



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

To,

The Executive Director
ARCELORMITTAL NIPPON STEEL INDIA LIMITED
Scindia road, Near Flyover, Visakhapatnam, Andhra Pradesh 530004
,,Visakhapatnam,Andhra Pradesh-530004

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/AP/IND1/400545/2022 dated 04 Oct 2022. The particulars of the environmental clearance granted to the project are as below.

- | | |
|--|---|
| 1. EC Identification No. | EC22A008AP120408 |
| 2. File No. | IA-J-11011/131/2022-IA-II(IND-I) |
| 3. Project Type | New |
| 4. Category | A |
| 5. Project/Activity including Schedule No. | |
| 6. Name of Project | Proposed change of fuel from LSHS to Natural gas (fuel oil as stand by) in the Existing 7.0 MTPA Iron ore Pelletisation plant and net 25 MW Captive powerplant by M/s ArcelorMittal Nippon Steel India Limited (Formerly Essar Steel India Limited) located at Village Kancharapalem, Tehsil Vishakhapatnam Urban, District Vishakhapatnam, Andhra Pradesh, India |
| 7. Name of Company/Organization | ARCELORMITTAL NIPPON STEEL INDIA LIMITED |
| 8. Location of Project | Andhra Pradesh |
| 9. TOR Date | N/A |

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

Date: 05/12/2022

(e-signed)
Dr. R. B. Lal
Scientist E
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-11011/131/2022-IA-II(IND-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: 5th December, 2022

To,

M/s ArcelorMittal Nippon Steel India Limited,
Scindia road, Near Flyover,
Village- Kancharapalem, Visakhapatnam,
Andhra Pradesh 530004
Email: ravindranath.modekurthi@amns.in

Project: Change of fuel from LSHS to Natural gas (fuel oil as stand by) in the Existing 7.0 MTPA Iron ore Pelletisation plant and net 25 MW Captive power plant by M/s ArcelorMittal Nippon Steel India Limited (Formerly Essar Steel India Limited), located at Village Kancharapalem, Tehsil Vishakhapatnam Urban, District Vishakhapatnam, Andhra Pradesh–Grant of Environmental Clearance for modernization of existing unit w.r.t. change of fuel under the provisions of para 7(ii)(a) of the EIA Notification, 2006 regarding.

Sir,

This refers to your proposal no. IA/AP/IND1/400545/2022 dated 4th October, 2022 along with copy of EIA/EMP Report, Form - 2 seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. Further, the PP has uploaded the information on Parivesh portal on 04.11.2022.

2. As per the provisions of the Environment Impact Assessment (EIA) Notification, 2006, the above-mentioned project/activity is covered under category 'A' of item 3(a) Metallurgical Industries (ferrous & non-ferrous), of the EIA Notification, 2006 and appraised at Central Level.

3. The above-mentioned proposal has been considered in **15th meeting of Expert Appraisal Committee (Industry-1 Sector) held on 17th -18th October 2022**. 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-mentionC (Industry 1 Sector) are as under: -

S. No.	Particulars	Details submitted by the PP
a.	Terms of Reference for undertaking EIA study	24/05/2022
b.	Period of baseline data collection	19 th October, 2021 to 18 th January, 2022
c.	Date of Public Consultation	The instant proposal is for seeking Environmental clearance for change of fuel in the existing pellet plant of 7 MTPA from

S. No.	Particulars	Details submitted by the PP																																																
		LSHS (Fuel oil) to Natural Gas (Fuel Oil as stand by) without change in production capacity. The proposed modernization of existing unit was considered by the EAC under the provisions of para 7(ii)(a) of EIA Notification, 2006 and the public hearing was waived off as per ToR issued vide letter dated 24.05.2022.																																																
d.	Action plan to address the PH issues	PP has committed for spending Rs. 5 Cr as CER. Year wise detail is enclosed as Annexure-I																																																
e.	Location of the project	Village Kancharapalem, Tehsil Vishakhapatnam Urban, District Vishakhapatnam, Andhra Pradesh																																																
f.	Latitude and Longitude of the project site	<p>Coordinates of Plant Area</p> <table border="1"> <thead> <tr> <th>Point</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>17.721773</td> <td>83.271006</td> </tr> <tr> <td>B</td> <td>17.723110</td> <td>83.272962</td> </tr> <tr> <td>C</td> <td>17.237741</td> <td>83.275812</td> </tr> <tr> <td>D</td> <td>17.722076</td> <td>83.276864</td> </tr> <tr> <td>E</td> <td>17.716586</td> <td>83.277529</td> </tr> <tr> <td>F</td> <td>17.716586</td> <td>83.274075</td> </tr> <tr> <td>G</td> <td>17.716764</td> <td>83.272612</td> </tr> <tr> <td>H</td> <td>17.716796</td> <td>83.271592</td> </tr> </tbody> </table> <p>Coordinates of Stock pile Area (Outside Plant area)</p> <table border="1"> <thead> <tr> <th>Point</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>17.712097</td> <td>83.276589</td> </tr> <tr> <td>B</td> <td>17.711712</td> <td>83.275379</td> </tr> <tr> <td>C</td> <td>17.711379</td> <td>83.275233</td> </tr> <tr> <td>D</td> <td>17.704044</td> <td>83.276112</td> </tr> <tr> <td>E</td> <td>17.703639</td> <td>83.276788</td> </tr> <tr> <td>F</td> <td>17.703669</td> <td>83.277232</td> </tr> </tbody> </table>	Point	Latitude	Longitude	A	17.721773	83.271006	B	17.723110	83.272962	C	17.237741	83.275812	D	17.722076	83.276864	E	17.716586	83.277529	F	17.716586	83.274075	G	17.716764	83.272612	H	17.716796	83.271592	Point	Latitude	Longitude	A	17.712097	83.276589	B	17.711712	83.275379	C	17.711379	83.275233	D	17.704044	83.276112	E	17.703639	83.276788	F	17.703669	83.277232
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g.	Total land	Plant: 44.5154 ha (110 acre) Stock Pile: 18.25ha (45.10 acre)																																																
h.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	<p>The land is on lease with effective from 20.09.1991 from Visakhapatnam Port Trust along with change of land use for establishing pellet plant as well as CPP.</p> <p>The long term (30 Years) of land lease agreement with Visakhapatnam Port Trust (VPT) was expired in September'2021. Project Proponent have applied for renewal for another 30 years and the renewal is under process with VPT.</p> <p>AMNS India, Visakhapatnam paid Rs. 10,93,39,2709 towards land lease rent as demanded by VPT for the period 20.09.2021 to 30.04.2022.</p>																																																
i.	Existence of habitation & involvement of R&R, if any	<p>Project Site: Nil.</p> <p>Study Area:</p>																																																

S. No.	Particulars	Details submitted by the PP														
		Habitation	Distance	Direction												
		Velampeta	2.0 Km	SE												
		Gnanapuram	0.9 Km	E												
		Kancharpalem	0.9 Km	NE												
		Akkyapalem	2.8 Km	NE												
		Gandhigram	3.3 Km	SW												
j.	Elevation of the project site	4.7 m above mean sea level.														
k.	Involvement of Forest land if any.	Nil.														
l.	Water body exists within the project site as well as study area	Project site: Nil Study area <table border="1"> <thead> <tr> <th>Water body</th> <th>Distance</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Bay of Bengal</td> <td>3.3 km</td> <td>E</td> </tr> <tr> <td>Narava Gedda</td> <td>5.3 km</td> <td>W</td> </tr> <tr> <td>Mehadri Gedda</td> <td>9.2 km</td> <td>NW</td> </tr> </tbody> </table>			Water body	Distance	Direction	Bay of Bengal	3.3 km	E	Narava Gedda	5.3 km	W	Mehadri Gedda	9.2 km	NW
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Mehadri Gedda	9.2 km	NW														
m.	Existence of ESZ / ESA / national park / wildlife Sanctuary / biosphere Reserve / tiger reserve / elephant reserve etc. if any within the study area	Project Site- Nil Study Area: Kailasa konda Forest, (2.5 km) Kambala konda wildlife sanctuary (7.8 km): The Kambalakonda Wildlife Sanctuary is located on the Kailashgiri Hills about 7.8 km north of the project site. The ESZ for the Kambalakonda Wildlife Sanctuary has been notified by MoEF&CC, vide S.O. 1366 (E), dated 28.04.2017. The ESZ boundary is 6 km away from the project boundary. Yerra konda Rain Forest, (7.9km) Narrava Rain Forest (10.5km) Sitakonda Rain Forest (8.1km)														
n.	Project cost	The cost of the proposed change in fuel from LSHS to Natural gas (with LSHS as backup fuel arrangement) is estimated to Rs 48.2 crores														
o.	EMP cost	The capital cost for environmental protection measures is proposed project as Rs. 2.91 crores. The annual recurring cost towards the environmental protection measures is proposed as Rs. 2.61 crores.														
p.	Employment opportunity	The employment due to existing & post project is 950 and there is no change														
q.	Water and Power requirement	No additional water requirement is envisaged for the proposed change of fuel project. Total water requirement for the existing plant as 10205 m ³ /day, including 3655m ³ /day for Captive Power Plant and water required for Pellet Plant is 6550 m ³ /day. Around 1200 m ³ /day of fresh make-up water requirement is being sourced from GVMC vides letter No. 10935 dated 18 Jan, 2022. Around 9120 m ³ /day is being met from slurry recycled water.. No additional power requirement is envisaged for the proposed change of fuel project. Total power requirement for the existing project is 40 MW, out of which 25 MW is being obtained from														

S. No.	Particulars	Details submitted by the PP
		the Captive Power Plant and 15 MW is being sourced from APEDCL grid supply for which agreement is in place.

Unit configuration and capacity:

S. No.	Plant Equipment/Facility	Consent for Establishment Order NO: 13060/PCB/C.ESTT/RO-VSP/EE/2-2001-3719 dtd. 13/03/2001 & Existing facilities as per Consent Order No: APPCB/VSP/VSP/111/CFO/HO/2019- dated 04/10/2019 and subsequent amendment on name change vide Order No: APPCB/VSP/VSP/111/CFO/HO/2020- 28/03/2020 valid up to 31/12/2024.								Proposed Units		Final (Existing + Proposed)		Remark
		Total (A+B)		Implemented (A)		Un-implemented (B)		As per CTO		Configurati on	Capacity	Configurati on	Capacity	
		Configurati on	Capacity	Configurati on	Capacity	Configurati on	Capacity	Configurati on	Capacity					
1	Pelletisation Plant-I	1 Nos	11,000 (TPD)	NA	11,000 (TPD)	NA	NA	1 Nos	11,000 (TPD)	NA	NA	1 Nos	11,000 (TPD)	Total Capacity: 7.0 MTPA @300 days of operation
2	Pelletisation Plant-II	1 Nos	12,333 (TPD)	NA	12,333 (TPD)	NA	NA	1 Nos	12,333 (TPD)	NA	NA	1 Nos	12,333 (TPD)	
3	Captive Power Plant net generation	1 Nos	25 MW	NA	25 MW	NA	NA	1 Nos	25 MW	NA	NA	1 Nos	25 MW	

5. The PP has reported that they had established initially 4 MTPA Iron Ore Pellet Plant during 1991 after obtaining Consent to Establish from APPCB on 12/07/1991. Thereafter, the plant was commissioned after obtaining Consent to Operate from APPCB on 30/10/1997. Later, PP went for expansion of the Pelletisation plant from 3.3 MTPA to 7.0 MTPA, vide APPCB order dated 13.03.2001. PP also established a Coal based captive power plant to generate Electricity of net 25 MW for captive use vide Consent to Establish dated 19/09/2003 & Consent to Operate dated 12/05/2006 from APPCB. As per the Ministry's circular dated 21/11/2006, the projects which are attracting the provisions of EIA, 2006 for which NOC issued before 14/09/2006 are not required to take EC under the provisions of EIA Notification, 2006. In the instant case, the proponent has obtained CTE as well as CTO prior to 14/09/2006, hence EC has not been obtained by the PP under the provisions of EIA Notification, 2006. The latest Consent to Operate for the existing unit was accorded by APPCB vide Consent Order dated 04/10/2019 and subsequent amendment on name change vide Order dated 28/03/2020. The CTO is valid up to 31/12/2024. The status of compliance of existing CFO was obtained from Regional Office, Andhra Pradesh Pollution Control Board, vide letter dated 08.09.2022. As per the APPCB compliance report dated 08.09.2022, all the conditions were complied with for the existing project.

6. The EAC, in its meeting held during 17-18 October, 2022, inter-alia, deliberated the following:
- (i) The instant proposal is for change of fuel in the existing 7.0 MMTPA Iron Ore Pelletisation from LSHS (Fuel oil) to Natural Gas (Fuel Oil as stand by) running based on CTE/CTO.
 - (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 Project Proponent has established initially 4 MTPA Iron Ore Pellet Plant during 1991 after obtaining Consent to Establish (CTE) from APPCB on 12/07/1991. There after the plant was commissioned after obtaining Consent to Operate (CTO) from APPCB on 30/10/1997. Later PP went for expansion of the Pelletisation plant from 3.3 MMTPA to 7.0 MMTPA under-II vide APPCB order No. 13060/PCB/C.Estt/RO-VSP/EE/2-2001-3719 dated 13.03.2001 envisaging to carry the beneficiated ore fines in slurry form from the beneficiation plant located at Kirandul, Chhattisgarh state. PP also established a Coal based captive power plant to generate Electricity of net 25 MW for captive use vide Consent to Establish dated 19/09/2003 & Consent to Operate dated 12/05/2006 from APPCB. As per the Ministry's circular dated 21/11/2006, the projects which are attracting the provisions of EIA, 2006 for which NOC issued before 14/09/2006 are not required to take Environment Clearance under the provisions of EIA Notification, 2006. In the instant case, the proponent has obtained CTE as well as CTO prior to 14/09/2006, hence EC has not been obtained by the PP under the provisions of EIA Notification, 2006.
 - (vi) The unit has a total plant area of 44.5154 ha along with Stockpile area of 18.25 ha outside the plant area at Survey No. 15A of Kancharapalem, Vishakhapatnam, Andhra Pradesh. This land is on lease from Visakhapatnam Port Trust along with change of land use for establishing our pellet plant as well as CPP. The long term (30 Years) of land lease agreement with Visakhapatnam Port Trust (VPT) expired in September'2021. Project Proponent have applied for renewal for another 30 years and the renewal is under process with VPT. AMNS India, Visakhapatnam paid Rs. 10,93,39,2709 towards land lease rent as demanded by VPT for the period 20.09.2021 to 30.04.2022.
 - (vii) The nearest habitations to plant are Gnanapuram (0.9 km, E), Kancharpalem (0.9 km, NE), Velampeta (2 km, SE), Akkyapalem (2.8 km, NE) and Gandhigram (3.3 km, SW) from the project site boundary.
 - (viii) No additional water requirement is envisaged for the proposed change of fuel project. Total water requirement for the existing plant as 10205 m³ /day, including 3655m³/day for Captive Power Plant and water required for Pellet Plant is 6550 m³/day. Around 1200 m³/day of fresh

make-up water requirement is being sourced from GVMC and around 9120 m³/day is being met from slurry recycled water.

- (ix) Bay of Bengal (3.3 Km, E), Narava Gedda (5.3 km, W) and Mehadri Gedda (9.2 km, NW) exists within the study area. The EAC is of the opinion that water body shall not be disturbed. Mitigation measures w.r.t. safeguarding the water body shall be implemented.
- (x) The Committee has found that the baseline data and incremental GLC due to the proposed project within NAAQ standards.
- (xi) The EAC noted that the existing green belt has been developed in a total area of 49.24 acre / 19.93 ha (32%) with 49537 number of trees. Total of 20.56 ha will be covered under greenbelt @2500 plants/ha.
- (xii) There are 8 Schedule-I species namely Leopard cat, Mouse Deer, Leopard, Pangolin, Indian Python, Pea fowl, Pied Hornbill and Vultures as per the forest working plan. Total fund earmarked for implementation of conservation plan are Rs. 4 lakhs (capital cost) and Rs. 1.5 lakhs (recurring cost).
- (xiii) The Kambalakonda Wildlife Sanctuary falls in study area, which is located on the Kailashgiri Hills about 7.8 km north of the project site. The Kambalakonda Wildlife Sanctuary has been notified by MoEF&CC vide Draft Notification No. S.O. 62 (E) dated 7th January, 2016. Satellite map showing Kambalakonda WLS ESZ boundary as per gazette notification dated 28th April 2017 and project boundary is submitted. The ESZ boundary is 6 km away from the project boundary.
- (xiv) The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found them to be satisfactory.
- (xv) The Committee deliberated upon the certified compliance report of RO SPCB and found it satisfactory.
- (xvi) The EAC also deliberated on the written submissions submitted by the proponent and found it satisfactory.
- (xvii) 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.
- (xviii) 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.

7. The EAC, in its **15th meeting of Expert Appraisal Committee (Industry-1 Sector) held on 17th -18th October, 2022**, based on information & clarifications provided by the project proponent and after detailed deliberations **recommended** the proposal for grant of Environment Clearance for modernization of existing unit w.r.t. change of fuel under the provisions of para 7(ii)(a) of the EIA Notification, 2006 subject to stipulation of specific and general conditions as detailed in the point below.

8. 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 ArcelorMittal Nippon Steel India Limited** under the provisions of EIA Notification, 2006 subject to the following specific conditions and general conditions:

A. Specific Condition:

- i. 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.
- ii. 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.
- iii. Total water requirement for the existing plant as 10205 m³ /day, including 3655m³/day for Captive Power Plant and water required for Pellet Plant is 6550 m³/day shall be met from GVMC (1200 m³/day) and recycled water (9120 m³/day).
- iv. Project Proponent shall obtain renewal of lease from Visakhapatnam Port Trust.
- v. Following additional arrangements to control fugitive dust shall be provided:
 - a. Fog / Mist Sprinklers at all conveyors point and 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.
- vi. All internal road and connecting road from project site to main highway shall be developed and maintained with suitable Million Axle Standard (MSA) as per the traffic load due to existing and proposed project.
- vii. All stockyards shall be having impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains to trap the run off material.
- viii. Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Regional Office of the MoEF&CC.
- ix. Particulate matter emission from stacks shall be less than 30 mg/Nm³. Action plan submitted to limit the dust emission shall be strictly implemented.
- x. 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 100 % solid waste generated in the plant as per submitted plan.

- c. Used refractories shall be recycled as far as possible.
- xi. Bay of Bengal (3.3 Km, E), Narava Gedda (5.3 km, W) and Mehadri Gedda (9.2 km, NW) exists 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.
- xii. 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.
- xiii. The company shall also undertake rain water harvesting measures as per the plan submitted in the EIA/EMP report and reduce water dependence from the outside source.
- xiv. Gnanapuram (0.9 km, E), Kancharpalem (0.9 km, NE), Velampeta (2 km, SE), Akkyapalem (2.8 km, NE) and Gandhigram (3.3 km, SW) exists within the study area of project site Project Proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. The company shall also include this location in its environmental monitoring programme.
- xv. As committed, project proponent shall undertake CER through innovative schemes in consultation with District Administration.
- xvi. A proper action plan must be implemented to dispose of the electronic waste generated in the industry.
- xvii. Three tier Green Belt shall be developed in at least 33% of the project area in a time frame of one year 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. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.
- xviii. Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.
- xix. Air Cooled condensers shall be used in the captive power plant.
- xx. 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.
- xxi. 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.

- xxii. 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.
- xxiii. The recommendations of the approved Site-Specific 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 to the concerned Regional Office of the MoEF&CC.

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 two 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 recognised 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. 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.
- iv. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
- v. 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.
- vi. The project proponent shall ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation.

- vii. The project proponent shall provide primary and secondary fume extraction system at all melting furnaces.
- viii. 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 (G.S.R 414 (E) dated 30th May 2008; G.S.R 277 (E) dated 31st March 2012 (applicable to IF/EAF); 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 recognised 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 recognised 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. The project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R 277 (E) 31st March 2012 (applicable to IF/EAF) as amended from time to time.
- v. 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.
- vi. Tyre washing facilities shall be provided at the entrance/exit of the plant gates.

IV. Noise monitoring and prevention

- i. Noise quality 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. Energy conservation measures may be adopted such as adoption of solar energy and provision of LED lights etc., to minimize the energy consumption.

VI. Waste management

- i. Used refractories shall be recycled.
- ii. Kitchen waste shall be composted or converted to biogas for further use.

VII. Green Belt

- i. 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.
- ii. Project proponent shall submit a study report on De-carbonization program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and 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 monitor able 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 of Factory Act.
- 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. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.
- ii. 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 / 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.
- 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 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 environment 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. 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.
- x. 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).
- xi. 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.
- xii. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xiii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

xiv. 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.

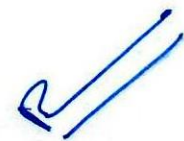
9. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above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

10. 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.

11. 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.

12. 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.

13. This issues with approval of the competent authority.



(Dr. R. B. Lal)
Scientist 'E'/Additional Director
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Encl. as above at Annexure –I

Copy to: -

1. The Principal Secretary, Environment and Forests Department Secretariat, Government of Andhra Pradesh, B Block, Secretariat, Hyderabad-500004
2. The Director General of Forest, Ministry of Environment, Forest and Climate Change, New Delhi.
3. The Principal Chief Conservator of Forests, Government of Andhra Pradesh, Aranya Bhawan, Hyderabad-500 004
4. Inspector General of Forests, Integrated Regional Office, Ministry of Environment, Forest and Climate Change, Vijayawada Green House Complex, Vijayawada, Andhra Pradesh 520010
5. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi - 110032
6. The Member Secretary, Andhra Pradesh Pollution Control Board, D.No. 33-26-14 D/2, Near Sunrise Hospital, Pushpa Hotel Centre, Chalamalavari, Street, Kasturibaipet, Vijayawada – 520010

7. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi, Delhi 110001
8. The Chief Wildlife Warden, Govt. of Andhra Pradesh, Aranya Bhawan, Saifabad, Hyderabad-500004
9. The District Collector, District Vishakhapatnam, Andhra Pradesh
10. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi.
11. Guard File/Monitoring File/Record File/ MoEF&CC Website/ Parivesh Portal



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Table: Action plan as per MoEF&CC O.M. dated 30/09/2020

Year	Rs. In Crores	Schemes
2023	1.6	Innovative schemes in consultation with District Administration.
2024	1.7	
2025	1.7	
Total	5.0	-

