



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

To,

The Associate Director

JAYASWAL NECO INDUSTRIES LIMITED

M/s Jayaswal Neco Industries Ltd., Siltara Growth Centre, Siltara,  
Raipur.,Raipur,Chhattisgarh-493111

**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/IND1/419709/2023 dated 11 Mar 2023. The particulars of the environmental clearance granted to the project are as below.

- |   |  |
|---|--|
| 1. <b>EC Identification No.</b>                   | <b>EC23A008CG173115</b>  |
| 2. <b>File No.</b>                                | J-11011/883/2008-IA.II(IND-I)  |
| 3. <b>Project Type</b>                            | Expansion  |
| 4. <b>Category</b>                                | A  |
| 5. <b>Project/Activity including Schedule No.</b> | 3(a) Metallurgical industries (ferrous & non ferrous)  |
| 6. <b>Name of Project</b>                         | Expansion & Modernization of Integrated Steel Plant-BF-0.75 to 2.0 MTPA (0.75 to 1 MTPA through modernization), Sinter Plant-0.8 to 2.8 MTPA, Pellet Plant-1.5 to 3.0 MTPA, Coke Oven-0.2 to 1.1 MTPA, Oxygen Plant-510 to 1500 TPD, SMS-1.2 to 2.4 MTPA, RM-1.2 to 2.4 MTPA, Cement Grinding unit-2.4 MTPA, PGP-1,16,000 Nm <sup>3</sup> /hr, Power Plant-26 to 130 MW (104 MW-BF GAS & COKE OVEN GAS), Under CTE/CTO-DRI (350 +500 TPD)-0.27 MTPA (0.12 +0.15) to 0.35 MTPA, Power plant-30 MW (2x15 MW WHRB & AFBC) |
| 7. <b>Name of Company/Organization</b>            | JAYASWAL NECO INDUSTRIES LIMITED   |
| 8. <b>Location of Project</b>                     | Chhattisgarh   |
| 9. <b>TOR Date</b>                                | N/A  |

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

Date: 11/10/2023

(e-signed)  
Dr. R B Lal  
Scientist F

IA - (Industrial Projects - 1 sector)

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



**F. No. J-11011/883/2008-IA.II(I)**  
**Government of India**  
**Ministry of Environment, Forest and Climate Change**  
**(I.A. Division – Industry I sector)**

\*\*\*

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

**Dated: 11<sup>th</sup> October, 2023**

To,

**M/s Jayaswal Neco Industries Ltd.**  
Siltara Growth Centre, Siltara  
Raipur-493111, Chhattisgarh  
Email: jnil.envfor@necoindia.com

**Project: Expansion & Modernization of Integrated Steel Plant-Blast Furnace - 0.75 MTPA to 2.00 MTPA (0.75 MTPA to 1 MTPA through modernization) Sinter Plant - 0.80 MTPA to 2.80 MTPA, Pellet Plant -1.5 MTPA to 3.0 MTPA, Coke Oven -0.20 MTPA to 1.10 MTPA, Air Separation unit (Oxygen Plant) - 510 TPD to 1500 TPD, Steel Melt Shop -1.20 MTPA to 2.40 MTPA, Rolling Mill - 1.20 MTPA to 2.40 MTPA, Cement Grinding unit-2.40 MTPA, Producer Gas Plant - 1,16,000 Nm<sup>3</sup>/hr., Power Plant - 26 MW to 130 MW (Proposed 104 MW-BF GAS and COKE OVEN GAS) DRI Plant (350 TPD + 500 TPD) - 0.27 MTPA(0.12 +0.15) to 0.35 MTPA (Under CTE/CTO Now), Power plant - 30 MW (2x 15 MW Turbine - WHRB and AFBC, Operating Under CTE/CTO) by M/s Jayaswal Neco Industries Limited, located at Siltara Industrial Growth Center, Siltara, Sankra, Giroud, Dhaneli (V), Raipur (D & T), Chhattisgarh – Grant of Environmental Clearance-regarding.**

Sir,

This refers to your proposal no. No. IA/CG/IND1/419709/2023; dated 11.03.2023 along with copy of EIA report and Forms (Part A, B and C) and certified compliance report 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 portal on 05.06.2023 and 18.07.2023.

2. The proposed project activity is listed at S. No. **3(a) Metallurgical industries (ferrous & non-ferrous) and 1(d) Thermal Power Plants under Category “A”** of the schedule of the EIA Notification, 2006 and appraised at Central Level.

3. The instant Proposal was earlier placed before the EAC in its 25<sup>th</sup> meeting held during 21-23 March 2023 wherein the EAC has deferred the proposal. The proposal was reconsidered in 39<sup>th</sup> EAC Meeting held during 6<sup>th</sup> – 7<sup>th</sup> July, 2023 wherein, after detailed deliberations, the Committee recommended the proposal for grant of Environment Clearance under the provisions of EIA Notification, 2006 with certain specific conditions and general conditions. Upon request of the PP for certain modification in MoM of 39<sup>th</sup> EAC meeting, the proposal was further placed before the EAC in its 41<sup>st</sup> meeting held on 2<sup>nd</sup>, 4<sup>th</sup> & 8<sup>th</sup> August 2023. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed at <https://parivesh.nic.in>

4. The details of the proposal are as per the EIA/EMP report submitted by the proponent. The salient features of the proposal as presented during the above-mentioned meetings of EAC (Industry 1 Sector) are as under: -

S. No.	Particulars	Details submitted by the PP		
a.	Terms of Reference for undertaking EIA study	10.11.2021		
b.	Period of baseline data collection	15 <sup>th</sup> October 2021 to 15 <sup>th</sup> January 2022		
c.	Date of Public Consultation	25.05.2022		
d.	Action plan to address the PH issues	Amounts of Rs 85.60 Cr have been earmarked to address the issues raised during public hearing. Detail of activities proposed attached as <b>Annexure 1.</b>		
e.	Location of the project	Siltara Industrial Growth Center, Siltara, Sankra, Giroud, Dhaneli (V), Raipur (D & T), Chhattisgarh		
f.	Latitude and Longitude of the project site	<b>S.no</b>	<b>Latitude</b>	<b>Longitude</b>
		1	21°20'45.93"N	81°39'23.27"E
		2	21°20'51.61"N	81°40'13.71"E
		3	21°20'33.46"N	81°40'6.08"E
		4	21°20'28.22"N	81°40'2.18"E
		5	21°20'25.50"N	81°40'10.13"E
		6	21°20'20.69"N	81°40'10.12"E
		7	21°20'23.46"N	81°40'24.45"E
		8	21°20'38.26"N	81°40'24.29"E
		9	21°20'37.77"N	81°40'28.52"E
		10	21°20'42.08"N	81°40'29.08"E
		11	21°20'43.14"N	81°40'15.11"E
		12	21°20'51.04"N	81°40'14.67"E
		13	21°20'57.61"N	81°40'37.80"E
		14	21°20'44.00"N	81°41'8.81"E
		15	21°21'14.48"N	81°40'56.05"E
		16	21°21'41.59"N	81°40'56.32"E
		17	21°21'56.20"N	81°40'19.36"E
		18	21°21'48.71"N	81°39'53.69"E
		19	21°21'15.22"N	81°39'36.47"E
		20	21°20'54.45"N	81°39'28.95"E
g.	Total land	481.292 Ha. (1189.3 Acres)		
h.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014	<b>Particular of land</b>		<b>Area in Hectare</b>
		CSIDC Leased Land (lease)		417.35
		Land came in possession due to merger of adjoining assets vide high court order		35.721
		Private land (acquired )		28.221
		Total		481.292
i.	Existence of habitation & involvement of R&R, if any	No habitation exists, no R&R involved, as the plant is in Declared Industrial Area. There is no increase in land area. The plant had been commissioned in the year 1994-1996 on CSIDC leased land which is in the Declared Industrial Area. No additional land is required for expansion.		
j.	Elevation of the project	272 m to 298 m above mean sea level		



S. No.	Particulars	Details submitted by the PP																								
	site																									
k.	Involvement of Forest land if any.	No Forest Land is involved.																								
l.	Water body exists within the project site as well as study area	<p><b>Project Site:</b> The Canal which is passing through the southern boundary . The PP has obtained NOC from the office of Water Resources Department, Govt. of Chhattisgarh vide letter No. 17534/Work/3401 Raipur, Dated 09.05.2023</p> <p><b>Study area:</b></p> <table border="1"> <thead> <tr> <th>Habitation</th><th>Distance</th><th>Direction</th></tr> </thead> <tbody> <tr> <td>Kharun River</td><td>5.0 Kms.</td><td>NW</td></tr> <tr> <td>Mandhar Branch Canal</td><td>0.3 kms.</td><td>East</td></tr> <tr> <td>Siltara Village Pond</td><td>0.35 Kms.</td><td>North</td></tr> <tr> <td>Giroud village Pond</td><td>0.7 Kms.</td><td>South</td></tr> <tr> <td>Dhaneli Village Pond</td><td>0.6 Kms.</td><td>South</td></tr> <tr> <td>Mandhar Village Pond</td><td>0.5 Kms.</td><td>SE</td></tr> <tr> <td>Sankara Village Pond</td><td>0.15 Kms.</td><td>W</td></tr> </tbody> </table>	Habitation	Distance	Direction	Kharun River	5.0 Kms.	NW	Mandhar Branch Canal	0.3 kms.	East	Siltara Village Pond	0.35 Kms.	North	Giroud village Pond	0.7 Kms.	South	Dhaneli Village Pond	0.6 Kms.	South	Mandhar Village Pond	0.5 Kms.	SE	Sankara Village Pond	0.15 Kms.	W
Habitation	Distance	Direction																								
Kharun River	5.0 Kms.	NW																								
Mandhar Branch Canal	0.3 kms.	East																								
Siltara Village Pond	0.35 Kms.	North																								
Giroud village Pond	0.7 Kms.	South																								
Dhaneli Village Pond	0.6 Kms.	South																								
Mandhar Village Pond	0.5 Kms.	SE																								
Sankara Village Pond	0.15 Kms.	W																								
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	The capital cost of the expansion project is Rs.8,560 Crores																								
o.	EMP cost	The capital cost for environmental protection measures is proposed as Rs.236.51Crores. The annual recurring cost towards the environmental protection measures is proposed as Rs.17.5 Crores.																								
p.	Employment opportunity	The employment generation from the proposed expansion project is 2000 nos. direct & Indirect.																								
q.	Water and Power requirement	<p>The water requirement for the proposed expansion project is estimated at 12,646 m<sup>3</sup>/day and total requirement of water with the expansion is 27,646 m<sup>3</sup>/day.</p> <p>Power required for the proposed expansion project will be 191.4 MW and total power requirement after expansion is 352.7 MW.</p>																								

#### **Chronology of Permission obtained by the PP:**

Date(s)	EC / CTE order Reference	Facilities
26-05-1995	J-11011/11/94-IA-II(I) (M/s. Nagpur Alloys Castings Ltd.)	Blast Furnace (600 M <sup>3</sup> ) to produce 3,50,000 TPA Pig Iron along with 8 MW CPP.
08-01-1998	J-11011/11/96-IA-II(I) (M/s. Nagpur Alloys Castings Ltd.)	2,68,110 TPA Coke Oven Plant (recovery type)
14-05-2004	J-11011/22/ 2004- IA-II (I) (M/s. Jayaswal Neco Ltd.)	Sinter Plant:- 2400 TPD Steel Melting Shop (SMS):- 1200 TPD Rolling Mill:- 1200 TPD Oxygen Plant:- 110 TPD Stand By Boiler :- 30 TPH
27-12-2004	J-11011/3/96-IA-II (I) - <b>EC amendment</b> (M/s. Jayaswal Neco)	2,68,110 TPA for Coke Oven Plant (Amended to Non-Recovery type)





Date(s)	EC / CTE order Reference	Facilities
	Ltd.)	
08-09-2008	J-11011/809/2007-IA-II (I) – <b>E.C. Expansion</b> (M/s. Jayaswal Neco Ltd.)	Enhancement of Blast Furnace from 0.35 MTPA to 0.65 MTPA and additional of 1 MTPA New blast furnace total capacity 1.65 MTPA Iron Ore Beneficiation of Pellet Plant – 2.5 MTPA Expansion of Sinter Plant from 2400 TPD to 8400 TPD Expansion of Coke Oven Non Recovery from 0.268 to 0.868 MTPA Enhancement of Oxygen Plant from 110 TPD to 510 TPD Expansion of Steel Melting Shop from 1200 TPD to 7200 TPD Expansion of rolling mill from 1200 TPD to 7200 TPD Cement Grinding Unit:- 2.4 MTPA Captive power Plant:- 107 MW
26-3-2009	J-11011/883/ 2008-IA-II (I)- <b>E.C. for Renovation cum Modernization</b> (M/s. Jayaswal Neco Industries Ltd.)	Renovation and Modernization of Blast Furnace and Increase of capacity from 0.65 to 0.75 MTPA
26-09-2014	J-11011/809/ 2007-IA-II (I)- <b>EC Extension for EC dated 08-09-2008</b> (M/s. JNIL)	Validity extension of EC by another 5 years + 5 years till 07-09-2018. ( 10 years)
03-02-2015	J-11011/883/ 2008-IA-II (I)- <b>EC Extension for EC dated 26-03-2009</b> (M/s. JNIL)	Validity extension of the EC.
18-05-2015	J-11011/809/ 2007-IA-II (I)- <b>Corrigendum for EC dated 08-09-2008</b> (M/s. JNIL)	Corrigendum Issued by Separating beneficiation and pellet plant. Beneficiation Plant 3.00 MTPA and Pellet Plant 2.50 MTPA.
31-08-2005	3053 / TS / CECB / 2005 dated ( <b>CTE issued in the Name of Abhijeet Infrastructure Ltd. )</b>	1 x 350 TPD DRI Kiln, 7.5 MW WHRB, 7.5 MW AFBC power plant (prior to EIA Notification 2006 and also investment is less than Rs.100 crores accordingly E.C. not required as per EIA notification 1994 also)
13-11-2009	Vide High Court order the 350 TPD DRI plant and 15 MW Power plant (7.5 MW WHRB + 7.5 MW AFBC) the units of M/s. Abhijeet Infrastructure Limited was demerged and merged with Jayaswal Neco Industries Limited. The unit was operating under CTO Granted by CECB. Effective date of merger was 01/04/2008. The company had valid CTO No. 2558 /TS/CECB/2022 DATED 07-07-2022 (valid up to 31-07-2024)	
02-05-2006	2292 / TS / CECB / 2006 ( <b>CTE issued in the Name of Corporate Ispat Alloys Ltd.)</b>	1x500 TPD DRI Kiln, 12 MW WHRB, 3 MW AFBC (prior to EIA Notification 2006 and also investment is less than Rs.100 crores accordingly E.C. not required as per EIA notification 1994 also)
13-11-2009	Vide High Court order the 500 TPD DRI plant and 12 MW Power plant units of M/s. Corporate Ispat Alloys Limited was demerged and merged with Jayaswal Neco Industries Limited. The unit was operating under CTO Granted by CECB. Effective date of merger was 01/04/2008. The company had valid CTO No. 3107 /TS/CECB/2022 Dated 27-07-2022 (valid up to 30-09-2024).	



**Table: Unit configuration and capacity:**

S. No	Facility (Product)	Existing Capacity (in operation)	Proposed Capacity	Capacity after Expansion
1	Blast Furnace & BF Gas based Power Plant (Pig iron/Hot Metal) (Electricity) Associated BF Gas based power plant (Additional 30 TPH AFBC Boiler Standby boiler)	0.75 MTPA (0.65 MTPA + 0.1 MTPA )	0.25 MTPA (with modernization)+ 1.00 MTPA (1x 1000 M <sup>3</sup> )	2.0 MTPA (750 M <sup>3</sup> + 1000 M <sup>3</sup> )
		8 MW + 6 MW (BF Gas Based)	04+24 MW (BF Gas Based)	42 MW (BF Gas Based)
2	Sinter plant (Sinters)	0.8 MTPA (2 x36 M <sup>2</sup> )	2.0 MTPA (5 x36 M <sup>2</sup> )	2.8 MTPA (2 x36 M <sup>2</sup> + 5 x36 M <sup>2</sup> )
3	Pellet Plant (Pellets)	1.5 MTPA	1.5 MTPA	3.0 MTPA (2 x 1.5 MTPA)
4	Coke Oven & Power Plant (Coke) (Electricity)	0.2 MTPA 4 set of batteries consisting of 11 ovens	0.9 MTPA 18 set of batteries consisting of 11 ovens	1.10 MTPA 22 set of batteries consisting of 11 ovens
		12 MW (WHRB) 2 x 6 MW	76 MW (WHRB) 6 x 6 MW + 2 x20 MW	88 MW (WHRB) 8 x 6 MW + 2x 20 MW
5	Oxygen plant (Oxygen)	510 TPD	990 TPD	1500 TPD
6	Steel Melting Shop-EAF (Hot Billets / MS Billets / Slabs)	1.2 MTPA (1 x 50 TPH + 1 x 80 TPH)	1.2 MTPA (2 x 70 T)	2.4 MTPA (1 x 50 TPH + 1 x 80 TPH + 2 x 70 TPH)
7	Rolling Mill (Bright Bar / BSM/ Wire Rod/ Rolled Products)	1.2 MTPA 1 x 25 TPH + 1 x 50 TPH + 1 x 90 TPH	1.2 MTPA (2 x 90 TPH)	2.4 MTPA 1 x 25 TPH + 1 x 50 TPH + 2 x 90 TPH
8	DRI & Power Plant (Sponge Iron) (Electricity turbine 2 x15 MW)	0.12* + 0.15** MTPA (350 TPD + 500 TPD)	0.08 MTPA (Change in fuel under modernization)	0.35 MTPA
	Power Plant	1 x 7.5 MW WHRB 1 x 7.5 MW AFBC (1 x15 MW Turbine)  1 x 12 MW WHRB (1 x 15 MW Turbine)	-----	30 MW (1 x 7.5 MW AFBC + 1 x 7.5 MW WHRB + 1 x 15 MW WHRB)  (2 x 15 MW Turbine)
9	Cement Grinding Unit (Cement)	-----	2.4 MTPA	2.4 MTPA
10	Gasifier (Producer Gas plant ) (as a fuel, substitute of FO)	-----	1,16,000 Nm <sup>3</sup> /hrs (29 x 4000 Nm <sup>3</sup> /hrs)	1,16,000 Nm <sup>3</sup> /hrs (29 x 4000 Nm <sup>3</sup> /hrs)

**Note:** # Pellet plant capacity enhancement from 1.2 MTPA to 1.5 MTPA obtained under No increase in Pollution load., CTO is amended accordingly. For 350 TPD DRI Plant + 15 MW power plant and 500 TPD DRI Plant and 15 MW Power plant had been operating under the CTE/CTO granted by CECB in the name of Abhijeet Infrastructure Limited and Corporate Ispat Alloys Limited. Vide High Court Bombay order dated 13-11-2009, Both the plants demerged from those respective company and merged with M/s. Jayaswal Neco



S. No	Facility (Product)	Existing Capacity (in operation)	Proposed Capacity	Capacity after Expansion
Industries Limited. These plants are adjoining plants.				

6. The EAC, in its meeting held during **6th – 7th July, 2023**, inter-alia, deliberated the following:

- i. The instant proposal is for expansion and Modernization of its existing Integrated Steel Plant from 1.2 MTPA to 2.4 MTPA. Further, PP has requested for Consolidated Environmental Clearance after having acquired the projects of M/s. Abhijeet Infrastructure Limited & M/s. Corporate Ispat Alloys Limited which were running on the basis of 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. EC was initially granted vide letter No. J-11011/11/94-IA.II(I) dated 26.05.1995 for installation of blast furnace (600 m<sup>3</sup>) to produce 3,50,000 TPA of pig iron along with 8 MW CPP based on blast furnace gas in the name of Nagpur Alloys Castings Ltd. Subsequently various amendments had been made in EC by adding capacities and additional facilities, the last amendment in EC was granted vide No. J-11011/883/2008-IA-II (I) dated 26.03.2009. Two Units of DRI Plant and Associated power plant which were operating under CTO granted by the SPCB in the name of two group companies namely M/s. Abhijeet Infrastructure Limited & M/s. Corporate Ispat Alloys Limited who have installed 350 TPD DRI plant and 15 MW (7.5 MW AFBC + 7.5 MW WHRB) power plant and 500 TPD DRI plant and 15 MW (12 MW WHRB + 3 MW AFBC) power plant respectively in the year 2006 and 2007. The same have been demerged from those respective group companies and had been merged with Jayaswal Neco Industries Limited vide High Court order dated 13th November 2009. The current status of CTO is as under:
  - CTO for Steel complex vide order no. 7303/TS/CECB/2022 dated 12/01/2022 (valid up to 31/12/2024),
  - CTO for Pellet plant capacity enhancement vide no. 8386 /TS/CECB/2022 dated 18/02/2022 (valid up to 31/12/2024)



- CTO for 350 TPD (1,20,000 TPA) DRI unit & power plant vide order no. 2558 /TS/CECB/2022 DATED 07-07-2022 (valid up to 31-07-2024)
  - CTO for 500 TPD (1,50,000 TPA) DRI unit& power Plant vide order no. 3107 /TS/CECB/2022 DATED 27-07-2022 (valid up to 30-09-2024).
- vi. The total plant area is 481.292 ha (1189.3 Acres) which includes CSIDC Leased Land (lease) (417.35 ha), Land came in possession due to merger of adjoining assets vide high court order (35.721 ha) and Private land (acquired ) (28.221 ha). The plant had been commissioned in the year 1994-1996 on CSIDC leased land which is in the Declared Industrial Area. No additional land is required for expansion.
  - vii. The EAC noted that a canal which is passing through the southern boundary of the project site. PP has obtained NOC from the office of Water Resources Department, Govt. of Chhattisgarh vide letter No. 17534/Work/3401 Raipur, Dated 09.05.2023 and has also submitted measures to be adopted for Protection of Canal Passing through. The EAC is of the view that the stringent mitigation measures shall be undertaken for conservation of the canal.
  - viii. Mandhar Branch Canal (0.3 km, East), Siltara Village Pond (0.35 km, North), Giroud village Pond (0.7 km, South), Dhaneli Village Pond (0.6 km, South), Mandhar Village Pond (0.5 km, SE) and Sankara Village Pond (0.15 km, W) also exists within the study area of the project site. PP has submitted the measures to be adopted for Protection of near by Ponds. The EAC is of the opinion that stringent mitigation measures shall be undertaken for conservation of the water bodies.
  - ix. The total water requirement after the proposed expansion is estimated as 27,646 m<sup>3</sup>/day which is equivalent to 6.30 MGD which is proposed to be obtained from River Kharoon wherein an anicut had been constructed by JNIL with CSIDC. The unit had already obtained sanction for 8 MGD drawl from WRD GOC vide letter dated S.No.5323/29/14/M/31/01 dated 28-10-2002 for the existing project. No additional water permission is required for the expansion project.
  - x. The PP submitted that existing green belt has been developed in 189 Ha. area which is about 39% of the Existing plant area of 481.292 Ha. with total 4,87,264 Trees. Proposed additional greenbelt will be 3.5 Ha. which is about 1% of the total area. Thus total of 192.5 Ha. area (40% of total project area) will be developed as greenbelt. Additional 10,000 nos. of plants will be planted and nurtured in 2 years time upon receipt of E.C. The EAC deliberated on the greenbelt action plan and opined that remaining greenbelt shall be completed in a period of 1 year.
  - xi. The Committee has found that the baseline data and revised incremental GLC due to the proposed project and observed that PM<sub>10</sub> and PM<sub>2.5</sub> values are recorded very high. Also the incremental GLC for SO<sub>2</sub> and NO<sub>2</sub> are also high. Further, it was noted that the maximum values of noise are also very high. The EAC opined that PP shall strictly implement the mitigation measures submitted to minimise the same.
  - xii. The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found them to be satisfactory.
  - xiii. 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 along with the village adoption plan and found it satisfactory.





- xiv. The Committee deliberated on the certified compliance report of previous EC obtained from IRO, MoEFCC along with the ATR and review report of IRO, MoEFCC and is of the opinion that PP shall strictly comply with the observations of IRO as per the submitted ATR.
- xv. The EAC deliberated on the submitted ADS reply of project proponent and found it satisfactory.
- xvi. The EAC deliberated the detailed Action Plan on the compliance of CEPI guidelines as per Ministry's OM of 2019. The PP has submitted the detailed action plan in the EIA/EMP report. The EAC deliberated the Action plan on the CPA and found satisfactory.
- xvii. The EAC also deliberated on the submitted written submission of project proponent and found it satisfactory.
- xviii. 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.
- xix. 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.
- xx. The EAC also reviewed the EC conditions (specific and general) pertaining to Industry-I projects and observed that some of the specific conditions stipulated so far in the previously recommended EC projects are common and applicable to most of the projects in general. In view of the same, the General Conditions (in case of EC projects) have been revised through reallocation of these common conditions from specific to General Conditions (in case of EC projects). Accordingly, the instant project is also being stipulated with the modified General conditions.

7. The EAC (Industry-1 Sector), in its meetings held on **6<sup>th</sup> -7<sup>th</sup> July, 2023 and 2<sup>nd</sup>, 4<sup>th</sup> & 8<sup>th</sup> August 2023**, and based on information & clarifications provided by the project proponent and after detailed deliberations **recommended** the proposal for grant of Environment Clearance with certain of specific and general conditions.

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 Jayaswal Neco Industries Ltd.** under the provisions of EIA Notification, 2006 subject to the following specific conditions and general conditions:



**A. Specific conditions:**

- (i) **This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.**
- (ii) The PP shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- (iii) 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.
- (iv) In pursuance to MoEF&CC OM's dated 31st October, 2019 & 30th December, 2019 issued in compliance of the order of Hon'ble NGT in OA No. 1038/2018 dated 19th August, 2019, the compliance of all the conditions applicable to CEPI shall be implemented as per the submitted plan. PP shall strictly implement the Action Plan/Mitigation measures as prescribed for the CPA, as the Unit is located in CPA.
- (v) The PP shall strictly implement the additional Environmental safe guards as proposed to address the emissions due to high AAQ and noise values.
- (vi) The Kharoon River is within the study area of 10 km of the project 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.
- (vii) The total water requirement after the proposed expansion of 27,646 m<sup>3</sup>/day (equivalent to 6.30 MGD) shall be obtained from the River Kharoon (wherein an anicut had been constructed by JNIL with CSIDC). Necessary permission shall be obtained from the Competent Authority.
- (viii) Three tier Green Belt shall be developed in at least 40% of project area in a period of 1 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. PP shall develop greenbelt in the form of shelter belt comprising of total of 6 rows of 2x2 m plantation with tall trees & broad leaves with thick canopy along with windshield inside the plant premises to act as green barrier for air pollution & noise levels towards nearby ESA's. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.
- (ix) All the commitments made towards socio-economic development of the nearby villages 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 amounting to Rs. 85.60 Crores shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.
- (x) As committed, the PP shall adopt 10 villages naming Siltara, Sankara, Girod, Dhaneli, Mandhar, Charoda, Murethi, Tekari, Nimora and Akoli and implement the Village



- Adoption program consisting of need-based community development activities, to develop them into model villages.
- (xi) PP shall strictly comply with the observations of IRO in the certified compliance report as per the submitted ATR.

## **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. This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.

### **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 (CAAQMS) 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 carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within the plant area, covering upwind and downwind directions.
- iii. 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.
- iv. Sampling facility at process stacks shall be provided as per CPCB guidelines for manual monitoring of emissions.
- v. 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.
- vi. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.
- vii. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
- viii. Ensure covered transportation and conveying of raw material to prevent spillage and dust generation. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.



- ix. 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.
- x. The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.
- xi. Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.
- xii. Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.
- xiii. Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.
- xiv. 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.
- xv. Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.
- xvi. Water Sprinklers/Water mist system shall be installed near raw material yards, operational units and other strategic locations to control fugitive emissions from the plant.
- xvii. The particulate matter emissions from the process stacks shall be less than 30 mg/Nm<sup>3</sup> and measures shall be undertaken as per the submitted action plan. Efficient Air monitoring equipment shall be installed.
- xviii. Following additional arrangements to control fugitive dust shall be provided:
  - a. Fog / Mist Sprinklers at all on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas.
  - b. Proper covered vehicle shall be used while transport of materials.
  - c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.
- xix. Dry quenching (CDQ) system shall be installed along with power generation facility from waste heat recovery from hot coke
- xx. 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). Land-based APC system shall be installed to control coke pushing emissions.
- xxi. Monitor CO, HC and O<sub>2</sub> in flue gases of the coke oven battery to detect combustion efficiency and cross leakages in the combustion chamber.
- xxii. 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.
- xxiii. The coke oven gas shall be subjected to desulphurization if the sulphur content in the coal exceeds 1%.
- xxiv. Provide Low NO<sub>x</sub> burners as primary measures and SCR /NSCR technologies as secondary measure to control NO<sub>x</sub> emissions.
- xxv. The emission norms applicable for the cement plant shall be adhered to.
- xxvi. Dioxin and Furan monitoring shall be carried out once in six months at cement kiln stack.



- xxvii. DeSOx system shall be provided dry type. NOx level shall be maintained below 600 mg/Nm<sup>3</sup> by using best available technology.
- xxviii. Petcoke dosing shall be controlled automatically to control SO<sub>2</sub> emission from chimney within the prescribed limits.
- xxix. PP shall identify the Source of fluoride emissions and action plan to mitigate the same shall be implemented.
- xxx. Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB.
- xxxi. During operational phase at Captive Power Plant, Action Plan to monitor coke/coal dust exposures in different process plants using personal and area air samplers and to compare with permissible limits as per Indian Factories Act, 1948 shall be implemented.
- xxxii. The coal dust should be monitored at coal unloading, crushing, furnace areas and should be within 2 mg/m<sup>3</sup>, respirable dust fraction containing less than 5% quartz as per Indian Factories Act, 1948.
- xxxiii. Basic Oxygen Furnace (BOF) gas shall be cleaned dry.
- xxxiv. Online stack monitoring system for IF and RHF shall be installed and monitoring report shall be submitted to the concerned Regional Office of the MoEF&CC along with the six monthly compliance report.
- xxxv. Low NOx Burners will be installed at Reheating Furnace for control of Gaseous emissions generated while using PNG.
- xxxvi. The Project proponent shall fix carbon monoxide detectors with critical alarms at strategic locations inside the Plant.

### **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 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. 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. Water meters shall be provided at the inlet to all unit processes in the plants.
- v. The project proponent shall make efforts to minimise water consumption in the plant complex by segregation of used water, practicing cascade use and by recycling treated water.
- vi. 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. Suitable measures shall be adopted for sewage water handling to ensure no contamination of any kind of water body.
- vii. All stockyards shall have impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains and catch pits to trap



the run off material and shall be implemented as per the action plan submitted in EIA/EMP report.

- viii. Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.
- ix. 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.
- x. The project proponent shall provide appropriate ETP for effluents discharged from coke oven and by-product to meet the standards prescribed in G.S.R 277 (E) 31st March 2012 (applicable to Coke oven plants) as amended from time to time.
- xi. Treated water from ETP of COBP shall not be used for coke quenching.
- xii. Air Cooled condensers shall be used in the captive power plant.

#### **IV. Noise monitoring and prevention**

- i. Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and amendments thereof, and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
- ii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.
- iii. 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.

#### **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. The project proponent shall provide waste heat recovery system (pre-heating of combustion air) at the flue gases of reheating furnaces.
- vi. Practice hot charging of slabs and billets/blooms as far as possible.
- vii. Ensure installation of regenerative type burners on all reheating furnaces.
- viii. Blast Furnaces shall be equipped with Top Recovery Turbine, dry gas cleaning plant, stove waste heat recovery, cast house and stock house ventilation system and slag granulation facility.
- ix. Coke Dry Quenching (CDQ) shall be provided for coke quenching for both recovery and non-recovery type coke ovens.
- x. The project proponent shall provide waste heat recovery system on the DRI Kilns.
- xi. The dolochar generated shall be used for power generation.
- xii. 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.
- xiii. The PP shall implement the guidelines on sponge iron plants issued by the CPCB/SPCB in this regard.





- xiv. The project proponent make efforts to achieve power consumption less than 65 units/tonne for Portland Pozzolona Cement (PPC) and 85 units/tonne for Ordinary Portland Cement (OPC) production and thermal energy consumption of 670 Kcal/Kg of clinker.
- xv. Maximize utilization of fly ash, slag and sweetener in cement blend as per BIS standards.
- xvi. Maximize utilization of alternate fuels and Co-processing to achieve best practice norms.
- xvii. Waste heat recovery system shall be provided for kiln and cooler.

## **VI. Waste management**

- i. Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil.
- ii. Kitchen waste shall be composted or converted to biogas for further use.
- iii. 100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.
- iv. 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.
- v. A proper action plan must be implemented to dispose of the electronic waste generated in the industry.
- vi. Solid waste utilization
  - a. PP shall install a slag crusher to convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement making.
  - b. PP shall recycle/reuse solid waste generated in the plant as far as possible.
  - c. Used refractories shall be recycled as far as possible.
- vii. SMS slag after metal recovery in waste recycling facility shall be conditioned and used for road making, railway track ballast and other applications. The project proponent shall install a waste recycling facility to recover metallic and flux for recycle to sinter plant. The project proponent shall establish linkage for 100% reuse of rejects from Waste Recycling Plant.
- viii. Carbon recovery plant to recover the elemental carbon present in GCP slurries for use in Sinter plant shall be installed.
- ix. Waste recycling Plant shall be installed to recover scrap, metallic and flux for recycling to sinter plant and SMS.
- x. In case of Non-Recovery coke ovens, the gas main carrying hot flue gases to the boiler, shall be insulated to conserve heat and to maximise heat recovery.
- xi. Tar Sludge and waste oil shall be blended with coal charged in coke ovens (applicable only to recovery type coke ovens).

## **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 by trees.
- ii. 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 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.
- iii. Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.

## **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. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP. Safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- iv. 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.
- iv. Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&CC.



## **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. Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented
- vi. 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.
- vii. 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.
- viii. 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.
- ix. 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.
- x. The recommendations of the approved Site-Specific Wildlife Management Plan (in case of involvement of Schedule-I species) 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.
- xi. 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.
- xii. 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).





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.

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 'F'/Director  
Tele-fax: 011-20819346  
[Email-rb.lal@nic.in](mailto:Email-rb.lal@nic.in)

**Encl. as above at Annexure –I**

**Copy to: -**

1. The Principal Secretary Forest, Mahanadi Bhawan, Nawa Raipur, Atal Nagar Chhattisgarh, India.
2. Additional Chief Secretary Forest, Mahanadi Bhawan, Nawa Raipur, Atal Nagar, Chhattisgarh.
3. The Director General of Forest, Ministry of Environment, Forest and Climate Change, New Delhi.
4. The Principal Chief Conservator of Forests (HoFF) Chhattisgarh Forest Department, Jai Road Aranya Bhavan Raipur (C.G.)-492007.
5. Regional Officer, Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Aranya Bhawan, North Block, Sector-19 Naya Raipur, Atal Nagar, Chhattisgarh - 492002.
6. The Chairman, Central Pollution Control Board, CBD-Cum-Office Complex, East Arjun Nagar, New Delhi-110 032.
7. The Member Secretary, Chhattisgarh Environment Conservation Board, Paryavas Bhavan,



North Block Sector-19 Naya Raipur (C.G.) 492002.

8. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi, Delhi 110001
9. The District Collector, Raipur, Chhattisgarh.
10. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi
11. Guard File/Record File/Monitoring File/MoEFCC website/Parivesh Portal



**(Dr. R. B. Lal)**

**Scientist 'F'/Director**

Tele-fax: 011-20819346

[Email-rb.lal@nic.in](mailto:Email-rb.lal@nic.in)



## Action plan as per MoEF&amp;CC O.M. dated 30/09/2020

S.NO .	MAJOR ACTIVITY HEADS		YEAR OF IMPLEMENTATION					TOTAL EXPEN DITUR E (Rs. in Lakhs)
			1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year	4 <sup>TH</sup> Year	5 <sup>TH</sup> Year	
			(Rs. in Lakhs)	(Rs. in Lakhs)	(Rs. in Lakhs)	(Rs. in Lakhs)	(Rs. in Lakhs)	
A). Based on SIA Study								
1	Community & Infrastructure Development							
	i) Impart technical training to the local youth and women for skill developmen t through skill developmen t council.	100 per year covering 10 villages	100 nos of local youth and women will be imparted training for skill development from 2 nos of villages i.e. Giroud & Sankra	100 nos of local youth and women will be imparted training for skill developme nt from 2 nos of villages i.e. Siltara & Dhaneli	100 nos of local youth and women will be imparted training for skill development from 2 nos of villages i.e. Mandhar & Charoda	100 nos of local youth and women will be imparted training for skill developme nt from 2 nos of villages i.e. Murethi & Tekari	100 nos of local youth and women will be imparted training for skill development from 2 nos of villages i.e. Nimora & Sondra	1000
		Budget in Lakhs	200	200	200	200	200	
	ii) Constructio n of public toilets in nearby villages	120 toilets in 10 villages	20 nos- Giroud	10 nos- Siltara	30 nos- Mandhar	5 nos- Murethi	5 nos- Nimora	360
			10 nos- Sankra	10 nos- Dhaneli	10 nos - Charoda	10 nos- Tekari	10 nos- Akoli	
		Budget in Lakhs	90	60	120	45	45	
	iii) Installation of tube well with solar panel and water storage overhead tank.	10 villages 12 sets	2 nos - Giroud	1 no- Siltara	2 no- Mandhar	1 no- Murethi	1 no- Nimora	570
			1 no- Sankra	1 no- Dhaneli	1 no- Charoda	1 no- Tekari	1 no- Akoli	
		Budget in Lakhs	120	100	150	100	100	
	iv) Street Lighting (Solar) provision at suitable public places in and around the nearby villages	10 Villages	30 nos- Giroud	20 nos- Siltara	30 nos- Mandhar	20 nos- Murethi	20 nos- Nimora	55
		210 Number s	20 nos- Sankra	20 nos- Dhaneli	20 nos- Charoda	20 nos- Tekari	20 nos- Akoli	
		Budget in Lakhs	12.5	10	12.5	10	10	
	v) Repair and maintenanc e of existin g village roads	Physical No. & Village	2 nos Giroud 2 nos. Sankara	2 nos Siltara 2 nos. Dhaneli	2 nos Mandhar 2 nos. Charoda	2 nos Murethi 2 nos. Tekari	2 nos Nimora 2 nos. Akoli	500
		Budget in Lakhs	100	100	100	100	100	





S.NO.	MAJOR ACTIVITY HEADS		YEAR OF IMPLEMENTATION					TOTAL EXPENDITURE (Rs. in Lakhs)
			1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year	4 <sup>th</sup> Year	5 <sup>th</sup> Year	
			(Rs. in Lakhs)	(Rs. in Lakhs)	(Rs. in Lakhs)	(Rs. in Lakhs)	(Rs. in Lakhs)	
	vi) Development of mini stadium in existing play ground of villages	Physical Nos.	01 No. at Siltara	01 No. at Murethi	01 No. at Dharsiwa	01 No. at Dhaneli	01 No. at Mandhar	400
		Budget in Lakhs	80	80	80	80	80	
	YEAR WISE EXPENDITURE (A)		602.5	550	662.5	535	535	2885
2	Education							
	i) Providing Sports kits to Schools/ Sports club	Physical Nos. & village	1 no- Giroud	1 no- Siltara	1 no- Mandhar	1 no- Murethi	1 no- Nimora	15
			1 no- Sankara	1 no- Dhaneli	1 no- Charoda	1 no- Tekari	1 no- Akoli	
		Budget in Lakhs	3	3	3	3	3	
	ii) Support State Govt. for development of Atmanand School/Existing School which includes Building, furniture, Digital education, library, classroom, computer, etc.	Physical Nos. & village	During 1st Year Giroud & Dhaneli village	During 2nd Year Siltara & Sankara village	During 3rd Year Mandhar & Tekari village	During 4th Year Murethi & Charoda village	During 5th Year Nimora & Akoli village	500
		Budget in Lakhs	100	100	100	100	100	
	iii) Development work in local schools, provision of study material & scholarships to be provided to meritorious students	Physical Nos. & village	Study material & scholarships to be provided to meritorious students and coaching support to be provided to meritorious students for competitive exams i.e. JEE, NEET, PET, PAT & PPT etc. to 10 nos. nearby villages.					150
		Budget in Lakhs	30	30	30	30	30	
	YEAR WISE EXPENDITURE (B)		133	133	133	133	133	665
3	Health Facilities							
	i) Regular health camps for local inhabitants specially for	Physical Nos. & village	Health checkup camps shall be organized at regular interval in 10 nos. nearby villages for general body, eyes, blood test, vaccination etc. For this purpose, one doctor along with 2 – 3 assistants shall be deputed.					500
		Budget in Lakhs	100	100	100	100	100	

S.NO	MAJOR ACTIVITY HEADS		YEAR OF IMPLEMENTATION					TOTAL EXPENDITURE (Rs. in Lakhs)
			1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year	4 <sup>th</sup> Year	5 <sup>th</sup> Year	
			(Rs. in Lakhs)	(Rs. in Lakhs)	(Rs. in Lakhs)	(Rs. in Lakhs)	(Rs. in Lakhs)	
	women & children. Outside workers would be tested for communicable disease.							
	ii) Sanitation facility in existing schools, and other public places i.e. panchayat bhawan, pds center etc.	Physical Nos. & village	Sanitation facilities to be provided to the village Giroud & Dhaneli during 1st Year.	Sanitation facilities to be provided to the village Siltara & Sankara during 2nd Year.	Sanitation facilities to be provided to the village Mandhar & Tekari during 3rd Year.	Sanitation facilities to be provided to the village Murethi & Charoda during 4th Year.	Sanitation facilities to be provided to the village Nimora & during 5th Year.	205
		Budget in Lakhs	50	50	50	30	25	
	iii) Sanitary Napkins Vending Machine in High Schools.	Physical Nos. & village	Machines will be installed in schools of village Giroud and Dhaneli during 1 <sup>st</sup> year	Machines will be installed in schools of village Giroud and Dhaneli during 2 <sup>nd</sup> year.	Machines will be installed in schools of village Mandhar & Tekari during 3rd Year.	Machines will be installed in schools of village Charoda during 4th Year.	--	25
		Budget in Lakhs	7	7	7	4	0	
	iv) Drainage Network for Domestic sewage in Villages	Physical Nos. & village	During 1st Year drainage network to be made/ strengthen in 2 nos of village i.e Giroud and Dhaneli	During 2nd Year drainage network to be made/ strengthen in 2 nos of village i.e Siltara and Sankra	During 3rd Year drainage network to be made/ strengthen in 2 nos of Mandhar and Tekari	During 4th Year drainage network to be made/ strengthen in 2 nos of Charoda and Murethi	During 5th Year drainage network to be made/ strengthen in 2 nos of village i.e Nimora and Akoli	280
		Budget in Lakhs	60	60	60	60	40	
	YEAR WISE EXPENDITURE (C)		217	217	217	194	165	1010
4	Environment							
	<u>Water Conservation</u>	Physical Nos. & village	1 no. in Govt. Primary School in Dhaneli (V)	1 no. at Anganwadi Kendra of Sankra (V)	1 no. in Govt. Primary School in Girod (V)	1 no. in Govt. Primary School in Murethi and	1 no. in Govt. Middle School in Nimora and	50
	i) RWH pits in the surrounding villages		2 nos. in Pre- Sec. school in Siltara (V)	1 no. at Anganwadi Kendra of Murethi	1 no. at Anganwadi Kendra of Akoli	1 no. in Govt Primary School in	1 no. in Govt. Primary School in Akoli	



S.NO	MAJOR ACTIVITY HEADS		YEAR OF IMPLEMENTATION					TOTAL EXPENDITURE (Rs. in Lakhs)
			1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year	4 <sup>th</sup> Year	5 <sup>th</sup> Year	
			(Rs. in Lakhs)	(Rs. in Lakhs)	(Rs. in Lakhs)	(Rs. in Lakhs)	(Rs. in Lakhs)	
		Budget in Lakhs	10	10	10	Charoda	10	
	ii) Water Body renovation (De-siltation and Conservation of pond)	Physical No. & Village	01 No. Pond in Girod (V)	01 No. Pond in Nimora (V)	01 No. Pond in Tekari (V)	01 No. in Sankra (V)	01 No. in Murethi (V)	500
			&	&	&	&	&	
			01 No. Pond in Dhaneli (V) & Mandhar Branch Canal	01 No.pond in Akoli (V)	01 No. Pond and in Mandhar (V)	01 No. in Siltara (V)	01 No. in Sondra (V)	
		Budget in Lakhs	100	100	100	100	100	
	iii) Development of Krishnankunj (block plantation) in villages	Physical No. & Village	Village Girod and Dhaneli during 1st Year	Village Siltara and Sankra during 2nd Year	Village Mandhar and Tekari during 3 <sup>rd</sup> Year	Village Murethi & Charoda during 4 <sup>th</sup> Year	Village Nimora and Akoli during 5 <sup>th</sup> Year	100
		Budget in Lakhs	20	20	20	20	20	
	iv) Tree Plantation in water body bunds @2000 Nos. in each village	Physical No. & Village	Village Girod and Dhaneli during 1st Year	Village Siltara and Sankra during 2nd Year	Village Mandhar and Tekari during 3 <sup>rd</sup> Year	Village Murethi & Charoda during 4 <sup>th</sup> Year	Village Nimora and Akoli during 5 <sup>th</sup> Year	100
		Budget in Lakhs	20	20	20	20	20	
	(IV) Development of local village roads	Physical No. & Village	In Girod and Dhaneli village during 1st Year	In Siltara and Sankra village during 2nd Year	In Mandhar and Tekari village during 3 <sup>rd</sup> Year	In Murethi & Charoda village during 4 <sup>th</sup> Year	In Nimora and Akoli village during 5 <sup>th</sup> Year	625
		Budget in Lakhs	125	125	125	125	125	
YEAR WISE EXPENDITURE (E)			275	275	275	275	275	1375
LIVELIHOOD								
1	Promotion and Assistance for Cottage Industries. Dairy, Dona Pattal, Nursery, Pottery, Badi Papad Achar etc.	Physical No. 10 Villages	Dhaneli, Tekari, Siltara, Mandhar, Girod, Sankra, Murethi, Akoli, Charoda, Nimora	Dhaneli, Tekari, Siltara, Mandhar, Girod, Sankra, Murethi, Akoli, Charoda, Nimora	Dhaneli, Tekari, Siltara, Mandhar, Girod, Sankra, Murethi, Akoli, Charoda, Nimora	Dhaneli, Tekari, Siltara, Mandhar, Girod, Sankra, Murethi, Akoli, Charoda, Nimora	Dhaneli, Tekari, Siltara, Mandhar, Girod, Sankra, Murethi, Akoli, Charoda, Nimora	750
		Budget in Lakhs	150	150	150	150	150	
2	Maa Usha Noni Yojna for marriage of	Physical No. 10 Villages	Dhaneli, Tekari, Siltara, Mandhar,	Dhaneli, Tekari, Siltara, Mandhar,	Dhaneli, Tekari, Siltara, Mandhar, Girod, Sankra,	Dhaneli, Tekari, Siltara, Mandhar,	Dhaneli, Tekari, Siltara, Mandhar, Girod, Sankra,	505





S.NO	MAJOR ACTIVITY HEADS		YEAR OF IMPLEMENTATION					TOTAL EXPENDITURE (Rs. in Lakhs)
			1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year	4 <sup>th</sup> Year	5 <sup>th</sup> Year	
			(Rs. in Lakhs)	(Rs. in Lakhs)	(Rs. in Lakhs)	(Rs. in Lakhs)	(Rs. in Lakhs)	
	Girls		Girod, Sankra, Murethi, Akoli, Charoda, Nimora	Girod, Sankra, Murethi, Akoli, Charoda, Nimora	Murethi, Akoli, Charoda, Nimora	Girod, Sankra, Murethi, Akoli, Charoda, Nimora	Murethi, Akoli, Charoda, Nimora	
		Budget in Lakhs	101	101	101	101	101	
3	Organization of Krishi mela and development of Certified Seed Center for Farmers	Physical Nos. & village	01 Nos. in Dhaneli (V)	01 Nos. in Sankra (V)	01 Nos. in Girod (V)	01 Nos. in Siltara (V)	01 Nos. in Dharsiva (V)	500
		Budget in Lakhs	100	100	100	100	100	
4	Promotion and organization in the local game i.e. Khokho, Kabaddi for youth	Physical Nos. & village	01 No. in Nimora (V) & 01 No in Dhaneli (V)	01 No. in Tekari (V) & 01 No in Siltara (V)	01 No. in Girod (V) & 01 No in Sankra (V)	01 No. in Murethi(V) & 01 No in Akoli (V)	01 No. in Mandhar (V) & 01 No in Charoda(V)	100
		Budget in Lakhs	20	20	20	20	20	
YEAR WISE EXPENDITURE (E)			371	371	371	371	371	1855
B). Based on Public Hearing								
1	Providing LED Street lighting with solar panels	Physical Nos. & village	20 nos. in Girod (V)	10 nos. Siltara (V)	10 nos. in Dhaneli (V)	10 nos. in Mandhar (V)	10 nos. in Sankara (V)	30
		Budget in Lakhs	10	5	5	5	5	
2	Construction of drains	Physical Nos. & village	2 nos. Siltara (V)	3 nos. in Girod (V)	2 nos. Dhaneli (V)	2 nos. in Sankara (V)	1 nos. in Mandhar (V)	250
		Budget in Lakhs	50	75	50	50	25	
3	Provision of Drinking water (Installation of tube well with solar panel and water storage overhead tank)	Physical Nos. & village	1 no in Girod (V)	1 no in Dhaneli (V)	1 no in Sankra (V)	1 no in Siltara (V)	1 no in Mandhar (V)	300
		Budget in Lakhs	60	60	60	60	60	
4	Impart training to the local villagers for skill development	Physical Nos. & village	For 25 nos. unemployed youth in Dhaneli (V)	For 50 nos. unemployed youth in Girod (V)	For 50 nos. unemployed youth in Siltara (V)	For 50 nos. unemployed youth in Sankra (V)-	For 25 nos. unemployed youth in Mandhar (V)	40
		Budget in Lakhs	5	10	10	10	5	



S.NO .	MAJOR ACTIVITY HEADS		YEAR OF IMPLEMENTATION					TOTAL EXPEN DITUR E (Rs. in Lakhs)
			1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year	4 <sup>th</sup> Year	5 <sup>th</sup> Year	
			(Rs. in Lakhs)	(Rs. in Lakhs)	(Rs. in Lakhs)	(Rs. in Lakhs)	(Rs. in Lakhs)	
5	Establishment of Open Gym and garden in School	<b>Physical No. &amp; Village</b>	01 Nos. in Government School in Dhaneli (V)	01 Nos. in Government School Sankra (V)	01 Nos. in Government school in Girod (V)	01 Nos. in Government school in Siltara (V)	01 Nos. in Government school in Tekari (V)	<b>150</b>
		<b>Budget in Lakhs</b>	30	30	30	30	30	
<b>YEAR WISE EXPENDITURE (E)</b>			<b>155</b>	<b>180</b>	<b>155</b>	<b>155</b>	<b>125</b>	<b>770</b>
<b>YEARWISE GRAND TOTAL (A+B+C+D+E)</b>			<b>1753.5</b>	<b>1726</b>	<b>1813.5</b>	<b>1663</b>	<b>1604</b>	<b>8560</b>



Signature Not Verified

Digitally signed by Dr. R B Lal  
Scientist F

Date: 10/11/2023 6:19:39 PM