



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

To,

The SENIOR MANAGER ENVIRONMENT
REAL ISPAT & POWER LIMITED
VRINDAVAN, NEAR IDBI BANK, CICIL LINES,,Raipur,Chhattisgarh-
492000

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/CG/IND/127880/2019 dated 07 Oct 2021. The particulars of the environmental clearance granted to the project are as below.

1. EC Identification No.	EC21A008CG110245
2. File No.	J-11011/411/2019-IAII(I)
3. Project Type	New
4. Category	A
5. Project/Activity including Schedule No.	3(a) Metallurgical industries (ferrous & non ferrous)
6. Name of Project	Real Ispat & Power Limited
7. Name of Company/Organization	REAL ISPAT & POWER LIMITED
8. Location of Project	Chhattisgarh
9. TOR Date	20 Jan 2020

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

(e-signed)
Sundar Ramanathan
Scientist E
IA - (Industrial Projects - 1 sector)

Date: 23/11/2021

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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PARIVESH

(Pro-Active and Responsive Facilitation by Interactive, and Virtuous Environment Single-Window Hub)



This refers to your proposal no. IA/CG/IND/127880/2019 received on 07/10/2021 through PARIVESH Portal for grant of **Environment Clearance (EC)** for the project mentioned above.

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 and Non-ferrous), 1(d) Thermal Power Plants** and appraised at **Central level**.
3. Accordingly, the above-mentioned proposal has been considered in **47th meeting of Re-constituted Expert Appraisal Committee (Industry 1 Sector) held on 28-29th October, 2021**. 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 report submitted by the proponent. The salient features of the proposal as presented during the above-mentioned meetings of EAC (Industry 1) are as under: -

S.No.	Particulars	Details																												
a.	Terms of Reference for undertaking EIA study	20 th January, 2020																												
b.	Period of baseline data collection	1 st October 2019 to 31 st December 2019																												
c.	Date of Public Consultation	04 th February, 2021																												
d.	Action plan to address the PH issues	An amount of Rs. 968 lakhs have been earmarked to address the issues raised during public hearing.																												
e.	Location of the project	Bakulahi & Dhourabhata Villages, Bhatapara Tehsil, Baloda Bazar – Bhatapara District, Chhattisgarh.																												
f.	Latitude and Longitude of the project site	<table><tr><th>Point</th><th>Coordinates</th></tr><tr><td>1</td><td>21°48'02.55"N 82°02'54.19"E</td></tr><tr><td>2</td><td>21°47'47.51"N 82°02'49.10"E</td></tr><tr><td>3</td><td>21°47'47.23"N 82°02'49.28"E</td></tr><tr><td>4</td><td>21°47'49.15"N 82°02'43.20"E</td></tr><tr><td>5</td><td>21°47'57.88"N 82°02'45.32"E</td></tr><tr><td>6</td><td>21°47'57.68"N 82°02'39.73"E</td></tr><tr><td>7</td><td>21°47'59.94"N 82°02'32.67"E</td></tr><tr><td>8</td><td>21°47'52.07"N 82°02'29.65"E</td></tr><tr><td>9</td><td>21°47'54.30"N 82°02'25.92"E</td></tr><tr><td>10</td><td>21°47'55.48"N 82°02'21.41"E</td></tr><tr><td>11</td><td>21°48'00.13"N 82°02'23.22"E</td></tr><tr><td>12</td><td>21°48'01.46"N 82°02'19.86"E</td></tr><tr><td>13</td><td>21°48'00.50"N 82°02'19.61"E</td></tr></table>	Point	Coordinates	1	21°48'02.55"N 82°02'54.19"E	2	21°47'47.51"N 82°02'49.10"E	3	21°47'47.23"N 82°02'49.28"E	4	21°47'49.15"N 82°02'43.20"E	5	21°47'57.88"N 82°02'45.32"E	6	21°47'57.68"N 82°02'39.73"E	7	21°47'59.94"N 82°02'32.67"E	8	21°47'52.07"N 82°02'29.65"E	9	21°47'54.30"N 82°02'25.92"E	10	21°47'55.48"N 82°02'21.41"E	11	21°48'00.13"N 82°02'23.22"E	12	21°48'01.46"N 82°02'19.86"E	13	21°48'00.50"N 82°02'19.61"E
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g.	Total land	63.52 ha																																								
h.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	Total land of 63.52 ha is in possession of M/s. Real Ispat and Power Limited																																								
i.	Existence of habitation & involvement of R&R, if any	Nil																																								
j.	Elevation of the project site	270 m AMSL																																								
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 Shivnath River (5.9 Kms. - NW Direction)																																								

S.No.	Particulars	Details
		Jamuniya Nadi (5.8 Kms. - SSE Direction) Bhatapara Branch of Mahanadi Canal (0.18 Kms. – SSE Direction)
m.	Existence of ESZ / ESA / national park / wildlife Sanctuary / biosphere Reserve / tiger reserve / elephant reserve etc. if any within the study area	Nil.
n.	Project cost	INR 930.68 Crores
o.	EMP cost	INR 124.86 Crores
p.	Employment opportunity	1000 Nos
q.	Water and Power requirement	Water – 5640 m ³ /day, Power – 136.2 MW

Unit configuration and capacity:

SNo	Unit Detail	Unit Configuration	Production Capacities
1.	Iron ore Beneficiation (Beneficiated ore)	2.0 MTPA	2.0 MTPA
2.	Pellet Plant (Pellet)	2x0.8 MTPA	1.6 MTPA
3.	Coal Gasifier + PCI For Pellet Plant & Rolling Mill	10x8000 Nm ³ /hr	80,000 Nm ³ /hr
4.	DRI Kilns (Sponge Iron)	2 x 650 TPD + 2 x 350 TPD + 1 x 200 TPD *	7,60,000 TPA
5.	Steel Melt Shop with CCM (Billets / Ingots / Hot Billets)	5x30 T + 5x20 T + twin Caster	7,50,000 TPA
6.	Ladle Refining Furnace (LRF) (Billets / Ingots / Hot Billets)	2x25 T & 1x35 T	7,50,000 TPA
7.	Rolling Mill with Standby Reheating Furnace 50 TPH (Rolled products / TMT Bars / Structural Steel)	2x3,50,000 TPA	7,00,000 TPA
8.	Ferro Alloys Unit (FeSi / FeMn / SiMn / Pig Iron)	2 x 9 MVA	FeSi- 18,000 TPA / FeMn- 66,000 TPA / SiMn- 36,000 TPA / Pig Iron- 72,000 TPA
9.	Power Plant	WHRB	66 MW
		CFBC	40 MW

MTPA stands for Million Tons per Annum

WHRB: Waste Heat Recovery Boiler

CFBC: Circulating Fluidized Bed Combustion

It is proposed to install briquetting plant of capacity 200 Kg/hr.

Note:

* **As per Specific ToR (xi)**, instead of 2x100 TPD DRI Kilns it is proposed to install only 1x200 TPD Kiln to reduce no. of Kilns in the proposal.

5. The EAC, in its 47th meeting of the Re-constituted EAC (Industry-I) held on 28-29th October, 2021, based on information & clarifications provided by the project proponent and after detailed deliberations recommended the proposal for grant of Environment Clearance subject to stipulation of specific and general conditions as detailed in the point below.

6. 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) hereby decided to grant Environment Clearance for instant proposal of M/s. Real Ispat & Power Limited under the provisions of EIA Notification, 2006 subject to the following specific conditions and general conditions:

A. Specific conditions

- i. Prior permission of the Competent Authority shall be obtained for withdrawal of 5640 KLD of surface water from Silva Anicut of Shivnath River before commencement of the project activity. No ground water abstraction is permitted.
- ii. Green belt shall be developed in 33% of the total area all along the entire periphery of the area with a density of 2500 trees per ha. This shall include development of green belt with a width of 20 m within the project site towards Bakulahi village and Daurbhata located at distance of 150m SE and 350 m NW from the project site.
- iii. Particulate matter emission from all the stacks shall not exceed 30 mg/Nm³.
- iv. Rain Water harvesting shall be implemented as per the action plan submitted in the EIA report.
- v. 100 % solid waste generated in the facility shall be utilized. Maximum 90 days storage capacity shall be allowed inside the plant complex for solid wastes.
- vi. 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.
- vii. Slip roads shall be provided at the gates and along crossings on main roads to avoid traffic congestion.
- viii. Performance monitoring of all Pollution Control Devices shall be carried out annually and report submitted to MoEF&CC, Regional Office.
- ix. SiMn slag shall be used for road construction and cement making. SMS slag shall be crushed for metal and flux recovery and aggregate shall be used for the purposes such as road construction, brick manufacturing and filling up of low-lying area etc.
- x. Tar generated from Producer Gas Plant (PGP) shall be used as fuel in Pellet plant and phenolic water shall be incinerated in After Burn Chamber (ABC) of DRI kilns.
- xi. Hot charging shall be achieved up to 85 % as committed and balance rolling shall be done through Reheating Furnace based on producer gas.
- xii. Air Cooled condensers shall be used in the captive power plant.
- xiii. 4th hole extraction system shall be provided in the Sub Merged Arc Furnaces.

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 four 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.

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 as far as possible.
- 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.

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.
- 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 shareholders / stakeholders. 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, NO_x (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. 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.
- xi. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiii. 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.
- xiv. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

7. This issues with the approval of the Competent Authority.


(Sundar Ramanathan)
Scientist 'E'

Copy to: -

1. Secretary, Department of Environment, Government of Chhattisgarh.
2. Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum office complex, East Arjun Nagar, Delhi-110032.
3. Chairman, Chhattisgarh Environment Conservation Board, Nanak Niwas, Civil Lines, Raipur, Chhattisgarh.
4. Regional Officer, Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Aranya Bhawan, North Block, Sector-19 Naya Raipur, Atal Nagar, Chhattisgarh - 492002.
5. Member Secretary, Central Ground Water Authority, A2, W3 Curzon Road Barracks, K.G. Marg, New Delhi-110001.
6. Chief Wildlife Warden, Govt. of Chhattisgarh, Aranya Bhawan, Jail Road, Fafadih Chowk, Raipur - 492001.
7. District Collector, Baloda Bazar – Bhatapara District, Chhattisgarh.
8. Guard File/Record File/Monitoring File.
9. MoEF&CC website.


(Sundar Ramanathan)
Scientist 'E'