

File No: IA-J-11011/326/2005-IA.II(IND-I)

Government of India Ministry of Environment, Forest and Climate Change IA Division



Date 04/03/2024



To,

M/s GODAWARI POWER AND ISPAT LIMITED

Plot No. 428/2, Phase- I, Industrial Area, Siltara, Raipur - 493111 Chhattisgarh

E-mail: reetesh.kumar@hiragroup.com

Subject:

Expansion Proposal of Iron Ore Beneficiation Plant from 3.284 MTPA to 5.657 MTPA, Iron Ore Pelletization Plant from 2.7 MTPA to 4.7 MTPA along with Coal Gasification Plant 92000 Nm3/hr to 151500 Nm3/hr and Mineral Grinding Plant from 0.2 MTPA to 0.4 MTPA for manufacturing of Magnetite Powder within existing facilities by M/s Godawari Power & Ispat Limited, located at Plot No. 428/2, and other Phase-1, Industrial Area Village Siltara and Tanda, Tahsil Dharsiwa, District Raipur, Chhattisgarh - Grant of Environmental Clearance

Sir/Madam,

This refers to your proposal no. IA/CG/IND1/450818/2023 dated 30.11.2023 along with copy of EIA/EMP report, Forms (Part A, B and C) seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above.

2. The particulars of the proposal are as below:

(i) EC Identification No. EC23A1006CG5937953N

(ii) File No. IA-J-11011/326/2005-IA.II(IND-I)

(iii) Clearance Type Fresh EC

(iv) Category A

(v) Project/Activity Included Schedule No.

ferrous),2(b) Mineral beneficiation

(vi) Sector Industrial Projects - 1

Expansion Proposal of Iron Ore Beneficiation Plant

from 3.284 MTPA to 5.657 MTPA, Iron Ore Pelletization Plant from 2.7 MTPA to 4.7 MTPA

(vii) Name of Project along with Coal Gasification Plant 92000 Nm3/hr

to 151500 Nm3/hr and Mineral Grinding Plant from 0.2 MTPA to 0.4 MTPA for manufacturing of

Magnetite Powder within existing facilities.

(viii) Name of Company/Organization M/s GODAWARI POWER AND ISPAT

(ix) Location of Project (District, State)

LIMITED

RAIPUR, CHHATTISGARH

(x) Issuing Authority

(xi) Applicability of General Conditions as per EIA Notification, 2006

MoEF&CC

No

3. The proposed project activity is listed at S. No. 3(a) Metallurgical Industries (ferrous & non-ferrous) and 2(b) Mineral Beneficiation under Category "A" of the schedule of the EIA Notification, 2006 and attracts general condition due to Siltara Industrial Area comes under CPA and being appraised at Central Level.

- 4. The instant Proposal was initially considered by the EAC in its 50th meeting held during 13-15th December 2023 wherein the EAC has deferred the proposal. The proposal was reconsidered in the 52nd EAC Meeting held during during 23 25th January, 2024 wherein after detailed deliberations, the EAC recommended the proposal for grant of Environment Clearance under the provisions of EIA Notification, 2006 subject to the stipulation of specific conditions and general conditions. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed at https://parivesh.nic.in.
- 5. 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 at **Annexure-I**.
- 6. The Unit configuration and capacity of the proposed project is at Annexure-II.
- 7. The EAC, in its 52nd meeting held during 23 25th January, 2024, inter-alia, deliberated the following:
- i. The instant proposal is for Expansion Proposal of Iron Ore Beneficiation Plant from 3.284 MTPA to 5.657 MTPA, Iron Ore Pelletization Plant from 2.7 MTPA to 4.7 MTPA along with Coal Gasification Plant 92000 Nm3/hr to 151500 Nm3/hr and Mineral Grinding Plant from 0.2 MTPA to 0.4 MTPA for manufacturing of Magnetite Powder within existing facilities.
- ii. The EAC, constituted under the provision of the EIA Notification, 2006 comprising Expert Members/domain experts in various fields, examined the proposal submitted by the Project Proponent in desired format along with EIA/EMP reports prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.
- iii. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.
- iv. The Committee noted that the EIA reports are in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components. The Committee deliberated on the proposed mitigation measure towards Air, Water, Noise and Soil pollutions. The Committee suggested that the storage of toxic/explosive raw materials/products shall be undertaken with utmost precautions and following the safety norms and best practices.
- v. The EAC also took into consideration the drone survey of the project site and kml file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH and made following deliberations accordingly.
- vi. The total plant area is 112.4799 ha [Existing: 93.825 ha, Proposed: 18.654 ha], which is under the possession of the company and converted for industrial use.
- vii. Project falls in critically polluted area (CPA) of Siltara Industrial Area. PP has further submitted Compliance Status of Conditions with quantification for Environmental Management in Critically Polluted Area. The EAC deliberated on the same and is of the opinion that the submitted action plan shall be strictly implemented.

viii. Tanda Village is adjacent in East of the project site along with other sensitive areas within the study area of the project site. The EAC is of the opinion that PP shall prepare and strictly implement the environmental safeguard measures to minimise the impact of the project activities on these sensitive areas.

ix. There is a canal adjacent to the to the project site along with other water bodies within the study area of the project site. The EAC is of the opinion that the water bodies shall not be disturbed. Mitigation measures w.r.t. safeguarding the water bodies shall be prepared and implemented.

- x. The existing water requirement for the Plant including domestic purpose is 9806 KLD and proposed water requirement will be 2247 KLD. Total water requirement after expansion will be 12053 KLD. The company has existing water reservoir and water is being sourced from Chhattisgarh Ispat Bhoomi Limited (A body of CSIDC), the nodal agency for supply of water to the industrial areas in Chhattisgarh. The company has an agreement for supply of additional 3500 KLD water with Chhattisgarh Ispat Bhoomi Limited for its industrial use in integrated steel facilities for existing and post expansion requirement. The company has also obtained the permission from Central Ground Water Board for drawl of 479 KL/day for Domestic (drinking & sanitation) purpose. The EAC deliberated on the water requirement is of the opinion that PP shall obtain necessary permissions from the Competent Authority in this regard.
- xi. The Committee has deliberated on the baseline data and incremental GLC due to the proposed project and is of the opinion that stringent mitigation measures to minimise the pollution shall be strictly implemented.
- xii. The PP has submitted that Green belt has been developed over 30.97 ha. area which is 33% of the total existing of 93.825 Ha. land, 82000 nos. of trees are planted and 76589 nos. are surviving till date with survival rate of 93% and proposed 6.342 ha. area will be developed as green belt within a year. Total Green belt will be developed over an area of equivalent to 40% of the total project land. In this 33% will be within the project area and remaining 7% will be within 5 kms of the project. The EAC deliberated on the greenbelt layout plan along with action plan and the budget earmarked and is of the opinion that greenbelt shall be completed within a period of 1 year.
- xiii. The committee deliberated details of carbon foot prints and carbon sequestration study w.r.t. proposed project and found them to be satisfactory.
- xiv. The Committee also deliberated on the public hearing issues along with revised action plan submitted by the proponent to address the issues raised during the public hearing and found it satisfactory.
- xv. The Committee deliberated on the ADS reply of the project 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.
- xviii. 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.
- 8. The EAC (Industry-1 Sector), in its 52nd meeting held during 23 25th January, 2024, based on information & clarifications provided by the project proponent and after detailed deliberations recommended the proposal for grant of

Environment Clearance subject to stipulation of specific and general EC conditions as detailed in the point below.

- 9. 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 Godawari Power & Ispat Limited under the provisions of EIA Notification, 2006 subject to the following specific conditions and general conditions (Annexure-III)
- 10. 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.
- 11. 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.
- 12. 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.
- 13. 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.
- 14. This issues with approval of the competent authority.

(Dr. R. B. Lal)
Scientist 'F'/Director
Tal No. 1011 20210244

Tel. No.: 011 - 20819346 Email: rb.lal@nic.in

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, Principal Chief Conservator of Forests, Government of Chhattisgarh, Medical Road, Raipur-492001
- 5. The Inspector General of Forests, 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 Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi -32
- 7. The Member Secretary, Chhattisgarh State Environment Conservation Board (Pollution Control office), Paryavas Bhavan, North Block Sector-19, Atal Nagar Dist-Raipur Chhattisgarh
- 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 District, Chhattisgarh
- 10. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi.
- 11. Guard File/Monitoring File/Website/Record File/Parivesh Portal.

(Dr. R. B. Lal) Scientist 'F'/Director



Details of the proposal are as per the EIA/EMP report

S. No.	Particulars	Details				
a.	Terms of Reference for	13.05.2023				
a.	undertaking EIA study	13.03.2023				
b.	Period of baseline data collection	Januray to April 2023				
c.	Date of Public	15.09.2023				
1	Consultation	A CD 01070000/1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
d.	Action plan to address the PH issues	An amount of Rs 9,10,50,000/- have been earmarked for action plan. Detail of activities proposed attached as				
e.	Location of the project	Annexure IV.				
С.	Location of the project	Located at Plot No. 428/2, and other Phase-1, Industrian Area Village Siltara and Tanda, Tahsil Dharsiwa, Distriction of the Control of the C				
		Raipur, Chhattisgarh				
f.	Latitude and Longitude of	Sl. No. Latitude Longitude				
	the project site	1 21°22'22.86"N 81°40'45.01"E				
		2 21°22'21.16"N 81°40'35.53"E				
		3 21°22'21.31"N 81°40'34.06"E				
		4 21°22'28.51"N 81°40'31.94"E				
		5 21°22'32.04"N 81°40'33.14"E				
		6 21°22'47.37"N 81°40'37.53"E				
		7 21°22'50.80"N 81°40'52.49"E				
		8 21°22'47.88"N 81°40'52.89"E				
	2	9 21°22'43.25"N 81°40'54.82"E				
	1	10 21°22'43.25"N 81°40'59.05"E				
	6	11 21°22'47.37"N 81°41'1.47"E				
		12 21°22'45.49"N 81°41'3.42"E				
\ \	3	13 21°22'49.08"N 81°41'6.98"E				
	3.	14 21°22'50.28"N 81°41'5.83"E				
		15 21°22'51.41"N 81°41'8.25"E				
	170-	16 21°22'47.24"N 81°41'9.36"E				
	10	17 21°22'36.41"N 81°40'58.92"E				
		18 21°22'26.35"N 81°40'59.35"E				
		19 21°22'26.21"N 81°41'4.05"E				
		20 21°22'35.08"N 81°41'5.40"				
		21 21°22'34.33"N 81°41'8.72"E				
		22 21°22'24.86"N 81°41'7.60"E				
		23 21°22'25.26"N 81°41'9.07"E				
		24 21°22'24.90"N 81°41'13.21"E				
		25 21°22'5.39"N 81°41'13.68"E				
		26 21°22'9.72"N 81°40'58.00"E				
		27 21°22'17.03"N 81°40'57.15"E				
		28 21°22'17.91"N 81°41'0.81"E				
		29 21°22'21.27"N 81°41'0.12"E				
		30 21°22'47.31"N 81°40'37.21"E				
		30 21 22 17.31 11 01 TU37.21 L				

S. No.	Particulars	Details					
		31	21°22	50.76"N	81°40'32.32	"E	
		32		'39.40"N	81°40'11.79		
		33		'41.38"N	81°40'4.93"]		
		34		'40.64"N	81°40'4.72"]		
		35		'33.43"N	81°40'9.92"]		
		36		'31.75"N	81°40'9.32"l		
		37 21°22'27.27"N			81°40'9.18"]		
		38		25.87"N	81°40'9.01"]		
		39		25.87"N	81°40'11.84"E 81°40'12.29"E		
		40		27.07"N			
		41		27.24"N	81°40'10.97		
	. / V	42		'33.23"N	81°40'13.50		
	6-K.	43		'33.25"N	81°40'15.32		
		44		'37.41"N	81°40'16.37		
		45		'36.96"N	81°40'21.33		
		46		'29.72"N	81°40'30.49		
		47		'30.28"N	81°40'31.77		
g.	Total land	Total land			01 1001111		
		A: 20					
		Existing:		1 V	93.825 ha.		
	~ /	Proposed			18.654 ha.		
h.	Land acquisition details as per MoEF&CC O.M. dated 7/10/2014 Existence of habitation &	Total land is in possession. Project site: None					
	involvement of R&R, if	Study Area:					
	any	Habit	ation	Distance	Direction		
	6	Tanda		Adjacent	E		
j. k.	Elevation of the project site Involvement of Forest land if any.	302 m above mean sea level No involvement of Forest land.					
1.	Water body exists within the project site as well as study area	Project si Study are		e			
		Water b	ody	Distanc	e	Direction	
		Kharun River 4.0 km Kulhan Nala 4.2 km				NW	
						NE	
		Chhokra Nala 3.7 km				W	
		Canal Adjacent – Out of plant boundary					

Particulars	Details
Existence of ESZ / ESA /	Nil
national park / wildlife	
Sanctuary / biosphere	
Reserve / tiger reserve /	
elephant reserve etc. if any	
within the study area	
Project cost	Existing capital cost of project was Rs. 1991.91 Crores.
Ç	The capital cost of the proposed project is Rs. 600 Crores.
EMP cost	The capital cost for environmental protection measures is
	proposed as Rs.33.85 Crores. The annual recurring cost
	towards the environmental protection measures is
	proposed as Rs. 2.15 Crores.
Employment opportunity	The employment generation from the proposed project /
	expansion is 200 people directly and to 200 people
	indirectly
Water and Dawer	The existing water requirement for the Plant including
requirement	domestic purpose is 9806 KLD and proposed water
	requirement will be 2247 KLD. Total water requirement after expansion will be 12053 KLD.
	at Relief by
V Q	The power requirement for the proposed project will be 19
	MW sourced from captive power plant.
	Existence of ESZ / ESA / national park / wildlife Sanctuary / biosphere Reserve / tiger reserve / elephant reserve etc. if any within the study area Project cost EMP cost





Unit configuration and capacity of existing and proposed project

S.No.	Name of the Unit	Existing Capacity as per EC	Proposed Expansion	Total after Expansion
1	Sponge Iron	650000 TPA (1 X 350 TPD & 3 X 500 TPD)	-	650000 TPA (1 X 350 TPD & 3 X 500 TPD) No Change
2	Steel Billet	700000 TPA (12T X 5, 12T X 6, 15T X 6, 30T X 4 IF's)	CAR	700000 TPA (12T X 5, 12T X 6, 15T X 6, 30T X 4 IF's) No Change
3	Power (AFBC/WHRB) & Biomass Power Plant	73MW (48 MW + 25 MW)		73MW (17MW+11MW+25MW+20 MW) No Change
4	Ferro Alloys	16500 TPA/ 33500 Pig Iron	E	16500 TPA/ 33500 Pig Iron No Change
5	H.B. Wire	200000 TPA		200000 TPA No Change
6	Oxygen Plant	1200000 NM3	16.37 - 1-	1200000 NM ³ No Change
	Nitrogen Plant	4 <mark>50000</mark> 0 NM3	-	4500000 NM ³ No Change
7	Fly Ash Brick Plant	16500000 Nos	را لا	16500000 Nos No Change
8	Iron Ore Beneficiation Plant	32,84,000 TPA	23,73,000 TPA	56,57,000 TPA (1X1094666+1X2189333+1 X2373000) Expansion
9	Rolling Mill	400000 TPA	- 1/2	400000 TPA No Change
10	Induction Furnace for Casting including Engineering & Fabrication	5000 TPA	P	5000 TPA No Change
11	Slag Crushing Plant	175000 TPA	15	175000 TPA No Change
12	Iron Ore Pelletization Plants	27,00,000 TPA	20,00,000 TPA	47,00,000 TPA (1x900000+1X1800000+1X 2000000) Expansion
13	Coal Gasification System for Iron Ore Pellet Plant	92000 Nm3/hr	59500 Nm ³ /hr	151500 Nm3/hr((5x4000+10X4000+ 1X20000+2X3000+2X3000 +17X3500) Expansion
14	Wet Mineral Grinding Plant	2,00,000 TPA	2,00,000 TPA	4,00,000 TPA Expansion

Specific and General EC conditions

A. Specific Condition:

- 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 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.
- 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 OMs dated 31st October, 2019 & 30th December, 2019 issued in compliance of the order of Hon'ble NGT in OA No. 1038/2018 dated 19th August, 2019, the compliance of all the conditions applicable to CEPI shall be implemented as per the submitted plan.
- v. Tanda Village is adjacent in East of the project site along with other sensitive areas within the study area of the project site. Proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. PP needs to strengthen green belt all around the plant area to reduce the dust pollution. The PP shall also include some of these locations in its environmental monitoring programme.
- vi. There is a canal adjacent to the to the project site along with other water bodies within the study area 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 of 12053 KLD shall be met from Chhattisgarh Ispat Bhoomi Limited. PP shall obtain necessary permissions from the Competent Authority. Ground water shall only be used for domestic purpose.
- viii. Three tier Green Belt shall be developed in at least 40% of the project area in a period of 1 year along the project site and outside within 5 km of the plant 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 also 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 sensitive areas nearby project site. 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. 9.105 Crores shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.
- x. PP shall undertake village adoption programme as committed and implement the action plan to develop them into a model village.

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 06 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 PM_{2.5} in reference to PM emission, and SO₂ and NOx in reference to SO₂ and NOx emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), 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/Nm³ 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. Briquetting and Jigging plant shall be installed in Ferro Alloys Plant.
 - xx. The PP shall minimize the evaporation losses in jigging operation to less than 10% using suitable advanced process.
 - xxi. The 4th hole extraction system shall be provided in the Sub Merged Arc Furnaces and EAF.
- xxii. Industry is going to use silica quartz in large quantities and going to produce Silico Manganese and Ferro Silicon alloy steel. Therefore, it is necessary to control silica/quartz exposures at production Departments, not only emission norms as per Indian Factories Act. The permissible limit for silica/quartz should be within 10 mg/m3 for total dust as per Indian Factories Act. Therefore, it is recommended to monitor personal and area exposures for silica quartz dust in the process plants.
- xxiii. No Ferro-chrome production shall be carried out without prior Environmental clearance from MOEF&CC.

- xxiv. 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.
- xxv. The coal dust should be monitored at coal unloading, crushing, furnace areas and should be within 2 mg/m³, respirable dust fraction containing less than 5% quartz as per Indian Factories Act, 1948.
- xxvi. 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.
- xxvii. Low NOx Burners will be installed at Reheating Furnace for control of Gaseous emissions generated while using PNG.

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. Air Cooled condensers shall be used in the captive power plant.

- xi. Tailing management plan shall be implemented as included in EIA report.
- xii. Tailings from Iron Ore beneficiation plant shall be dewatered in filter press and no slime /tailing pond shall be permitted.

IV. Noise monitoring and prevention

- 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. The project proponent shall provide waste heat recovery system on the DRI Kilns.
- ix. The dolochar generated shall be used for power generation.
- 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. The PP shall implement the guidelines on sponge iron plants issued by the CPCB/SPCB in this regard.

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.

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. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xiv. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xv. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xvi. 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.
- xvii. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

xviii.



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

S. No.	Major activities	Villages/ Area	Total (In Rs.)	1 st Year	2 nd Year	3 rd Year
A	Education					
1	Repairing & Maintenace of Primary / Middle School with additional 02 New Class room/Toilets	Tanda, Siltara & Mandhar	50,00,000	20,00,000	15,00,000	15,00,000
2	Model Anganwadi – Improvement in basic amenities like furnitures, support for lerning with fun activities for children with renovation of anganwadicenters	Tanda, Mandhar & Dharsiwa	18,00,000	7,20,000	5,40,000	5,40,000
3	Prayer Shed with Platform, flooring for Primary /High Schools	Siltara, Akoli & Mandhar	30,00,000	10,00,000	10,00,000	10,00,000
4	Furnitures & Other Basic Facilities in Govt. Schools to improve quality education for students	Tanda, Siltara, Mandhar, Akoli, Girodh, Mohadi, Charoda & Dharsiwa	15,00,000	6,00,000	4,50,000	4,50,000
5	Scholarship programs (Students from 10th & 12th will be provided with Scholarship program)	Tanda, Siltara, Mandhar, Akoli, Girodh, Mohadi, Charoda & Dharsiwa	21,00,000	7,00,000	7,00,000	7,00,000
	Sub Total	Pos	1,3	34,00,000		
В	Skill Development	rects if	She		A	
1	To promote Free Advance Computer Training for students	All Villages of Nearby	27,00,000	9,00,000	9,00,000	9,00,000
2	Operational/Maintennce of ITI Hathbandh	Hathbandh, Tilda	15,00,000	5,00,000	5,00,000	5,00,000
3	To promote Free Coaching for Personality Development, Spoken English Coaching, Competative Exam Coaching, , Vocational Skill Development / Livelihood Training for Youth	All Villages of Nearby	29,00,000	9,66,667	9,66,667	9,66,667
4	Running of Tailoring & Embroidery & Beauty Parlor Course etc. with the help of local NGO for women (Training Room, Machinery, Material, Opex Cost etc)	All Villages of Nearby	18,00,000	6,00,000	6,00,000	6,00,000
5	Training program / Workshops for local youths Farmers & SHG groups, Poultry, Pickle	All Villages of Nearby	15,00,000	5,00,000	5,00,000	5,00,000

S. No.	Major activities	Villages/ Area	Total (In Rs.)	1st Year	2 nd Year	3 rd Year
	Making, Diary, Broom making, sanitary napkin making etc.					
6	Various Awareness training program like fire safety, electric shock, First Aid, prevention of child sexual abuse, child labour prohibition etc.	All Villages of Nearby	15,00,000	5,00,000	5,00,000	5,00,000
	Sub Total		1,1	19,00,000		
С	Health	.NC				
1	General Health Checkup Camps, Eye Checkup camp & free distribution of medicine/Spects / Cataract Surgery for villagers	All Villages of Nearby	45,00,000	15,00,000	15,00,000	15,00,000
2	To organize an artificial Limb Camp for villagers of nearby villages	All Villages of Nearby	30,00,000	10,00,000	10,00,000	10,00,000
3	Promotion of Menstrual (Low Cost Sanitary Napkin) and Reproductive health, Anaemia Control Programme, Health & Hygiene for Female/Adolescent Girls	All Villages & Schools of Nearby	15,00,000	5,00,000	5,00,000	5,00,000
4	01 Dedicated Doctor for Siltara Health Centeralongwith other facilities on need basis	Siltara	15,00,000	5,00,000	5,00,000	5,00,000
5	Ambulance / Medical Van Facility so that 24x7 free medical services can be provided in villages	All Villages of Nearby	35,00,000	21,00,000	7,00,000	7,00,000
	Sub Total	" C G	1,4	10,00,000	<u> </u>	
D	Infrastructure Development	All Willages of				
1	Augmentation of Village Road & Drains	All Villages of Nearby	1,00,00,000	40,00,000	30,00,000	30,00,000
2	Construction of Community Room	Akoli & Mandhar or Nearby Villages	90,00,000	30,00,000	30,00,000	30,00,000
3	Upgradation of Cremation (muktidhaam) Ground, rest Shelter,Fencing,Plantation& Beautification etc.	All Nearby Villages	22,00,000	7,33,333	7,33,333	7,33,333
4	Cultural Stage Construction for Cultural congregation	Siltara, Girodh, Mohadi or Nearby Villages	24,00,000	8,00,000	8,00,000	8,00,000
5	Installation / Maintenence of Street lights	Tanda &Mandhar	9,00,000	3,00,000	3,00,000	3,00,000
6	Constrcution of Toilet Blocks	Siltara, Girodh or Nearby Villages	24,00,000	8,00,000	8,00,000	8,00,000

S. No.	Major activities	Villages/ Area	Total (In Rs.)	1st Year	2 nd Year	3 rd Year	
	Development of existing &	All Villages					
7	New Playground in	&Schools of	9,00,000	3,00,000	3,00,000	3,00,000	
	Schools/Villages	Nearby				3,00,000	
	Sub Total		2,78,00,000				
E	Environment						
1	Village Plantation / Green belt Development	Akoli & Mandhar & Siltara	60,00,000	20,00,000	20,00,000	20,00,000	
2	Development of Rain Water Harvesting Structures in Villages & Schools	All Villages of Nearby	30,00,000	10,00,000	10,00,000	10,00,000	
3	village water pond cleaning deepening & beautification	All Villages of Nearby	36,00,000	12,00,000	12,00,000	12,00,000	
	Sub Total		1,26,00,000				
F	Drinking Water Facility	W/C					
1	Construction of new Hand Pumps, New Bore Well, Water Purification System & Water Coolers in Schools & Villages	All Villages &Schools of Nearby	22,50,000	7,50,000	7,50,000	7,50,000	
2	Development Water Recycling System / Ground Water Recharge / Use of Rain Water in Schools & Villages	All Villages &Schools of Nearby	30,00,000	10,00,000	10,00,000	10,00,000	
3	Construction of Overhead Water Tank	on need basis for any 01 village	37,00,000			37,00,000	
	Sub Total		89	9,50,000	9		
G	Support for Sports Equipmen	ts / Tr <mark>aining</mark>	A : - 2		72		
1	Sports kits/equipment distribution for National Level Players of nearby schools to promote sports morale	All Schools &Aanganbadi of nearby villages	15,00,000	5,00,000	5,00,000	5,00,000	
2	Training program / Sports Competition for students to promote sports morale	All Schools &Aanganbadi of nearby villages	9,00,000	3,00,000	3,00,000	3,00,000	
	Sub Total	24,00,000					
	Grand Total	₹ 9,10,50,000					

^{e-}Pavments

signed