

ENVIROMENTAL CLEARANCE COMPLIANCE



1.2 MTPA IRON ORE PELLETIZATION PLANT & 1.0 MTPA BENEFICIATION PLANT (At Village: Anra, P.O. – Upara Raigoda, Keonjhar, Odisha)



Clearance Letter no. & Date

EC Identification No.: EC23A007OR189888

File No. : J-11011/192/2008 – IA-II (I)

Dated : 23rd February, 2023

“Expansion of Iron Ore Pelletization Plant from 0.6 MTPA to 1.2MTPA and 1.0 MTPA Iron Ore Beneficiation Plant.”

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Six Monthly Report on the status of the compliance of the stipulated Environmental Clearance conditions for Expansion of Iron Ore Pelletization Plant from 0.6 MTPA to 1.2 MTPA and 1.0 MTPA Iron Ore Beneficiation Plant by M/s Sree Metaliks Limited, located at village - Anra, P.O- UparaRaigada, Dist- Keonjhar, Odisha.

EC Order No. J-11011/192/2008- IA.II(I), dated 23.02.2023

A. SPECIFIC CONDITION

SL.N O.	CONDITION	COMPLIANCE																							
i	The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.	<p>Complied</p> <p>At present, 2x0.6 = 1.2 MTPA Pelletization Plant unit is under operation. 1.0 MTPA Beneficiation Plant is expected to commission by October 2023.</p> <p>(A)The project proponent has under taken various environmental protection measures and safeguards, viz.</p> <p>(i) Air Pollution Control (APC) (ii) Water Pollution Management (iii) Noise Pollution Control Measures (iv) Management of Solid Waste</p> <p>(i) AIR POLLUTION CONTROL MEASURES</p> <table border="1" data-bbox="833 1178 1515 1982"> <thead> <tr> <th>Sl. No.</th> <th>Probable Pollution source</th> <th>Mitigation measures adopted</th> </tr> </thead> <tbody> <tr> <td>a.</td> <td>Exhaust Gas of Kiln & Travelling Grate</td> <td>ESP</td> </tr> <tr> <td>b.</td> <td>Proportioning System</td> <td>Dust Extraction system with bag filter,</td> </tr> <tr> <td>c.</td> <td>Bentonite Hopper</td> <td>Dust Extraction system with bag filter,</td> </tr> <tr> <td>d.</td> <td>Ash Bunker</td> <td rowspan="2">Dust Extraction system with bag filter, Stack height - 15m</td> </tr> <tr> <td>e.</td> <td>Mixer</td> </tr> <tr> <td>f.</td> <td>Coal injection System</td> <td>Dust Extraction system with bag filter, stack height - 25m</td> </tr> <tr> <td>g.</td> <td>Raw material stock yard, Transfer Points of rotary kiln and pellet conveyor line</td> <td>Water Sprinkling system at stock yard by rain gun & for . Dust suppression at transfer points</td> </tr> </tbody> </table>	Sl. No.	Probable Pollution source	Mitigation measures adopted	a.	Exhaust Gas of Kiln & Travelling Grate	ESP	b.	Proportioning System	Dust Extraction system with bag filter,	c.	Bentonite Hopper	Dust Extraction system with bag filter,	d.	Ash Bunker	Dust Extraction system with bag filter, Stack height - 15m	e.	Mixer	f.	Coal injection System	Dust Extraction system with bag filter, stack height - 25m	g.	Raw material stock yard, Transfer Points of rotary kiln and pellet conveyor line	Water Sprinkling system at stock yard by rain gun & for . Dust suppression at transfer points
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h.	Conveying of materials	Conveying of materials through closed conveyors
i.	Plant-Roads	Paving of plant roads and use of Mobile Vacuum Cleaner & water sprinklers at regular interval.
j	Continuous Monitoring Mechanism installed. Monitoring of fugitive emission at regular intervals	(i) On-line continuous stack emission monitoring system (CEMS) on Two stacks are in operation. (ii) Continuous Ambient Air Quality Stations (AAQS) are in operation. (iii) Monitoring of fugitive emissions in the plant premises are conducted once in fortnight.

(ii) Water Pollution Control Management
Waste water Management

a.	Sanitary Waste water	Biological treatment in Sewage Treatment Plant (STP)
b.	Storm water	Storm water is taken to Storm water settlement tank through network of drains

(iii) Noise Pollution Control Measures

(a)	Noise prone equipment viz. DG set etc. are confined in separate housing	
(b)	Operation staff work from the noise shielded control rooms.	

(iv) Solid Waste Management Measures

(a)	Tailings of Beneficiation Plant	Quantity: 1, 33,296 TPA (approx.) Dewatered Cake would be stored at designated place Would be back filled in mined out area.
(b)	ESP dust of Pellet Plant	Quantity: 74,400 TPA Recycle in Pellet plant
(c)	Bottom Ash	Quantity: 12,390 TPA Used in-house land filling
(d)	Tar Residue of PGP	Sold to Authorized Units

(B) Environment related expenditure

• Capital Expenditure: **18.5Cr.**

		<p>•Operational Expenditure:1.84Cr (22-23)</p> <p>Detail of pollution control measures with photographs are attached as Annexure-1{P19-22}, 3{P30-33}, 5{P36-48}, 17{P102}, 18{P103} & 23 {P133} Environmental related expenditure is annexed as Annexure-1(A) {P-23}</p> <p>(iii) On-Site Emergency Plan has been prepared and implemented. Regular interactive sessions are being conducted for awareness of all employees and adjacent villagers. Safety officer takes regular interactive session including role of key persons of emergency command structures. Copy of on-site emergency plan annexed as Annexure-33{P160-207}</p>
<p>ii</p>	<p>The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.</p>	<p>M/s MN Dastur & Company Private Limited, Consulting Engineers have been engaged for preparation of report on GHG emission inventory as per WSA format and possible mechanism to reduce the GHG emission with following scope of services.</p> <p>i) Preparation of GHG emission inventory (as per WSA format)</p> <p>ii) Comprehensive Plan for reduction of GHG emission including:</p> <p>(a) Preparation of programme for reduction GHG emission through Carbon sequestration by trees & technology.</p> <p>(b) Survey of Green belt inside & outside of Plant.</p> <p>(c) Develop year-wise implementation Plan for emission reductions, Projects covering emissions saving, anticipated cost (Capital/Operating Expenditure) & proposed monitoring Plans with KPIs.</p> <p>Consulting Engineers had several rounds of discussion with concerned officials based on inputs provided to them. Plants and Mine visit along with concerned officials have been completed. GHG emission inventory report is expected by</p>

		<p>October / November 2023 with year-wise implementation plans for emission reduction including carbon sink/sequestration resources.</p> <p>Copy of work order issued to M/s M.N. Dastur and Company(P)Limited for above work is enclosed as Annexure-2 {P24-29}</p>
iii	PP shall strictly comply with all the observations made by IRO with respect to compliance to previous EC conditions in a time bound manner.	All the observations made by IRO with respect to previous EC compliance have been complied. Details are enclosed in Annexure-32 {P151-161}
iv	Tailings from Iron Ore beneficiation plant shall be dewatered in filter press and no slime /tailing pond shall be permitted.	<p>1.0 MTPA beneficiation Plant expected to commission by October 2023.</p> <p>The thickened slurry from concentrate thickener underflow will be dewatered in press filter. The dewatered material will be used for pellet feed. The thickened slurry from tailing thickener will be dewatered in press filter and water will be recycled in the process. The filter cake generated from the plant will be stacked at the designated place as mentioned in the layout map.</p> <p>(i) Generated tailing cake will be back-filled in mined out area of captive iron ore mines (Khandbandh). Approved progressive mine reclamation plan (for captive Iron ore mines Khanbandh by “back filling” of mined out area as approved in mining plan/scheme 2021-22 to 2025-26 (4.77 Hectare) by IBM).Is enclosed as Annexure-3{P30-33}</p> <p>There will not be any tailing pond for Beneficiation plant.</p> <p>(ii) Studies at laboratory - scale and pilot plant scale would be carried out for testing the viability of recovery of iron ore values from tailing (and low/lean grade iron ore) by Reduction Roasting Process along with LIMS (Low Intensity Magnetic Separator).</p> <p>(iii) If found viable, Reduction Roasting Process would be installed to recover iron values from tailings and lean ore.</p>
v	Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Regional Office of the	We are abiding by the said condition. Authorized third party M/s Sun Consultancy & Services Pvt Ltd has been engaged to conduct the performance test of

	MoEF&CC.	Air Pollution Control System of Pellet Plant. Workorder is enclosed as Annexure-4 {P34-35} Report shall be submitted to the Regional Office of MoEF&CC
vi	Dust emission from stacks shall be less than 30 mg/Nm ³	Dust emissions from stacks are under 30mg/Nm ³ . Monitoring report is attached as Annexure-30 {P148-149} .
vii	Total water requirement of 569 m ³ /day shall be met from ground water. PP shall explore the possibility to shift to alternative source of water so as to reduce dependence on ground water.	Total water required for plant is 569 KLD (Make up Water). Plant has permission for 593 KLD from CGWA (498 KLD permission, vide NOC no CGWA/NOC/IND/ORIG/2021/12271 dated 24.06.2021 and 95KLD permission vide NOC no CGWA/NOC/IND/ORIG/2021/11594 dated 02.02.2021). Further, IPICOL has recommended for 6.62 CUSEC of surface water from Baitarani River which is under process at Water Resource Department. Recommendation letter of IPICOL is attached as Annexure-6 {P49} .
viii	Baitarani River, Malda River, JagdhalaNala, BamniNalla, ChamdaNala and KadalNala exist within the study area. As per the submission, PP shall implement the management plan/conservation plan to ensure that water bodies are not disturbed.	Nala Conservation and Management Plan (as approved) to ensure that, near-by water bodies are not disturbed due to 1.0MTPA Beneficiation Plant with 1.2MTPA Pellet Plant is annexed as Annexure-7 {P50-65} The recommendations of the study are under implementation: i) Construction of pond for storage of storm water (with desired retention time allowing for complete sedimentation of suspended particles) has been completed. A drainage network collects the storm water and allows sedimentation at storm water settling tank to avoid flow of turbid run off into Bamuni Nala. Photograph of storm water settlement tanks and drainage network are attached as Annexure-8{P66} . ii) Technical specification for construction of 2-meter-high embankment at outer periphery of plant boundary along Bamuni Nala has been finalised. Execution will start after Monsoon (2023) and expected to complete by march 2024 (before Monsoon of 2024).
ix	Performance test shall be conducted	We are abiding by the said condition.

	on all pollution control systems every year and report shall be submitted to Regional Office of the MoEF&CC.	Authorized third party M/s Sun Consultancy Services Pvt. Ltd. has been engaged to conduct the performance test of Air Pollution Control System. Report shall be submitted to the Regional Office of MoEF&CC
x	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.	E-waste shall be disposed of as per E-Waste (Management & Handling) Rules, 2016 and amendment thereafter. E-waste shall be given to the authorized agency M/s Greenex India Resources Pvt. Ltd, Bhubaneswar.
xi	As committed to adopt 5 villages, namely Anra, Dudhpasi, Raigoda, Bheldih and Bininda, Project Proponent shall prepare and implement a robust plan to develop them into model villages in next 10 years.	<p>We have adopted 5 villages namely Anra, Dudhpasi, Raigoda, Bheldih and Bininda. Need based assessment plan have been prepared with budgetary provision for implementation to develop them into “Swachha - Nirmal - Swabalmbi Aadarsh Gram” (Model village) in next 10 years.</p> <p>The proposed scheme may give an opportunity to concern native community to develop considerable capacity for self-development, to get control over their own development and management of natural resources for better living conditions by an integrated approach, which will include helping the people to discover their own unexplored capabilities and realise the potentials of their own underutilized resources.</p> <p>Simultaneously, it would build natives awareness about local environment and it's linkages with sustainable livelihoods.</p> <p>The scheme as prepared by SG Foundation (who had earlier carrying out experience of similar project in Banspal Block) in consultation with team Anra, was finalised with necessary modification. Implementations with measurable KPI's are in progress under super vision of Sri S.K. Raut, Asst.VP (HR), Anra. Project implementation strategy along with expenditure plan for year 2023-24 is</p>

		enclosed as Annexure- 10{P68-75} .
Xii	Three tier Green Belt shall be developed in at least 33% of the project area by end of this monsoon with native species all along the periphery of the project site of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years.	Out of the total existing plant area i.e. 120 Ac (48.58 Ha.), approximately, in 40 Ac (16.18 Ha), 33% of the project area, green belt has been developed. Project maintains the plant density of 2500 nos. of sapling per Ha. Damaged plants are replaced with new plant. Plantation with native species like Chakunda, Karanj, Neem, Mango, Radhachuda, and Krishnachuda has been done extensively. Photographs of the plantation details are attached as Annexure-12{P93-94} Layout of green belt is enclosed as Annexure-12(A){P95} Damaged plants have been replaced with new plants in 2023 Monsoon.
Xiii	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface	Greening and paving inside the Plant premises are under progress to arrest soil erosion and dust pollution from exposed soil surface. 90% paving work completed Photograph of the same is attached as Annexure-13{P96-98} . Total length of road paved till August 2023, 3.6 km (out of total road length inside plant 4 km.)
Xiv	The company shall also undertake rain water harvesting measures as per the plan submitted in the EIA/EMP report.	1. Two numbers large water harvesting ponds (to collect the run-off) has been created within Plant premises to enrich ground water. Photo of the same attached as Annexure-14{P99}. 2. Further, Roof top rain water harvesting system has been implemented. Photo of the same attached as Annexure-15{P100} .
Xv	PP shall strictly implement action plan to monitor coke/coal dust exposure in different process plants using personal and area air samplers and to compare with permissible limits as per Indian Factories Act, 1948. The coal dust to be measured at coal handling areas, should be within 2 mg/m ³ , respirable dust fraction containing less than 5% quartz as per Indian Factories Act, 1948.	Monitoring of coal dust exposure has been implemented. Fortnightly once, coal dust exposure monitoring at coal handling area are being carried out using personal & area air samplers. Analysis report of the same is attached as Annexure -16{P101} . Respirable dust fractions and free silica are well within the specified limits.

<p>xvi</p>	<p>The proposed project shall be designed as "Zero Liquid Discharge" Plant. There shall be no discharge of effluent from the plant. Sanitary waste water shall be treated in STP.</p>	<p>Zero Liquid Discharge is ensured in Pellet plant & shall be implemented in Beneficiation plant.</p> <ol style="list-style-type: none"> 1. There is no effluent discharge from Palletisation Plant. 2. In Beneficiation Plant, Thickener has been installed for waste water treatment. Overflow of the thickener is recycled back as make-up water in the process. Zero discharge would be maintained from Beneficiation Plant premises. 3. 50 KLD STP has been installed to treat waste water generated from plant canteen, factory toilets, Staff hostel, etc. The treated water is being reused for gardening and plantation. Photo of the STP is attached as Annexure-17 {P102}.
<p>xvii</p>	<p>All roads in the plant shall be paved and industrial vacuum cleaners shall be used regularly to clean roads to reduce fugitive emissions.</p>	<p>90% of the "paving" of internal road inside the plant premises has been completed.</p> <p>Wheel mounted mobile Vacuum cleaner is used for cleaning the paved roads to reduce fugitive emissions. Annexure-18{P103}.</p>
<p>xviii</p>	<p>All stockyards shall be having impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains to trap the run off material.</p>	<p>Raw material stack yards and finished product (Pellet stock Yard) are having impervious flooring. Garland drains have been provided around the stock yard. Further, water spraying by use of rain guns are being done for dust suppression. Photographs enclosed as Annexure-31{P150}.</p>
<p>xix</p>	<p>Action Plan to monitor coke/coal dust exposures in different process plants using personal and area air samplers and to compare with permissible limits as per Indian Factories Act, 1948 shall be implemented.</p>	<p>Monitoring of coal dust exposure has been implemented. Fortnightly once, coal dust exposure monitoring at coal handling area are being carried out using personal & area air samplers. Analysis report of the same is attached as Annexure -16{P101}.</p> <p>Respirable dust fractions and free silica are well within the specified limits.</p>
<p>xx</p>	<p>All the commitments made to the public during the earlier Public Hearing/Public Consultation dated 20.02.2009 shall be satisfactorily implemented. The action plan based on the social impact assessment</p>	<p>All the commitments made to the public during the Public Hearing / Public Consultation dated 20.02.2009 have been satisfactorily implemented.</p>

	study of the project shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC	The commitments made during the public hearing and its' compliance details are enclosed as Annexure-11{P76-87} .
xxi	The recommendations of the approved Site-Specific Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.	<p>i) The Site-Specific Wildlife Conservation (SSWCP) Plan with implementation schedule has been approved by the PCCF (Wildlife) & Chief Wildlife Warden. Approval letter no.1458/CWLW-FDWC-FD-0064-2022 dated 8th Feb 2023 is enclosed as Annexure-20{P121}</p> <p>ii) Necessary initiative has been taken for preparedness and implementation of mitigative measures in core zone under direct supervision of Sri Subash Swain, Advisor (Forest), SML, IFS (Retd.), Former Additional PCCF, Govt. of Odisha.</p> <p>iii) Action taken report (ATR) regarding ongoing preparedness exercise and implementation of strategies in core zone and nearby areas is enclosed as Annexure-21 {P122-131}</p> <p>iv) Demand note from DFO has been received. Accordingly, Rs.223.70 Lakhs (Rupees Two crore twenty-three lakhs seven thousand only) shall be deposited in State CAMPA Fund as 5 years implementation cost.</p>
Xxii	The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard are available at https://cpcb.nic.in/technical-guidelines-3/ . All the project proponents are hereby requested to sensitize and create awareness among people working within the	In compliance of the Plastic Waste Management Rules, 2016, Single Use Plastic (SUP) items have been banned by order of President, Anra Plant, Sree Metaliks Limited dated, 1 st March 2023. In-charge procurement & in-charge operations submit monthly compliance certificates in this regard. Banners depicting "No" to Single use Plastic & its negative impact have been put up at key locations for general awareness. Banner & Photographs are annexed at Annexure22 {P132} .

	<p>Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six-monthly compliance reports being submitted by the project proponents.</p>	
<p>xxiii</p>	<p>The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.</p>	<p>Electrostatic Precipitator has been provided with both the units of pellet plant.</p> <p>Various fugitive emission generating areas like stock houses, transfer points, junction points etc. have been provided with dust extraction system with bag filters.</p> <p>Bag filters arrangement has been made at pelletization plant, raw material storage yard, finished product storage yard etc. - Water sprinkling arrangements are effectively used to avoid dust emissions due to transportation & movement of vehicles.</p> <p>Mist water cannons have been installed and operated regularly inside the project to arrest suspended dust in the atmosphere.</p>

Sl. No.	Probable Pollution source	Mitigation measures adopted
a.	Exhaust Gas of Kiln & Travelling Grate	ESP Stack height-50m
b.	Proportioning System	Dust Extraction system with bag filter, Stack height - 18m
c.	Bentonite Hopper	Dust Extraction system with bag filter, Stack height - 23m
d.	Ash Bunker	Dust Extraction system with bag filter, Stack height - 15m
e.	Mixer	
f.	Coal injection System	Dust Extraction system with bag filter, stack height - 25m
g.	Raw material stock yard, Transfer Points of rotary kiln and pellet conveyor line	Water Sprinkling system with water gun for stock yard
h.	Dispatch of materials	Material transferred in covered conveyors and covered trucks.
i.	Plant-Roads	Paving of plant roads and use of vacuum cleaner & water sprinklers at regular interval.
j.	Continuous Monitoring Mechanism installed. Monitoring of fugitive emission at regular intervals	(i) On-line continuous stack emission monitoring system (CEMS) on Two stacks are in operation. (ii) Continuous Ambient Air Quality Station (AAQS) are in operation. (iii) Monitoring of fugitive emissions in the plant premises are conducted once in fortnight.

GENERAL CONDITION

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.	We are abiding by the said condition.
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II. Air quality monitoring and preservation

i	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 04 Nos. Continuous Ambient Air Quality Station (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 recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	<p>At present, Palletisation Plant is under operations.</p> <p>(i) 2 nos. Online Continuous Emission Monitoring Systems (CEMS) with two stacks of the Pellet Plant are in operation for online real time monitoring of PM. It is connected with online server.</p> <p>(ii) Two nos. of Continuous Ambient Air Quality Stations (CAAQS) for monitoring AAQMS parameters are in operation. One no. is installed at staff gate. (towards Anra village) and second one at south-west side of the Plant and connected with server of OSPCB. Monitoring photographs are attached as Annexure-30(P148-149)</p> <p>Order no: 13009 dated 22.08.23 & Order no 130010 dated. 26.08.23 for procurement and installation of other 2 nos. of CAAQMS have been placed on M/s. GEMS Projects Pvt. Ltd.</p> <p>It may kindly be noted that within 6 months of grant of EC and CTE we have installed 2 nos. of CEMS and 2 nos. of CAAQMS and order has been</p>
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		placed for remaining 2 nos. of CAAQMS.
ii	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Monitoring of fugitive emissions in the plant premises are being monitored once in fortnight through NABL accredited laboratories. Monitoring report is attached as Annexure-5{P36-48} ;
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.	Various Air Pollution Control (APC) devices installed like Bag filter installed with Proportionate System, Bag filter with Bentonite hopper, Bag filter with Ash hopper, Bag filter with Coal Dust Injection System, Bag filter at Mixer, ESP Connected with TG, Multi cyclone connected with TG before ESP and Water sprinkling system at transfer points of Rotary Kiln and pellet conveyor lines starting from annual cooler to finished product bin have been installed.
iv	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	Iron ore, coal and other fines collected in the pollution control devices are being recycled and reuse in pelletization process.
v	The project proponent shall ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation	Raw materials and product are being transported through covered trucks and covered conveyors to prevent spillage and dust generation. Photos are attached as Annexure-23{P133}
vi	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	Vacuum cleaner is being used to clean plant roads, shop floors. "Vacuum cleaner in paved road cleaning operation" is attached as Annexure-18{P103} ;

III. Water quality monitoring and preservation

i	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and	At present, Pelletization Plant is under operations. There is no effluent discharge from the Plant. CEMS and CAAQMS have been installed as mentioned in point II(i)
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	calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	above.
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.	Ground water quality are being monitored and analysed through NABL accredited Laboratory once in 3 months (Quarterly). Monitoring report is attached as Annexure-5{P36-48}
iii.	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	50 KLD STP has been installed for treatment of waste water generated from plant canteen, factory toilets, hostel toilet etc. The treated water is being reused for gardening and plantation. Photograph of STP attached as Annexure-17{P102}
iv.	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.	Garland drains with collection pits are provided at the raw material stack yards for run-off management during the heavy rains.
v	Tyre washing facilities shall be provided at the entrance of the plant gates.	Tyre washing facility at the entrance of Plant gate is under implementation. It will be commissioned with effluent treatment recycling facilities by 31 st October 2023.
Vi	Water meters shall be provided at the inlet to all unit processes in the steel plants.	Water meters are provided at the inlet to all unit processes in the Pellet plant. List as Annexure-9{P67-67(B)} .
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.	Noise quality is being monitored once fortnight as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000. Reports is enclosed in Annexure-5{P36-48}
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	The ambient noise levels are always within the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night

	night time.	time. Annexure-5(P36-48)
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.	<p>i) All light fittings inside plant premises are being replaced by LED lights.</p> <p>ii) As indicated in compliance of Para-ii of specific condition, M/s M.N. Dastur and Company (P) Limited, consulting engineers are carrying out GHG emission mapping and possible mechanism to reduce the GHG including review the scope and feasibility of generating renewable sources of energy for meeting part of energy demand. Accordingly, based on recommendation, action for adoption of renewable energy viz. solar energy will be taken in time bound manner.</p>
ii	Provide LED lights in their offices and residential areas.	LED lights have been provided in the offices and residential areas.
Vi. Waste management		
i	Kitchen waste shall be composted or converted to biogas for further use	Kitchen waste is being composted and used as manure.
ii	Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil. Oil collection trays shall be provided under coils on saddles in cold rolled coil storage area.	Not applicable. No Cold Rolling proposed and hence Oil Cellers neither exists nor proposed.
VII. Green Belt		
i	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.	As mentioned in compliance of Para- ii of Specific condition, work is under progress and being carried out by expert agency, M/s Dastur & Co. Pvt Ltd.
ii	Project proponent shall submit a study report on De-carbonization program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage after offsetting strategies. Further, the report shall also contain time bound action plan to	Same as in Para- (i) of Green Belt.

	reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames.	
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.	Disaster Management Plan (DMP) based on HIRA has been prepared and implemented. Enclosed as Annexure-33{160-207}
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.	At present Palletisation Plant is under operation. (Direct heat exposures for workmen are applicable in case of Blast furnace, SMS plant etc. In Pellet Plant, there is no such direct heat exposure for workmen.) Personal Protection Equipment (PPE) have been provided to all the employees working inside the plant.
iii	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.	Occupational health surveillance of the workers are being done on a regular basis and records are being maintained. Certificate of the health surveillance report is attached as Annexure-25{P138}
IX. Environment Management		
i	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.	As part of Corporate Environment Responsibility (CER) activity, we have adopted nearby 5 villages (Upar Raiguda, Balibeda, Sankriposi, Amuni & Anra) based on the socio-economic survey and have undertaken community developmental activities in consultation with the village Panchayat and the District Administration. Detail of action plan for 5 villages to make it "Swachh - Nirmal - Swabalambi Aadarsh Gram"(Model Village) is attached as Annexure-10{P68-75}
ii	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The	M/s Sree Metaliks Ltd. already has framed Environmental Policy and is Committed to preserving the

	environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus anyinfringements/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.	environment in an integral manner. The policy is attached as Annexure-26{P139}
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.	The company has an Environment Cell headed by Manager- Environment and directly reporting to unit head and Sr. V.P. at head office. Environmental Cell of the company is attached as Annexure-27{P140}
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	The project proponent published the Environmental Clearance in English News Paper Indian Express and an Odia newspaper Dharitri within 7 days and also displayed the same in their website. News paper clip with website details attached as Annexure-28{P141-143}
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.	The copies of the Environmental Clearance submitted to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government. The receipts of the same are attached as Annexure-29{P144-147}
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 compliance report along with result of monitored data is being updated on the website.

	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.	The monitoring data of Ambient Air (PM-10, SO ₂ , NO _x), Water, and Noise are being displayed at main gate and are also being uploaded in the company website. Photograph of the Electronic Display Board is attached as Annexure-30{P148-149}
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.	We 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.	Environmental Statement in Form-V is being submitted at OSPCB, Odisha regularly and also uploaded on the company web side i.e., www.sreemetaliks.com
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.	(i) CTO for operation of expanded Pelletization plant (2 nd unit of 0.6MTPA Pelletization) issued on 07.07.2023. Intimation to RO regarding starting of production sent on: 18.07.2023. The copy is enclosed as Annexure-19 . (ii) CTE for Beneficiation Plant, to resume remaining pending work issued on dated: 11.05.2023 Copy enclosed Annexure-19{P104-120}
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.	(i) Commitments made during public hearing have been complied. Detail enclosed as Annexure-11{P76-87} (ii) Compliance of commitment to EAC is enclosed as Annexure 11(A){P88-92}
ix	The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to	(A) Environment related expenditure, Capital up to 31 st March 2023 and Recurring (operational) in 2022-23 are Rs. 18,54,87,000 (Up to 31 st March 2023) and Rs. 1,83,09,600 (in2022-23) respectively. Detail enclosed as

	public/public domain. The PP shall also put the information on the left-over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.	Annexure -1(A) {P23} (B) Expenditure on PH issues, Capital (up to 31 st March 2023) and recurring (2022-23) are Rs.217.87 Lakhs and Rs.56.43 Lakhs respectively.
X	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).	We are abiding by the said condition. (C) Above information regarding environment and PH related expenditures are uploaded on company website for the information to public/public domain.