

F. No. J-11011/606/2007-IA. II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

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Dated: 13th February, 2020

To

Shri. Sudhansu Pati,
Director,
M/s. Shri Mahavir Ferro Alloys Private Limited,
Kalunga Industrial Estate, Kalunga,
District Sundargarh,
Odisha – 770031.
Tel: No. 0661-7119111; Email: shashibhusan45@gmail.com

Subject: Proposed Expansion of Pellet Plant with Beneficiation (1800 TPD to 4800 TPD), DRI Plant (300 TPD to 1000 TPD), SMS Plant (0.1 MTPA to 0.3 MTPA), Captive Power Plant (12 MW to 38 MW) and Rolling Mill (0.25 MTPA) of **M/s Shri Mahavir Ferro Alloys Pvt. Ltd.** located at Jiabahal, Kalunga Industrial Estate, Kalunga, Dist- Sundargarh, Odisha - **Environment Clearance – regarding.**

Sir,

1. This refers to the online application of M/s Shri Mahavir Ferro Alloys Private Limited made vide proposal no. IA/OR/IND/5857/2007 dated 27/11/2019 along with copy of EIA/EMP report and Form – 2 seeking Environmental Clearance (EC) under the provisions of 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 14th meeting of the Reconstituted Expert Appraisal Committee meeting held during 23-24th December, 2019. The EAC proceedings of the proposal is given as below:

Details submitted by the project proponent

3. The proposed expansion of M/s Shri Mahavir Ferro Alloys Pvt. Ltd located in Kalunga Industrial Estate, Village: Jiabahal, Tehsil: Lathikata, District: Sundargarh, State: Odisha was initially received in the Ministry on 3/11/2017 for obtaining Terms of Reference (ToR) as per EIA Notification, 2006. The project was appraised by the Expert Appraisal Committee (Industry) [EAC(I)] during its 28th meeting held on 12-14th March 2018 and prescribed ToRs to the project for undertaking detailed EIA study for obtaining environmental clearance. Accordingly, the Ministry of Environment, Forest and Climate Change had prescribed ToRs to the project on 28/03/2018 vide Lr. No. J-11011/606/2007-IA.II(I).

Environmental Clearance for the project titled “Proposed Expansion of Pellet Plant with Beneficiation (1800 TPD to 4800 TPD), DRI Plant (300 TPD to 1000 TPD), SMS Plant (0.1 MTPA to 0.3 MTPA), Captive Power Plant (12 MW to 38 MW) and Rolling Mill (0.25 MTPA) of M/s Shri Mahavir Ferro Alloys Pvt. Ltd. located at Jiabahal, Kalunga Industrial Estate, Kalunga, Dist- Sundargarh, Odisha”.

4. Based on the ToRs prescribed to the project, the project proponent submitted an application for environmental clearance to the Ministry online on 27/11/2019 vide Online Application No. IA/OR/IND/5857/2007.
5. The project of M/s Shri Mahavir Ferro Alloys Pvt. Ltd located in Kalunga Industrial Estate, Village: Jiabahal, Tehsil: Lathikata, District: Sundargarh, State: Odisha is for setting up of a new DRI Plant (300 TPD to 1000 TPD), SMS Plant (0.1 MTPA to 0.3 MTPA), Captive Power Plant (1x12 MW to 38 MW), Rolling Mill (0.25 MTPA), Pellet Plant with Beneficiation (1800 TPD to 4800 TPD). The existing project was accorded environmental clearance vide Lr. no. F.No. J-11011/606/2007-IA II(I) dated 29th January 2008.
6. The certified compliance report for the existing unit was obtained from Regional office, Bhubaneswar vide letter No. 101-330/07/EPE dated 26/11/2019 wherein non-compliances such as third-party environmental monitoring, establishment of ETP, green belt development, non-submission of six-monthly compliance report and environmental statement have been reported. Subsequently, Project proponent has submitted action taken report for observed non-compliances on 4/12/2019 which was examined and the report was furnished by the Regional Office on 17/12/2019 wherein it is stated that corrective action has been taken by the project proponent to comply to with the observed non-compliances.
7. The existing and proposed capacity various units are given as below.

Sl. No.	Unit/Plant	Existing Capacity	Additional Capacity Proposed	Final Capacity after Expansion
1	Coal Washery	100 TPH	---	100 TPH
2	Pellet Plant with Beneficiation	0.60 MTPA (1800 TPD)	1.00 MTPA (3000 TPD)	1.6 MTPA (4800 TPD)
3	DRI Plant	0.10 MTPA (3x100 TPD)	0.23 MTPA (2x350 TPD)	0.33 MTPA (1000 TPD)
4	SMS Plant	0.1 MTPA	0.2 MTPA	0.3 MTPA
5	Rolling Mill	--	0.25 MTPA	0.25 MTPA
6	Captive Power Plant	12 MW (AFBC- 8 MW, WHRB- 4 MW)	26 MW (AFBC - 12 MW, WHRB - 2x7 MW - 14 MW)	38 MW

8. The total land required for the project is 44.66 ha, which is entirely of Industrial land, No /forestland involved. The entire land has been acquired for the project. The Sankha River is at a distance of 4.2km in the West direction from the project site. It has been reported that no water body exist around the project site and modification/diversion in the existing natural drainage pattern at any stage has not been proposed.

9. The topography of the area is flat (flat/undulated) and reported to lie between 22° 18' 19" to 22° 19' 00"N Latitude and 84° 45' 45" to 84° 46' 27" E Longitude in Survey of India topo sheet No.73B/11, 12, 15 & 16 at an elevation of 200 m AMSL. The ground water table reported to range between 4-8 mbgl below the land surface during the post-monsoon season and 8-10 mbgl below the land surface during the pre-monsoon season.
10. No national park/wildlife sanctuary/biosphere reserve/tiger reserve/elephant reserve etc. are reported to be located in the core and buffer zone of the project. The area also does not report to be a corridor for Schedule-I fauna.
11. The raw materials requirement for the proposed expansion is furnished as below.

Raw Materials	Quantity	Source
DRI Plant (700 TPD)		
Coal	315000 TPA	MCL, SECL and Visakhapatnam Port
Pellets	335000 TPA	In house Production
Dolomite	12600 TPA	RA Jalan Mines
SMS Plant(0.2 MTPA)		
Sponge Iron	205000 TPA	In house Production
Pig Iron	17400 TPA	Tata BSL Jajpur
Ferro Alloys & Non-Ferro Alloys	2750 TPA	Tata BSL Jajpur
MS Scrap	10100 TPA	In house Production
Rolling Mill (0.25 MTPA)		
Steel Billets	255000 TPA	In house Production
Captive Power Plant (26 MW = AFBC-12 + WHRB- 14 MW)		
Dolomite	60000 TPA	In house Production
Coal	75000 TPA	MCL, SECL and Visakhapatnam Port
Pellet Plant (3000 TPD)		
Iron Ore Fines(Dry)	1292308 TPA	OMC Mines
Bentonite	15231 TPA	Chhattisgarh
Dolomite/Limestone	15231 TPA	RA Jalan Mines
Coke	34615 TPA	IOCL

12. The targeted production capacity of the Existing Project is 0.1 MTPA and Proposed Project is 0.2 MTPA, Total production capacity for Existing & Expansion Project is 0.3 million TPA. The ore for the plant would be procured from (linkages/Mining). The ore transportation will be done through Rail/Road.

13. The water requirement of the proposed project is estimated as 170 m³/hr, which will be met from Sankh River. The permission for drawl of surface water is obtained from Department Water Resource, Govt. of Odisha. vide Lr. No. 10542 date 17/04/2010.
14. The power requirement for Existing & Expansion project is estimated as 40.5 MW, out of which 38 MW will be obtained from the Captive Power Plant and balance will be purchased from State Electricity Board.
15. Baseline Environmental Studies were conducted during Winter season i.e. from 1st December 2017 to 28th February 2018. Ambient air quality monitoring has been carried out at 8 locations during December 2017 to 28th February 2018 the data submitted indicated: PM₁₀ (47.5 µg/m³ to 83.8 µg/m³), PM_{2.5}(24to 46.4 µg/m³), SO₂(4.1 to 13.1 µg/m³) and NO_x (9.2to 18.2 µg/m³). The results of the modeling study indicate that the maximum increase of GLC for the proposed project is 2.17 µg/m³ with respect to the PM₁₀, 0.54 µg/m³ with respect to the SO₂, 0.12 µg/m³ with respect to the NO_x.
16. Ground water quality has been monitored in 08 locations in the study area and analyzed pH:7.1 to 7.5, Total Hardness: 40 to 112mg/l, Chlorides:9to18.99 mg/l, Fluoride: 0.06 to 0.1mg/l. Heavy metals are within the limits. Surface water samples were analyzed from 08 locations. pH: 7.08 to 7.9; DO:5.4 to 7.7mg/l and BOD: 2.0 to 10.4 mg/l.
17. Noise levels are in the range of 42.9 to 75.5 dBA for daytime and 32.3 to 68.2 dBA for nighttime.
18. The details of solid waste generation and its utilization is given as below.

Sl. No.	Source	Total (TPY)	Mode of Disposal/Utilization
1	Waste Oil & Lubricant	3.5KL	Shall be disposed to authorised agency
2	DM plant resin	0.5KL	Shall be disposed in properly constructed pit as per CPCB norms
3	Refractory waste	1	Into disposal site
4	Dolochar	60,000	AFBC boiler
5	Solid Waste (Beneficiation Tailing)	75,000	Cement Plant /Into disposal site (Abandoned Quarry)
6	ESP & In plant Dust	7000	Into disposal site (Abandoned Quarry)
7	Kiln Accretion	18000	Village road construction & low land filling, disposal
8	IF & LRF Slag	20550	Village road construction & low land filling, disposal
9	Fly Ash	64500	Cement Plant – 30000 TPY Local Fly Bricks Manufacturing Units-34500 TPY.

19. It has been reported that the Consent to Establish/Consent to Operate from the Odisha State Pollution Control Board / Pollution Control Committee obtained vide Lr. No 2864/IND-I-CON-3294 dated 23-03-2019 and consent is valid up to 31-03-2020.

20. The Public hearing of the project was held on 26th September 2019 at IDC Play Ground, Kalunga, P.S.- Brahmanitarang, Dist. Sundargarh, Odisha. under the chairmanship of Mr. Nikhil Pavan Kalyan (Collector & District Magistrate Sundargarh) for setting up of DRI Plant (300 TPD to 1000 TPD), SMS Plant (0.1 MTPA to 0.3 MTPA), Captive Power Plant (1x12 MW to 38 MW), Rolling Mill (0.25 MTPA), Pellet Plant with Beneficiation (1800 TPD to 4800 TPD). The issues raised during public hearing are, Economic Development, Infrastructure Development, Health Care Facility, Sports, Recreation and Community Centre, Drinking Water Facility, Environment Protection Control, Education facility which have been addressed in the EIA report.

21. The capital cost of the project is INR 362 Crores and the capital cost for environmental protection measures is proposed as INR1438 Lakhs. The annual recurring cost towards the environmental protection measures is proposed as INR 319 Lakhs. The employment generation from the proposed project / expansion is 950.

22. An amount of INR 2.97 crores is earmarked towards Corporate Environment Responsibility (CER) related activities in a time frame 4 years. The details of the activities are given as below:

Sl. No.	Issues raised by public and necessities in Peripheral Areas	1 st Year	2 nd Year	3 rd Year	4 th Year	Total
1	<u>Drinking Water Facility (All Periphery Villages):</u> Provide bore wells and Water storage tanks in the nearby villages for drinking water facility. Provide drinking water facility, at IDC Kalunga	1,500,000	2,000,000	0	0	3,500,000
2	<u>Environment Protection Control (All Periphery Villages):</u> Environmental protection Plantation with gap filling in subsequent years for better survival, water sprinkling should be carried out over the roads by mobile water tankers to suppress the fugitive dust emission.	2,000,000	4,000,000	0	0	6,000,000
3	<u>Health Care Facility (All Periphery Villages):</u>	800,000	900,000	1,600,000	0	3,300,000

Environmental Clearance for the project titled "Proposed Expansion of Pellet Plant with Beneficiation (1800 TPD to 4800 TPD), DRI Plant (300 TPD to 1000 TPD), SMS Plant (0.1 MTPA to 0.3 MTPA), Captive Power Plant (12 MW to 38 MW) and Rolling Mill (0.25 MTPA) of M/s Shri Mahavir Ferro Alloys Pvt. Ltd. located at Jiabahal, Kalunga Industrial Estate, Kalunga, Dist- Sundargarh, Odisha".

Sl. No.	Issues raised by public and necessities in Peripheral Areas	1 st Year	2 nd Year	3 rd Year	4 th Year	Total
	Provision of air conditioned ambulance facility for shifting of the patients to Cuttack and Bhubaneswar as ambulance facility provided by the government (108) is available only to Rourkela Government Hospital. Free Health camp, free Cataract operation camp and ambulance facility. Provision of a vehicle for shifting of animals to nearby Veterinary Hospital in case of emergency.					
4	<u>Economic Development (All Periphery Villages):</u> Fund allocation to SHG group, Domestic animal like Cows, Goats for income supplementation.	500,000	500,000	1,000,000	1,500,000	3,500,000
5	<u>Infrastructure Development (All Periphery Villages):</u> Company would undertake welfare schemes in the locality, development of road infrastructure, renovation of school building, Maintenance of the road, street light facility	0	0	2,000,000	3,600,000	5,600,000
6	<u>Sports, Recreation and Community Centre (All Periphery Villages):</u> They requested to promote sports activity in the locality, to promote the talented tribal players,	500,000	500,000	1,600,000	1,600,000	4,200,000

Environmental Clearance for the project titled "Proposed Expansion of Pellet Plant with Beneficiation (1800 TPD to 4800 TPD), DRI Plant (300 TPD to 1000 TPD), SMS Plant (0.1 MTPA to 0.3 MTPA), Captive Power Plant (12 MW to 38 MW) and Rolling Mill (0.25 MTPA) of M/s Shri Mahavir Ferro Alloys Pvt. Ltd. located at Jiabahal, Kalunga Industrial Estate, Kalunga, Dist- Sundargarh, Odisha".

Sl. No.	Issues raised by public and necessities in Peripheral Areas	1 st Year	2 nd Year	3 rd Year	4 th Year	Total
	playgrounds for children, Construction for a community center in the locality.					
7	<u>Education facility (All Periphery Villages):</u> Skill Development programme, Promotion of talented students by providing scholarship, Aids to school students of nearby villages.	300,000	300,000	1,500,000	1,500,000	3,600,000
	Total	5,600,000	8,200,000	7,700,000	8,200,000	29,700,000

23. Greenbelt will be developed in 37.60 Acres which is about 34% of the total acquired area. Total area is 110.373 Acres (50.080 Acres in the existing plant and 60.293 Acres in expansion plant). Hence total green belt area will be 37.60 Acres, out of 37.60 Acres, green belt is already developed in 18 Acres and rest 19.6 Acres will be covered in coming 3 years i.e. during 2020-2022. Hence total trees (1500 trees/hectares) will be planted in coming 3 years.

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

25. Name of the Consultant: - M/s Centre for Envotech & Management Consultancy Pvt. Ltd. (Sl. No. 24, List of QCI Accredited Consultant Organizations (Alphabetically) Rev. 82, Dec. 05, 2019)

Recommendations of the Committee

26. In view of the foregoing and after detailed deliberations, the committee recommended the project for grant of Environmental Clearance under the provisions of EIA Notification, 2006 subject to the following specific conditions in addition to the applicable general conditions as per the Ministry's Office Memorandum No. 22-34/2018-III dated 9/8/2018 pertaining to Integrated Steel Plants.

- i. Green belt shall be developed in 40 acres of land having tree density of 1000 trees per acres in a time frame of two years.
- ii. No ground water abstraction is permitted.
- iii. No slime pond is allowed.
- iv. Provision for industrial vacuum cleaner to control the fugitive emissions shall be made.
- v. Particulate emissions from the stacks shall be less than 30 mg/Nm³ with bag house as APCD. Emission from ESP shall be less than 50 mg/Nm³.
- vi. Scheme to harvest rain water more than the 100 % of annual water

consumption shall be implemented.

- vii. An amount of INR 2.97 Crores earmarked towards CER related activities shall be implemented in a time frame of four years.

Decision of MoEF&CC

27. The Ministry of Environment, Forest and Climate Change (MoEF&CC) has considered the application based on the recommendations of the Expert Appraisal Committee (Industry-I) and hereby decided to accord environmental clearance for the project cited above as per the provisions of the EIA Notification, 2006 subject to the following specific and applicable general conditions as per the Ministry's Office Memorandum No. 22-34/2018-III dated 9/8/2018 pertaining to Integrated steel plants.

A. Specific Conditions

- i. Green belt shall be developed in 40 acres of land having tree density of 1000 trees per acres in a time frame of two years.
- ii. No ground water abstraction is permitted.
- iii. No slime pond is allowed.
- iv. Provision for industrial vacuum cleaner to control the fugitive emissions shall be made.
- v. Particulate emissions from the stacks shall be less than 30 mg/Nm³ with bag house as APCD. Emission from ESP shall be less than 50 mg/Nm³.
- vi. Scheme to harvest rain water more than the 100 % of annual water consumption shall be implemented.
- vii. An amount of INR 2.97 Crores earmarked towards CER related activities shall be implemented in a time frame of four years.

B. General conditions

I. Statutory compliance:

- i. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/Committee.
- ii. The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.
- iii. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time

II. Air quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31st March

2012(Integrated iron & Steel); G.S.R 414 (E) dated 30th May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants)as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs 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 labs recognised under Environment (Protection) Act, 1986.
- iii. The project proponent shall install system to 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 NO_x in reference to SO₂ and NO_x 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.
- iv. Sampling facility at process stacks shall be provided as per CPCB guidelines for manual monitoring of emissions.
- v. The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality /fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
- vi. 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.
- vii. The project proponent shall provide leakage detection and mechanised bag cleaning facilities for better maintenance of bags.
- viii. Pollution control system in the steel plant shall be provided as per the CREP Guidelines of CPCB.
- ix. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.
- x. Recycle and reuse iron ore fines, coal fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/ agglomeration.
- xi. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.
- xii. Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.

- xiii. Design the ventilation system for adequate air changes as per ACGIH document for all tunnels, motor houses, Oil Cellars.

III. Water quality monitoring and preservation

- i. The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31st March 2012 (Integrated iron & Steel); G.S.R 414 (E) dated 30th May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs 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. The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.
- iv. The project proponent shall provide the ETP to meet the standards prescribed in G.S.R 277 (E) dated 31st March 2012 (Integrated iron & Steel); G.S.R 414 (E) dated 30th May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time.
- v. Adhere to 'Zero Liquid Discharge'.
- vi. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
- vii. 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.
- viii. Tyre washing facilities shall be provided at the entrance of the plant gates
- ix. The project proponent shall practice rainwater harvesting to maximum possible extent.
- x. Water meters shall be provided at the inlet to all unit processes in the steel plants.
- xi. The project proponent shall make efforts to minimise water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.

IV. Noise monitoring and prevention

- i. Noise level survey shall be carried as per the prescribed guidelines 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

V. Energy Conservation measures

- i. Use hot charging of slabs and billets/blooms as far as possible.
- ii. Waste heat recovery systems shall be provided in all units where the flue gas or process gas exceeds 300°C.
- 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.

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. Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil.
- iv. The waste oil, grease and other hazardous waste like acidic sludge from pickling, galvanising, chrome plating mills etc. shall be disposed of as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.
- v. 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.

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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. 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, crèche 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 as per the Factories Act.

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 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
- 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. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
- v. Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.
- vi. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Iron and Steel plants shall be implemented.

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, NO_x (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.
- iv. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- v. 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.
- viii. 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).
- ix. 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.

- x. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xi. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xii. 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.
- xiii. 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.
- 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.
28. The project proponent shall obtain fresh environmental clearance in case of change in scope of the project if any.
29. This issues with the approval of Competent Authority.

Yours faithfully,



(A.K. Agrawal)
Director

Copy to:-

1. Secretary, Department of Forests, Government of Odisha, Secretariat, Bhubaneswar.
2. Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
3. Deputy Director General (Central), Ministry of Environment, Forest and Climate Change, Regional Office (EZ), A/3, Chandrasekharpur, Bhubaneswar – 751023.
4. Chairman, Odisha State Pollution Control Board, Parivesh Bhawan, A/118 Nilakantha Nagar, Unit-VIII, Bhubaneswar-751012.
5. Member Secretary, Central Ground Water Authority, West Block –II, Wing -3, Sector I, R.K.Puram, New Delhi – 110086.
6. District Collector, Keonjhar District, Odisha.
7. Guard File/Record File/Monitoring File.
8. MoEF&CC website.



(A.K. Agrawal)
Director