



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

To,

The Director
ARDENT STEEL LTD
208, New Mining Colony, Jamuhota, Keonjhar,,Kendujhar,Orissa-758001

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/OR/IND/124925/2019 dated 28 Jun 2022. The particulars of the environmental clearance granted to the project are as below.

- | | |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. EC Identification No. | EC22A008OR110162 |
| 2. File No. | J-11011/112/2013-IA.II(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 | Environmental Clearance (EC) of Proposed Expansion of Iron Ore Pelletizing plant (0.85 MTPA to 1.7 MTPA) by addition of Iron Ore Beneficiation Plant (3.0 MTPA), Pig Iron Blast Furnace (0.60MTPA), DRI Plant (0.36MTPA), Sinter Plant (0.60 MTPA), SMS/Arc Furnace (ZPF) (0.72 MTPA), Rolling/Hot Strip Mill (0.7 MTPA) & CPP (WHRB-35 MW & AFBC-35 MW) at village - Phuljhar, Block - Banspal, Tehsil - Banspal and Dist. - Keonjhar, Odisha |
| 7. Name of Company/Organization | ARDENT STEEL LTD |
| 8. Location of Project | Orissa |
| 9. TOR Date | N/A |

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

Date: 17/10/2022

(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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PARIVESH

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



F. No. J-11011/112/2013-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: 17th October, 2022

To,

M/s. Ardent Steel Limited
208, New Mining Colony, Jamuhota,
Kendujhar, Orissa-758001
Email: director@ardentsteel.com

Project: Expansion of Iron Ore Pelletizing plant (0.85 MTPA to 1.7 MTPA) by addition of Iron Ore Beneficiation Plant (3.0 MTPA), Pig Iron Blast Furnace (0.60 MTPA), DRI Plant (0.36 MTPA), Sinter Plant (0.60 MTPA), SMS/Arc Furnace (ZPF) (0.72 MTPA), Rolling/Hot Strip Mill (0.7 MTPA) & CPP (WHRB-35 MW & AFBC-35 MW) by M/s. Ardent Steel Limited located at Village Phuljhar, Block Banspal, Tehsil Telkoi and District Keonjhar, Odisha – Grant of Environmental Clearance regarding.

Sir,

This refers to your proposal no. **IA/OR/IND/124925/2019** dated **28.06.2022** received through PARIVESH Portal for grant of **Environmental Clearance (EC)** for the project mentioned above. Further, PP has uploaded the ADS reply on 24th August 2022 on Portal.

2. As per the provisions of the Environment Impact Assessment (EIA) Notification, 2006, the above-mentioned project/activity is covered under category 'A' of schedule no. **3(a) Metallurgical Industries (ferrous & non-ferrous), 2(b) Mineral Beneficiation and 1(d) Thermal Power Plants** and appraised at Central Level.

3. The proposal has been earlier considered in the meeting of Expert Appraisal Committee (Industry-1 Sector) held on 30th June - 1st July, 2021 [vide proposal no. IA/OR/IND/18852/2013]. Further, the above mentioned proposal was placed before the EAC in its meetings held during 14-15 July, 2022, 30-31st August, 2022 and September 14-15, 2022. The minutes of the meetings 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 1 Sector) are as under: -

| S. No. | Particulars | Details |
|--------|----------------------------------------------|-----------------------------------------------------|
| a. | Terms of Reference for undertaking EIA study | 27.06.2018 |
| b. | Period of baseline data collection | March 2018 to May 2018 and 01.12.2020 to 28.02.2021 |
| c. | Date of Public Consultation | 28.02.2019 |



| S. No. | Particulars | Details | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| d. | Action plan to address the PH issues | An amount of Rs. 3.61 Crores have been earmarked to address the issues raised during public hearing and need based activity. Detail of activities proposed attached as Annexure 1 . | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| e. | Location of the project | Village Phuljhar, Block Banspal, Tehsil Telkoi and District Keonjhar, Odisha | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| f. | Latitude and Longitude of the project site | <table border="1"> <thead> <tr> <th>Name</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td colspan="3">Existing Plant Boundary</td> </tr> <tr> <td>Point A</td> <td>21°44'16.61"N</td> <td>85°25'36.56"E</td> </tr> <tr> <td>Point B</td> <td>21°44'15.94"N</td> <td>85°25'40.96"E</td> </tr> <tr> <td>Point C</td> <td>21°44'16.46"N</td> <td>85°25'43.93"E</td> </tr> <tr> <td>Point D</td> <td>21°44'13.50"N</td> <td>85°25'48.34"E</td> </tr> <tr> <td>Point E</td> <td>21°44'10.91"N</td> <td>85°25'55.11"E</td> </tr> <tr> <td>Point F</td> <td>21°44'7.56"N</td> <td>85°26'0.81"E</td> </tr> <tr> <td>Point G</td> <td>21°44'4.47"N</td> <td>85°26'6.28"E</td> </tr> <tr> <td>Point H</td> <td>21°44'3.72"N</td> <td>85°26'12.13"E</td> </tr> <tr> <td>Point I</td> <td>21°44'7.29"N</td> <td>85°26'16.95"E</td> </tr> <tr> <td>Point J</td> <td>21°44'18.60"N</td> <td>85°26'18.12"E</td> </tr> <tr> <td>Point K</td> <td>21°44'20.52"N</td> <td>85°26'8.07"E</td> </tr> <tr> <td>Point L</td> <td>21°44'16.22"N</td> <td>85°25'53.70"E</td> </tr> <tr> <td>Point M</td> <td>21°44'20.85"N</td> <td>85°25'51.05"E</td> </tr> <tr> <td>Point N</td> <td>21°44'22.83"N</td> <td>85°25'40.20"E</td> </tr> <tr> <td>Point O</td> <td>21°44'21.25"N</td> <td>85°25'37.00"E</td> </tr> <tr> <td colspan="3">Proposed Plant Boundary</td> </tr> <tr> <td>Point A</td> <td>21°44'3.09"N</td> <td>85°26'5.82"E</td> </tr> <tr> <td>Point B</td> <td>21°43'43.35"N</td> <td>85°26'16.06"E</td> </tr> <tr> <td>Point C</td> <td>21°43'45.92"N</td> <td>85°26'33.75"E</td> </tr> <tr> <td>Point D</td> <td>21°43'31.94"N</td> <td>85°26'28.22"E</td> </tr> <tr> <td>Point E</td> <td>21°43'36.85"N</td> <td>85°26'37.23"E</td> </tr> <tr> <td>Point F</td> <td>21°44'4.43"N</td> <td>85°26'39.26"E</td> </tr> <tr> <td>Point G</td> <td>21°44'4.88"N</td> <td>85°26'17.53"E</td> </tr> </tbody> </table> | Name | Latitude | Longitude | Existing Plant Boundary | | | Point A | 21°44'16.61"N | 85°25'36.56"E | Point B | 21°44'15.94"N | 85°25'40.96"E | Point C | 21°44'16.46"N | 85°25'43.93"E | Point D | 21°44'13.50"N | 85°25'48.34"E | Point E | 21°44'10.91"N | 85°25'55.11"E | Point F | 21°44'7.56"N | 85°26'0.81"E | Point G | 21°44'4.47"N | 85°26'6.28"E | Point H | 21°44'3.72"N | 85°26'12.13"E | Point I | 21°44'7.29"N | 85°26'16.95"E | Point J | 21°44'18.60"N | 85°26'18.12"E | Point K | 21°44'20.52"N | 85°26'8.07"E | Point L | 21°44'16.22"N | 85°25'53.70"E | Point M | 21°44'20.85"N | 85°25'51.05"E | Point N | 21°44'22.83"N | 85°25'40.20"E | Point O | 21°44'21.25"N | 85°25'37.00"E | Proposed Plant Boundary | | | Point A | 21°44'3.09"N | 85°26'5.82"E | Point B | 21°43'43.35"N | 85°26'16.06"E | Point C | 21°43'45.92"N | 85°26'33.75"E | Point D | 21°43'31.94"N | 85°26'28.22"E | Point E | 21°43'36.85"N | 85°26'37.23"E | Point F | 21°44'4.43"N | 85°26'39.26"E | Point G | 21°44'4.88"N | 85°26'17.53"E |
| Name | Latitude | Longitude | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Existing Plant Boundary | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Point A | 21°44'16.61"N | 85°25'36.56"E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Point B | 21°44'15.94"N | 85°25'40.96"E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Point C | 21°44'16.46"N | 85°25'43.93"E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Point D | 21°44'13.50"N | 85°25'48.34"E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Point E | 21°44'10.91"N | 85°25'55.11"E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Point F | 21°44'7.56"N | 85°26'0.81"E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Point G | 21°44'4.47"N | 85°26'6.28"E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Point H | 21°44'3.72"N | 85°26'12.13"E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Point I | 21°44'7.29"N | 85°26'16.95"E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Point J | 21°44'18.60"N | 85°26'18.12"E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Point K | 21°44'20.52"N | 85°26'8.07"E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Point L | 21°44'16.22"N | 85°25'53.70"E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Point M | 21°44'20.85"N | 85°25'51.05"E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Point N | 21°44'22.83"N | 85°25'40.20"E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Point O | 21°44'21.25"N | 85°25'37.00"E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Proposed Plant Boundary | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Point A | 21°44'3.09"N | 85°26'5.82"E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Point B | 21°43'43.35"N | 85°26'16.06"E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Point C | 21°43'45.92"N | 85°26'33.75"E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Point D | 21°43'31.94"N | 85°26'28.22"E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Point E | 21°43'36.85"N | 85°26'37.23"E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Point F | 21°44'4.43"N | 85°26'39.26"E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Point G | 21°44'4.88"N | 85°26'17.53"E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| g. | Total land | 116.282 ha [Private: 18.334 ha; Govt: 61.166 ha; Other Land: 36.781 ha] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| h. | Land acquisition details as per MoEF&CC O.M. dated 7/10/2014 | Out of the 116.282 hectare of land, 36.781 hectare of land is already in possession of M/s Ardent Steel Limited & for rest of land (79.501 hectare) is under process. In this connection the PP has submitted that they have already deposited desired amount for alienation of the land. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i. | Existence of habitation & involvement of R&R, if any | <p>Project Site: Nil</p> <p>Study Area:</p> <table border="1"> <thead> <tr> <th>Habitation</th> <th>Distance</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>Keonjhar</td> <td>28.0 km</td> <td>S</td> </tr> </tbody> </table> <p>Ardent Steel Ltd, is going to adopt both "The Right to Fair Compensation and Transparency in Land Acquisition,</p> | Habitation | Distance | Direction | Keonjhar | 28.0 km | S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Habitation | Distance | Direction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Keonjhar | 28.0 km | S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| S. No. | Particulars | Details | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------|---------------------------|-----------------|------|-------|---------------|-----|---|-------------|-----|---|-------------|-----|---|-----------------|-----|---|------------------|-----|---|-----------------|-----|----|--------------|-----|----|----------------|-----|---|
| | | Rehabilitation and Resettlement Act, 2013 (RFTLARR-2013) by Govt. of India" and Odisha Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act,2016 (ORFTLARR-2013) by Govt. of Odisha, 2016 in order to ensure their improvement in their post-acquisition socio-economic status in consultation with direct and indirect stakeholders and other statutory different govt. line department during the time of land acquisition. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| j. | Elevation of the project site | 540 m AMSL. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| k. | Involvement of Forest land if any. | No involvement of Forest Land. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| l. | Water body exists within the project site as well as study area | <p>Project Site: 01 Nos. artificial ponds (rain water harvesting pond)..</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>Baitarani River</td> <td>4.3</td> <td>W</td> </tr> <tr> <td>Jagdala River</td> <td>2.5</td> <td>E</td> </tr> <tr> <td>Malda River</td> <td>6.2</td> <td>W</td> </tr> <tr> <td>Bamni Nalla</td> <td>1.5</td> <td>W</td> </tr> <tr> <td>Jagadhala Nalla</td> <td>1.7</td> <td>E</td> </tr> <tr> <td>Patarpangi Nalla</td> <td>7.5</td> <td>S</td> </tr> <tr> <td>Bragarhia Nalla</td> <td>8.5</td> <td>NE</td> </tr> <tr> <td>Ghagra Nalla</td> <td>8.9</td> <td>NW</td> </tr> <tr> <td>Panisuan Nalla</td> <td>9.6</td> <td>W</td> </tr> </tbody> </table> | Water body | Distance | Direction | Baitarani River | 4.3 | W | Jagdala River | 2.5 | E | Malda River | 6.2 | W | Bamni Nalla | 1.5 | W | Jagadhala Nalla | 1.7 | E | Patarpangi Nalla | 7.5 | S | Bragarhia Nalla | 8.5 | NE | Ghagra Nalla | 8.9 | NW | Panisuan Nalla | 9.6 | W |
| Water body | Distance | Direction | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Baitarani River | 4.3 | W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jagdala River | 2.5 | E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Malda River | 6.2 | W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bamni Nalla | 1.5 | W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jagadhala Nalla | 1.7 | E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Patarpangi Nalla | 7.5 | S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bragarhia Nalla | 8.5 | NE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ghagra Nalla | 8.9 | NW | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Panisuan Nalla | 9.6 | W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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>One Reserve Forest and Four protected forest is present within 10 km area of the project.</p> <ol style="list-style-type: none"> 1. Nayagarh RF – 4.4 km, NE 2. Amuni PF- 5.6 km, SE 3. Gandhamardan PF- 7.2 km, SE 4. Raiguda PF- 6.9 km, SW <p>Jagar PF- 9.7 km, S</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| n. | Project cost | Existing capital cost of project was Rs. 133.96 Crores. The capital cost of the proposed project is Rs. 1805.39 Crores | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| o. | EMP cost | <table border="1"> <thead> <tr> <th>Type</th> <th>Capital (Rs. in Crores)</th> <th>Recurring (Rs. in Crores)</th> </tr> </thead> <tbody> <tr> <td>Proposed</td> <td>50.0</td> <td>10.25</td> </tr> </tbody> </table> | Type | Capital (Rs. in Crores) | Recurring (Rs. in Crores) | Proposed | 50.0 | 10.25 | | | | | | | | | | | | | | | | | | | | | | | | |
| Type | Capital (Rs. in Crores) | Recurring (Rs. in Crores) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Proposed | 50.0 | 10.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| p. | Employment opportunity | The employment generation from the proposed expansion is 634 (Direct additional employment - Regular & Contractual). | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| q. | Water and Power requirement | Water – Total water requirement after the proposed expansion will be 13,330 m ³ /day, Total Power required for after the proposed expansion will be 60.8 MW | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Unit configuration and capacity:

| S I. N o. | Plant Equip ment/ Facilit y | Existing facilities as per EC dated 29.03.2016 & 13.02.2020 | | | | | | | | Proposed Unit | | Final (Existing + Proposed) | | Rem arks |
|--------------------|-------------------------------------------|----------------------------------------------------------------|------------------|--------------------------------|------------------|-----------------------|--------------|--------------------------------|------------------|---------------------------------------|------------------|-------------------------------------------------------------------------|------------------|-------------|
| | | Total (A+B) | | Implemen ted (A) | | Unimplemen ted (B) | | As per CTO* | | | | | | |
| | | Config uration | Cap acity | Config uration | Cap acity | Config uration | Cap acity | Config uration | Cap acity | Config uration | Cap acity | Config uration | Cap acity | |
| 1 | Iron Ore Pellet Plant | One Kiln of 0.69 MTPA | 0.69 MTP A | One Kiln of 0.69 MTPA | 0.69 MTP A | -- | -- | One Kiln of 0.85 MTPA | 0.85 MTP A | One Kiln of 0.85 MTPA | 0.85 MTP A | One Kiln of 0.85 MTPA and One Kiln of 0.85 MTPA | 1.7 MTP A | Pelle t |
| 2 | Iron Ore Benefi ciation Plant | -- | -- | -- | -- | -- | -- | -- | -- | 3.0 MTPA | 3.0 MTP A | 3.0 MTPA | 3.0 MTP A | |
| 3 | DRI Plant | -- | -- | -- | -- | -- | -- | -- | -- | 2 x 600 TPD | 0.36 MTP A | 2 x 600 TPD | 0.36 MTP A | |
| 4 | Pig Iron (Blast Furnac e) | -- | -- | -- | -- | -- | -- | -- | -- | 550 m ³ | 0.6 MTP A | 550 m ³ | 0.6 MTP A | |
| 5 | Sinter Plant | -- | -- | -- | -- | -- | -- | -- | -- | 60 m ² x 1 | 0.6 MTP A | 60 m ² x 1 | 0.6 MTP A | |
| 6 | SMS/ Arc Furnac e | -- | -- | -- | -- | -- | -- | -- | -- | 1x75T (ZPF) & 1x75T (LRF) | 0.72 MTP A | 1x75T (ZPF) & 1x75T (LRF) | 0.72 MTP A | |
| 7 | Rollin g Mills | -- | -- | -- | -- | -- | -- | -- | -- | 0.70 MTPA | 0.70 MTP A | 0.70 MTPA | 0.70 MTP A | |
| 8 | Captiv e | -- | -- | -- | -- | -- | -- | -- | -- | WHRB 35 MW | 70 MW | WHRB 35 MW | 70 MW | |



| S I. N o. | Plant Equip ment/ Facilit y | Existing facilities as per EC dated 29.03.2016 & 13.02.2020 | | | | | | | | Proposed Unit | | Final (Existing + Proposed) | | Rem arks |
|--------------------|--------------------------------------------|----------------------------------------------------------------|--------------|---------------------|--------------|-----------------------|--------------|-------------------|--------------|--------------------|--------------|-----------------------------------|--------------|-------------|
| | | Total (A+B) | | Implemen ted (A) | | Unimplemen ted (B) | | As per CTO* | | Config uration | Cap acity | Config uration | Cap acity | |
| | | Config uration | Cap acity | Config uration | Cap acity | Config uration | Cap acity | Config uration | Cap acity | | | | | |
| | Power Plant (WHR B + AFBC) | | | | | | | | | + AFBC 35 MW | | + AFBC 35 MW | | |

**Note: Consent to Establish for expansion from 0.69 MTPA to 0.85 MTPA Pellet Plant was obtained vide letter no. 1164/IND-II-CTE6437, dated 29.01.2021 under "No Increase Pollution Load Certificate" vide Notification No. S.O. 3518(E), dated 23.11.2016 and amended notification vide S.O. 236(E), dated 16.01.2020.*

5. The EAC, in its meeting held during 30-31st August, 2022, inter-alia, deliberated the following:
- i. Instant proposal is for expansion of Iron Ore Pelletizing plant (0.85 MTPA to 1.7 MTPA) along with additional installation of Iron Ore Beneficiation (3.0 MTPA), DRI Plant (0.36 MTPA), Pig Iron Blast Furnace (0.6 MTPA), Sinter Plant (0.60 MTPA), SMS (0.72 MTPA), Rolling Mills (0.7 MTPA) & Captive Power Plant- 70 MW (WHRB-35 MW & AFBC-35 MW).
 - 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. Out of the 116.282 hectare of land, 36.781 hectare of land is already in possession of M/s Ardent Steel Limited & rest of the land (i.e. 79.501 hectare) is under process.
 - vi. 01 Nos. artificial ponds (rain water harvesting pond) exists in the project site. Rivers and nallahs exists within the study area from the project site.



- vii. There is 1 no. of Schedule - I species reported in study area, namely Elephant (*Elephas maximus*). Site Specific Wildlife Conservation Plan has been approved by PCCF(Wildlife) & Chief Wildlife Warden vide letter NO. 2708/CWLW-FDWC-MISC-0002-2022 dated 26.03.2022 with a budgetary provision of Rs. 134.606 Lakhs.
- viii. Existing green belt has been developed in 12.171 ha area which is about 33.09% of the total project area of 36.781 ha with total sapling of 18,210 Trees. Proposed greenbelt will be developed in 27.030 ha which is about 34.0% of the total project area 79.501 ha. Thus total of 39.171ha area (33.68% of total project area) will be developed as greenbelt. Total no. of 67500 saplings will be planted and nurtured in 27.030 hectares in 4 years.
- ix. PP has submitted an undertaking vide letter dated 15.07.2022 for adoption of 7 villages namely Bhuyansahi, Fuljhar, Rugudisahi, Rangamatia, Andharikhaman, Chhatana and Balabhadrapur.
 - x. The Committee has also found that the baseline data and incremental GLC due to the proposed project within NAAQ standards.
 - xi. The Committee deliberated on the action plan and budget allocation for green belt development and noted that as committed by the PP the green belt development shall be completed within one year.
 - xii. 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.
 - xiii. The Committee deliberated upon the certified compliance report of IRO MoEFCC as well as action taken report submitted by PP with respect to the observations reported by IRO along with the review report of IRO. The EAC noted that some of the conditions are still not complied / partially complied. The IRO re-visited the site on 24.06.2022 to monitor the status of not-complied/Partially complied conditions and IRO MoEF&CC has issued the comments on ATR submitted by PP vide letter no. 101-884/EPE/2073, dated 23.08.2022. Project proponent vide letter dated 31.08.2022 has submitted an undertaking to comply with not-complied/Partially complied conditions. PP has also submitted a photo affidavit vide certificate dated 24.08.2022 regarding installation of CAAMQS. EAC directed the PP to complete all the tasks by the stipulated timelines and report shall be submitted to IRO, MoEFCC.
 - xiv. The EAC deliberated on the ADS reply submitted by the PP and found it satisfactory.
 - xv. The EAC also deliberated on the written submissions submitted by the proponent and found it satisfactory.
 - xvi. 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.
 - xvii. 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 meetings of Expert Appraisal Committee (Industry-1 Sector) held on 30-31 August, 2022 and September 14-15, 2022, based on information & clarifications provided by the project proponent and after detailed deliberations **recommended** the proposal for grant of Environment Clearance under the provisions of EIA Notification, 2006 subject to the 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. Ardent Steel 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 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. Land acquisition shall be completed prior to commencement of project activities.
- iv. 01 Nos. artificial ponds (rain water harvesting pond) exists in the project site. Rivers and nallahs exists within the study area from the project site. The water bodies shall not be disturbed. Mitigation measures as committed w.r.t. safeguarding the water bodies shall be implemented.
- v. As committed vide undertaking dated 15.07.2022 for adoption of 7 villages namely Bhuyansahi, Fuljhar, Rugudisahi, Rangamatia, Andharikhaman, Chhatana and Balabhadrapur, PP shall formulate Village Adoption program consisting of need-based community development activities, in consultation with the district administration and the village panchayats and implement the same to develop them into model villages.
- vi. Project Proponent shall strictly comply with the conditions observed by the IRO in the CCR and compliance status in this regard, shall be submitted to concerned Integrated Regional Office of the MoEF&CC. PP shall install CAAMQS by 31.12.2022 as committed.
- vii. Tailings from Iron Ore washing plant shall be dewatered in filter press and no slime /tailing pond shall be permitted.
- viii. Solid waste utilization
 - 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.
 - PP shall recycle/reuse 100 % solid waste generated in the plant.



- Used refractories shall be recycled as far as possible.
- ix. Sinter Plant shall be equipped with Sinter cooler waste recovery system and suitable technology for control of dioxins and furans emissions from the plant.
- x. Tar shall be recovered from producer gas and shall be sold to registered processors and phenolic water shall be incinerated in After Burn Chamber (ABC) of DRI kilns.
- xi. Blast Furnaces shall be equipped with Top Recovery Turbine (capacity more than 450m³), dry gas cleaning plant, stove waste heat recovery, cast house and stock house ventilation system and slag granulation facility.
- xii. Secondary fume extraction system shall be installed on converters of Steel Melting Shop.
- xiii. Submerged Arc/Electric Arc Furnace shall be closed type with 4th hole extraction system.
- xiv. 85-90 % of billets shall be rolled directly in hot stage. RHF shall operate using only Light Diesel Oil or Mixed BF/CO gas/Producer gas.
- xv. Dust emission from Steel Plant stacks shall be up to 30 mg/Nm³.
- xvi. The water requirement for the proposed project is estimated as 12,830 m³/day which will be obtained from Baitarani River after obtaining necessary permission. No GW abstraction is permitted.
- xvii. Three tier Green Belt shall be developed 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. Project Proponent shall explore the possibility to minimise the felling of trees to bare minimum in their project site.
- xx. Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Regional Office of the MoEF&CC.
- xxi. Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.
- xxii. PP shall make arrangements for impervious sheets to avoid pollution and to construct shed for iron ore fines on or before 31st March 2023 as committed.
- xxiii. The proposed project shall be designed as "Zero Liquid Discharge" Plant. No waste water will be discharged outside the plant boundary.
- xxiv. Air cooled condensers shall be used in the power plant.
- xxv. The Unit is existing and using coal and coke. Therefore, the industry is recommended to measure silica and coal dust exposures using personal and area air samplers in process plants and to be compared with Permissible exposure limits as per Indian Factories Act, 1948. Report to be submitted to the IRO, MoEF&CC.
- xxvi. A proper action plan must be implemented to dispose of the electronic waste generated
- xxvii. 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.



- xxviii. 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.
- xxix. 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.
- xxx. 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 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. 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 'E'/Additional Director
Tel: 011-20819346
Email-rb.lal@nic.in

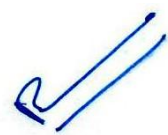
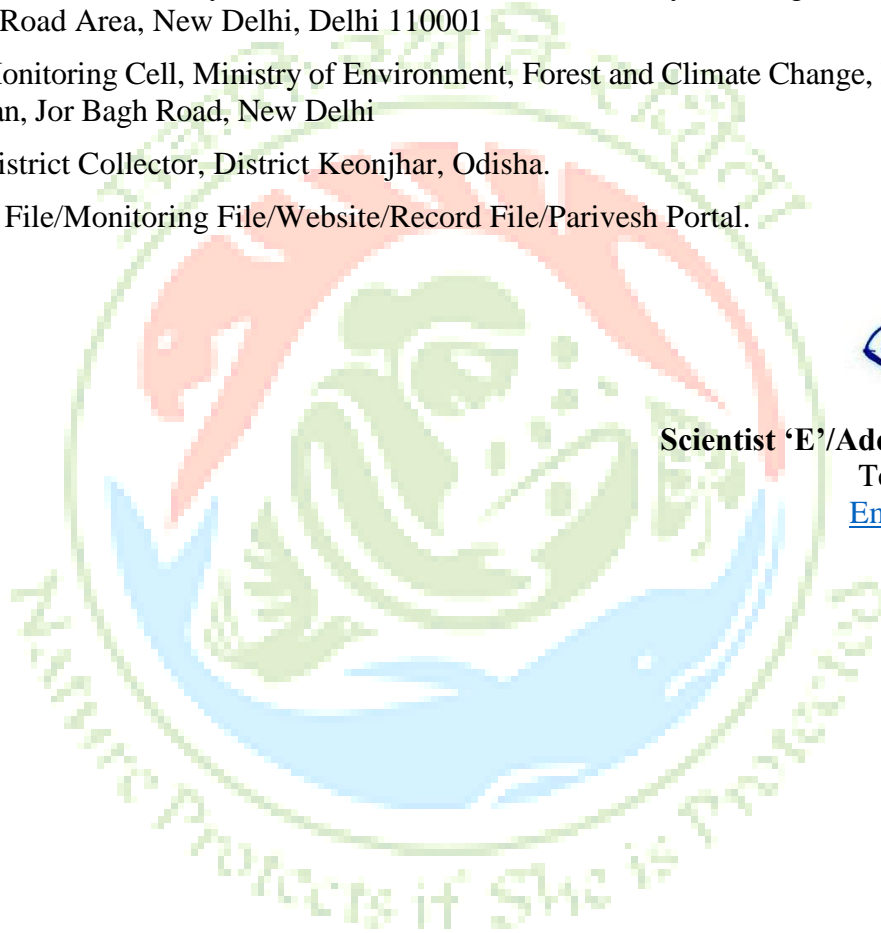
Encl. as above at Annexure –I

Copy to: -

1. The Secretary, Department of Environment, Government of Odisha, Secretariat, Bhubaneswar.



2. The Director General of Forest, Ministry of Environment, Forest and Climate Change, New Delhi
3. Regional Officer, Ministry of Environment, Forest and Climate Change, Integrated Regional Office, A/3, Chandrasekharpur, Bhubaneswar – 751023.
4. The Member Secretary, Central Pollution Control Board, CBD-Cum-Office Complex, East Arjun Nagar, New Delhi-110 032.
5. The Member Secretary, Odisha State Pollution Control Board, Parivesh Bhawan, A/118 Nilakantha Nagar, Unit-VIII, Bhubaneswar-751012.
6. Chief Wildlife Warden, Govt. of Odisha, 5th Floor, BDA Apartments, Prakruti Bhawan, Nilakantha Nagar, Nayapalli, Bhubaneswar-751012
7. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi, Delhi 110001
8. The Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi
9. The District Collector, District Keonjhar, Odisha.
10. Guard File/Monitoring File/Website/Record File/Parivesh Portal.



(Dr. R. B. Lal)
Scientist 'E'/Additional Director
Tel: 011-20819346
[Email-rb.lal@nic.in](mailto:rb.lal@nic.in)



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

| S. No | Major Activity | Year of Implementation | | | Total Expenditure (Rs. in Lacs) | |
|---------------------------------------------|-------------------------------------------------|------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------|
| | | 1 st Year (Rs. in Lacs) | 2 nd Year (Rs. in Lacs) | 3 rd Year (Rs. in Lacs) | | |
| Based on Public Consultation/Hearing | | | | | | |
| EDUCATION | | | | | | |
| i | Setting up Library | Physical Nos. & Villages | 1 No. each Gopabandhu Nodal High School, Phuljhar & UGME School, Kendughati | 1 No. each High School, Raigoda & UGME School, Kasia | -- | 8.0 |
| | | Budget in Lacs | 4.0 | 4.0 | -- | |
| ii | Setting of Play Zone | Physical Nos. & Villages | 1 No. each Gopabandhu Nodal High School, Phuljhar & UGME School, Kendughati | 1 No. each High School, Raigoda & UGME School, Kasia | -- | 8.0 |
| | | Budget in Lacs | 4 | 4 | -- | |
| iii | Engagement of Teachers | Physical Nos. & Villages | 3 Nos. in Gopabandhu Nodal High School, Phuljhar | 2 Nos. in Gopabandhu Nodal High School, Phuljhar | 1 No. in UGME School, Kendughati, 1 No. in Gopabandhu Nodal High School, Phuljhar, 2 Nos. each High School, Raigoda, 1 No. UGME School, Kasia | 12.0 |
| | | Budget in Lacs | 3.6 | 2.4 | 6.0 | |
| iv | Providing Electricity, Internal Lighting & Road | Physical Nos. & Villages | Gopabandhu Nodal High School, Phuljhar | High School, Raigoda | -- | 15.0 |
| | | Budget in Lacs | 7.5 | 7.5 | -- | |



| S. No | Major Activity | | Year of Implementation | | | Total Expenditure (Rs. in Lacs) |
|------------------|----------------------------------------------------------|--------------------------|------------------------------------|------------------------------------|------------------------------------|---------------------------------|
| | | | 1 st Year (Rs. in Lacs) | 2 nd Year (Rs. in Lacs) | 3 rd Year (Rs. in Lacs) | |
| v | Running Nursery School by providing Rent | Physical Nos. & Villages | 1 no. in Phuljhar | 1 no. in Phuljhar | 1 no. in Phuljhar | 4.5 |
| | | Budget in Lacs | 1.5 | 1.5 | 1.5 | |
| vi | Computer Education by IT expert | Physical Nos. & Villages | Phuljhar | Kasia | Raigoda | -- |
| | | Budget in Lacs | -- | -- | -- | |
| Total (A) | | | | | | 47.5 |
| HEALTH | | | | | | |
| i | Construct of additional rooms in Phuljhar PHC | Physical Nos. & Villages | Phuljhar | -- | -- | 10.0 |
| | | Budget in Lacs | 10.0 | -- | -- | |
| ii | Construction of 20 Beded Covid Hospital & its management | Physical Nos. & Villages | Plant Premises, Phuljhar | -- | -- | 6.0 |
| | | Budget in Lacs | 6.0 | -- | -- | |
| iii | Engagement of Doctors | Physical Nos. & Villages | 2 nos. PHC Phuljhar | 2 nos. PHC Phuljhar | 2 nos. PHC Phuljhar | 36.0 |
| | | Budget in Lacs | 12.0 | 12.0 | 12.0 | |
| iv | Engage Ambulance & Management | Physical Nos. & Villages | 1 no. PHC Phuljhar | 1 no. PHC Phuljhar | 1 no. PHC Phuljhar | 12.5 |
| | | Budget in Lacs | 4.0 | 4.0 | 4.5 | |
| v | Health Camp | Physical | -- | Phuljhar | Phuljhar Village | |



| S. No | Major Activity | | Year of Implementation | | | Total Expenditure (Rs. in Lacs) |
|---------------------------------------------------|------------------------------------------------|----------------------------|-------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| | | | 1 st Year (Rs. in Lacs) | 2 nd Year (Rs. in Lacs) | 3 rd Year (Rs. in Lacs) | |
| | | 1 Nos. & Villages | | Village | | |
| | | Budget in Lacs | -- | 0.5 | 0.5 | 1.0 |
| Total (B) | | | | | | 65.5 |
| DRINKING WATER FACILITY | | | | | | |
| i | Construction of new Tubewells & Management | Physical 1 Nos. & Villages | 1 no. each at Dudukupada Sahi, Rangamatia Sahi, Rugudi Sahi | 1 no. each at Majhi sahi & Munda Sahi | 1 no. each at Mata Sahi, Ratha Sahi, Bhuina Sahi, Bhuina Sahi, Dhaladhi & Patra Sahi | |
| | | Budget in Lacs | 4.5 | 3.0 | 7.5 | 15.0 |
| ii | Distribution of Surface Water through Pipeline | Physical 1 Nos. & Villages | -- | -- | Phuljhar Village | |
| | | Budget in Lacs | -- | -- | 100.0 | 100.0 |
| Total (C) | | | | | | 115.0 |
| COMMUNITY & INFRASTRUCTURE DEVELOPMENT | | | | | | |
| i | Road Network (Constructed new exist point) | Physical 1 Nos. & Villages | Phuljhar Village | -- | Maintenance of Two nos. of bypasses has been planned to construct one in between Anra to Jagadal Dam and another for movement of inward and outward material without using the existing gate after completion | |
| | | Budget in Lacs | 5.0 | -- | 50.0 | 55.0 |
| ii | Installation of Solar Lights | Physical 1 Nos. | 2 nos. (Rugudi) | 2 nos. (Mata Sahi & | 4 nos. (Munda Sahi of Andharikhaman | |



| S. No | Major Activity | | Year of Implementation | | | Total Expenditure (Rs. in Lacs) |
|------------------------------|---------------------------------------------|--------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------|
| | | | 1 st Year (Rs. in Lacs) | 2 nd Year (Rs. in Lacs) | 3 rd Year (Rs. in Lacs) | |
| | | & Villages | Sahi & Rangamatia Sahi) in Phuljahr Village | Munda Sahi) in Phuljahr Village | village, Bhuina Sahi, Munda Sahi of Talraiguda village & Mahanta Sahi) | |
| | | Budget in Lacs | 6.0 | 6.0 | 12.0 | 24.0 |
| iii | Construction of Community Latrine & Toilets | Physical Nos. & Villages | 1 no. each at Rugudi Sahi & Rangamatia Sahi in Phuljahr Village | 1 no. each at Mata Sahi, Phuljahr Village & Munda Sahi, Andharikha man village | 1 no. each at Mahanta Sahi, Munda Sahi, Munda Sahi & Bhuina Sahi | |
| | | Budget in Lacs | 6.0 | 6.0 | 12.0 | 24.0 |
| iv | Construction of ITI Centre | Physical Nos. & Villages | -- | -- | 1 no. in Phuljahr Village | |
| | | Budget in Lacs | -- | -- | 30.0 | 30.0 |
| Total (D) | | | | | | 133.0 |
| Grand Total (A+B+C+D) | | | | | | 361.0 |

