



Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

To,

The Director
M/S LLOYDS METALS AND ENERGY LIMITED.
At Plot A-1 and A-2, MIDC Area, Ghugus, Chandrapur,
Maharashtra., Chandrapur, Maharashtra-442505

Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the Ministry vide proposal number IA/MH/IND1/417900/2023 dated 21 Feb 2023. The particulars of the environmental clearance granted to the project are as below.

- | | |
|--|--|
| 1. EC Identification No. | EC23A008MH158367 |
| 2. File No. | IA-J-11011/243/2019-IA-II(IND-I) |
| 3. Project Type | Expansion |
| 4. Category | A |
| 5. Project/Activity including Schedule No. | 3(a) Metallurgical industries (ferrous & non ferrous) |
| 6. Name of Project | Installation of Induction Furnace & Rolling Mill for production of Ingots, Billets 5,00,000 TPA and TMT Bars & Long Product: 5,00,000 TPA. |
| 7. Name of Company/Organization | M/S LLOYDS METALS AND ENERGY LIMITED. |
| 8. Location of Project | Maharashtra |
| 9. TOR Date | N/A |

The project details along with terms and conditions are appended herewith from page no 2 onwards.

Date: 01/05/2023

(e-signed)
Dr. R. B. Lal
Scientist F
IA - (Industrial Projects - 1 sector)

Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH. Please quote identification number in all future correspondence.

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F. No. IA-J-11011/243/2019-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(I.A. Division – Industry I sector)

Indira Paryavaran Bhawan
Vayu Wing, 3rd Floor,
Jor Bagh Road, Aliganj,
New Delhi – 110003

Dated: 1st May, 2023

To,

M/s Lloyds Metals and Energy Limited
At Plot A-1 and A-2, MIDC Area, Ghugus, Chandrapur,
Maharashtra-442505
Email: lloydsm12568@gmail.com

Project: Installation of Induction Furnace & Rolling Mill for production of Ingots, Billets 5,00,000 TPA and TMT Bars & Long product: 5,00,000 TPA respectively (In addition to Existing 3,24,000 TPA Sponge Iron Plant, 0.216 MTPA Coal Washery & 25 MW Power Plant) of M/s Lloyds Metals and Energy Limited, located at Plot A-1 and A-2, MIDC Area, Ghugus, Chandrapur, Maharashtra – Grant of Environmental Clearance.

Sir,

This refers to your proposal no. **IA/MH/IND1/417900/2023** dated 21/02/2023 received through PARIVESH Portal for grant of **Environmental Clearance (EC)** for the project mentioned above. Further, the PP has submitted the information on Portal on 18.04.2023.

2. As per the provisions of the Environment Impact Assessment (EIA) Notification, 2006, the above-mentioned project/activity is covered under schedule. 3(a) Metallurgical industries (ferrous & non-ferrous) and 1(d) Thermal Power Plants under Category “A” of the schedule of the EIA Notification, 2006 and appraised at Central Level.

3. The proposal was considered during 21st meeting of the EAC for Industry-I sector held on 16-17th January, 2023 wherein the committee recommended to defer the proposal to address the technical shortcomings. Further, the proposal is considered in the 24th meeting of the EAC for Industry-I sector held on 28th February-1st March, 2023, wherein the Committee, after detailed deliberations, recommended the proposal. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed at <https://parivesh.nic.in>.

4. The details of the proposal are as per the EIA/EMP report submitted by the proponent. The salient features of the proposal as presented during the above-mentioned meetings of EAC (Industry I Sector) are as under: -

S. No.	Particulars	Details submitted by PP
a.	Terms of Reference for undertaking EIA study	10 th February 2020
b.	Period of baseline data collection	15/09/2020 to 15/12/2020
c.	Date of Public Consultation	30th June 2021

S. No.	Particulars	Details submitted by PP																					
d.	Action plan to address the PH issues	An amount of Rs. 8.5 Cr has been earmarked to address the issues raised during public hearing and additionally Rs. 4.6 Cr has been earmarked for expenditure for adopted village development, attached as Annexure 1 .																					
e.	Location of the project	located at Plot A-1 and A-2, MIDC Area, Ghugus, Chandrapur, Maharashtra																					
f.	Latitude and Longitude of the project site	<table border="1"> <thead> <tr> <th>Point</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>19°56'30.56"N</td> <td>79° 6'56.83"E</td> </tr> <tr> <td>B</td> <td>19°56'30.22"N</td> <td>79° 7'1.57 "E</td> </tr> <tr> <td>C</td> <td>19°56'14.10"N</td> <td>79° 7'15.52"E</td> </tr> <tr> <td>D</td> <td>19°55'28.81"N</td> <td>79° 7'20.75"E</td> </tr> <tr> <td>E</td> <td>19°55'13.75"N</td> <td>79° 7'4.87"E</td> </tr> <tr> <td>F</td> <td>19°55'14.36"N</td> <td>79° 6'57.21"E</td> </tr> </tbody> </table>	Point	Latitude	Longitude	A	19°56'30.56"N	79° 6'56.83"E	B	19°56'30.22"N	79° 7'1.57 "E	C	19°56'14.10"N	79° 7'15.52"E	D	19°55'28.81"N	79° 7'20.75"E	E	19°55'13.75"N	79° 7'4.87"E	F	19°55'14.36"N	79° 6'57.21"E
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g.	Total land	93.52 ha [MIDC Land]																					
h.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	Total land is in possession. Additional 8.56 ha adjacent private land was considered at the time of ToR. Now, the proposed project of Induction furnace and rolling mill will be installed in existing plant premises. No Additional land is required.																					
i.	Existence of habitation & involvement of R&R, if any	<p>Project site: None</p> <p>Study Area:</p> <table border="1"> <thead> <tr> <th>Habitation</th> <th>Distance</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Ghugus</td> <td>0.5 Km</td> <td>N</td> </tr> </tbody> </table>	Habitation	Distance	Direction	Ghugus	0.5 Km	N															
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j.	Elevation of the project site	189 m above mean sea level																					
k.	Involvement of Forest land if any.	No Forest Land is involved in the project site.																					
l.	Water body exists within the project site as well as study area	<p>Project site: There are two seasonal drains passing through project site</p> <p>Study area</p> <table border="1"> <thead> <tr> <th>Water body</th> <th>Distance</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Anuradha Lake</td> <td>620 m</td> <td>W</td> </tr> <tr> <td>Wardha River</td> <td>2.5 Km</td> <td>SW</td> </tr> <tr> <td>Nirguda Nala</td> <td>3.0 Km</td> <td>SSW</td> </tr> <tr> <td>Penganga River</td> <td>5.0 Km</td> <td>SE</td> </tr> <tr> <td>Sarai Nala</td> <td>6.5 Km</td> <td>NE</td> </tr> </tbody> </table>	Water body	Distance	Direction	Anuradha Lake	620 m	W	Wardha River	2.5 Km	SW	Nirguda Nala	3.0 Km	SSW	Penganga River	5.0 Km	SE	Sarai Nala	6.5 Km	NE			
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m.	Existence of ESZ / ESA / national park / wildlife Sanctuary / biosphere Reserve / tiger reserve / elephant reserve etc. if any within the study area	<p>Nil.</p> <p>List of Reserved and protected forests: Pardi Reserved Forest, 6.0 Km (SW)</p>																					

S. No.	Particulars	Details submitted by PP		
n.	Project cost	The capital cost of the proposed project is Rs. 660 Crores		
o.	EMP cost	Type	Capital (Rs. in Crores)	Recurring (Rs. in Crores)
		Proposed	Rs. 12.2 Crores	Rs. 1.003 Crores
p.	Employment opportunity	The employment generation from the proposed project is 600 people		
q.	Water and Power requirement	Water – The Water requirement for the proposed project is 1627m ³ /day. The power requirement for the proposed project is estimated as 30 MW.		

Unit configuration and capacity:

S. No.	Plant Equipment / Facility	As per EC dated 28th December 2005, 9th April 2008 & 12th October 2009		Proposed capacity as part of Expansion capacity		Total capacity After expansion capacity	
		Configuration	Capacity	Configuration	Capacity	Configuration	Capacity
1	Sponge Iron plant	1 x 500 TPD & 4 x 100 TPD	3,24,000 TPA	-	-	1 x 500 TPD & 4 x 100 TPD	3,24,000 TPA
2	Coal Washery	0.216 MTPA OR 150 TPH	0.216 MTPA OR 150 TPH	-	-	0.216 MTPA OR 150 TPH	0.216 MTPA OR 150 TPH
3	Power Plant	25 MW	25 MW	-	-	25 MW	25 MW
4	Induction Furnace	-	-	6 x 30 T	5,00,000 TPA	6 x 30 T	5,00,000 TPA
5	Rolling Mill	-	-	5,00,000 TPA	5,00,000 TPA	5,00,000 TPA	5,00,000 TPA

5. The EAC, in its meeting held during **28th February, 2023 - 1st March, 2023**, inter-alia, deliberated the following:

- i. The instant proposal is for installation of Induction Furnace & Rolling Mill for production of Ingots, Billets 5,00,000 TPA and TMT Bars & Long product: 5,00,000 TPA (In addition to Existing 3, 24,000 TPA Sponge Iron Plant, 0.216MTPA OR 150 TPH Coal Washery & 25 MW Power Plant). Further, company has decided to drop the installation of the 2 X 9 MVA Submerged Arc Furnace permitted for production of 25,000 TPA Ferro alloys in the ToR dated 10.02.2020.
- ii. The EAC, constituted under the provision of the EIA Notification, 2006 comprising Expert Members/domain experts in various fields, examined the proposal submitted by the Project Proponent in desired format along with EIA/EMP reports prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.
- iii. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of

data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

- iv. The Committee noted that the EIA reports are in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components. The Committee deliberated on the proposed mitigation measure towards Air, Water, Noise and Soil pollutions. The Committee suggested that the storage of toxic/explosive raw materials/products shall be undertaken with utmost precautions and following the safety norms and best practices.
- v. The existing projects for sponge iron manufacturing plant was accorded the NOC vide Ir.no. Env (NOC)2005/747/CR.97/D.I, dated 28th December 2005, for coal washery environmental clearance was accorded vide Ir.no. J-11015/272/2007-IA.II (M) dated 9th April 2008 and for waste Heat Recovery Based Captive Power Plant of 25 MW capacity environmental clearance was accorded vide Ir.no. J-13012/123/07-IA-II dated 12th October 2009. Consent to Operate was accorded by Maharashtra State Pollution Control Board vide Ir. no. Format1.0/CAC/UAN No. MPCBCONSENT- 0000123174/CO/2203001536 validity of CTO is up to 31.12.2023.
- vi. The proposed project falls in the Critically Polluted Area of Chandrapur as notified by Central Pollution Control Board (CPCB). The EAC deliberated on the revised compliance of the conditions as per Ministry's guideline dated 24th October 2019 and found it satisfactory.
- vii. Total land leased by MIDC to M/s Lloyds Metals & Energy Limited (LMEL) is 93.52 ha in which plot no. A-1 is 4.00 ha & A-2 is 89.52 ha. The land use of project site is industrial land and is acquired by project proponent. No Additional land is required.
- viii. The nearest habitation to plant is Ghugus village located at 0.5 km away from the project site boundary in North direction. The EAC deliberated on environmental safeguard measures undertaken to minimise the impact on the habitation of the locals and found it satisfactory. Further, PP has advised to strengthen the greenbelt layer towards the village.
- ix. There are two natural drainages passing through project site. Anuradha Lake (620 m, W), Wardha River (2.5 Km, SW), Nirguda Nala (3.0 Km, SSW), Penganga River (5.0 Km, SE) and Sarai Nala (6.5 Km, NE) are flowing within 10 Km. radius of the plant site. The EAC deliberated on the drainage conservation plan and found it satisfactory.
- x. The existing water requirement is 2674 m³/day, which will be sourced from Wardha River. The water requirement for the proposed project is estimated as 1627 m³/day, will be sourced from Wardha River and an agreement has been signed with Irrigation Department, Chandrapur for supply of water. PP has also clarified that water requirement for the proposed project is 1627 m³/day as per the PH documents & EIA/EMP report.
- xi. Existing green belt has been developed in 47.7 ha. area which is about 51% of the total project area of 93.52 ha., 2,34,650 nos. of trees are planted and 1,05,000 nos. survived till date. Further gap filling will be done. About 15000 nos. of trees will be planted. Further PP has submitted an undertaking dated 30.01.2023 for ensuring gap filling of existing plantation within six months along with greening and paving in plant area and approsach road from SH to Main gate of the plant. The EAC deliberated on the greenbelt action plan and found it satisfactory.
- xii. The Committee has found that the baseline data and incremental GLC due to the proposed project and the mitigation measures proposed by the propoject proponent and is of the opinion that regular monitroing shall be carried and stringent measures shall be undertaken to keep all the parameters within NAAQ standards.
- xiii. The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found them to be satisfactory.

- xiv. The Committee also deliberated on the public hearing issues along with revised action plan submitted by the proponent to address the issues raised during the public hearing and found it satisfactory.
- xv. The EAC noted that there is Lokayukta Maharashtra State Complaint No.: LA/COM/3729/2021 (T-6) dated 10.11.2021 filed regarding the action taken by the Hon'ble NGT Bench Pune in 2014 after passing the final order for banning the sponge iron factories. MPCB vide letter O.No. MPC/ROC/579/2022 dated 11.11.2022 has submitted its statement. The PP further has submitted that the Final hearing was held on 13th January 2023, and during the hearing representative of state pollution Control board and the Lloyds Metals and Energy limited were present. Honorable Lokayukta in the court disposed off the case without any penalty.
- xvi. The Committee deliberated upon the certified compliance report of IRO and action taken report submitted by PP with respect to the partial/non complied conditions alongwith review report of IRO and found it satisfactory.
- xvii. The EAC deliberated on the ADS reply of project proponent on the issues raised during 21st EAC meeting and found it satisfactory.
- xviii. The EAC deliberated on the point wise clarification on the issues raised in the representation dated 13.01.2023 and 16.01.2023 requesting for stay in the grant of Environment Clearance and found it satisfactory. The EAC also observed that the mitigation measures as raised in the representations has already been included in the EIA/EMP Report. The EAC is of the view that the PP shall implement all the mitigation measures and strict compliances.
- xix. The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC found the proposal in order and recommended for grant of environmental clearance.
- xx. The environmental clearance recommended to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. It does not tantamount/construe to approvals/consent/permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

6. The EAC, in its 24th meeting of Expert Appraisal Committee (Industry-1 Sector) held on 28th February, 2023 - 1st March, 2023, based on information & clarifications provided by the project proponent and after detailed deliberations **recommended** the instant proposal for grant of Environment Clearance under the provisions of EIA Notification, 2006 subject to stipulation of following specific conditions and general conditions as per the Ministry's Office Memorandum No. 22-34/2018-III dated 9/8/2018 based on project specific requirements

7. The MoEF&CC has examined the proposal in accordance with the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and after accepting the recommendations of the Expert Appraisal Committee (Industry-1 Sector) hereby decided to grant **Environment Clearance** for instant proposal of **M/s Lloyds Metals and Energy Limited** under the provisions of EIA Notification, 2006 subject to the following specific conditions and general conditions:

A. Specific conditions:

- (i) The Project proponent shall abide by all the orders and judicial pronouncement, made from time to time pertaining to Lokayukta Maharashtra State Complaint No.: LA/COM/3729/2021 (T-6) dated 10.11.2021 filed regarding the action taken by the Hon'ble NGT Bench Pune in 2014 after passing the final order for banning the sponge iron factories.
- (ii) This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.
- (iii) The PP shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- (iv) The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- (v) The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.
- (vi) In pursuance to MoEF&CC OMs dated 31st October, 2019 & 30th December, 2019 issued in compliance of the order of Hon'ble NGT in OA No. 1038/2018 dated 19th August, 2019, the compliance of all the conditions applicable to CEPI shall be implemented as per the submitted plan.
- (vii) The nearest habitation to plant is Ghugus village located at 0.5 km away from the project site boundary in North direction. Project Proponent shall implement the action plan for environmental safeguard measures to minimise the impact on the habitation of the locals as submitted. The company shall also include this location in its environmental monitoring programme and strengthen the greenbelt layer towards the village.
- (viii) There are two natural drainages passing through project site. Anuradha Lake (620 m, W), Wardha River (2.5 Km, SW), Nirguda Nala (3.0 Km, SSW), Penganga River (5.0 Km, SE) and Sarai Nala (6.5 Km, NE) are flowing within 10 Km. radius of the plant site. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.
- (ix) The water requirement for the proposed project estimated as 1627 m³/day, shall be sourced from Wardha River after obtaining necessary permission from the Competent Authority. No ground water abstraction is permitted.
- (x) As committed, PP shall adopt two villages namely Usgaon and Mathardevi. PP shall implement village Adoption program consisting of need-based community development activities, to develop them into model villages.
- (xi) Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&CC.
- (xii) Three tier Green Belt shall be developed in a atleast 50% of total project area as per the submitted action plan with native species all along the periphery of the project site of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. Gap filling of existing plantation shall be completed within six

months as per the commitment. PP shall develop greenbelt in the form of shelter belt comprising of total of 6 rows of 2x2 m plantation with tall trees & broad leaves with thick canopy alongwith windshield inside the plant premises to act as green barrier for air pollution & noise levels towards Ghugus villages. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.

- (xiii) The PP shall construct a Wind shield/ Acoustic barrier besides three rows of tall thick, broad leaved evergreen tree species in order to protect the villagers from dust and noise pollution.
- (xiv) Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.
- (xv) Rejects from coal washery shall only be used either in the captive power plant (or) in the Thermal Power Plants meeting emission standards.
- (xvi) Solid waste utilization
 - a. PP shall install a slag crusher to convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement making.
 - b. PP shall recycle/reuse solid waste generated in the plant as far as possible.
 - c. Used refractories shall be recycled as far as possible.
- (xvii) Following additional arrangements to control fugitive dust shall be provided:
 - a. Fog / Mist Sprinklers at all on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas.
 - b. Proper covered vehicle shall be used while transport of materials.
 - c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.
- (xviii) Fourth hole extraction shall be provided in the furnaces to control secondary emissions.
- (xix) Secondary fume extraction system shall be installed on converters of Steel Melting Shop.
- (xx) 100% of molten billets shall be rolled directly in hot stage. There shall be no installation of Re-heating furnace.
- (xxi) Wind breaking walls around the storage area and covered storage area for material transportation and paved roads shall be provided.
- (xxii) Housekeeping of the plant area shall be improved.
- (xxiii) Dust emission from all the stacks shall be less than 10 mg/Nm³.
- (xxiv) Air Cooled condensers shall be used in the captive power plant.
- (xxv) During operational phase at Captive Power Plant, PP shall measure coal dust exposures and to maintain coal dust exposures within stipulated standards at coal handling areas. PP shall identify extreme hot areas through heat stress survey as well as noise monitoring within process plants to ensure that workers not exposed above 90 dBA levels as per Factories Act, 1948.
- (xxvi) Action Plan for fire fighting system including provision for flame detectors, temperature actuated heat detectors with alarms, automatic sprinkler system, fixing the location of fire water tanks, separate power system for fire fighting, involvement of qualified and trained fire personnel, nearest fire station & time required to reach the proposed site shall be prepared and implemented.

- (xxvii) Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.
- (xxviii) The proposed project shall be designed as "Zero Liquid Discharge" Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. MSW waste shall be treated in digester and recovered gas shall be used in the canteen.
- (xxix) A proper action plan must be implemented to dispose of the electronic waste generated in the industry.
- (xxx) All the commitments made to the public during the Public Hearing/Public Consultation shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC [Annexure-I of the EC, as attached herewith].
- (xxxi) The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at <https://cpcb.nic.in/technical-guidelines-3/>. All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents.
- (xxxii) The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.

B. General conditions

I. Statutory compliance:

- i. The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.

II. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 04 Nos. Continuous Ambient Air Quality Station (CAAQS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.

- ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- iii. Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions.
- iv. 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.
- v. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
- vi. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
- vii. Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/ agglomeration.
- viii. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
- ix. Facilities for spillage collection shall be provided for coal and coke on wharf of coke oven batteries (Chain conveyors, land based industrial vacuum cleaning facility).
- x. Land-based APC system shall be installed to control coke pushing emissions.
- xi. Monitor CO, HC and O₂ in flue gases of the coke oven battery to detect combustion efficiency and cross leakages in the combustion chamber.
- xii. Vapor absorption system shall be provided in place of vapour compression system for cooling of coke oven gas in case of recovery type coke ovens.
- xiii. Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
- xiv. Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.

III. Water quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31st March 2012 (Integrated iron & Steel); G.S.R 414 (E) dated 30th May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) 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 recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. 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 recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.
- iii. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
- iv. 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.
- v. Tyre washing facilities shall be provided at the entrance of the plant gates.
- vi. Water meters shall be provided at the inlet to all unit processes in the steel plants.

IV. Noise monitoring and prevention

- i. Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.

V. Energy Conservation measures

- i. Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open top ladles.
- ii. Restrict Gas flaring to < 1%.
- iii. 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;
- iv. Provide LED lights in their offices and residential areas.
- v. Ensure installation of regenerative/recuperative type burners on all reheating furnaces.

VI. Waste management

- i. Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil. Oil collection trays shall be provided under coils on saddles in cold rolled coil storage area.
- ii. Kitchen waste shall be composted or converted to biogas for further use.

VII. Green Belt

- i. Green belt shall be developed in an area equal to 33% of the plant area with native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant
- ii. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the program for reduction of the same including carbon sequestration by trees in the plant premises.
- iii. Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitorable with defined time frames.

VIII. Public hearing and Human health issues

- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. 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.
- iii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained.

IX. Environment Management

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020.

- ii. The company shall have a well laid down environmental policy duly approved 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 / wildlife norms / conditions and / or shareholder's / 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.
- iii. 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 report to the head of the organization.

X. Miscellaneous

- i. 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 proponent's website permanently.
- ii. 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.
- iii. The project proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, 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.
- v. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- vi. 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.
- vii. 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.
- viii. 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.
- ix. 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).
- x. The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the

information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.

- xi. The Regional Office of this Ministry 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.

8. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

9. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.

10. 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.

11. The above conditions shall 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, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

12. This issues with approval of the competent authority.



(Dr. R. B. Lal)
Scientist 'F'/ Director
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Encl. as above at Annexure -I

Copy to: -

1. The Secretary, Environment & Forest Department, Government of Maharashtra, 4th Floor, Mantralaya, Mumbai- 400032
2. The Secretary, Revenue Department, Government of Maharashtra, 4th Floor, Mantralaya, Mumbai- 400032
3. The Director General of Forest, Ministry of Environment, Forest and Climate Change, New Delhi.
4. The Principal Chief Conservator of Forests & Government of Maharashtra, MECL Building, Dr. Ambedkar Bhawan, Seminary Hills, Civil Lines, Nagpur-440006
5. The Deputy Director General of Forests (C), Integrated Regional Office, Ministry of Environment, Forest and Climate Change, Regional Office (WCZ), Ground Floor, East Wing, New Secretariat Building Civil Lines, Nagpur-440001

6. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi - 32
7. The Member Secretary, Maharashtra Pollution Control Board, Kalpataru Point, 3rd and 4th floor, Opp. PVR Cinema, Sion Circle, Mumbai-400 022.
8. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi, Delhi 110001
9. The District Collector, Chandrapur, Maharashtra
10. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi.
11. Guard File/Monitoring File/Website/Record File/Parivesh Portal



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Table: Action Plan as per Ministry's O.M. dated 30/09/2020

S.N.	MAJOR ACTIVITY HEADS	YEAR OF IMPLEMENTATION			TOTAL EXPENDITURE (Rs. in Lakhs)	
		1 st Year (Rs. in Lakhs)	2 nd Year (Rs. in Lakhs)	3 rd Year (Rs. in Lakhs)		
A)Based on Need Based & SIA Study						
1.	Training will be provided to the local youths for skill development in coordination with the local ITI centre.	Physical Nos and Villages	Training to the eligible unemployed, interested youth of, Ghughus, Shengaon, Nakoda and Dhanora	Training to the eligible unemployed, interested youth from Ghughus, Belur, Wadha and Anturla	Training to the eligible unemployed, interested youth from Pandharkawada, Pipri and Ghughus	30.00
		Budget in Lakhs Rs.	10.00	10.00	10.00	
2. Community and Infrastructure Development						
	Augmentation of water supply to existing toilets (under Swacha Bharat Scheme).	Physical Nos and Villages	At village Ghugus, Dhanora, Pandharkawada, Nakoda, Anturla and Pipri	Maintenance	Maintenance	15.00
		Budget in Lakhs Rs.	10.00	3.00	2.00	
	LED solar light will be provided in the street with solar panel	Physical Nos and Villages	At Ghugus, Shengaon, Nakoda, Dhanora and Usgaon	Maintenance	Maintenance	40.00
		Budget in Lakhs Rs.	25.00	10.00	5.00	
c.	Providing Truck mounted road sweeping machine	Physical Nos and Villages	Providing 1 machine for cleaning of adjoining connecting village roads operated by LMEL.	Maintenance	Maintenance	65.00
		Budget in	45.00	10.00	10.00	

S.N.	MAJOR ACTIVITY HEADS	YEAR OF IMPLEMENTATION			TOTAL EXPENDITURE (Rs. in Lakhs)	
		1 st Year (Rs. in Lakhs)	2 nd Year (Rs. in Lakhs)	3 rd Year (Rs. in Lakhs)		
		Lakhs Rs.				
d.	Providing mobile mist sprinklers and fugitive dust controller machines to nearby villages	Physical Nos and Villages	Providing 2 machine to surrounding villages	Maintenance	Maintenance	65.00
		Budget in Lakhs Rs.	45.00	10.00	10.00	
e.	Provision of Drinking water Facility	Physical Nos and Villages	Construction of borewell along with provision of RO plant (Water Purification withdispenser) in the village Ghugus,Usgao, Dhanora and Pipri	Maintenance	Maintenance	60.00
		Budget in Lakhs	40.00	10.00	10.00	
f.	Provision of Ambulance & Funeral vehicle	Physical Nos and Villages	2 No. of Ambulance Vehicle and 1 No. of Funeral Vehicle for surrounding village	Maintenance and Operation	Maintenance and Operation	90.00
		Budget in Lakhs Rs.	50.00	20.00	20.00	

3. Education

a.	Training Program from 7 th Std to 10 th Std Students from Janata Vidyalaya Ghugus, New English High School & Jr. College Pandharkawada,	To support 3 Rural schools in Chandrapur Taluka, B) TO facilitate teachers' capacity building training for enabling them to impact quality education. C) To undertake holistic development programmes with the students from academic overall progress and development of students. D) to ensure schools have appropriate infrastructure to improve the quality of education being imparted.	200.00
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S.N.	MAJOR ACTIVITY HEADS	YEAR OF IMPLEMENTATION			TOTAL EXPENDITURE (Rs. in Lakhs)	
		1 st Year (Rs. in Lakhs)	2 nd Year (Rs. in Lakhs)	3 rd Year (Rs. in Lakhs)		
	Priyadarshini Kanya Vidyalaya Ghugus					
	Budget in Lakhs Rs.	200.00				
Total (A)					565.00	
B) BASED ON PUBLIC HEARING /CONSULTATION						
1.	Health camps including medicine in the nearby villages	Villages	Health camps will be organized in Ghugus, Usgaon and Dhanora Village.	Health camps will be organized in Mahtardevi, Wadha and Chandur Village.	Health camps will be organized in Nakoda, Shengaon and Ghugus Village.	30.00
	Budget in Lakhs Rs.		10.00	10.00	10.00	
2.	Improvement in the Facilities in primary health center	Villages	Provision of various medical kits/ medical equipment to primary health centers at Ghugus village.	Provision of various medical kit/ medical equipment primary health centers at Shengaon village.	Provision of various medical kit /medical equipment to primary health centers at Usgaon village.	60.00
	Budget in Lakhs Rs.		40.00	10.00	10.00	
3.	Plantation	Physical Nos and Villages	Avenue plantation in nearby villages : Ghugus Mhatardevi, Nakoda, Shengaon, Usgaon and Dhanora Village.			45.00
	Budget in Lakhs Rs.		15.00	15.00	15.00	
4.	development of Road for decongestion of traffic at southern end of the plant connected to Nakoda village	Physical Nos and Villages	Development of Road for decongestion of traffic			150.00
	Budget in Lakhs Rs.		150			

S.N.	MAJOR ACTIVITY HEADS	YEAR OF IMPLEMENTATION			TOTAL EXPENDITURE (Rs. in Lakhs)
		1 st Year (Rs. in Lakhs)	2 nd Year (Rs. in Lakhs)	3 rd Year (Rs. in Lakhs)	
Total (B)				285.00	
Total (A + B)				850.00	

PP hereby confirmed that PP will adopt the following 2 nos. of villages for taking up developmental activities:

S.N.	Activities (Year 2022-2024)	Proposed Expenditure and Activities (All figures in Rs. Lakhs)		
		Usgaon Village	Mhatardevi Village	Total
1.	Model Anganwadi – Improvement in infrastructure Basic amenities and teaching learning material.	20.00	20.00	40.00
2.	Construction of Concrete Road and Closed Drains (Nali)	50.00	150.00	200.00
3.	Renovation of Primary School and providing a library and computer lab in the school	35.00	35.00	70.00
4.	Shamshan Bhumi Infrastructural Development (Construction of Shed, flooring work, etc)	10.00	10.00	20.00
5.	Vocational training Center	10.00	10.00	20.00
6.	Sanitization (Construction of Public Toilet, disinfection equipments etc)	15.00	15.00	30.00
7.	High Mast will be installed as required	15.00	15.00	30.00
8.	Based on 12th std. results, Scholarship for meritorious students for Graduation of technical studies - 2 students from each village.	10.00	10.00	20.00
9.	Medical equipments to elderly people	15.00	15.00	30.00
Expenditure for Adopted Village Development				460.00 Lakhs
