F. No. J-11011/45/2012-IA-II(I) Government of India

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

Indira Paryavaran Bhawan Jor Bagh Road, Aliganj, New Delhi – 110003

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Dated:

24th December, 2020

To

Shri. P S Dutta Gupta, Head – Corporate Affairs, M/s. Sarda Energy and Minerals Limited Phase I, Siltara Industrial Growth Center, Village Mandhar, Tehsil Dharsiwa, District, Raipur, Chhattisgarh.

Subject:

Enhancement of Production capacity of existing Pellet Plant from 0.6 MTPA to 0.8 MTPA, upgradation of Existing 0.7 MTPA Iron Ore Grinding Unit to 1.0 MTPA Iron Ore Grinding and Beneficiation Plant, expansion by Adding: (i) Iron Ore Pellet Plant - 12,00,000 TPA (ii) 20 Nos Coal Gasifier - 54092 Nm³/Hr (iii) Iron Ore Grinding & Beneficiation Plant - 20,00,000 TPA (iv). Ductile Iron Pipes with Induction Furnace - 4,00,000 TPA by M/s. Sarda Energy and Minerals Limited located at Phasel of Siltara Industrial Growth Center, Village—Mandhar, Tehsil — Dharsiwa, District Raipur, Chhattisgarh — Environment Clearance — regarding.

Sir,

- 1. This refers to the application of M/s. Sarda Energy and Minerals Limited made vide proposal no. IA/CG/IND/101936/2020 dated 2/07/2020 along with copy of EIA/EMP report and Form 2 seeking Environment Clearance (EC) under the provisions of EIA Notification, 2006 for the project mentioned above. Subsequently, revised proposed was submitted vide proposal no. IA/CG/IND/25977/2014 dated 11/09/2020 to the Ministry. 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.
- The aforesaid proposal was considered in the 21st meeting of the EAC (Industry -1) held on 30th July -1st August, 2020, 23rd meeting held on 28-30th September, 2020 and 25th meeting held on 25-27th November,2020. The proceedings of the said meetings are furnished as below.

Details submitted by the project proponent

- 3. The Company proposes to establish only the following as per the revised proposal:
 - A. Enhancement of the production capacity of Existing operational pellet plant from 6,00,000 TPA to 8,00,000 TPA without changing any plant & machinery.

Environmental Clearance for the project titled "Enhancement of Production capacity of existing Pellet Plant from 0.6 MTPA to 0.8 MTPA, upgradation of Existing 0.7 MTPA Iron Ore Grinding Unit to 1.0 MTPA Iron Ore Grinding and Beneficiation Plant, expansion by Adding: (i) Iron Ore Pellet Plant - 12,00,000 TPA (ii) 20 Nos Coal Gasifier - 54092 Nm3 'Hr (iii) Iron Ore Grinding & Beneficiation Plant - 20,00,000 TPA (iv). Ductile Iron Pipes with Induction Furnace 4,00,000 TPA by M's. Sarda Energy and Minerals Limited located at Phase1 of Siltara Industrial Growth Center, Village Mandhar, Tehsil – Dharsiwa, District Raipur, Chhattisgarh".

- B. Upgradation of Existing 0.7 MTPA Iron Ore Grinding Unit to 1.0 MTPA Iron ore Grinding and Beneficiation Plant.
- C. Expansion by Adding:
- Iron Ore Pellet Plant 12,00,000 TPA
- 20 Nos Coal Gasifier (20 Nos) 54092 Nm³/Hr
- Iron Ore Grinding & Beneficiation Plant 20,00,000 TPA
- Ductile Iron Pipes with Induction Furnace 4,00,000 TPA
- 4. The detail of the ToR is furnished as below:

Date of application	Consideration	Details	Date of accord
27/11/2017	27 th meeting held on 3 rd to 4 th January 2018	J – 11011/45/2012- IA II (I)	16/01/2018 and its corrigendum dated 18/09/2018

- 5. The proposed expansion of Steel Plant of M/s. Sarda Energy and Minerals Limited is located at Phase 1 of Siltara Industrial Growth Center, Village Mandhar, Tehsil Dharsiwa, District Raipur and State Chhattisgarh.
- 6. It is reported that the existing Pellet Plant was accorded environmental clearance vide F. No. J-11011/45/2012-IA.II(I) dated 28/10/2016. Ministry of Environment, Forest & Climate Change accorded Environmental Clearance for 1.1 MTPA Integrated Steel Plant along with WHRB Power Plant (2 x 30 MW) at Siltara Industrial Growth Centre, Phase-I, Mandhar, Raipur, Chhattisgarh vide F. No. J-11011/999/2007-IA.II(I) dated 23/12/2008.
- 7. Consent to Operate for Pellet Plant was accorded by Chhattisgarh Environment Conservation Board vide 4616/TS/CECB/2009 (Water) & 4618/TS/CECB/2009 (Air) dated 15.09.2009 and Renewal of CTO granted vide 6522/TS/CECB/2017 (Water) & 6524/TS/CECB/2017 (Air) dated 15.03.2017 -validity of CTO is up to 30.09.2019. Further, Consent to Operate was renewed vide Lr. No8338 /TS/CECB/2019 dated 27/12 /2019 and consent is valid up to 30/09/2022.

8. The Production Capacity after Enhancement, Upgradation and Expansion as per the revised proposal:

S. no.	Project Details	Existing Capacity (TPA)	Capacity Enhancement / Upgradation/Proposed Capacity (TPA)	Total (TPA)	
A	Enhancement of Pi	oduction cap	acity	Januar Herman	
1	Iron Ore Pellet Plant	6,00,000	2,00,000 (Capacity Enhancement)	8,00,000	
В	Upgradation				
2	Iron Ore Grinding Unit	7,00,000			
	To Iron Ore Grinding		10,00,000 (Upgradation)	10,00,000	



S. no.	Project Details	Existing Capacity (TPA)	Capacity Enhancement / Upgradation/Proposed Capacity (TPA)	Total (TPA)
	& Beneficiation Plant		(1111)	
C	Expansion			
3	Iron Ore Pellet Plant		12,00,000	12,00,000
4	Coal Gasifiers Plant (20 Nos)		54092 Nm³/Hr	54092
5	Iron Ore Grinding & Beneficiation Plant		20,00,000	Nm ³ /Hr 20,00,000
5	Ductile pipe with Induction furnace	-	4,00,000 (4x15 Ton)	4,00,000

- 9. The total land in possession of SEML is 204.452 ha. Out of total land 142.645 ha is government land and 61.807 ha is private land owned by SEML. No forestland is involved. No River passes through the project area. It has been reported that no water body exist around the project and modification/diversion in the existing natural drainage pattern at any stage has not been proposed.
- 10. The topography of the area is flat and reported to lies between 21°21'39.80" North to 21°21'14.61" North Latitude, and 81°40'58.13"East to81°40'58.80"East Longitude in Survey of India topo sheet No. 64G/11, 64G/15 at an elevation of 282 m AMSL. The ground water table reported to ranges between 3.8 to 7.2m bgl below the land surface during the post-monsoon season and 10.5 to 5.2m bgl below the land surface during the pre-monsoon season.
- 11. No national park/wildlife sanctuary/biosphere reserve/tiger reserve/elephant reserve etc. are reported to be located in the study area of the project. Fauna reported in the study area of *Mandharis Pavocristatus* i.e. Common Peafowl or Peacock. The authenticated list of flora and fauna by DFO, Raipur Division, Raipur reporting Peacock schedule-I fauna in the study area is provided by PP in EIA report. PP has submitted the conservation plan approved vide letter dated 29/05/2020 by PCCF &Wildlife Warden.

12. The details of the raw material requirement are given as below:

Sl. No.	Unit Name	Name	Source	Road Distance	Qty (TPD)	Rail	Road	No pf trucks per day
1	Iron Ore Beneficiation Plant	Iron Ore Fines	E- auction/Captive Iron Ore Mines/Private miners at Odisha	105 KM	10,000.00	8000	2,000.00	50

1/2

SI. No.	Unit Name	Name	Source	Road Distance	Qty (TPD)	Rail	Road	No pf trucks per day
2		Iron Ore Concentrate	Local Market	12 KM	1400.00		1400.00	35
3	Iron Ore	Bentonite/Lime	M.P & Rajasthan		100.00		100.00	3
4	Pellet Plant	Coal	E-Auction/ Market/ SECL's Dipika Gewra Mines	302 KM	80.00	64	16.00	1
5	Coal for Gasifiers (Alternative Fuel for Pellet Plant)	Coal	E-Auction/ Market/ SECL's Dipika Gewra Mines	302 KM	945.00	756	189.00	5
6	Ductile Iron	Pig Iron	Local Market/ SAIL	55 KM	1080.29		1080.29	28
7	Pipe with	Scrap steel	Local Market	12 Km	135.85	Access of the second	135.85	4
8	Induction	Cement	Local Market	12 Km	118.89		118.89	3
9	Furnace	Core Sand	Local Market	12 Km	57.07		57.07	2
10		Cement Sand	Local Market	12 Km	33.88		33.88	1
Tota	l No of trucks	required						132

13. Impact on Vehicular Traffic Load due to proposed expansion

Traffic load (Baseline)

: 31050 PCU/day

Total Traffic load during operation of existing and proposed expansion: 31187 PCU/day Traffic survey data indicate that the existing road connecting to project site is catering to average density of traffic and that expected incremental increase in road traffic due to proposed expansion project. The incremental traffic due to expansion project would not exceed 3 trucks per day and would no significant changes on the traffic load situation at project site road. Total % of the load on the road due to the proposed expansion will be only 1.3%. Hence there will be very low impact on the traffic load due to the proposed expansion project.

- 14. The water requirement of the project is estimated as 7283m³ /day, out of which 7203m³/day will be fresh water requirement. The permission for drawl of groundwater is obtained from CGWA vide Lr. No. CGWA/NOC/IND/ORIG/2019/4739 dated 26th February 2019 for 7300 m³/day. The company has an agreement for supply of 45,600 KL/day water with Chhattisgarh Ispat Bhoomi Limited for its industrial use for post expansion requirement vide agreement dated 3rd July 2019.
- 15. The power requirement of the project will be 64.29.MW which will be sourced from the CSPDCL.

16. Baseline Environmental Studies

Period	February to May 2018
	$PM_{2.5} = 24.8 \text{ to } 46.7 \mu\text{g/m}^3$ $PM_{10} = 41.6 \mu\text{g/m}^3 \text{ to } 90.8 \mu\text{g/m}^3$
locations	Pivii0- 41.0 μg/iii το 30.8 μg/iii

Environmental Clearance for the project titled "Enhancement of Production capacity of existing Pellet Plant from 0.6 MTPA to 0.8 MTPA, upgradation of Existing 0.7 MTPA Iron Ore Grinding Unit to 1.0 MTPA Iron Ore Grinding and Beneficiation Plant, expansion by Adding: (i) Iron Ore Pellet Plant - 12,00,000 TPA (ii) 20 Nos Coal Gasifier - 54092 Nm3 Hr (iii) Iron Ore Grinding & Beneficiation Plant - 20,00,000 TPA (iv). Ductile Iron Pipes with Induction Furnace - 4,00,000 TPA by M s. Sarda Energy and Minerals Limited located at Phase1 of Siltara Industrial Growth Center, Village-Mandhar, Tehsil — Dhursiwa, District Raipur, Chhattisgarh".



	$SO_2 = 11.3 \text{ to } 38.1 \mu\text{g/m}^3$
A A O 1 11:	$NOx = 19.2 \text{ to } 44.7 \mu \text{g/m}^3$
AAQ modelling	$PM_{10} = 3.19 \mu g/m^3$
	$SO_2 = 8.53 \mu g/m^3$
C .	$NOx = 4.84 \mu g/m^3$
Ground water quality at	pH: 7.1 to 7.7, Total Hardness: 210 to 420
eight locations	Chlorides: 42.5 to 187.8 mg/l, Fluoride: 0.3 to 0.7 mg/l Heavy metals are within the limit
Surface water quality at	pH: 7.1 to 7.9; DO: 5.4 to 6.4 mg/l and BOD: 1.0 to 2.0
six locations	mg/l and COD from<4 to 8.9 mg/l
Noise levels	39.8 to 60.8 dBA for daytime and 38.2 to 48.7dBA for nighttime.

17. The Solid wastes generation from existing, expansion proposals along with its utilization is given as below:

Sl. No		Waste Type	Quantity (TPA)	Mode of Disposal/Utilization
1	Iron Ore Pellet Plant (Enhancement)	ESP/Bag filter Dust	19,200	Recycle as a raw material for respective plant
2	Coal Gasifiers Plant (Underway)	Ash (as Cinder)	48,900	Will be crushed with slag crushe and utilized in Fly ash brick blocks and tiles manufacturin plant and also sold in the market
3	1 0	Tar	2,600	Will be Sold to the market t Authorized Vendors
4	Iron Ore Grinding & Beneficiation Plant (Upgradation)	Tailing	3,00,000	Will be used for making brick Blocks, Tiles, Pavers, etc and sole to Cement Plant.
Prop	osed Project			to Cement Plant.
5	Iron Ore Beneficiation Plant	Tailing	600000	Will be used for making bricks Blocks, Tiles, Pavers, etc and sold to Cement Plant.
6	Iron Ore Pellet Plant	ESP/Bag filter Dust	28800	Recycle as a raw material for respective plant
7	Coal Gasifiers Plant	Ash (as Cinder)	97,800	Will be crushed with slag crusher and utilized in Fly ash bricks, blocks and tiles manufacturing plant and also sold in the market.
8		Tar	5,200	Will be Sold to the market to Authorized Vendors
9	Ductile Iron Pipe with Induction	Furnace Recycled scrap	16275	Will be recycled in back in process
	Furnace	Convertor Slag	3084	Will be utilized for Road making and filling of low lying areas.
11		IF Slag	1782	Will be Crushed With slag Crusher

Environmental Clearance for the project titled "Enhancement of Production capacity of existing Pellet Plant from 0.6 MTPA to 0.8 MTPA, upgradation of Existing 0.7 MTPA Iron Ore Grinding Unit to 1.0 MTPA Iron Ore Grinding and Beneficiation Plant, expansion by Adding: (i) Iron Ore Pellet Plant - 12,00,000 TPA (ii) 20 Nos Coal Gasifier - 54092 Nm3 Hr (iii) Iron Ore Grinding & Beneficiation Plant - 20,00,000 TPA (iv). Ductile Iron Pipes with Induction Furnace - 4,00,000 TPA by M/s. Sarda Energy and Minerals Limited located at Phase1 of Siltara Industrial Growth Center, Village-Mandhar, Tehsil - Dharsiwa, District Raipur, Chhattisgarh".

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Sl. No	Plant	Waste Type	Quantity (TPA)	Mode of Disposal/Utilization
				for recovery of metal and nonmetallic slag will be utilized in Fly ash bricks,
12		Waste	26861	Blocks and Tiles Manufacturing Plant and also sold in local market
13		Recycled material	735	Will be recycled in back in process

- 18. The Public hearing of the project was held on 10th January 2019 at Kundrapara, Gram Panchayat at Mandhar, Raipur under the chairmanship of Additional District Magistrate for the proposed expansion project. The issues raised during public hearing are employment, water facilities in nearby villages, construction of community hall, toilet at Government school and training camp for youths. An amount of Rs. 915 Lakhs has been earmarked for public hearing issues. The permanent employment is reported for 1165 people.
- 19. The capital cost of the project is Rs. 818.66 Cr and the capital cost for environmental protection measures is estimated as Rs. 29.64 Cr. The annual recurring cost towards the environmental protection measures is proposed as Rs. 5.50 Cr/annum.

20. The details of capital cost for environmental protection measures and annual recurring cost towards the environmental protection measures is as follows:

Particulars	Capital Cost (INR Lac)	Recurring Cost (INR Lac)
Air pollution Control System	2007	401.30
Wastewater Treatment System	300	45.00
Solid Waste Management	200	40.00
Green Belt Development	158	31.58
Environment Monitoring	100	30.00
Rain water harvesting project	200	2.00
Total	2964	549.88

- 21. Greenbelt will be developed in 81 ha which is about 40 % of the total area. Green belt will be developed as per CPCB/MoEF&CC, New Delhi guidelines. SEML will take-up massive green belt development by planting about 2500 trees per ha developing extensive green belt. The total Plantation done is 97250 No of Saplings i.e. an area of around 64.83 ha with plantation density of about 1500 trees per ha. SEML has planned to plant another 1,05,250 Nos of Saplings including 64825 nos in the existing developed greenbelt area of 64.83 ha as gap plantation to increase the plantation density from 1500 Nos of Saplings /ha to 2500 Nos of Saplings /ha.
- 22. The proponent has mentioned that there is no court case or violation under EIA Notification to the project or related activity.
- 23. 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].

Environmental Clearance for the project titled "Enhancement of Production capacity of existing Pellet Plant from 0.6 MTPA to 0.8 MTPA, upgradation of Existing 0.7 MTPA Iron Ore Grinding Unit to 1.0 MTPA Iron Ore Grinding and Beneficiation Plant, expansion by Adding: (i) Iron Ore Pellet Plant - 12,00,000 TPA (ii) 20 Nos Coal Gasifier - 5-1092 Nm3 Hr (iii) Iron Ore Grinding & Beneficiation Plant - 20,00,000 TPA (iv). Ductile Iron Pipes with Induction Furnace - 4,00,000 TPA by Ms. Sarda Energy and Minerals Limited located at Phasel of Siltara Industrial Growth Center, Village Mandhar, Tehsil — Dharsiwa, District Raipur, Chhattisgarh".

Certified compliance report from Regional Office

24. The Status of compliance of earlier EC was obtained from Regional Office, Nagpur vide Lr. No. EC-295/RON/2017-NGP/3778, dated 2nd June 2018. There are no noncompliances reported by Regional officer. The closure report was obtained from Regional Office, Nagpur vide Lr. No. EC-295/RON/2017-NGP/5095, dated 10th July 2019.

Observations of the Committee

25. The Committee observed the following:

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.

Recommendations of the Committee

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

Decision of MoEF&CC

27. The 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 grant Environment Clearance for instant proposal under the provisions of EIA Notification, 2006 subject to the following specific conditions and general conditions as per the Ministry's Office Memorandum No. 22-34/2018-III dated 9/8/2018 pertaining to pellet plants, induction furnace and rolling mills based on project specific requirements:

A. Specific conditions

- 40% green belt shall be developed. 50 m wide green belt shall be developed between plant and the village on NE Side of the plant boundary. Plantation shall be completed in 2 years. ii.
- Particulate matter emission level from stacks shall not exceed 30 mg/Nm³.
- Coal gasifier shall be closed circuit type and phenolic water tar sludge generated at iii. PGP shall be treated/used within the plant premises. iv.
- Rolling mill waste water shall be treated in a suitably designed ETP that consists of oil separator, sedimentation thickener and sludge filter.
- PP shall use PTFE Coated bags in all bag houses. V.
- IOBP tailings shall be dewatered and disposed dry. Tailing pond is not permitted. vi.
- Zinc dust shall be monitored in AAQ at plant site twice a month. VII.



- viii. Bitumen coating section shall be well ventilated to reduce exposure to carcinogenic bitumen fumes.
- ix. Plant roads shall be paved and industrial vacuum cleaners shall be used to clean the roads regularly to reduce fugitive emission.

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

 The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. 277 (E) dated 31st March 2012 (applicable to pellet plants) as amended from time to time and 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.

The project proponent shall monitor regularly ground water quality at least twice a ii. 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.

Adhere to 'Zero Liquid Discharge'. iii.

- Sewage Treatment Plant shall be provided for treatment of domestic wastewater to iv. meet the prescribed standards.
- Garland drains and collection pits shall be provided for each stock pile to arrest the V. run-off in the event of heavy rains and to check the water pollution due to surface run off.

Noise monitoring and prevention IV.

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**

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

- 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.
- Oily scum and metallic sludge recovered from rolling mills ETP shall be mixed, ii. dried, and briquetted and reused in melting Furnaces. iii.
- Kitchen waste shall be composted or converted to biogas for further use.

VII. Green Belt

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

- Emergency preparedness plan based on the Hazard identification and Risk i. Assessment (HIRA) and Disaster Management Plan shall be implemented.
- The project proponent shall carry out heat stress analysis for the workmen who work ii. in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
- Occupational health surveillance of the workers shall be done on a regular basis and iii. records maintained.

IX. Corporate Environment Responsibility

- 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

Environmental Clearance for the project titled "Enhancement of Production capacity of existing Pellet Plant from 0.6 MTPA to 0.8 MTPA, upgradation of Existing Environmental Clearance for the project titled "Enhancement of Production capacity of existing Petlet Plant from 0.6 MTPA to 0.8 MTPA, upgradation of Existing 0.7 MTPA Iron Ore Grinding Unit to 1.0 MTPA Iron Ore Grinding and Beneficiation Plant, expansion by Adding: (i) Iron Ore Pellet Plant - 12,00,000 TPA (ii) 20 Nos Coal Gasifier - 5-4092 Nm3 'Hr (iii) Iron Ore Grinding & Beneficiation Plant - 20,00,000 TPA (iv). Ductile Iron Pipes with Induction Furnace - 4,00,000 TPA by M's. Sarda Energy and Minerals Limited located at Phasel of Siltara Industrial Growth Center, Village-Mandhar, Tehsil - Dharsiwa, District Raipur, the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.

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

X. Miscellaneous

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM₁₀, SO₂, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- v. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- vi. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vii. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- viii. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- ix. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- x. 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.

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

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

- The Regional Office of this Ministry shall monitor compliance of the stipulated xiii. 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

This issues with the approval of the Competent Authority.

(A.K. Agrawal)

Copy to:-

- 1. Secretary, Department of Environment, Government of Chhattisgarh Secretariat Raipur.
- 2. Deputy Director General (C), Ministry of Environment, Forest and Climate Change, Regional Office (WCZ), Ground Floor, East Wing, New Secretariat Building, Civil Lines,
- 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.
- MOEF&CC Website.

(A.K. Agrawaf Director