

MAHARASHTRA POLLUTION CONTROL BOARD

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RED/L.S.I (R35)
No:- Format1.0/CAC/UAN No.MPCB-
CONSENT-0000188508/CR/2403003071

Date: 28/03/2024

To,
M/s. Llyods Metals and Energy Limited,
Surjagarh Iron Ore Mine,
Compartment No. 197, 198, 199, 227 & 228,
Village-Surjagarh, Tal. Etapalli, Dist-Gadchiroli.



Sub: Grant of renewal of consent to operate for Iron Ore mining activity under RED Category.

- Ref:**
1. Consent to operate for Iron Ore:10 MTPA granted by Board vide No. Format1.0/CAC/UAN No.MPCB-CONSENT-0000160530/CO/2303000656 dated 10/03/2023 valid up to 31/03/2024.
 2. Environmental Clearance granted by MoEF & CC, Gol for expansion project of Sujagarh Iron Ore Mine from 3.0 MTPA to 10 MTPA vide No.J-11015/348/2005.IA.II(M) dated 24th Feb,2023.
 3. Environmental Clearance granted by Ministry of Environment & Forest, Gol for existing mine project for 3.0 MTPA, vide No. J-11015/348/2005-IA.II(M) dtd. 29/05/2006 &07.02.2007.
 4. Minutes of Consent Appraisal Committee (CAC) meeting held on 16.02.2024

Your application No.MPCB-CONSENT-0000188508 Dated 23.11.2023

For: Grant of Consent to Operate under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 6 and Rule 18(7) of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules 2016 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

1. **The consent to renewal is granted for a period up to 31/03/2029**
2. **The capital investment of the project is Rs.368.5806 Crs. (As per C.A Certificate submitted by industry Existing C.I. of Rs. 364.28 Crs + Increase in C.I. of Rs. 4.3006 Crs)**
3. **Consent is valid for the manufacture of:**

| Sr No | Product | Maximum Quantity | UOM |
|----------|---|------------------|------|
| Products | | | |
| 1 | Iron Ore mining over lease area of 348.09 Ha. | 10 | MTPA |

4. **Conditions under Water (P&CP), 1974 Act for discharge of effluent:**

| Sr No | Description | Permitted (in CMD) | Standards to | Disposal Path |
|-------|-------------------|--------------------|-------------------|--|
| 1. | Trade effluent | 797 | As per Schedule-I | Recycle for vehicle washing, dust suppression and on land for gardening/plantation in premises |
| 2. | Domestic effluent | 105 | As per Schedule-I | Recycle for dust suppression and on land for gardening/plantation in premises |

5. **Conditions under Air (P& CP) Act, 1981 for air emissions:**

| Sr No. | Stack No. | Description of stack / source | Number of Stack | Standards to be achieved |
|--------|-----------|-------------------------------|-----------------|--------------------------|
| 1 | 0 | 0 | 0 | As per Schedule -II |

6. **Non-Hazardous Wastes:**

| Sr No | Type of Waste | Quantity | UoM | Treatment | Disposal |
|-------|---------------|----------|------|--------------------------------|--------------------------------------|
| 1 | Over Burden | 431200 | MT/A | Placed at earmarked Area as OB | Back filling and reclamation of land |

7. **Conditions under Hazardous & Other Wastes (M & T M) Rules 2016 for Collection, Segregation, Storage, Transportation, Treatment and Disposal of hazardous waste:**

| Sr No | Category No./ Type | Quantity | UoM | Treatment | Disposal |
|-------|---|----------|-------|-----------|--------------------------|
| 1 | 5.1 Used or spent oil | 5 | KL/A | Recycle | Sale to authorised party |
| 2 | 35.3 Chemical sludge from waste water treatment | 1.0 | Ton/Y | Landfill | CHWTSDF |

8. The Board reserves the right to review, amend, suspend, revoke etc. this consent and the same shall be binding on the industry.
9. This consent should not be construed as exemption from obtaining necessary NOC/permission from any other Government authorities
10. The industry shall comply with the conditions of the Environmental Clearance granted by MoEF-CC, GoI vide No. J-11015/348/2005-IA.II(M) dtd. 29/05/2006, 07.02.2007 & 24.02.2023.
11. Detailed layout plan for mine and transportation of iron ore outside mine area shall be submitted within one month.
12. PP shall renew the NOC of CGWA for ground water extraction upto 31.03.2029 before the expiry of the validity.
13. PP shall submit the detailed layout plan for mine and transportation of iron ore outside mine area shall be submitted within one month.
14. PP shall submit the Details of HW- 35.3-Chemical sludge from wastewater treatment & Copy of membership of CHWTSDF within month and Bank Guarantee of Rs. 5.0 Lakh towards compliance of the same.

15. As per EC conditions, PP shall provide and operate the bag filter to the Crusher and screen and submit the BG of Rs.10 Lakh towards compliance of same.
16. As per EC conditions, PP shall operate Fog canon/mist spray at various location in mine lease area.
17. Tyre wash system shall be operated effectively at mine entry and exit point.
18. PP shall submit/Extend the BGs as per BG regime of the Mine.
19. The applicant shall obtain Consent to Operate from Maharashtra Pollution Control Board before actual commencement of the Unit/Activity.

Received Consent fee of -

| Sr.No | Amount(Rs.) | Transaction/DR.No. | Date | Transaction Type |
|--------------|--------------------|---------------------------|-------------|-------------------------|
| 1 | 4728560.00 | MPCB-DR-23683 | 09/01/2024 | NEFT |

The balance fees with the Board was Rs.2.0 Crs, as per previous C2R vide UAN-160530 dated 10.03.2023. Considering above fees with balance fees, applicable fees of Rs. 2,37,00,806/- (including fees for enhancement and mining charges) is considered for this application and balance fees of Rs. 16,30,247/- will be considered at the time of next renewal.

Copy to:

1. Regional Officer, MPCB, Chandrapur and Sub-Regional Officer, MPCB, Chandrapur
- They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB, Sion, Mumbai
3. CAC desk - for record & website updation purpose

SCHEDULE-I

Terms & conditions for compliance of Water Pollution Control:

1. A] As per your application, you have proposed to provide Effluent Treatment Plant (ETP) of designed capacity of 15 CMD for treatment of workshop effluent consisting of Raw effluent collection tank-O & G trap-Settling tank-Clarifier-treated effluent tank and SDB. Provided RCC Settling tank of adequate capacity for treatment of mine water.
- B] The Applicant shall operate the effluent treatment plant (ETP) to treat the trade effluent so as to achieve the following standards prescribed by the Board or under EP Act, 1986 and Rules made there under from time to time, whichever is stringent:

| Sr.No | Parameters | Limiting concentration not to exceed in mg/l, except for pH |
|-------|------------------------|---|
| (1) | pH | 5.5 to 9.0 |
| (2) | Oil & Grease | 10 |
| (3) | BOD (3 days 27°C) | 30 |
| (4) | COD | 250 |
| (5) | Total Suspended solids | 100 |
| (6) | Total Dissolved solids | 2100 |
| (7) | Chloride | 600 |
| (8) | Sulphate | 1000 |

- C] The Industry shall ensure connectivity of separate energy meter for pollution control system.
- D] The treated effluent shall be 100% recycled for secondary purposes to the maximum extent and remaining shall be discharged on land for gardening within premise after confirming above standards. In no case, effluent shall find its way to outside factory premises.
2. A] As per your application, you have provided Sewage Treatment Plant of designed capacity 110 CMD for the treatment of 105 CMD of sewage.
- B] The Applicant shall operate the sewage treatment system to treat the sewage so as to achieve the following standards.

| Sr.No | Parameters | Standards (mg/l) | |
|-------|--------------------|------------------|-----|
| 1 | BOD (3 days 27°C) | Not to exceed | 30 |
| 2 | COD | Not to exceed | 100 |
| 3 | SS | Not to exceed | 50 |

- C] The treated sewage shall be recycled for secondary purposes to the maximum extent and remaining shall be discharged on land for gardening within premise after confirming above standards. In no case, sewage shall find its way to outside factory premises.

3. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.
4. The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
5. The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and as amended, by installing water meters and other provisions as contained in the said act:

| Sr. No. | Purpose for water consumed | Water consumption quantity (CMD) |
|----------------|--|---|
| 1. | Industrial Cooling, spraying in mine pits or boiler feed | 1010.00 |
| 2. | Domestic purpose | 135.00 |
| 3. | Processing whereby water gets polluted & pollutants are easily biodegradable | 25.00 |
| 4. | Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic | 0.00 |
| 5. | Gardening | 55 |

6. The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance/ CREP guidelines.

SCHEDULE-II

Terms & conditions for compliance of Air Pollution Control:

1. As per your application, you have provided the Air pollution control (APC) system and erected following stack (s) to observe the following fuel pattern:

| Stack No. | Source | APC System provided/proposed | Stack Height(in mtr) | Type of Fuel | Sulphur Content(in %) | Pollutant | Standard |
|------------------|---------------|-------------------------------------|-----------------------------|---------------------|------------------------------|------------------|-----------------|
| NA | NA | | 0.00 | - | - | NA | - |

2. The Applicant shall provide Specific Air Pollution control equipments as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance / CREP guidelines.
3. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
4. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).
5. Control Equipments
 - a. Iron Ore handling plant shall be provided with dust collector & automatic mist type water sprinkler.

- b. Scientific spraying of water on all working area, dump area, stock piles with the help of appropriate dust suppression system.
- c. Minerals shall be properly covered during transportation.
- d. The applicant shall carry out tree plantation along road side, around dumps or compulsory afforestation as per proposal approved by Forest Department. The tree plantation programme shall be taken up well in advance of the actual mining activity, so that green belt of sufficient width & height is developed between mining area/road and surrounding environment.
- e. Black topped metal roads shall be provided and well maintained to prevent dust formation.
- f. Overloading of dumpers shall be avoided to prevent spillages.
- g. Correct type & quantity of explosive shall be used to avoid excess dust formation & vibration in the surrounding area.
- h. The slope of the over burden shall have slope not more than 28° to the horizontal. The overburden shall be properly covered by vegetation for stabilization.
- i. Minerals transportation shall be done by installing conveyors wherever possible & mechanically covered closed trucks shall be used for transportation.

6. Standards for Ambient Air Pollutants:

The Suspended Particulate Matter (SPM), Respirable Particulate Matter (RPM), Sulphur dioxide (SO₂) and Oxides of Nitrogen (NO_x) concentration in downwind direction considering predominant wind direction, at a distance of 500 metres from the following dust generating sources shall not exceed the standards specified in the table given below:

Dust Generating Sources:

Loading or unloading, Haul Road, coal transportation road, Coal handling plant (CHP), Railway Sliding, Blasting, Drilling, Overburden dumps, or any other dust generating external sources like coke ovens (hard as well as soft), briquette industry, nearby road etc.

| Pollutant | Time weighted average | Concentration in Ambient Air |
|--|------------------------------|-------------------------------------|
| Suspended Particulates Matter (SPM) | Annual Average | 360 µg/m ³ |
| | 24 hours | 500 µg/m ³ |
| Respirable Particulate Matter (size less than 10 µm) (RPM) | Annual Average | 180 µg/m ³ |
| | 24 hours | 250 µg/m ³ |
| Sulphur Dioxide (SO ₂) | Annual Average | 80 µg/m ³ |
| | 24 hours | 120 µg/m ³ |
| Oxides of Nitrogen as NO _x | Annual Average | 80 µg/m ³ |
| | 24 hours | 120 µg/m ³ |

- i. In case of any residential or commercial or industrial place falls within 500 metres of any dust generating sources, the National Ambient Air Quality Standards notified vide MOEFCC GOI notification dtd 16.11.2009 as ammended shall be made applicable.

- ii. The applicant shall provide minimum three ambient air quality monitoring stations within mining area which should be monitored for SPM, RSPM, SO₂, NO_x, HC, CO etc. The Annual Arithmetic Mean of minimum 104 measurements in a year taken twice a week 24 hourly at uniform interval shall conform to the National Ambient Air Quality Standards prescribed under Air (Prevention and Control of Pollution) Act, 1981 and Environment (Protection) Act, 1986. The records of results of monitoring done shall be made available for inspection to the officers of the Board.

7. The applicant shall take adequate measures for control of noise levels from its own sources as follows:

| Sr. No | Location | Permissible Norms [in dB (A)] | Desired minimum thickness of green belt (m) |
|---------------|-----------------------|--------------------------------------|--|
| 1. | Along Road side | 65 (Commercial Area) | 20 |
| 2. | In colonies | 55 (Residential Area) | 20 |
| 3. | Near Opencast Mines | 75 (Industrial Area) | 10 |
| 4. | Near CHPs | 75 | 30 |
| 5. | Near Shaft | 75 | 20 |
| 6. | Near Mine exhaust fan | 75 | > 50 |

8. Other conditions:

- i Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess standards laid down, such information shall be forthwith reported to Board, concerned Police station, office of Directorate of Health services, Dept. of explosives, Inspectorate of Factories & Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.

SCHEDULE-III

Details of Bank Guarantees:

| Sr. No. | Consent (C2E/C2O/C2R) | Amt of BG Imposed | Submission Period | Purpose of BG | Compliance Period | Validity Date |
|----------------|-------------------------------|--------------------------|--------------------------|---|--------------------------|----------------------|
| 1 | Renewal of consent to operate | Rs.2.0 Lakh | 15 days | Regular monitoring of ground water level and quality should be carried out by establishing the network of existing wells and constructing new piezometers during mining operations | Regular Activity | 30.09.2029 |
| 2 | Renewal of consent to operate | Rs.5.0 Lakh | 15 days | Catch drain and siltation ponds of appropriate size should be constructed to arrest silt and sediment flow from soil, OB and mineral dumps. Water so collected should be utilized for watering of the mining area, roads green belt developers etc. | Regular Activity | 30.09.2029 |

| Sr. No | Consent (C2E/C2O/C2R) | Amt of BG Imposed | Submission Period | Purpose of BG | Compliance Period | Validity Date |
|--------|-------------------------------|-------------------|-------------------|--|-------------------|---------------|
| 3 | Renewal of consent to operate | Rs.5.0 Lakh | 15 days | Iron ore transportation shall be done by covered trucks/dumpers. Overloading of trucks/dumpers shall be avoided to prevent spillages. | Regular Activity | 30.09.2029 |
| 4 | Renewal of consent to operate | Rs.10.0 Lakh | 15 days | Bag filter shall be operated of the Iron ore Crusher and screen | Regular Activity | 30.09.2029 |
| 5 | Renewal of consent to operate | Rs.10.0 Lakh | 15 days | PP shall operate 10 Nos. of Fog canon/mist spray at various locations in mine lease area | Regular Activity | 30.09.2029 |
| 6 | Renewal of consent to operate | Rs.5.0 Lakh | 15 days | Tyre wash system shall be operated effectively at mine entry and exit point | Regular Activity | 30.09.2029 |
| 7 | Renewal of consent to operate | Rs.5.0 Lakh | 15 days | Convert existing water sprinkling arrangement into chemical fogging arrangement (MgCl2) | 3 months | 30.09.2029 |
| 8 | Renewal of consent to operate | Rs.5.0 Lakh | 15 days | Use of toppers/binders/surfactants on the top surface of iron ore on trucks/dumpers carrying iron ore on road to minimize spillage during transportation. | Regular Activity | 30.09.2029 |
| 9 | Renewal of consent to operate | Rs.5.0 Lakh | 15 days | Over burden (OB) should be stacked at earmarked dumpsites only and should not be kept active for long period. Proper terracing of OB should be carried out so that the overall slope will come down to 28°. Over Burden shall be disposed by way of backfilling. | Regular Activity | 30.09.2029 |
| 10 | Renewal of consent to operate | Rs.25.0 Lakh | 15 days | Towards Operation and Maintenance of pollution control system & compliance of consent and Environment Clearance conditions. | Regular Activity | 30.09.2029 |

The above Bank Guarantee(s) shall be submitted by the applicant in favour of Regional Officer at the respective Regional Office within 15 days from the date of issue of Consent.

BG Forfeiture History

| Srno. | Consent (C2E/C2O/C2R) | Amount of BG imposed | Submission Period | Purpose of BG | Amount of BG Forfeiture | Reason of BG Forfeiture |
|-------|-----------------------|----------------------|-------------------|---------------|-------------------------|-------------------------|
| NA | | | | | | |

BG Return details

| Srno. | Consent (C2E/C2O/C2R) | BG imposed | Purpose of BG | Amount of BG Returned |
|-------|-----------------------|------------|---------------|-----------------------|
| NA | | | | |

SCHEDULE-IV

General Conditions:

1. The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.
2. If the MIDC pipeline is broken/ overflowing chamber, in such cases industry shall not discharge their treated effluent into MIDC drain, it shall be sent to CETP by tanker.
3. Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
4. The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
5. Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipment, the production process connected to it shall be stopped.
6. The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
7. The firm shall submit to this office, the 30th day of September every year, the Environmental Statement Report for the financial year ending 31st March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
8. The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the H&OW(M&TM) Rules 2016, which can be recycled/processed/ reused/ recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/ reprocessed etc. should go for that purpose, in order to reduce load on incineration and landfill site/environment.
9. The industry should comply with the Hazardous & Other Wastes (M & TM) Rules, 2016 and submit the Annual Returns as per Rule 6(5) & 20(2) of Hazardous & Other Wastes (M & TM) Rules, 2016 for the preceding year April to March in Form-IV by 30th June of every year.
10. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.

11. The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent.
12. Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act, 1986 and industry specific standard under EP Rules 1986 which are available on MPCB website (www.mpcb.gov.in).
13. The industry shall constitute an Environmental cell with qualified staff/personnel/agency to see the day to day compliance of consent condition towards Environment Protection.
14. Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
15. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
16. The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
17. Conditions for D.G. Set
 - a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
 - b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
 - c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper siting and control measures.
 - d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
 - e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
 - f) D.G. Set shall be operated only in case of power failure.
 - g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.
 - h) The applicant shall comply with the notification of MoEFCC, India on Environment (Protection) second Amendment Rules vide GSR 371(E) dated 17.05.2002 and its amendments regarding noise limit for generator sets run with diesel.
18. The industry should not cause any nuisance in surrounding area.
19. The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
20. The applicant shall maintain good housekeeping.
21. The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end

22. The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
23. The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipment provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
24. The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises
25. The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
26. The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification dtd. 18.11.2009 as amended.

This certificate is digitally & electronically signed.

