F. No. J-11011/326/2005-IA.II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

Indira Paryavaran Bhawan
JorBagh Road, Aliganj,
New Delhi – 110003
E-mail: dirind-moefcc@gov.in
Tel: 011-24695368

Dated: 1st December, 2020

To

Shri. Tonmoy,
Head – Corporate Affairs,
M/s. Godavari Power and Ispat Limited,
Plot No.428/2, Phase I, Industrial Area, Siltara,
Raipur - 493111
Tel: No. 0771-4082000; Email: tonmoy.bose@hiragroup.com

Subject: Expansion, Modernization of existing facilities along with integration of existing environmental clearances [Sponge Iron Plant - 6,50,000 TPA; Capacity enhancement of Steel Melting Shop from 4,00,000 TPA to 7,00,000 TPA; Power generation – 73 MW; Ferro Alloys – 16,500 TPA; Pig iron – 33,000 TPA; H.B. Wire – 1,00,000 TPA; Oxygen & Nitrogen plants; Fly ash brick plant, Iron ore beneficiation – 10,00,000 TPA; Rolling Mill – 4,00,000 TPA; Induction Furnace for Casting in place of Arc Furnace–5,000 TPA; Iron Ore Pellet Plant – Capacity enhancement from 21,00,000 TPA to 24,00,000 TPA; Coal Gasification System - 60,000 Nm^3/hr to 92,000 Nm^3/hr; Slag Crushing Plant – 1,75,000 TPA and Mineral grinding unit – 2,00,000 TPA) by **M/s. Godavari Power and Ispat Limited** located at 428/2, Phase-I, Industrial Area, Siltara, **Raipur, Chhattisgarh - Environment Clearance – regarding.**

Sir,

1. This refers to the online application of M/s. Godawari Power and Ispat Limited made vide proposal no. IA/CG/IND/4250/2005 dated 18/06/2020 along with copy of EIA/EMP report and Form – 2 seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at Sl. No. 3(a) Metallurgical Industries (Ferrous and Non-ferrous) under Category "A" EIA Notification, 2006 and the project is appraised at the Central level.

2. The aforesaid proposal was considered in the 22nd meeting of the EAC (Industry -1) held on 30th July – 1st August, 2020, 23rd meeting held on 28-30th September, 2020 and 24th meeting held on 27-29th October, 2020. The EAC proceedings of the said meetings are furnished as below.

Details submitted by the project proponent

3. The proposed expansion and modernization of M/s. Godawari Power &Ispat Limited located in Plot No. 428/2, Phase-I, Industrial Area, and 930,716, 722/3 & others, Siltara, Raipur-493111, Chhattisgarh.

4. The details of the ToR are furnished as below:

Date of application	Consideration	Details	Date of accord
09/02/2019	5th meeting held on 27th to 29th March 2019	Terms of Reference	08/05/2019
16/05/2019	7th meeting held on 29th to 31st May 2019	Amendment in ToR	19/07/2019

5. The project of M/s. GPIL is located in Plot No. 428/2, Phase-I, Industrial Area Siltara, and 930,716, 722/3 & othersRaipur-493111, Chhattisgarh has submitted the proposal for setting up of Expansion/Modernization of some existing facilities and merger of all the existing ECs.

6. The details of the existing ECs and its present status are as follows: -

S.No.	EC No. & Date	Name of the Unit	Capacity (TPA)	Present Status
1.	EC No. J-11011/326/ 2005-IA-II(I) Dated 02/03/2006	Sponge Iron	2,60,000	Operational
		Steel Billet	2,00,000	Operational
		Power (AFBC/WHRB)	25 MW	Operational
		Oxygen Plant	12,00,000 Nm^3	Operational
		Nitrogen Plant	45,00,000 Nm^3	Operational
		Fly Ash Brick Plant	1,65,00,000 Nos.	Operation discontinued
2.	EC No. J-11011/179/ 2009-IA-II(I) Dated 25/08/2009	Iron Ore Beneficiation Plant	10,00,000	Consent to operate vide letter No. 9247/CECB/2020 dt 16.01.2020 from CECB, Raipur.
		Rolling Mill	3,00,000	Operational
		Arc Furnace (to be revised to Induction Furnace for Casting)	5,000	ToR granted for amendment in EC.
		Biomass based Power Plant	20 MW	Operational since 01/11/2010.
3.	EC No. J-11011/216/2014-IA-II(I) Dated 07/04/2016	Iron Ore Pellet Plant (2 Units : Kiln-1 of 6,00,000 TPA &	21,00,000 TPA Pellet along with Producer Gas	

S.No.	EC No. & Date	Name of the Unit	Capacity (TPA)	Present Status
		Kiln-II of 15,00,000 TPA) along with Gasification System for Iron Ore Pellet Plant 15 x 4,000 Nm3/hr	60,000 Nm^3/hr	Operational

EC Amendments obtained:

For EC No. : J-11011/326/ 2005-IA-II(I) Dated 02/03/2006

Sl. No.	EC Amendments	Activities	Capacity (In TPA)	Amendment	Present Status
1	Vide dated 08/02/2012	Steel Billets	2,00,000	Change for use of Electric Arc Furnace instead of Induction Furnace route.	Reversed under item No. 3 below
2	Vide dated 12/05/2012	Sponge Iron	4,95,000	Increase in production capacity from 4,95,000 TPA to 6,50,000 TPA.	Applied for Consent to Establish/ Operate to CECB, Raipur (C.G.).
3	Vide dated 30/06/2017	Steel Billets	2,00,000	Change for use from Electric Arc Furnace to original Induction Furnace route.	Reversal of item No. 1 as above

For EC No: J-11011/179/ 2005-IA-II(I) Dated 25/08/2009

Sl. No.	EC Amendment	Activities	Capacity (In TPA)	Amendment	Present Status / Remarks
1	Vide dated 17/08/2015	Rolling Mill	3,00,000	Increase in production capacity from 3,00,000 TPA to	Operational

Sl. No.	EC Amendment	Activities	Capacity (In TPA)	Amendment	Present Status / Remarks
				4,00,000 TPA	
2	Vide dated 21/07/2017	Iron Ore Beneficiation Plant / Rolling Mill / Arc Furnace / Biomass based Power Plant		Extension of validity of Environment Clearance up to 24/08/2019.	Biomass power plant already operational. Already applied for Consent to Operate for Iron Ore Beneficiation Plant of 10,00,000TPA and Rolling Mill of capacity 4,00,000 TPA. To be revised from arc to Induction Furnace for casting (including engineering & fabrication).

7. The details of the existing capacity as per the ECs along with the propose expansion is furnished as below:

Sl. No.	Name of the Unit	Existing Capacity (As per EC)	Proposed Amendments / Remarks	Total after approval of this proposal
1	Sponge Iron	4,95,000 (Later amended to 6,50,000)	No change	6,50,000 TPA (1x350 TPD & 3 x500 TPD)
2	Steel Billet	4,00,000	Modernization and enhancement in production capacity of Steel Melting Shop (Billets) from existing 4,00,000TPA(7T X 5, 12T X 3, 15T X2, 30TX 2) to 7,00,000 TPA(12T X 5, 12 T X 6, 15 T X 6, 30T X4 IF's) by change in configuration of induction furnaces and installation of additional furnaces.	7,00,000 TPA (12T X 5, 12 T X 6, 15 T X 6, 30T X4 IF's)
3	Power (AFBC/WHRB)	73 MW	Modernization of existing power plant by change in	

Sl. No.	Name of the Unit	Existing Capacity (As per EC)	Proposed Amendments / Remarks	Total after approval of this proposal
	& Biomass Power Plant		configuration of existing 3 TG Sets [TG-1 : 9 MW, TG-2 : 9 MW, TG-4 : 30 MW (+1 standby of capacity 10 MW)] with one new energy efficient TG set of 48 MW capacity (+ 1 standby of capacity 10 MW) and all existing TG shall also be retained for abnormal situations/ in case of no change in configuration due to some unavoidable reasons.	73 MW (48 MW+25 MW) (all Existing TGs 9MW + 9MW + 10 MW (Standby) + 30MW + 25 MW to be retained for adversity)
4	Ferro Alloys	16,500	No change	16,500TPA
5	Pig Iron	33,000	No change	33,000 TPA
6	H.B. Wire	1,00,000	1,00,000	2,00,000 TPA
7	Oxygen Plant	12,00,000NM^3	No change	12,00,000 NM^3
	Nitrogen Plant	45,00,000NM^3	No change	45,00,000 NM^3
8	Fly Ash Brick Plant	1,65,00,000 Nos.	No change	1,65,00,000 Nos.
9	Iron Ore Beneficiation Plant	10,00,000	Capacity enhancement from 1000000 to 3284000 TPA	32,84,000 TPA
10	Rolling Mill	3,00,000 (Later amended to 4,00,000)	No change	4,00,000 TPA
11	Arc Furnace	5,000	(to be revised to Induction Furnace for Casting) including Engineering & Fabrication	5,000 TPA
12	Iron Ore Pelletization Plants	(Existing 2 Units : Kiln-I of 6,00,000 TPA & Kiln-II of 15,00,000 TPA) 21,00,000 TPA	Proposed enhancement in production capacity to 24,00,000 TPA without change in plant and machinery or 24,00,000 TPA Pellet.	24,00,000 TPA (within which 22,00,000 TPA will be manufacture of Pellet + 2,00,000 TPA manufacture of Magnetite Powder or

Sl. No.	Name of the Unit	Existing Capacity (As per EC)	Proposed Amendments / Remarks	Total after approval of this proposal
				24,00,000 TPA Pellet)
13	Coal Gasification System for Iron Ore Pellet Plant	Existing Gasifiers of 16,000 Nm^3/hr + 1 No. standby of 4,000 Nm^3/hr& 40,000 Nm^3/hr + 1 No. standby 20,000 Nm^3/hr (Total Operational: 60,000 Nm^3/hr (1 Standby of capacity 4000 Nm3/Hr)	Proposal for regularization of standby Gasifiers of 24,000 Nm^3/hr and installation of new Gasifiers of 12,000 Nm^3/hr	92,000 Nm^3/hr
14	Slag Crushing Plant	- -	Proposed	1,75,000TPA
15	Mineral Grinding Plant	- -	Proposed	2,00,000TPA

8. The total land required for the project is 93.82 ha, which is in industrial use. Forestland is not involved. It has been reported that there is a pond at 0.5 Km from the project site in village Tanda, there is no river within the 1 Km of the site and modification/diversion in the existing natural drainage pattern at any stage is not proposed. No R&R is involved.

9. The topography of the area is flat and reported to lies between 21° 22' 24.9" N to 21° 22' 38.7" N Latitude and 81° 40' 30.8" E to 81° 41' 13.0"E Longitude in Survey of India toposheet No. 64 G/11 & 64G/15, at an elevation of 282 m AMSL. The ground water table reported to ranges between 3.8 to 7.2 meter below the land surface during the post-monsoon season and 10.5 to 5.2 meter below the land surface during the pre-monsoon season.

10. No national park/wildlife sanctuary/biosphere reserve/tiger reserve/elephant reserve, Forest are reported to be located in the core and buffer zone of the project.

11. The raw material requirement for the proposed project is given as below:

S. N.	Name of Units	Raw Material	Quantity Required (TPA)	Source
1.	Sponge Iron	Pellet	9,42,500	Own source
		Coal	6,50,000	Coal India and its subsidiaries/open market and imported
		Dolomite	19,500	Purchase from Open market
2.	Steel Billet (SMS)	Sponge Iron	7,60,960	Own source / Purchase from Open market

S. N.	Name of Units	Raw Material	Quantity Required (TPA)	Source
		Scrap	92,030	Purchase from Open market / imported scrap
		Lime	5,954	Purchase from Open market
		Silico Manganese	10,480	Own source/ Purchase of open market
3.	Power Generation	Coal	1,13,225	Coal India and its subsidiaries / open market and imported
		Dolochar	2,678	Own source
		Rice Husk	1,67,111	Purchase from Open market
4.	Ferro Alloys / Pig Iron	Manganese Ore	34,650	Purchase from MOIL / open market and imported
		High Mn Slag	6,600	Purchase from open market
		Dolomite	495	Purchase from Open market
		Quartz	1,320	Purchase from Open market
		Coke / Steam Coal	9,900	Purchase from open market and imported
		Electrode Paste	495	Purchase from open market
		MS Item	165	Purchase from Open market
		Lancing Pipe	50	Purchase from Open market
5.	H.B. Wire	M.S. Wire Rods	2,03,000	Own source / Associate Units.
6.	Oxygen & Nitrogen Plant	Atmospheric Air	4,16,670	N/A
7.	Fly Ash Bricks Plant	Fly Ash	70,000	Own source
		Lime & Gypsum	15,000	Purchase from Open market
		Granulated Ferro Alloys Slag	7,000	Own source
		Sand	8,000	Purchase from Open market
8.	Iron Ore Beneficiation	Crushed Iron Ore	32,84,000	Captive Mines at Ari Dongri and BoriaTibbu& Open Market
9.	Rolling Mill	Steel Billets	4,25,500	Own source

S. N.	Name of Units	Raw Material	Quantity Required (TPA)	Source
10.	Induction Furnace for Casting	Steel Scrap & Borings	2511	Purchase from Open market
		Pig Iron & Silicon	277	Purchase from Open market
		Ferro Manganese	16.5	Purchase from Open market
		Ferro Silicon Magnesium	10.5	In house
		Inoculants	3.3	Purchase from Open market
		Silica Sand	250	Purchase from Open market
		Bentonoide	2.5	Purchase from Open market
		Coal Dust	15	Purchase from Open market
	Fabrication / Engineering	Following Engineering Items, Steel (Plates, Pipe, Structures etc), Bearing, Gear Box, Motor, Tools and Tackles etc	2550	Purchase from Open market
11.	Mineral Grinding	Mineral Ore	2,00,000	Own Source / Purchase from Open market
12	Iron Ore Pellet Plant Total proposed capacity – 24,00,000 TPA (within which 22,00,000 TPA will be manufacture of pellet &2,00,000 TPA manufacture of magnetite Powder or 24,00,000 TPA Pellet)			
	Manufacture of Pellets – 22,00,000 TPA	Iron Ore Fines (DRY including Return Fines) and Mill scale	22,88,000	Own source and shortfall if any will be procured from outside sources
		Bentonite/ Binder	22,000	Purchase from Open market
		Lime Stone / Dolomite	35,200	Purchase from Open market

S. N.	Name of Units	Raw Material	Quantity Required (TPA)	Source
		LDO (Calorific value balancer for gasification)	2,300 KL Ignite Oil / LDO/ Tar as and when required not exceeding 2,300 KL	Purchase from Petroleum companies / open market
	Manufacture of Magnetite Powder – 2,00,000 TPA Manufacture of Pellets – 24,00,000 TPA	Magnetite Ore	2,00,000	Own source
		Iron Ore Fines (DRY including Return Fines) and Mill scale	24,96,000	Own source and shortfall if any will be procured from outside sources
		Bentonite/ Binder	24,000	Purchase from Open market
		Lime Stone/ Dolomite	38,400	Purchase from Open market
		LDO (Calorific value balancer for gasification)	2,300 KL Ignite Oil / LDO/ Tar as and when required not exceeding 2,300 KL	Purchase from Petroleum companies / open market
13	Gasification System for Pellet Plant – 92,000 Nm3/hr	Coal	2,86,364	Coal India and its subsidiaries / open market and imported

12. The targeted production capacity of the proposed expansion is as given above. The ore transportation will be one through Rail/Road.

13. The water requirement of the project is estimated as 17203m^3 /day. The company has also obtained the permission from Central Ground Water Board for withdrawal of 479 KL/day for drinking & sanitation purpose vide letter No. 21-4/698/CT/IND/2017 – 305 dated 2ndFebruary 2019.The company has an agreement for supply of 18,000 KL/day water with Chhattisgarh Ispat Bhoomi Limited for its industrial use in integrated steel facilities for post expansion requirement vide letter No. L 385536 dated 16th August 2019.

14. The power requirement of the project is estimated as 142 MW. Out of it, 73 MW power will be of captive generation and 25 MW from associate concern with captive status. Balance (shortfall) will be met through the Chhattisgarh State Electricity Board/Power Grid.

15. Baseline Environmental Studies:

Period	15th March to 15thJune, 2019
AAQ parameters at 8 locations	$PM_{2.5}$ = 23.4 to 45.6 µg/m^3 PM_{10}= 43.4 µg/m^3 to 82.6 µg/m^3

	SO_2= 15.3 to 40.2µg/m^3 NOx = 16.8 to 45.4µg/m^3
AAQ modelling	PM_{10} = 3.60µg/m^3 SO_2 = 6.33µg/m^3 NOx = 3.12µg/m^3
Ground water quality at 8 locations	pH: 7.1 to 7.8 , Total Hardness: 290 to 474 mg/l, Chlorides: 40.3 to 189.5 mg/l, Fluoride: 0.3 to 0.6 mg/l. Heavy metals are within the limits.
Surface water quality at 8 locations	pH: 7.4 to 7.8 ; DO: 4.9 to 6.8 mg/l and BOD: <3 to 3.6 mg/l. COD from BDL to22.4 mg/l
Noise levels	41.0 to 62.7 dBA for daytime and 39.7 to 50.4 dBA for night-time.

16. The solid wastes to be generated and scheme for their Management/disposal are given below:

Solid Waste generation	Existing Quantity (TPA)	Proposed Quantity (TPA)	Total Quantity (TPA)	Method of Disposal
Sponge Iron Plant				
Char &Dolochar	1,30,000	No Change	1,30,000	Used in captive power plant (AFBC) & sold to secondary users viz. power plant of our associated unit M/s. Jagdamba Power and other brick manufacturing units.
Dust from Settling Chamber	45,500	No Change	45,500	It is being used for brick manufacturing and low lying areas, making of internal & external roads.
ESP Dust	45,500	No Change	45,500	
Steel Melting Shop				
Slag	1,00,000	75,000	1,75,000	Slag Generation will be approx. @25% and total generation approx. 175000 TPA Slag will be crushed in proposed slag crusher and mag-part (approx. 25000 TPA) of slag will be sent to SMS for re-melting while granulated Non-mag (approx. 150000 TPA) will be utilized for road base making, cement manufacturing and for reclamation of low laying areas.

Solid Waste generation	Existing Quantity (TPA)	Proposed Quantity (TPA)	Total Quantity (TPA)	Method of Disposal
				MOU with cement industry is signed for utilization of non-mag part of slag.
Power Plant				
Ash (Power Plant(70 TPH BOILER)	No Change	No Change	85,071	Supply to cement plants/ brick manufacturing units, road base making and reclamation of low laying area.
Ash (Biomass based Power Plant(100 TPH BOILER)				
H.B. Wire/Rolling Mill				
Mill scale	9500	4500	14000	Will be recycled in Ferro Alloys / SMS units/ Pellet Plant.
Iron Ore Beneficiation Plant				
Tailings	1,96,000	4,48,000	6,44,000	Tailings from beneficiation plant will be used in embankments, road formation, filling of low-lying areas and as additives in cement manufacturing. The company has entered into a MOU with Ultratech Cement Limited for utilization / disposal of Tailings in their Cement plant unit at Rawan Cement Works, Village : Rawan, Dist. Baloda Bazar, Chhattisgarh.
Iron Ore Pellet Plant with Gasification System				
Ash (Sinder)	77175	11025	88200	Utilized for fly ash brick making and reclamation of low laying areas.
Tar	14,700 KL	2550 KL	17250 KL	Tar generated from coal gasification plant is being utilized in Pellet Plant and excess quantity being sold to authorized parties, Company has obtained Authorization under Hazardous and Other

Solid Waste generation	Existing Quantity (TPA)	Proposed Quantity (TPA)	Total Quantity (TPA)	Method of Disposal
				Wastes (Management & Transboundary movement) Rules, 2016 (as amended).
Dust collected through Sweeping Machine	182.5 T	-	182.5 T	It will be utilized for brick manufacturing, filling of low lying areas and in pellet manufacturing.
Entire Plant				
Waste Refractory	350	50	400	Generated only during replacement of refractory material. Sold to outside parties for reuse and for inside road base making etc.
Process ETP Sludge	141	10	151 MT	Disposal through CTSDF/sold to authorized recyclers
Sewage Treatment Plant Sludge	3.0	0.5	3.5 MT	Used as soil conditioner on-site plantation.
Misc. wastes Metal	4000	-	4000 MT	In-house consumption in SMS/Pellet plant
Electrical	0.2	0.05	0.250 MT	
wood scrap	0.5	0.5	1 MT	In-house consumption during light up of plant, reused for usable wooden items.
Canteens				
Biodegradable food wastes, paper and other wastes	5.0	2.0	7.0 MT	It is converted into compost manure through mechanical compost convertor and utilized for green belt development.

17. The Green belt of 34.35% has been developed in the existing land of 86.464 ha and additional land 7.361 ha.is purchased further plantation will be developed in the additionally purchased land. GPIL has already planted about 73439 numbers of trees in the premises and proposed to plant additional 7500 no. of saplings. This includes gap filling of trees at various locations of the plant and approx. An area of 32.36 haland (known as Oxyzone) has been allotted by Chhattisgarh Industrial Development Corporation in the village Siltara Phase-2 for plantation, in which around plantation of 37,000 saplings has been done. Total existing green belt cover (including outside plantation) more than 40%.

18. The Public hearing of the project was held on 17thFebruary 2020 at Plot no. 428/2, Siltara Industrial Centre Phase 1, District Raipur, Chhattisgarh under the chairmanship of District Magistrate and Additional Collector for Expansion and Modernization of existing facilities along with the merger of exiting EC. The issues raised during public hearing are employment, pollution control & green belt development etc. An amount of 400 Lakhs has been earmarked based on public hearing issues.

19. The total capital cost of the project is Rs. 1988.87 Crores including existing Rs. 1789.22 Crores. The capital cost for environmental protection measures is proposed as Rs. 340Lakhs. The annual recurring cost towards the environmental protection measures is proposed as Rs. 63.0 Lakhs. The total employment generation from the existing and proposed project is 3585.

20. The proponent has mentioned that there is no court case or violation under EIA Notification to the project or related activity.

21. Name of the EIA consultant: Pollution and Ecology Control Services [S.No. 74, List of ACOs with their Certificate / Extension Letter no. Rev. 02, Sep. 07, 2020].

Certified compliance report from Regional Office

22. The Status of compliance of earlier EC was earlier obtained from Regional Office, Nagpur vide Lr. No. EC-99/RON/2019-NGP/5396, dated 13th June 2019 wherein observations have been made with respect to dust control, density of plantation, provision of evacuation route in SMS plant, usage of PPE by workers and use of solar energy etc. The action taken report was submitted by project proponent to RO on 17/06/2020 and closure report was furnished by the RO on 15/09/2020.

Observations of the Committee

23. The Committee observed the following:

    i. The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. The Committee has found the baseline data and incremental GLC due to the proposed project within NAAQ standards. The Committee has also deliberated on the public hearing issues along with action plan to address the issues raised during the public hearing and found satisfactory. The certified compliance report also found to be satisfactory.

    ii. Additional information submitted by the project proponent found to be satisfactory, and addressing the concerns of the Committee except the rain water harvesting.

    iii. The Committee requested the Ministry to issue consolidated EC in supersession of all the existing ECs accorded by the Industry 1 sector of MoEF&CC.

Recommendations of the Committee

24. In view of the foregoing and after deliberations the committee recommended the instant proposal for grant of Environment Clearance under the provisions of EIA Notification, 2006 in supersession of all the existing ECs subject to the stipulation of following specific conditions and general conditions as per the Ministry's Office Memorandum No. 22-34/2018-III dated 9/8/2018 pertaining to sponge iron plants, induction furnace and rolling mills based on project specific requirements.

A. Specific conditions

i. Connecting road to the plant with avenue plantation shall be maintained by PP. Traffic congestion on the road outside plant shall be avoided.
ii. Appropriate and sufficient land shall be provided for parking of heavy vehicles.
iii. Stack emissions shall be less than 30 mg/Nm^3 from all stacks in the plant.
iv. 10 Nos of IF shall be phased out by 2022-23.
v. PP shall carry out GHG emission and Carbon Footprint Study/ Carbon Budget for entire process in a time frame of two years. This study report must contain recommendation for minimizing the Carbon Footprint. These recommendations shall be implemented in a time bound manner and progress in this regard shall be reported to the Regional Office on an yearly basis – as of 31st March of each year.
vi. Sludge drying beds shall be replaced by filter presses and dry disposal of sludge shall be practiced.
vii. Fugitive emissions shall be controlled by providing paved roads, industrial vacuum cleaners, water spray, covered sheds and by recycling the dust collected to the plant.
viii. 100 % water consumed annually shall be harvested and recharged with monitoring facilities.
ix. Water consumption shall be brought down to less than 5 m^3/t of steel as per CREP Charter and subsequently the same shall be reduced to 4.5 m^3/t of steel within two years.
x. 100 % dolochar shall be used for power generation within the plant.
xi. 100 % waste utilization shall be practiced and dumping of waste shall not be permitted.
xii. 40% Green Belt shall be developed in the plant area and outside within 5 km of the plant.
xiii. A resource efficiency group shall be created to set annual targets for resource conservation and annual reports shall be furnished to RO.

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 Continuous Ambient Air Quality Station (CAAQS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.

ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.

iii. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.

iv. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.

v. Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/ agglomeration.

vi. The project proponent shall ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation.

vii. The project proponent shall provide primary and secondary fume extraction system at all melting furnaces.

viii. Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.

ix. Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.

III. Water quality monitoring and preservation

i. The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 (G.S.R 414 (E) dated 30th May 2008; G.S.R 277 (E) dated 31st March 2012 (applicable to IF/EAF); S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.

ii. The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognised under Environment (Protection) Act, 1986 and NABL accredited laboratories.

iii. Adhere to 'Zero Liquid Discharge'.

iv. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.

v. Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.

IV. Noise monitoring and prevention

i. Noise quality shall be monitored as per the prescribed Noise Pollution (Regulation And Control) Rules, 2000 and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.

V. Energy Conservation measures

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

VI. Waste management

i. Used refractories shall be recycled as far as possible.

ii. 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.

iii. Oily scum and metallic sludge recovered from rolling mills ETP shall be mixed, dried, and briquetted and reused in melting Furnaces.

iv. Kitchen waste shall be composted or converted to biogas for further use.

VII. Green Belt

i. Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant

ii. The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.

VIII. Public hearing and Human health issues

i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.

ii. The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.

iii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained.

IX. Corporate Environment Responsibility

i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020.

ii. The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.

iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.

X. Miscellaneous

i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.

ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.

iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.

iv. The project proponent shall monitor the criteria pollutants level namely; PM_{10}, SO_2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.

v. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.

vi. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.

vii. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.

viii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.

ix. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).

x. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.

xi. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

xii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

xiii. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.

xiv. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

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

(A.K. Agrawal)
Director

Copy to:-

1. Secretary, Department of Environment, Government of Chhattisgarh Secretariat Raipur.
2. Regional Officer, Ministry of Environment, Forest and Climate Change, Regional Office (WCZ), Ground Floor, East Wing, New Secretariat Building, Civil Lines, Nagpur – 44000.
3. Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-Cum-Office Complex, East Arjun Nagar, New Delhi-110 032.
4. Chairman, Chhattisgarh Environment Conservation Board, Nanak Niwas, Civil Lines, Raipur, Chhattisgarh.
5. Member Secretary, Central Ground Water Authority, West Block –II, Wing -3, Sector I, R.K.Puram, New Delhi – 110086.
6. District Collector, District Raipur, Chhattisgarh.
7. Guard File / Record file / Monitoring file.
8. MOEF&CC Website.

(A.K. Agrawal)
Director

F. No. J-11011/326/2005-IA.II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

Indira Paryavaran Bhawan
JorBagh Road, Aliganj,
New Delhi – 110003
E-mail: r.sundar@nic.in
Tel: 011-24695304

Dated: 26th February, 2021

To

Shri. Tonmoy,
Head – Corporate Affairs,
M/s. Godavari Power and Ispat Limited,
Plot No.428/2, Phase I, Industrial Area, Siltara,
Raipur - 493111
Tel: No. 0771-4082000; Email: tonmoy.bose@hiragroup.com

Subject: Expansion, Modernization of existing facilities along with integration of existing environmental clearances [Sponge Iron Plant - 6,50,000 TPA; Capacity enhancement of Steel Melting Shop from 4,00,000 TPA to 7,00,000 TPA; Power generation – 73 MW; Ferro Alloys – 16,500 TPA; Pig iron – 33,000 TPA; H.B. Wire – 1,00,000 TPA; Oxygen & Nitrogen plants; Fly ash brick plant, Iron ore beneficiation – 10,00,000 TPA; Rolling Mill – 4,00,000 TPA; Induction Furnace for Casting in place of Arc Furnace– 5,000 TPA; Iron Ore Pellet Plant – Capacity enhancement from 21,00,000 TPA to 24,00,000 TPA; Coal Gasification System - 60,000 Nm^3/hr to 92,000 Nm^3/hr; Slag Crushing Plant – 1,75,000 TPA and Mineral grinding unit – 2,00,000 TPA) by **M/s. Godavari Power and Ispat Limited** located at 428/2, Phase-I, Industrial Area, Siltara, **Raipur, Chhattisgarh – Amendment in Environment Clearance – regarding.**

Sir,

1. This refers to application of **M/s. Godavari Power and Ispat Limited** made vide proposal no. IA/JH/IND/113706/2019 dated 05/01/2021 along with Form 4 and sought for amendment in the Environment Clearance accorded by the Ministry vide letter no. J-11011/320/2005-IA-II(I) dated 1/12/2020 regarding specific conditions no. (iii), (vi), (viii) and (ix).

2. The proposal cited above was considered in the 28th REAC meeting held on 18-20th January, 2021. The EAC proceedings of the proposal is reproduced as below:

Details submitted by the Project Proponent

3. EC was accorded to M/s. Godavari Power and Ispat Limited vide letter No. J-11011/326/2005-I A.II(I) dated 01/12/2020 for the project mentioned above subject to stipulation of specific and general conditions.

O/C

4. The project proponent has submitted that amendment in the aforesaid EC is sought for following conditions:

Sl. No.	Specific Condition No.	Specific Condition	Reason for seeking Amendment
1.	iii	Stack emissions shall be less than 30 mg/Nm^3 from all stacks in the plant.	To achieve stack emission less than 30 mg/Nm^3 from existing stacks in the plant, it is requested that an appropriate time period up to 31/03/2023 is essentially required for replacement of controller panels of precision III in all 4 fields with high frequency controllers, for change in existing emitting/collecting electrodes with latest design technology, to increase collection area inside ESP and transformer set of ESP.
2.	vi	Sludge drying beds shall be replaced by filter presses and dry disposal of sludge shall be practiced.	Since filter press shall be installed by 31st March, 2021 to get the sludge dewatered and in dry form, therefore, it is requested that an appropriate time period for dry disposal of sludge may kindly be given up to 31st March, 2023.
3.	viii	100% water consumed annually shall be harvested and recharged with monitoring facilities.	GPIL shall use ground water 56100 m^3/Annum for domestic purpose only. Potential of rain water harvesting is 483547 m^3/Annum is more than the withdrawal quantity of ground water. Therefore, it is requested that potential of rain water harvesting within the plant premise may kindly be stipulated in the condition considering the ground water consumption as per CGWA guidelines.
4.	ix	Water consumption shall be brought down to less than 5 m^3/t of steel as per CREP Charter and subsequently the same shall be reduce to 4.5 m^3/t of steel within two years.	Water consumption shall be brought down to less than 5 m^3/t of steel as per CREP Charter and it is requested that an appropriate time period may kindly be given to further reduce the same to 4.5 m^3/t of steel.

5. The project proponent has reported that there is no change in project configuration & capacity granted in EC vide File No. J-11011/326/2005-I A.II(I) dated 01/12/2020.

6. It has been reported that there is no violation under EIA Notification, 2006/court case/show cause/direction related to the project under consideration.

Observations of the Committee

7. The Committee noted the following:

i. EC was issued on 1.12.2020 for expansion of DRI, SMS, FAP and CPP.
ii. Amendment is sought for the following Specific terms;
    a. Specific Condition # (iii)- Stack emissions shall be less than 30 mg/Nm^3 from all stacks in the plant.
    b. Specific Condition # (vi)- Sludge drying beds shall be replaced by filter presses and dry disposal of the sludge shall be practiced.
    c. Specific Condition # (viii)- 100% water consumed annually shall be harvested and recharged with monitoring facilities.
    d. Specific Condition # (ix)- water consumption shall be brought down to less than 5.0 m^3/t of steel as per CREP Charter and subsequently the same shall be reduced to 4.5 m^3/t of steel within two years.

Recommendations of the Committee

8. In view of the foregoing and after deliberations, the committee recommended for amendment in the following specific conditions of the EC dated 1/12/2020:
    i. Specific Condition # (iii)- PP shall achieve the stack emission to less than 30 mg/Nm^3 from existing stacks in the plant by 31/03/2023.
    ii. Specific Condition # (vi)- In order to phase out the sludge drying beds, a filter press shall be installed by 31/03/2021 to dewater and dispose the sludge in dry form. Complete switch over to dry disposal of sludge shall be achieved latest by 31/12/2021.
    iii. Specific Condition # (viii)-PP shall use ground water 56100 m^3/annum for domestic purpose only. Potential for rain water harvesting inside the plant is 483547 m^3/annum. Therefore, potential of rain water harvesting within the plant premises shall be harvested and recharged with monitoring facilities.
    iv. Specific Condition # (ix)- Water consumption shall be brought down to less than 5 m^3/t of steel as per CREP Charter and subsequently the same shall be reduced to 4.5 m^3/t of steel by March, 2023.

Decision of MoEF&CC

9. The undersigned is directed to inform that Ministry of Environment, Forest and Climate Change has examined the proposal in accordance with the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and after accepting the recommendations of the Expert Appraisal Committee (Industry-1) hereby decided to amend the Specific Condition nos. (iii), (vi), (viii) and (xi) of EC issued to GPIL vide letter no. J-11011/326/2005-IA-II(I) dated 1/12/2020 as given below:

    i. Specific Condition # (iii)- PP shall achieve the stack emission to less than 30 mg/Nm^3 from existing stacks in the plant by 31/03/2023.
    ii. Specific Condition # (vi)- In order to phase out the sludge drying beds, a filter press shall be installed by 31/03/2021 to dewater and dispose the sludge in dry form. Complete switch over to dry disposal of sludge shall be achieved latest by 31/12/2021.
    iii. Specific Condition # (viii)-PP shall use ground water 56100 m^3/annum for domestic purpose only. Potential for rain water harvesting inside the plant is 483547 m^3/annum. Therefore, potential of rain water harvesting within the plant premises shall be harvested and recharged with monitoring facilities.
    iv. Specific Condition # (ix)- Water consumption shall be brought down to less than 5

m^3/t of steel as per CREP Charter and subsequently the same shall be reduced to 4.5 m^3/t of steel by March, 2023.

10. All other terms and conditions mentioned in the Environment Clearance letter no. J-11011/326/2005-IA-II(I) dated 1/12/2020 shall remain unchanged.

11. The PP shall obtain fresh Environment Clearance in case of change in scope of the project if any.

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

Yours faithfully,

26/2/21

(Sundar Ramanathan)
Scientist 'E'

Copy to: -

1. Secretary, Department of Environment, Government of Chhattisgarh Secretariat Raipur.
2. Regional Officer, Ministry of Environment, Forest and Climate Change, Regional Office (WCZ), Ground Floor, East Wing, New Secretariat Building, Civil Lines, Nagpur – 44000.
3. Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-Cum-Office Complex, East Arjun Nagar, New Delhi-110 032.
4. Chairman, Chhattisgarh Environment Conservation Board, Nanak Niwas, Civil Lines, Raipur, Chhattisgarh.
5. Member Secretary, Central Ground Water Authority, West Block –II, Wing -3, Sector I, R.K.Puram, New Delhi – 110086.
6. District Collector, District Raipur, Chhattisgarh.
7. Guard File / Record file / Monitoring file.
8. MOEF&CC Website.

26/2/21

(Sundar Ramanathan)
Scientist 'E'