dB(A)- 44.8 dB(A) at nighttime Buffer zone (silence zone) 43.3 dB(A) at day time 38.7 dB(A) at night time
Water Quality (no. of locations) and results	No. of GW locations=8 No. of SW locations =8 Results of SW pH of water samples are in the range of 6.52 to 7.65 which are well within 6.5-8.5. The dissolved oxygen varied from 5.6 to 7.5 mg/l. Total coliform results of SW2 is below 50 MPN/ 100 ml which makes these surface water quality fall under Class A i.e. Drinking water source without conventional treatment but after disinfection. The rest of the surface water samples is suitable can be used for outdoor bathing (organised) (i.e. Class B) as the Total coliform concentrations are less than 500 MPN/ 100 ml. Results of Groundwater The pH of the water ranges from 6.09 – 6.99. The concentration of Total hardness (as CaCO3) varied from 25 to 248 mg/l. TDS varies from 42 to 692 mg/l. Toxic substances have not been detected in the tested samples

Soil Quality (no. of locations) and results	No. of locations =8 The texture of soil samples is sandy clay to loamy sand. As the area is rich in iron and the same is observed in the tested soil samples. The higher concentration of micro nutrients in the soil is attributable to rich mineralization in the region.
Hydro geological study and results	Buffer zone = 0.72-8.23 (pre monsoon) = 0.3-6.5 (post monsoon) Core zone= 6.0-6.5 (pre monsoon) = 4.0 to 4.5 (post monsoon)
Traffic study (no. of locations) and results	At two locations V/C ratio 0.22 after proposed expansion

xii. Public Hearing (PH) Details:

Advertisement for PH with date (name of major national daily and one regional vernacular daily newspaper)	The Times of India (English): 20.12.2024, Lokmat (Marathi) : 20.12.2024
Date of PH	28.01.2025
Venue	DPC hall, Gadchiroli
Chaired by	District Magistrate
Main issues raised during PH	Employment, Health, Education, Environment, Peripheral Development
Budget proposed for addressing issues raised during PH over 3 years	Rs. 9406.5 Lakhs
Additional information (if any)	All issues raised during PH has been addressed by project proponent

xiii. Details of CTE/CTO, Certified Compliance Report, Certified Production Details from the inception of the mine:

Particulars	Details of Letter along with date of grant and validity
Consent to Establish	PP has obtained Consent to Establish (CTE) for 10 MTPA Iron ore production has been granted by Maharashtra Pollution Control Board, Maharashtra vide letter no: 0000147010/CE/2301001784 dated 20.01.2023
Consent to Operate	Consent to Operate (CTO) has been granted from the Maharashtra Pollution Control Board, Maharashtra vide letter no. 0000213847/CO/2410000016 dated 01.10.2024 for 10 MTPA of Iron ore production and is valid up to 31.03.2029

Certified Compliance Report and Inspection date	Certified compliance report is issued by Regional Office, MoEFCC, Nagpur vide No. F. No. 3-32/2006/ (ENV)/13995, dated 10.02.2025. Inspection date 05.12.2024
Certified Production Details from the inception of the mine (in tabular form against the EC capacity)	Production data since inception of mines is certified by District Mining officer vide letter dated 20.02.2025

xiv. Rehabilitation & Resettlement (R&R):

R & R details	The entire mining lease area of 348.09ha falls within the Bhamragarh Reserve Forest. The Forest clearance already obtained for 374.90 Ha (comprising 348.09 ha of ML area and balance road and transmission line area), vide letter F. No- 8-31/2005 /FC dated 23.03.2007. There are no habitations within the lease area. Hence, there is no Rehabilitation and Resettlement.

xv. Court case details:

Court Case, No and its present status	Case Name	Samarjeet Chatterjee vs Union of India & Ors	Prakruti foundation v/s Union of India and Ors	Vishesh Bhatpalliwar and another Vs Union and others	Bramhanand Tiwari vs. Collector, Gadchiroli and others
	Name of the court / tribunal (Supreme Court / High Court / NGT / Dist. Court / Others)	High Court of Judicature at Bombay, Nagpur Bench	High Court of Judicature at Bombay, Nagpur Bench	High Court of Judicature at Bombay, Nagpur Bench	National Green Tribunal (Western Zone) Pune
	Case category (CA/ SLP (Cr.) / SLP (Civil)/ WP (Cr.) /	Public Interest Litigation	Public Interest Litigation	Public Interest Litigation	Original Application

	WP (civil) / OA / Appeal / Complaint case / others)				
	Case Number	6 of 2023	19 of 2023	10 of 2025	14 of 2024
	Status of court case (disposed off / reserved for judgement /	Pending	Pending	Pending	The case is disposed off
Undertaking by Project Proponent w.r.t court case	LMEL has summited an undertaking that there is no adverse order/ orders on above case/ cases have been passed against the Project Proponent by the any Hon'ble Court till date. The project proponent has stated that they will go by the order passed by the Hon'ble Court.				

xvi. Affidavit/Undertaking details:

Affidavit as per Ministry's OM dated 30.05.2018	PP has submitted an undertaking by way of Notarized Affidavit dated 25.06.2024 in compliance of the Ministry's OM no. 3-50/2017-IA.III(Pt.)dated 30.05.2018.
Undertaking by Project Proponent in EIA/EMP report	PP has submitted an undertaking vide letter dated 06.02.2025 in EIA/EMP Report.
Undertaking by Consultant in EIA/EMP report	Consultant has submitted an undertaking in the EIA-EMP report vide letter dated 10.02.2025
Plagiarism Certificate	PP has submitted the certificate of plagiarism in the EIA-EMP report vide dated 18.02.2025.

xvii. PP has submitted point wise reply dated 05.05.2025 against the ADS raised on 20.03.2025 during 41st EAC meeting held on 20.03.2025 along with the action taken report on the recommendations of the sub-committee in 43rd EAC meeting dated 03/05/2025 for site inspection report as mentioned below:

S. No	ADS Point	Reply by Project Proponent

<table>
<tr><td>1.</td><td>PP should submit the action plan/action taken report on the recommend ations of the sub-committee of EAC after the proposed site visit.</td><td>The site visit was undertaken by EAC subcommittee on 08-10 April, 2025.</td></tr>
<tr><td>2.</td><td>PP should submit updated compliance status with respect to points raised and recommend ations (as given in CCR) of MoEF&CC, Regional Office, Nagpur</td><td>The updated pointwise compliance status with respect to points raised and recommendations (as given in CCR) of MoEF&CC, Regional Office, Nagpur is furnished in the below table. Further, in subsequent six monthly EC compliance report, the updated implementation status will also be submitted to RO, MOEF&CC, Nagpur.
<table>
<tr><th>Sl. No.</th><th>Observation Points</th><th>Compliance Status</th></tr>
<tr><td>2.1</td><td>PP should follow up with the State Forest Dept. on the status of the implementation of the site specific wildlife conservation plan and submit along with the next six-monthly compliance report to RO, Nagpur</td><td>In this regard, we are following with the State Forest Dept. to furnish the status of the implementation of the wildlife conservation plan on regular basis.
Further, the State Forest Dept. has furnished the status of the wildlife conservation measures carried in the buffer zone upto FY 2023-24, where Rs. 234.2 Lakhs is spent and in FY 2024-25, a total of Rs. 328.27 lakhs work completed /in progress, out of the total available provisions of Rs. 683 Lakhs; Rs. 562.47 Lakhs is spent by DCF, Bhamragarh in buffer zone of the Surjagarh Mines in last 2 years.</td></tr>
</table></td></tr>
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				During six monthly compliance report of Oct,24 to Mar,25; LMEL has uploaded the implementation status of same on Parivesh Portal dt. 01/05/2025. Further, LMEL will ensure to submit the updated status during subsequent six monthly compliance report.
		2.2	PP shall ensure the immediate implementation of the wildlife management and safety plan in co-ordination with the forest officials and shall submit the status update along with the six monthly compliance report without fail.	In this regard, we are following with the State Forest Dept. in implementation of the wildlife conservation plan on regular basis and extending the support from time to time with the involvement of our experts. During six monthly compliance report of October, 24 to March, 25; LMEL has uploaded the implementation status of same on Parivesh Portal dt. 01/05/2025. Further, LMEL will ensure to submit the updated status during subsequent six monthly compliance report.
		2.3	PP shall ensure dump slope stability and erosion control by planting deep-rooted native species like vetiver grass, hydro seeding, coir/ jute mats, and contour trenching will aid soil binding and moisture retention, while compost and bio fertilizers will enhance growth. Regular monitoring and replanting will ensure long -term stability.	The waste material has been stacked in the designated area and the inactive dumps are properly compacted for better stability with number of benches and inward slope for better run-off management with the coir matting & mixed grass seeds (24000 Sq.M completed in FY 23-24). PP have applied the biodegradable coir mats on

				the dump slopes along with mixed grass seeds i.e. Stylo hemata, Dhaincha (Sesbania aculeata), Napier grass (Pennisetum purpureum), Vetiver (Chrysopogon zizanioides), Deenanath (Pennisetum pedicellatum), Palmarosa (Cymbopogon martinii) etc. to avoid the erosion of the dumps. The dump slopes are properly vegetated, and maintenance care is being carried out with watering, compost, bio fertilizers etc. from time to time. All the dumps are terraced, and stabilized with planting deep-rooted native species as advised like vetiver grass, hydro seeding with application of coir mats. Contour trenching is being carried out to aid soil binding and moisture retention, while compost and bio fertilizers have been applied to enhance the growth of plant / grass saplings. Further, regular monitoring and replanting of trees is being carried out with proper plantation techniques to ensure long term stability purposes.
3.	The Project Proponent (PP) is required to provide specifics about the	PP have established the Garland drains, Catch drains, Siltation ponds and Gabions within and all along the Lease (ML) boundary. Locations of these structure are clearly indicated on the surface plan and the along with geotagged photographs. Additionally, details sections of the Garland drain, catch drain, and Siltation ponds & Gabion structures constructed are furnished in table below. The details of same earmarked in the		

	Garland drains, Catch drains, Siltation ponds and Gabions already built within and around the Mining Lease (ML) area. Locations of these structure should be shown on a surface plan along with geotagged photographs. Additionally, details regarding the sections of the Garland drain, Catch drain, and Siltation Pond & Gabion structures that are still to be constructed must be submitted	surface plan and the geo tag photos of the above structures are submitted.

S.No	Particulars	UoM	Existing	Proposed	Total
1	Garland Drain & Catch drains (W-2 m, D-1.5 m). with the provision of more than 100 nos. of silt check weirs of gabion (L-2m, W-1m, D-1m) at the strategic locations	Mtr	25,000	6,000	31,000
2	Settling Pit (24 nos.) with avg. L-35m, W-20m, D-5m & 8 more nos. with avg. width of -110m, W-40m, D-7m	Cum	3,50,000	89,000	4,39,000
3	Retaining Wall (with RCC as well as gabion structures)	Mtr Gabion Box Wall	1,400	700	2,100
		Mtr RCC Wall	3,000	700	3,700
4	Harvesting cum siltation ponds with capacity of range of 40,000 CUM, 76,000 CUM & other 5 nos.	Nos	7	2	9

<table>
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<tr><td></td><td>of 10,000 CUM each.</td><td></td><td></td><td></td><td></td></tr>
</table>
</td></tr>
<tr><td>4.</td><td>PP must furnish information about the installation of the Overland Belt Conveyor (OLBC), including its technical specifications, along with a clear timeline for completion.</td><td>
<table>
<tr><td colspan="3">Conveyor Technical Specification</td></tr>
<tr><td>Conveyor No.</td><td>Conveyor -1</td><td>Conveyor -2</td></tr>
<tr><td>Rated Capacity (TPH)</td><td>7500</td><td>2000</td></tr>
<tr><td>Horizontal Length (m)</td><td>2502.85</td><td>2503.5</td></tr>
<tr><td>Belt Width (mm)</td><td>2200</td><td>1400</td></tr>
<tr><td>Belt Speed (m/s)</td><td>4</td><td>4</td></tr>
<tr><td>Density of Material (T/m3)</td><td>2.2 to 2.7</td><td>2.2 to 2.7</td></tr>
<tr><td>Size of Material (mm)</td><td>0-40</td><td>0-20</td></tr>
<tr><td>Maximum moisture content (%)</td><td>≤8</td><td>≤8</td></tr>
<tr><td>Motor Power (KW)</td><td>3x560 & 3x710</td><td>560 & 2x500</td></tr>
</table>
OLBC system shall be constructed and commissioned within 12 months from date of obtaining all the statutory clearance (expected by Jun, 2025)
</td></tr>
<tr><td>5.</td><td>The PP needs to submit a status update on the installation of the slurry pipeline network. This report should outline the segments of the pipeline already completed and those still under development. Additionally,</td><td>
The slurry pipeline from Hedri to Konsari (~90 Kms) having the capacity of 10 MTPA is under the following stages:

Laying of slurry pipeline for 90 Kms –completed
Commencement of 10 MTPA Iron ore Grinding plant & Filtration unit –March, 2026.
Establishment of pumping terminal & PLC installation – March 2026.

The water source for slurry pipeline unit will be catered from the Bande river. The surface water permission obtained from the Maharashtra Water Resource Dept. vide letter no. 2022/(218/22)/ सस.व्य.(धो-2) dated 13.01.2023.

The hourly & daily water requirement is given in the following Table:
<table>
<tr><td colspan="4">Water Requirements (m3/hr)</td><td></td><td colspan="2">Water Recovery (m3/hr)</td></tr>
<tr><td>Equipment/ Process</td><td>Process Water</td><td>Fresh Water</td><td>Cooling Water</td><td></td><td>Equipment</td><td></td></tr>
<tr><td>Water requirement in Slurry preparation *</td><td>759</td><td>-</td><td>-</td><td></td><td>Fire Hydrant</td><td>50</td></tr>
</table>
</td></tr>
</table>

	the PP should provide details on the hourly and daily water requirements for the pipeline, including the water source. PP should also furnish water balance diagram.	Gland Seal Water for Slurry Pumps	-	5	-		Total Recovery	50
		Lime Dosing Unit	-	15	-		Water Loss in Process (m3/hr)	
		Oxygen Scavenging Unit	-	1	-		Gland Seal Water	5
		Fire Hydrant	-	50	-		Lime Dosing Unit	15
		Dust suppression	5	-	-		Oxygen Scavenging Unit	1
		Drinking Water	-	2	-		Dust suppression	5
		Misc	-	2	-		Drinking Water	2
							Misc	2
		Total	764	75	0		Total (m3/hr)	30
		Total Water Input in Process	789 m3/hr				Water Loss	80 - 50
							Make up water for process (m3/hr) *	30
		*The total water requirement for slurry pipeline is 789 m3/hr. (17880 m3/day)						
		Note: The water from slurry pipeline will be filtered and used for pellet plant and Integrated Steel plant at Konsari (receiving end).						
6.	The PP needs to submit a status update on the installation of the slurry pipeline network. This report should	The slurry pipeline from Hedri to Konsari (~90 Kms) having the capacity of 10 MTPA is under the following stages: • Laying of slurry pipeline for 90 Kms –completed • Commencement of 10 MTPA Iron ore Grinding plant & Filtration unit -Mar'26. • Establishment of pumping terminal & PLC installation – Mar'26. The water source for slurry pipeline unit will be catered from the Bande river. The surface water permission obtained from the Maharashtra Water Resource Dept. vide letter no. 2022/ (218/22)/सस.व्य) .धो-2) dated 13.01.2023.						

	outline the segments of the pipeline already completed and those still under development. Additionally, the PP should provide details on the hourly and daily water requirements for the pipeline, including the water source. PP should also furnish water balance diagram.	The hourly & daily water requirement is given in the following Table:

Water Requirements (m3/hr)					**Water Recovery (m3/hr)**	
Equipment / Process	**Process Water**	**Fresh Water**	**Cooling Water**		**Equipment**	
Water requirement in Slurry preparation *	759	-	-		Fire Hydrant	50
Gland Seal Water for Slurry Pumps	-	5	-		**Total Recovery**	**50**
Lime Dosing Unit	-	15	-		**Water Loss in Process (m3/hr)**	
Oxygen Scavenging Unit	-	1	-		Gland Seal Water	5
Fire Hydrant	-	50	-		Lime Dosing Unit	15
Dust suppression	5	-	-		Oxygen Scavenging Unit	1
Drinking Water	-	2	-		Dust suppression	5
Misc	-	2	-		Drinking Water	2
					Misc	2
Total	**764**	**75**	**0**		**Total (m3/hr)**	**30**
Total Water Input in Process	**789 m3/hr**				**Water Loss**	**80-50**

<table>
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<table>
<tr><td></td><td></td><td></td><td></td><td></td><td>Make up water for process (m3/hr) *</td><td>30</td></tr>
<tr><td colspan="7">*The total water requirement for slurry pipeline is 789 m3/hr. (17880 m3/day)</td></tr>
</table>
Note: The water from slurry pipeline will be filtered and used for pellet plant and Integrated Steel plant at Konsari (receiving end).
</td></tr>
<tr><td>7.</td><td>The PP must specify the number of trucks designated for mineral transportation and include a strategy to optimize vehicle use to reduce environmental impact</td><td>PP have engaged a CSIR-CRRI (Central Road & Research Institute) to carry out the traffic study for mineral transportation. Study report indicates that for 26 MTPA capacity, the existing road network is within the safe limit with V/C ratio of 0.25 which falls in “B” category. The summary of truck requirement given for Mineral transportation in below table:
<table>
<tr><th>Description</th><th>Existing- 10 MTPA</th><th colspan="2">Proposed- 26 MTPA</th></tr>
<tr><td>Carrying capacity/trip</td><td>37 T</td><td>37 T</td><td>42 T</td></tr>
<tr><td>Avg. No of trucks/day</td><td>317</td><td>823</td><td>763</td></tr>
</table>
</td></tr>
<tr><td>8.</td><td>PP should furnish appropriate safeguards so as to ensure that there is no scope for any spillage of ore on the transportation route</td><td><u>Proper loading and unloading:</u>
• Ensuring the loading pattern less than the deck height and levelling across the body of the transportation trucks.
• Ensuring the proper loading and unloading procedures to prevent spills i.e. at weigh bridge meant for ILMS (Integrated Logistics Management System of State Govt.), which will ensure there is no excess loading of materials.
<u>Tarpaulin Covered transportation:</u>
• Usage of tarpaulin covered trucks while transportation of ore to avoid spillage.
• <u>Spillage arrestor:</u>
  • The rubber sponge type gap arrestor installed at the tailgate end of truck to arrest the spillage of ore.
• <u>Wheel washing unit:</u>
  • A wheel washing unit has been installed at the mine entrance exit gate to clean vehicle wheels before leaving the site, reducing the spillage.
• <u>Road sweep cum machine:</u></td></tr>
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Regular usage of road sweep machines to clean the road near the mines area

• <u>Regular maintenance:</u> Regularly inspect and maintain transportation vehicles and equipment to prevent leaks or spills.
• <u>Training and monitoring:</u> Provide training to drivers and personnel on spill prevention and response, and monitor transportation activities to ensure compliance.
• <u>Road traffic team:</u> The traffic team will continuously be monitoring and ensuring the any spillage on transportation route.
</td></tr>
<tr><td>9.</td><td>PP should submit the copy of the logbook of water tankers for December 2024-January and February 2025. Running hours of water tankers, kilometer reading and breakdown details should be mentioned in the log book</td><td>
PP has installed and operating the 3.1 Km fixed water sprinkler in the Main haul roads. Apart from this, the adequate numbers of Mobile water tanker engaged in the active haul roads to mitigate the dust suppression regularly. The water tanker running hours, breakdown hours etc. is mentioned in the following table:
<table>
<tr><th colspan="8">WATER TANKER RUNNING REPORT MONTH OF DECEMBER - 2024</th></tr>
<tr><th>S.No</th><th>Equipment Number</th><th>Capacity (KL)</th><th>Location</th><th>Running Hrs</th><th>Kms</th><th>Trips</th><th>Breakdown Hrs</th></tr>
<tr><td>1</td><td>MH33T4814 (V-001)</td><td>12</td><td>Haul Road mines</td><td>310.13</td><td>3,549.80</td><td>275.00</td><td>10.24</td></tr>
<tr><td>2</td><td>MH33T4235 (V-002)</td><td>12</td><td>Bottom mines</td><td>315.80</td><td>3,023.45</td><td>273.00</td><td>23.80</td></tr>
<tr><td>3</td><td>MH33T4318 (V-003)</td><td>12</td><td>Top Mines</td><td>238.41</td><td>2,435.10</td><td>236.00</td><td>22.80</td></tr>
<tr><td>4</td><td>OD09G4599 (V-004)</td><td>12</td><td>PP & Central Hill</td><td>285.40</td><td>2,772.60</td><td>268.00</td><td>186.12</td></tr>
<tr><td>5</td><td>MH33T5549 (V-005)</td><td>12</td><td>Top Mines</td><td>369.10</td><td>3,384.00</td><td>301.00</td><td>32.52</td></tr>
<tr><td>6</td><td>MH33T5551 (V-006)</td><td>12</td><td>LMV & R.Road</td><td>334.90</td><td>3,566.80</td><td>445.00</td><td>20.40</td></tr>
<tr><td>7</td><td>AP39TE0721(V-007)</td><td>12</td><td>Haul Road (S Bend)</td><td>326.10</td><td>3,228.35</td><td>335.00</td><td>7.72</td></tr>
</table>
</td></tr>
</table>

8	JH02BD9097 (V-009)	12	Bottom & M.Road	356.40	1,445.24	428.00	9.23
Total				**2,536.24**	**23,405.34**	**2,561.00**	**312.83**

WATER TANKER RUNNING REPORT MONTH OF JANUARY -2025							
S.No	***Equipment Number***	***Capacity (KL)***	***Location***	***Running Hrs***	***Kms***	***Trips***	***Breakdown Hrs***
1	MH33T4814 (V-001)	12	Haul Road mines	293.60	3,025.50	267.00	15.12
2	MH33T4235 (V-002)	12	Bottom mines	179.10	1,796.60	169.00	99.40
3	MH33T4318 (V-003)	12	Top Mines	242.00	2,603.00	229.00	73.71
4	OD09G4599 (V-004)	12	PP & Central Hill	307.20	3,140.20	294.00	12.59
5	MH33T5549 (V-005)	12	Top Mines	363.90	3,549.40	317.00	17.70
6	MH33T5551 (V-006)	12	LMV & R.Road	353.20	3,717.90	463.00	15.66
7	AP39TE0721(V-007)	12	Haul Road (S Bend)	292.40	2,776.20	325.00	15.52
8	JH02BD9097 (V-009)	12	Bottom & M.Road	342.20	1,366.10	404.00	8.90
Total				**2,373.60**	**21,974.90**	**2,468.00**	**258.60**

WATER TANKER RUNNING REPORT MONTH OF FEBRUARY - 2025

S.No	Equipment Number	Capacity (KL)	Location	Running Hrs	Kms	Trips	Breakdown Hrs
1	MH33T4814 (V-001)	12	Haul Road mines	320.00	3,097.60	314.00	11.16
2	MH33T4235 (V-002)	12	Bottom mines	319.90	2,923.70	337.00	10.36
3	MH33T4318 (V-003)	12	Top Mines	397.10	3,961.60	348.00	9.02
4	OD09G4599 (V-004)	12	PP & Central Hill	305.50	2,654.50	243.00	8.80
5	MH33T5549 (V-005)	12	Top Mines	-	-	-	
6	MH33T5551 (V-006)	12	LMV & R.Road	302.40	2,902.60	385.00	10.52
7	AP39TE0721(V-007)	12	Haul Road (S Bend)	282.10	2,625.90	269.00	16.68
8	JH02BD9097 (V-009)	12	Bottom & M.Road	314.20	1,227.20	352.00	7.16
Total				**2,241.20**	**19,393.10**	**2,248.00**	**73.70**

Note: *MH33T5549 (V-005) sent for major maintenance work

The Mobile tanker covers the haul road distance of approx. 10 KM and trip /hr .

10. PP should submit water level readings of the well in the surrounding villages.

PP is carrying the water level monitoring of the wells in the surrounding villages, the year wise fluctuation is mentioned in the following Table:

Table 8
Water Level in M (BGL)

S.No	Location Code	Name of location	Type of Well	Pre-Monso	Post Monso	Pre-Monso	Post Monso	Fluctuation	Fluctuation

	Year wise fluctuations of the ground water levels in the surrounding wells and season wise data should also be furnished.				on (May /Jun, 2023)	on Sep/Oct, 2023)	on (May /Jun, 2024)	on Sep/Oct, 2024)	(Pre-monsoon)	(Post-monsoon)
		1	GW - 01	Hedri village	Open Well	4.4	1.2	4.0	1.8	0.4	-0.6
		2	GW - 02	Parsalgondi village	Open Well	6.2	3.0	5.9	3.1	0.3	-0.1
		3	GW - 03	Bande Village	Open Well	9.0	4.2	7.7	4.6	1.3	-0.4
		4	GW - 04	Nagulwadi village	Open Well	3.3	1.2	3.2	1.2	0.1	-0.1
		5	GW - 05	Petha village	Open Well	4.8	2.0	4.2	1.5	0.6	0.5
		6	GW - 06	Todsa village	Open Well	3.0	1.5	2.9	1.3	0.1	0.2
		7	GW - 07	Nender village	Open Well	3.8	2.4	3.4	2.5	0.4	-0.1
		8	GW - 08	Surjagarh Village	Open Well	4.8	1.0	4.5	1.1	0.3	-0.1
		9	GW - 09	Pursalgondi village	Open Well	4.7	1.7	4.4	1.7	0.3	0.0
		10	GW - 10	Manger village	Open	5.7	2.2	4.9	3.0	0.8	-0.9

				Well						
		11	GW - 11	Thumargunda Village	Open Well	5.1	1.7	5.1	1.8	0.0	-0.2
		12	GW - 12	Ekra Village	Open Well	5.2	1.5	4.9	1.9	0.3	-0.4

1 1.	PP should submit the current status of the ongoing court cases related to their project along with affidavits filed by them. PP should submit an undertaking stating that there is no stay by any court of law regarding the grant/processing of EC application or the already granted ToR with respect to the instant project	The current status of court cases is as follows:

Sl. No.	Case No.	Type	Court	Court Orders (Status)	Next date of Hearing
1	6 of 2023 Samarajit Chattarjii Vs Union of India and others	PIL	Bombay High Court, Nagpur Bench	07.05.2025: All parties closed their respective arguments and will submit the short notes of arguments.	09.05.2025: Court will evaluate the arguments and will close the case for final order.
2	10 of 2025 Vishesh Bhatpalliwar & one Vs Union of India and others	PIL	Bombay High Court, Nagpur Bench	07.05.2025: All parties closed their respective arguments and will submit the short notes of arguments.	09.05.2025: Court will evaluate the arguments and will close the case for final order.
3	19 of 2023 Prakruti Foundation Vs Union of India and other	PIL	Bombay High Court, Nagpur Bench	08.04.2025: The MoEF counsel informed Court that the approval for additional tree felling shall be approved subject to the CA Land Notification and Name	After vacation of court

					Change of the project proponent. State Counsel informed that the enquiry report shall be produced before the Court.	
		4	14 of 2024 Bramhanand Tiwari Vs Lloyds and other	OA	NGT, Western Zone, Pune	27.09.2024: The Tribunal dismissed the application in lack of satisfactory evidence against the allegations levelled by the applicant	Dismissed On 27.09.2024
		Further, the affidavits filed by them in regard to the above along with the undertaking by LMEL stating that there is no stay by any court of law regarding the grant/ processing of EC application or the already granted ToR with respect to the instant project is annexed.					

xviii. PP has submitted point wise reply of recommendation of sub-committee was raised during site visit held on 08-10th April 2025:

S.No	EAC Recommendation during site visit	PP reply
1.1	Bhamragarh Reserve Forest along with other forest areas in the district is a part of larger continuous forest landscape in the state of Maharashtra and Chhattisgarh that helps in maintaining long term integrity of forest ecosystems and dispersal of wild animals across the landscape. Given the ecological sensitivity of the	Understanding the ecological sensitivity of the Bhamragarh Reserve Forest, LMEL committed in letter and sprit to implement the approved wildlife conservation plan in consultation with the Forest dept. and the status of implementation are as follows w.r.t Site specific measures: 1. Implemented solar fencing of 3000 m in and around the mine working areas and planned to complete the remaining works in phased manner as mine develops. 2. Installed 2 nos. of wildlife surveillance thermal cameras, 64 nos. of cameras (IP

	Bhamragarh Reserve Forest, the PP shall implement recommendations of the wildlife Conservation Plan in letter and spirit in consultation with the Forest Department. Periodic monitoring of flora and fauna should be continued in the 10 km radius of the project. Compliance report of the same may be submitted to MoEF&CC Regional Office, Nagpur along-with six monthly compliance report as stipulated in the Environmental Clearance.	Camera – 57, PTZ Camera – 7) for monitoring of movements of wild animals in & around the project area 3. Soil Moisture conservation (SMC) is being carried by LMEL in and around the ML area as a part of run off management like augmentation of catch drain/ garland drains, check weirs, settling pits, and de-siltation works etc. before each monsoon at the strategic locations. 4. Awareness program on the movement of animals on roads, forest fire prevention, sensitization of truck drivers about the precautions to be taken while driving through the transportation routes to prevent accidents and road kills. Further, wildlife week, forest day, environment day, etc. are being organized. The annual awareness calendar on Environment, Forest and Wildlife for FY 2025-26 is prepared by LMEL and the same is being observed. LMEL is being following-up with State Forest & Wildlife Dept for implementation of activities in buffer zone as per approved SWLMP and the progress is as follows: Out of the total available provisions of Rs. 683.5 Lakhs; Rs. 562.47 Lakhs is spent by DCF, Bhamragarh in buffer zone of the Surjagarh Mines in last 2 years; • Rs. 234.2 Lakhs in FY 2023-24 & • Rs. 328.27 lakhs in FY 2024-25 Total = Rs. 562.47 Lakhs Further based on Wildlife (Protection) Amendment Act, 2022, the wildlife management plan is revised and approved by PCCF (WL), Nagpur dt. 28/03/2025 with a total amount of Rs. 955.50 Lakhs (Inc. above) for buffer zone. LMEL has spent more than Rs. 175.14 Lakhs against the budget of Rs. 143.20 lakhs (within 2 years), out of Rs. 229 Lakhs (10 years) within ML area. Besides, an amount of Rs. 481.91 lakhs is spent towards the SMC works as a part

		of EMP works of the mines within 2-3 years period. LMEL is monitoring the flora and fauna in 10 Km radius for the project from time to time with data collection while preparing the EIA & EMP and SWLMP. Further as suggested it is committed to conduct the periodic monitoring of the same. LMEL is committed to submit the implementation status of SWLMP to RO, MoEF&CC and latest submission is dt. 01/05/2025 as a part of six monthly EC compliance report for the period Oct'24 to Mar' 25.
1.2	PP needs to carry out Biodiversity survey using systematic sampling on species diversity, abundance, and habitat quality. Continuous monitoring helps detect changes in populations, habitat degradation, and invasive species.	LMEL committed to conduct the biodiversity survey by engaging the wildlife experts on a seasonal & regular basis by adopting systematic samplings on species diversity, abundance, habitat quality etc. Further, LMEL also commits to carry out continuous monitoring. In this regard, LMEL has designed the systematic survey methodology as per the standards and identified the resources required for the same, say; • Human resource – Besides having the existing Wildlife experts additional 2 more Research fellows already recruited. • Equipment like Binoculars, GPS, Range finder, Cameras & Trap cameras already exists and further purchase order placed for addl. 20 Nos of Trap cameras. • Besides the above under 1.1 & 1.2, LMEL further strengthening its commitment towards the wildlife welfare • Establishment of Animal Transit treatment Centre (TTC): • In consultation with the Dy.C.F, Allapalli Forest Division, site for Transit Treatment Centre (TTC) at Ghot for the injured and orphaned wild animals has been identified and execution work has been initiated. • This TTC, will function through an "Heritage Conservation Society" NGO under the aegis

		of the State Forest Dept. and will cater to need for the entire Gadchiroli dist. • A site visit was conducted with ACF (Wildlife), Allapalli, Ghot Range Forest Officer and accompanied by LMEL & NGO, Nagpur and location was earmarked for TTC. In the interim, the existing building at Ghot Range will be used. The MoU for land allocation has been submitted to the DyCF, Allapalli, and construction will be commenced. • Wildlife and Forest Management initiatives in Gadchiroli District, under CSR support for community outreach and Education in association with State Forest & Wildlife Dept. of Chaprala and Bhamragad Wildlife Sanctuary. • Apart from SWLMP Budget, LMEL has ear marked the budget of Rs. 10.0 Crores towards different animal welfare schemes.
1.3	The PP shall prepare a phased mine closure plan with timelines, including progressive reclamation of mined-out areas, plantation with native species, stabilization of waste dumps, and post-mining land use. This plan should be updated periodically and monitored by an independent agency.	• LMEL has prepared the Modification of Mining plan along with the Progressive Mine closure Plan (PMCP) and approved by the IBM, Nagpur Vide No. MCDR-GAD0FE/8/2023-NR-IBM RO NR dated 14/06/2024 with incorporation of details as prescribed. • And the same procedure will be followed for subsequent review periods and approval from IBM. • LMEL will ensure the periodical monitoring of the PMCP -implementation by engaging a national repute mining institute/ agency as suggested. (Inquiry has been sent to IIT(ISM) Dhanbad, CIMFR,VNIT (Nagpur), etc) • Further, the Final mine closure plan (FMCP) will be prepared & approved by IBM, GoI i.e. 2 years before the closure of mines (i.e. for the year 2055-57 as per Rule 24 of the MCDR Rule, 2017).
1.4	The PP must complete the slurry pipeline infrastructure within the	LMEL is committed to operationalize the Slurry Pipeline infrastructure before Mar'2026 as per schedule submitted. Further, LMEL has

	timeframe to reduce dependency on road transport and minimize dust, spillage, and traffic congestion. Until such infrastructure is operational, enhanced monitoring and road maintenance must be ensured	implemented to minimize the dust, spillage, and traffic congestion in addition to ongoing control measures like; • Proper loading and unloading: o Ensuring the loading pattern less than the deck height and levelling across the body of the transportation trucks. o Ensuring the proper loading and unloading procedures to prevent spills i.e. at weigh bridge meant for ILMS (Integrated Logistics Management System of State Govt.), which will ensure there is no excess loading of materials. • Tarpaulin Covered transportation: Usage of tarpaulin covered trucks while transportation of ore to avoid spillage. • Spillage arrestor: The rubber sponge type gap arrestor installed at the tailgate end of truck to arrest the spillage of ore. • Wheel washing unit: A wheel washing unit has been installed at the mine entrance /exit gate to clean vehicle wheels before leaving the site, reducing the spillage on the roads. • Road sweeping machine: Regular usage of road sweep machines to clean the road near the mines area. • Vehicle maintenance: Regularly inspect and maintain transportation vehicles and equipment to prevent leaks or spills. • Training and monitoring: Providing training to drivers and personnel on spill prevention and response, and monitor transportation activities to ensure compliance. • LMEL is committed to ensure the enhancement of above monitoring and maintenance with the following additional activities like; • Deployment of dedicated traffic management & Road maintenance team headed by Sr. Executive. • Provision of In-house road maintenance infrastructure.

1.5	Although filtered tailings and water recycling were noted, the PP should develop a comprehensive water balance and risk assessment plan, ensuring no discharge from lease boundary and contingency arrangements during monsoon or TSF overflow situations	Presently, BHQ Beneficiation - Pilot Plant with capacity of 5.0 TPH is located within the Surjagarh mine lease area. LMEL has ensured and developed the Risk assessment and water balance in terms of the filtered tailings and recycling of water. Further, LMEL has developed a contingency plan to ensure no overflow of TSF from lease boundary during monsoon from the pilot plant. Water Balance Summary • Plant requires water for grinding, classification, magnetic separation, floatation, and tailings handling. • The plant is equipped with a high-efficiency thickener that recovers process water from the tailings slurry. • A filter press is used to dewater the tailings further, enabling recovery of additional water. 90% of the total process water back into the circuit. • Freshwater is used primarily to compensate for Moisture losses, Evaporation losses and Occasional wash water and housekeeping requirements • The plant operates as a closed-loop system, where no industrial effluent or tailings water is discharged outside the lease boundary. • All water, including stormwater and process water, is either recycled or directed to Stormwater holding pond • The dry stacking of tailings ensures minimal water loss to seepage or runoff, supporting LMEL's Zero Liquid Discharge (ZLD) commitment.
1.6	The existing CSR initiatives (hospital, school, skill development) are commendable. The PP should scale these programs based on community needs assessments, especially in tribal-dominated areas,	• LMEL acknowledges & appreciates on the observation of the sub-committee and committed towards the sustainable development of the local community. • LMEL committed to explore the scaling of the programs based on the need base assessment done by a third party and implement it in a phased manner in tribal dominated areas.

	and consider third-party social audits to improve outreach and effectiveness	• And LMEL ensures to engage with a national repute independent third-party institute to conduct the social audits to improve the outreach and effectiveness of the CSR programs. - In this regard, LMEL will be associating with XLRI, Jamshedpur and Metapram (NGO), Gurugram.
1.7	The PP should carry out regular geotechnical and stability studies of waste dumps, especially during monsoon, and enhance slope protection measures.	• LMEL has already carried the Slope Stability study by engaging the National Institute of Rock Mechanics (NIRM), Bangalore and will follow the recommendations towards its implementation during expansion phase also. • As suggested, LMEL ensures to carry out regular Geotechnical and Slope stability studies during the monsoon season and will ensure the implementation of recommended slope protection measures from time to time. (Inquiry has been sent to NIRM (Bangalore), CIMFR & IIT(ISM) Dhanbad, VNIT (Nagpur),etc)
1.8	Continuous real-time air quality monitoring should be operational at sensitive receptors and within the lease area. Additionally, the effectiveness of dust suppression, systems (like fogging/misting) should be audited regularly with scope of augmentation.	• LMEL has already installed the 3 nos. of real-time air quality monitoring stations at different locations i.e. within mines & sensitive receptors like village Hedri and Bande and it is working continuously. • Presently, LMEL is practicing dust suppression systems like - Installed 3100-meter length fixed sprinkling system, - 12 nos. of fogging/mist cannons, - 9 nos. of mobile water tankers, - Dry fog system in mineral handling plants etc. • LMEL ensures the regular audit by engaging a national repute institute / Agency on effectiveness of the dust suppression & fogging system and to augment accordingly. (Inquiry has been sent to IIT(ISM) Dhanbad, IIT (Kharagpur), etc)
1.9	Being located in a forested zone, the PP shall	• As advised, LMEL will further strengthen our coordination with State Forest and Wildlife

<table>
<tr><td></td><td>coordinate with the State Forest and Wildlife Department to assess potential wildlife corridors, minimize night-time transport, and install appropriate wildlife signage, where necessary.</td><td>department and follow their guidelines from time to time.
• LMEL is committed to commissioning mineral transportation using slurry pipeline of 10 MTPA capacity in a time bound manner to minimize the road impact.
• As suggested, LMEL committed to co-ordinate with state forest and Wild life Department to assess the potential wildlife crossings and by regulating to minimize the night time transport.
• LMEL will ensure to augment to installation of wildlife signage.
<table><tr><th>Sl.No</th><th>Stretch of Roads</th><th>No. of Signage installed</th></tr><tr><td>1</td><td>Etapalli to Allapalli</td><td>15</td></tr><tr><td>2</td><td>Allapalli to Lagam</td><td>15</td></tr><tr><td>3</td><td>Lagam to Ashti (Chaprala WLS)</td><td>22</td></tr><tr><td>4</td><td>Yelchil to Kamancheru</td><td>9</td></tr><tr><td>5</td><td>Ashti to Chamorshi</td><td>4</td></tr><tr><td colspan="2">Total</td><td>65</td></tr></table></td></tr>
<tr><td>1.10</td><td>The PP shall expand the Skill Development Centre’s curriculum to include training in mining safety, environmental stewardship, and renewable energy and also establish mechanisms for employment tracking and skill upgradation of locals over time.</td><td>• LMEL already providing the Mining safety as part of Skill development center curriculum, the detailed are HEMM Technicians, Driving (LMV & HMV), Welder, Electrician, Computer operator, Firefighting, Tyre Fitter, Mason works, Housekeeping, Catering etc.
• As suggested , LMEL ensures to include training on:
• Safety stewardship,
• Environmental stewardship,
• Collection on non-timber forest produce (NTFP) and
• Renewable energy.
• LMEL has implemented the HR module (HONO)/SAP/GATE HR software base system/ mechanism to track the locals already got engaged and their skill upgradation.</td></tr>
</table>

		• Besides the above, LMEL ensures to develop the mechanism for skill upgradation and their employment tracking of the locals.

xix. Details of the Environmental Management Plan (EMP):

Sl. No.	Particulars	Capital cost (Rs. In Lakhs)	Annual Recurring Cost per annum (Rs. In Lakhs/annum)
1	Pollution Control		
	A. Water Pollution Control	2,000.00	34.85
	B. Air Pollution Control	500.00	200.00
	C. Solid Waste Management	1,000.00	81.10
2	Occupational Safety & Health	30.00	27.11
3	Green Belt development	-	60.20
4	Wildlife conservation & management	25.00	50.00
5	Pollution Monitoring*, Laboratory	-	29.00
6	Rainwater Harvesting, Awareness, others	30.00	25.00
7	Monitoring Instruments	81.50	34.70
Cost for Environmental Protection Measures (in Rs. Lakhs)		3,666.50	541.96
EMP Cost for CER** (including PH commitments and additional CER)		10656.55	-
Total EMP cost (in Rs. Lakhs) (A+B)		14323.05	541.96

*Environmental monitoring will be outsourced to accredited external laboratories and reputed agency/institutions.

** Cost towards PH commitments to be spent in 3 years

xx. Details of project cost and employment:

Particulars	(Rs. In Crore)
Total cost of EMP (Capital Cost of EMP + capital cost of Public hearing)	Rs.143.2305 Crores
Project Cost	Rs. 1349.3 Crore (Total capital cost of the project is Rs. 1713.58 Crore including existing project cost)
Employment (No.s)	6000 direct and indirect)

3. Observation and Recommendations of the Committee:

The instant proposal is for expansion of Iron Ore production capacity from 10 to 26 MTPA Hematite, 45 MTPA BHQ (Banded Hematite Quartzite), 5 MTPA waste (Total Excavation 60.0 MTPA) along with crushing and screening plant (Primary crushing plants -3 x 3000 TPH Gyratory crusher, 1 x700 TPH Jaw crusher, 1 x 350 TPH Jaw crusher, 5 x 250 TPH Jaw crusher, Secondary crushing plants: 12 x 625 TPH Cone crusher, 1 x700 TPH Cone crusher, 1 x 350 TPH Cone crusher, 5 x 250 TPH cone crusher, Screening plants : 12x 625 TPH Screen plant, 5 x 900 TPH Screen plant, 3 x 400 TPH Screen plant, 2 x 250 TPH Screen plant) in the Surjagarh Iron Ore Mine lease area of 348.09 Ha by M/s Lloyds Metals & Energy Ltd located near village Surjagarh, Tehsil Etapali, District Gadchiroli, Maharashtra.

The project falls under Category "A" as per the Schedule of the EIA Notification, 2006 since the mine lease area is more than 250 ha and accordingly appraised at Central Level.

The Project Proponent has presented the proposal and explained the key-site features through a KML file, highlighting the presence of water bodies within the study area. PP informed the committee that the nearest water body is Bande River located at a distance of 1.75 km in west direction while the Kappe Nallah lies around 2.95 km to the north. PP also mentioned that there are no eco-sensitive areas within 10 km from the ML boundary. PP also mentioned entire ML area of 348.09 ha is a forestland and FC stage-II was obtained vide letter number F. No. 8-31/2005-FC dated 23/03/2007.

As per the instruction of EAC in the 41st meeting dated 27.02.2025, a sub-committee of EAC has conducted site visit of the project site on 09.04.2025 and has suggested additional Conditions/Recommendations that the PP needed to comply. Committee also noted that issues raised by RO Nagpur, MoEFCC in the Certified Compliance report has been addressed by PP. PP has submitted point wise reply vide letter dated 05.05.2025 against the ADS raised on 20.03.2025 along with the action taken report on the recommendations of the sub-committee in 43rd EAC meeting dated 22-23rd April, 2025 for site inspection report. Committee deliberated on the compliance of recommendations of a sub-committee that conducted a site visit to the project.

PP reported that there are three pending court cases against them as per the details given as under:-

a) PIL No. 06/2023 – Samarjeet Chatterjee vs. Union of India & Ors. - This case is in Hon'ble High Court of Judicature at Bombay, Nagpur Bench. This Public Interest Litigation (PIL) has been filed against M/s Lloyds Metals and Energy Pvt. Ltd., alleging that the company increased its iron ore mining capacity from 3 MTPA to 10 MTPA in Village Surjagarh (Wooria Hill), Tehsil Etapalli, District Gadchiroli, Maharashtra. The matter is subjudice as per the record available on the website of Hon'ble Bombay High Court.

b) PIL No. 19/2023 – Prakruti Foundation vs. Union of India & Ors. - This case is in Hon'ble High Court of Judicature at Bombay, Nagpur Bench. This case is also currently pending consideration.
c) Original Application No. 14/2024 – Bramhanand Tiwari vs. Collector, Gadchiroli & Ors. This case is in Hon'ble National Green Tribunal (Western Zone), Pune. This matter is dismissed on 27.09.2024
d) PIL No. 10/2025 – Vishesh Bhatpalliwar & Another vs. Union of India & Ors. - This case is in Hon'ble High Court of Judicature at Bombay, Nagpur Bench. The matter is subjudice as per the record available on the website of Hon'ble Bombay High Court.

The Committee noted the ongoing legal proceedings and reiterated the importance of strict adherence to all applicable environmental regulations. It emphasized that the project proponent must comply fully with the prescribed environmental guidelines and safeguards.

PP submitted that 45 MTPA BHQ ore will be transported by the overland belt conveyer (OLBC) system for further beneficiation at the proposed beneficiation plant at Hedri located at a distance of 3.5 Km approx. from the mine site. EAC noted the submission of the PP and enquired about details and timelines for the installation of OLBC and slurry pipeline. PP submitted to complete the construction and commissioning of the Overland Belt Conveyor (OLBC) within 12 months from the date of obtaining all requisite statutory clearances (expected by June 2026). Additionally, the PP has informed that a 90km slurry pipeline with a capacity of 10 MTPA is scheduled to be completed before March 2026 tentatively. The slurry pipeline of 90 km shall connect the Hedri Beneficiation plan with the Konsari Steel Plant. EAC noted the submission of PP and enquired about the proposed Beneficiation plant of 45 MTPA BHQ. PP reported that that they have obtained ToR from SEAC/SEIAA, Maharashtra for construction of beneficiation plant and public hearing has been completed on 28.01.2025. PP also mentioned that they have submitted the application for EC at SEIAA Maharasthra vide proposal no. SIA/MH/IND1/535283/2025.

With regard to the land requirement for OLBC, PP mentioned that Stage I Forest Clearance over 19.227ha has been obtained for the complete installation of OLBC and it shall be completed by June 2026. PP also mentioned that BHQ produced in the initial period shall be stacked at the BHQ storage area as per the approved mining plan. PP further informed that transported iron ore will be utilized at PP's own pellet plant (2*4 MTPA) located at Konsari and sponge plants located at Ghughus. PP also informed that they have applied for EC for integrated steel plant having a capacity of 4.5 MTPA at Konsari. PP also reiterated that in the FY 2025 -26 they will excavate 26 MTPA hematite and 14 MTPA of BHQ. BHQ shall be stored at the storage area of 45.40 ha within the ML area as per approved mining plan.

Regarding biodiversity conservation, the PP stated that biodiversity surveys have been conducted regularly across seasons by engaging wildlife experts, including the Range Forest Officer from Allapalli and Ghot (Nagpur). These surveys adopted systematic sampling methods to assess species diversity, abundance, and habitat quality.

The PP further mentioned that wildlife and forest management initiatives are being undertaken in the Gadchiroli District as part of its Corporate Social Responsibility (CSR) efforts. These initiatives include community outreach and environmental education programs in collaboration with the State Forest and Wildlife Department, specifically targeting the Chaprala and Bhamragad Wildlife Sanctuaries. PP has earmarked the budget of Rs. 10.0 Crores towards different animal welfare schemes apart from budget allocated for Site-Wide Landscape Management Plan (SWLMP).

It was noted that drains, siltation ponds, walls have been constructed in the project area for preventing silt flow outside. The PP has submitted a detailed plan outlining the sections of the Garland Drains, Catch Drains, Siltation Ponds, and Gabion Structures that will be constructed within the Mining Lease (ML) area in future. A total of 31,000 meters of Garland and Catch Drains were planned, of which 25,000 meters have already been constructed, and 6,000 meters are proposed. The plan also includes 24 Settling Pits with a total capacity of 4,39,000 cubic meters, out of which 3,50,000 cubic meters currently exist, and 89,000 cubic meters are proposed. Additionally, a total of 2,100 meters of Gabion Box Wall has been constructed, with an additional 700 meters proposed. Similarly, of the planned 3,700 meters of Retaining RCC Wall, 3,000 meters are already in place, and 700 meters are proposed. Furthermore, nine (09) harvesting-cum-siltation ponds are included in the plan, with seven (07) already constructed and two (02) proposed.

The PP has acknowledged the ecological sensitivity of the Bhamragarh Reserve Forest and expressed its willingness to implement the approved wildlife conservation measures in consultation with the Forest Department.

The PP also informed that 3,000 meters of solar fencing have already been installed around the mine working areas, and the remaining segments will be completed in a phased manner as the mine progresses. For wildlife monitoring, two (2) thermal surveillance cameras and 64 other cameras (comprising 57 IP Cameras and 7 PTZ Cameras) have been installed to track the movement of wild animals in and around the project site. In addition, awareness programs have been conducted, with an expenditure of ₹47.50 lakhs incurred towards these initiatives.

The PP also reported that the Wildlife Management Plan has been revised and approved by the Principal Chief Conservator of Forests (Wildlife), Nagpur, vide letter dated 28.03.2025, with a total outlay of ₹955.50 lakhs for activities in the buffer zone.

Additionally, the PP informed that more than ₹175.14 lakhs has already been spent within two years against the approved budget of ₹143.20 lakhs, under the ₹229 lakhs allocation for a 10-year period within the Mining Lease (ML) area. Furthermore, an amount of ₹481.91 lakhs has been spent on Soil and Moisture Conservation (SMC) works as part of the Environmental Management Plan (EMP) of the mine over the past 2–3 years.

The Project Proponent (PP) stated that a biodiversity survey has been conducted by engaging wildlife experts, including the Range Forest Officer from Allapalli and Ghot, Nagpur. The survey was carried out on a seasonal and regular basis using systematic sampling methods to assess species diversity, abundance, and habitat quality. The PP further mentioned that wildlife and forest management initiatives are being implemented in Gadchiroli District as part of their Corporate Social Responsibility (CSR) activities. These efforts focus on community outreach and environmental education, in collaboration with the State Forest and Wildlife Department of Chaprala and Bhamragad Wildlife Sanctuaries. PP has proposed an additional amount of ₹10.0 crores has been earmarked for various animal welfare schemes.

EAC noted that in the approved mining plan by IBM dated 14.06.2024 the mineral reserve (proved+probable) has been shown as 577.495 Million tonnes. Whereas the remaining resources has been shown as 279.276 Million tonnes. PP explained that BHQ in remaining resources with grade of Fe i.e. 32.92% has also been considered as mineable reserve.

PP submitted that they engaged Tata Steel Industrial Consultancy (TSIC), Jamshedpur for monitoring of the exploration and estimate resources. In this connection, the Beneficiation studies were conducted by the IBM's Ore Dressing Division and IMMT, Bhubaneswar. Additionally, PP has informed that they performed a pilot-scale study at the International Prana Graf Mintech Research Centre (IGMRC) in Bhubaneswar to demonstrate the techno commercial viability of the beneficiation process. According to the Threshold Value Notification and MEMC Rules 2015, the geological resources at Surjagarh Iron Ore Mines have been calculated to include 155.54 million tons of hematite iron ore and 701.23 million tons of banded hematite quartzite (BHQ), totaling 856.77 million tons of iron ore as on 1st December 2023. PP informed that the resources have been verified and certified by the Geological Survey of India, Ministry of Mines, Government of India, and subsequently approved by the Indian Bureau of Mines vide letter no. MCDR-GAD-FE/8/2023 NR-IBM RO NR, dated 14.06.2024.

PP submitted that they have kept the development of a nursery in the provision of activities to be taken up under Management plan on Wildlife and it has been mentioned in EIA-EMP of the project.

The PP also informed that the modification of the Mining Plan, along with the Progressive Mine Closure Plan (PMCP), has been approved by the Indian Bureau of Mines (IBM), Nagpur, vide letter no. MCDR-GAD0FE/8/2023-NR-IBM RO NR dated 14.06.2024. It was stated that the Final Mine Closure Plan (FMCP) will be prepared and submitted to IBM for approval two years prior to mine closure, in accordance with Rule 24 of the MCDR, 2017. The projected closure period is between 2055 and 2057.

During the meeting, the Committee also deliberated on a complaint dated 07.03.2025 regarding alleged irregularities in the proposal for the expansion of iron ore production capacity at the Surjagarh Iron Ore Mine of M/s Lloyds Metals & Energy Ltd. The Committee reviewed the detailed response submitted by the PP on the complaint on 12.05.2025. After examining the matter, the Committee observed that there was no evidence of irregularities in the expansion proposal. It was noted that ToR has been issued to the project following the procedures under EIA notification 2006. Committee found no merit in the allegations made in the complaint submitted by Shri Chitta Ranjan Sahu dated 07.03.2025.

Based on the submissions made by the Project Proponent (PP), the Expert Appraisal Committee (EAC) concluded that the PP intends to do the mining in consonance with the Mining Plan approved by IBM considering 2025-26 of mine plan as 1st year [ROM ore – 40115279 tonnes, Waste Quantity – 4996242 tonnes and Total Handling – 45111521 tonnes). However, the PP currently lacks the necessary infrastructure to utilize the mined ore, as the Overland Belt Conveyor (OLBC), slurry pipeline, and beneficiation plant are yet to be constructed. According to the PP's submission, the Environmental Clearance (EC) for the proposed beneficiation plant has been applied but not yet been obtained. Furthermore, the slurry pipeline is expected to be completed by March 2026, and the OLBC by June 2026. It is therefore evident that, if mining proceeds as per the approved mining plan, a substantial quantity of ROM may be stored within the designated storage area of 45.40 hectares which may require additional protection measures. The EAC reiterated that the production, transportation and utilization of the mined ore are dependent on several factors, including the completion of the slurry pipeline, beneficiation plant, integrated steel plant, and OLBC. Peak production may be allowed once the associated infrastructure is completed.

Based on the above discussions and presentation made by the Project Proponent and the Consultant, the EAC in its 44th EAC meeting held during 15-16th May 2025 **recommended** the proposal for expansion of Iron Ore production capacity from 10 to 26 MTPA Hematite, 45 MTPA BHQ (Banded Hematite Quartzite), 5 MTPA waste (Total Excavation 60.0 MTPA) along with crushing and screening plant (Primary crushing plants -3 x 3000 TPH Gyratory crusher, 1 x700 TPH Jaw crusher, 1 x 350 TPH Jaw crusher, 5 x 250 TPH Jaw crusher, Secondary crushing plants: 12 x 625 TPH Cone crusher, 1 x700 TPH Cone crusher, 1 x 350 TPH Cone crusher, 5 x 250 TPH cone crusher, Screening plants : 12x 625 TPH Screen plant, 5 x 900 TPH Screen

plant, 3 x 400 TPH Screen plant, 2 x 250 TPH Screen plant) in the Surjagarh Iron Ore Mine lease area of 348.09 Ha by M/s. Lloyds Metals & Energy Ltd located near village Surjagarh, Tehsil Etapali, District Gadchiroli, Maharashtra subject to certain specific conditions in addition to the existing standard condition applicable for Non-coal mining projects.

Signature Not Verified

Digitally Signed by : Rajeev Ranjan
Member Secretary, MoEFCC (EC)

Date: 25/06/2025