ENVIRONMENTAL CLEARANCE COMPLIANCE

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

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

M/S SREE METALIKS LIMITED

At village: Anra, P.O- Upara Raigoda,

Dist-Keonjhar, Orissa

Six Monthly Environmental Clearance Compliance Report forExpansion of Iron Ore Pelletization Plant from 0.6 MTPA to 1.2 MTPA and 1.0 MTPA Iron Beneficiation Plant by M/s SreeMetaliks 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.NO.	**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.	At present, only 0.6 X2 = 1.2 MTPA Pelletization Plant unit is under operation. 1.0 MTPA Beneficiation Plant is expected to commission by September/October 2023. All Pollution control measures for 1.2 MTPA capacity pelletization Plant, raw material storage yard, finished product storage yard etc. have been implemented as given below. (i) Online continuous stack emission monitoring systems (CEMS) at the stack of the pellet plant have been installed for online real time monitoring of stack emission. (ii) Various Air Pollution Control (APC) devices like Bag filter of Proportionate System, Bag filter of Bentonite hopper, Bag filter of Ash hopper, Bag filter of Coal Injection System, Bag filter at Mixer, ESP Connected to TG, Multi cyclone connected to TG before ESP and Water sprinkling system at transfer point of rotary Kiln and pellet conveyor lines starting from annual cooler to

		finished product bin have been installed. (iii) Water sprinkling arrangements have been installed on paved roads to avoid dust emission due to transportation and movement of vehicles. (iv) Air gun and fixed sprinkler arrangement has been made at raw material stack yard. (v) Green belts have been developed along the boundary of the plant. (vi) Regularly monitoring of fugitive emission in plant premises once in fortnight by NABL accredited laboratory. Details of Pollution control equipments with photograph is attached as **Annexure-1**
ii	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.	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. i)Preparation of GHG emission inventory(as per WSA format) ii)Comprehensive Plan for reduction of GHG emission including: (a) Preparation of programme for reduction GHG emission through Carbon sequestration by trees & technology. (b) Survey of Green belt inside & outside of Plant. (c) Develop year-wise implication

		Plan for emission reductions, Projects covering emissions saving, anticipated cost (Capital/Operating Expenditure) & proposed monitoring Plans with KPIs. Consulting Engineers are expected to submit the report by November/December -2023, with year-wise implementation plans for emission reduction including carbon sink/sequestration resources.
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.
iv	Tailings from Iron Ore beneficiation plant shall be dewatered in filter press and no slime /tailing pond shall be permitted.	1.0 MTPA beneficiation Plant expected to commission by September/October 2023. The thickened slurry from concentrate thickener underflow will be dewatered in pressfilter. The dewatered material will 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.** Generated tailing cake will be back-field in mined out area of captive iron ore mines (Khandbandh). There will be not be any such tailing pond for beneficiation plant.
v	Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Regional Office of the MoEF&CC.	We are abiding by the said condition. Authorized third party M/s Sun Consultancy & Services Pvt ltd has been engaged to conduct the performance of Air Pollution Control System of Pellet Plant.
vi	Dust emission from stacks shall	Dust emission from stacks are under

	be less than 30 mg/Nm3	30mg/Nm3. Monitoring report is attached as **Annexure-2**
vii	Total water requirement of 569 m3/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 for vides NOC no CGWA/NOC/IND/ORIG/2021/12271 on dated 24.06.2021 and 95KLD permission vides NOC no CGWA/NOC/IND/ORIG/2021/11594 on 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. Letter of IPICOL is attached as **Annexure-3**
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.	Run off management study with Nalla management already conducted and suitable budget provision has been made for nalla protection measures. Report is attached as **Annexure-4** The recommendations of the study are under implementation. Photo of the same is attached as **Annexure-5**
ix	Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Regional Office of the MoEF&CC.	We are abiding by the said condition. Authorized third party M/s Sun Consultancy Services Pvt. Ltd. have been engaged to conduct the performance of Air Pollution Control System.
x	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.	We are complying the same with the provisions of E-Waste (Management) Rules, 2016 and amendment thereafter.Authorized third party M/s Greenex India Resources Pvt. Ltd, Bhubaneswar have been engaged for collection and recycles for proper disposal of e-waste.
xi	As committed to adopt 5 villages, namely Anra, Dudhpasi, Raigoda, Bheldih and Bininda, Project Proponent shall prepare and implement a robust plan to	We have adopted 5 villages namely Anra, Dudhpasi, Raigoda, Bheldih and Bininda. Need based assessment plan have been prepared with budgetary

	develop them into model villages in next 10 years.	budgetary provision for implementation to develop them into model villages in next 10 years. Budgetary provision with year wise implementation plan is attached as **Annexure- 6. Further a report on implementation of CSR activities during last 5 years in the villages with photographs is attached as Annexure-7.**
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, nearly 40 Ac (16.18 Ha) (33% of the area) is earmarked for green belt. The green belt has been developed over 16.18 ha. 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, Krishnachuda has been done extensively. Photographs of the plantation details are attached as **Annexure-8**
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-9**
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)have been created within Plant Promises to enrich ground water. Photo of the same attached as **Annexure-10**. 2.Further Roof top rain water harvesting system has been implemented. Photo of the same attached as **Annexure-11.** 3. Storm water drainage system along with 2 nos retention tanks

		flow to nearby water bodies.(**Annexure-10**.)
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/m3, 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 -12.** Respirable dust fractions and free silica are well below the specified limits.
xvi	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.	1. **Zero Liquid Discharge** is there in presently operating Pelletistion Plant. 2. Thickner in Beneficiation Plant has been installed for waste water treatment. Outflow the thickener is recycled back as make-up water in the process. Zero discharge would be maintained from Beneficiation Plant premises. 3.The run off generated are treated in storm water ponds. 4. 50 KLD STP has been installed to treat waste water generated from plant canteen, factory toilets, emergency staff hostel, equipment floor washing and other sources. The treated water is being reused for gardening and plantation. Photo of the STP is attached as**Annexure-13.**
xvii	All roads in the plant shall be paved and industrial vacuum cleaners shall be used regularly to clean roads to reduce fugitive emissions.	90% of the “paving” of internal road insides the plant premises has been completed. **Vacuum cleaners are used** for

		cleaning the paved roads to reduce fugitive emissions.**Annexure-14.**
xviii	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.	Raw material stack yards i.e. iron ore, coal, dolomite are having impervious flooring. Garland drains have been provided around the stack yard. Further, water spraying by use of rain gun are beingdone for dust suppression.
xix	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.	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 -12.** Respirable dust fractions and free silica are well below the specified limits.
xx	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 study of the project shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC	All the commitments made to the public during the earlier Public Hearing/Public Consultation dated 20.02.2009 have been satisfactorily implemented. The implementation detailis enclose as **Annexure-15**
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.	The Site specific Wildlife Conservation plan with implementation schedule has been approved by the PCCF wildlife cum Chief Wildlife Warden with budgetary provision of Rs 2.28 Crore. The proponent will deposit the amount at State CAMPA. Accordingly fund will be allocated to DFO for its implementation. **Annexure-16**
xxii	The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect	In compliance of the Plastic Waste Management Rules , 2016,Single Use Plastic(SUP) item have been banned by order of President Anra Plant, Sree

	from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at https://cpcb.nic.in/technical-guidelines-3/. All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance reports being submitted by the project proponents.	Metaliks Limited dt. 01 March 2023.Inchage 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.
xxiii	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	Various fugitive emission generating areas like stock houses, transfer points, junction points etc. have been provided with appropriate suction device connected to bag filters. - Electrostatic Precipitator has been provided in both unit of pellet plant. - Bag filters arrangement has been made at pelletisation plant, raw

	cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.	material storage yard, finished product storage yard etc. - Water sprinkling arrangements are effectively used to avoid dust emissions due to transportation & movement of vehicles. Mist water cannons have been installed and operated regularly inside the project to arrest suspended dust in the atmosphere.
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.
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	At present only Palletisation Plant is under operations. Online Continuous Stack Emission monitoring Systems (CEMS) at the stacks of the Pellet Plant for online real time monitoring for PM are installed. One no. Continuous Ambient Air Quality Station (CAAQS) for monitoring AAQ parameters already installed at our staff gate. (towards Anra village)Installation of

	from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	2nd CAAQS is under progress.
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 conducted fortnightly once through NABL accredited laboratories. Monitoring report is attached as **Annexure-2**
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 like Bag filter of Proportionate System, Bag filter of Bentonite hopper, Bag filter of Ash hopper, Bag filter of Coal Injection System, Bag filter at Mixer, ESP Connected to TG, Multi cyclone connected to TG before ESP and Water sprinkling system at transfer point 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 toprevent spillage and dust generation. Photos are attached as **Annexue-17**
vi	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	Vacuum cleaner has been procured and is being used to clean plant roads, shop floors, regularly. Photographs of the same is attached as **Annexure-14**
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 calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	At present only Palletisation Plant is under operations. There is no effluent discharge form Plant.
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 analyzed through NABL** accredited Laboratory once in 3 months (Quarterly). Monitoring report is attached as **Annexure-2**
iii.	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	50 KLD STP has been installed for waste water generated from plant canteen, factory toilets, colony equipment floor washing and other sources. The treated water is being reused for gardening and plantation.
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 within 2 months i.e. by 31st 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.
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 are being monitored fortnightly once as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000.Reports is enclosed in.**Annexure-2**
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.	The ambient noise level 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 time. **Annexure-2**
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.	We are using LED lights inside the plant premises. Implementation Plan for installation of solar energy will be done as per the recommendation of on-going study for emission reduction.
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.	Used oil is being stored in a separate chamber with collection pit. Photo is attached as **Annexure-18** Cold rolled coil storage is not applicable for our plant.

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.
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 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.	As mentioned in compliance of Para- ii of Specific condition.
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.	Emergency preparedness plan has been prepared and being 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.	At present only Palletisation Plant is under operation. Direct heat exposures for workmen are applicable in case of blast furnace and SMS plant. As it's a pellet plant there is no such direct heat exposure for workmen. Personal Protection Equipment (PPE) is 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	Occupational health surveillance of the workers are being done on a regular basis and records are being

	maintained.	maintained. Certificate of the health surveillance report is attached as **Annexure-19**
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 undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed. Budgetary provision with 10 years implementation plan is attached as **Annexure-6**
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 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.	M/s Sree Metaliks Ltd. already has framed Environmental Policy and is Committed to preserving the environment in an integral manner. The policy is attached as **Annexure-20**
iii	A separate Environmental Cell both at the project and company head quarter level, with qualified	The company has a environmental Cell headed by Manager-Environment and directly reporting

	personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	to unit head and Sr. V.P. at head office. Environmental Cell of the company is attached as **Annexure-21**
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 news paper Dharitri within 7 days and also displayed the same in their website. News paper clip with website details attached as **Annexure-22**
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 receipt of the same is attached as **Annexure-23**
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	Half yearly compliance report is being submitted and updated in our website.
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.	At present only Palletisation Plant is under operations. The monitoring data of Air, Water, Noise are being displayed at main gate and also uploaded in the company website. Photo graph of

		Electronic Display Board is attached as**Annexure-24**
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 SPCB, 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.	We are abiding by the said condition.
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.	We are abiding by the said condition.
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 public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as	We are in the process to put details regarding 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.

	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.	
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.

Annexure-1

AIR POLLUTION CONTROL EQUIPMENT AT VARIOUS SOURCES FOR 0.6 MTPA PELLET PLANT (EXPANSION PROJECT)

		Pellet-1 (0.6 MTPA)		Pellet-2 (expansion 0.6 MTPA)			
Stack No	**Dust generating Source with Pollution control devices**	**Stack height from ground level in Mtr**	**Quantity of emission (m3/hr)**	**Stack height from ground level in Mtr**	**Quantity of emission (m3/hr)**	**Remarks**	**Installation status**
1	Bag filter of Proportionate System	18.00	8000			Common for both	Installed during 1st Phase
2	Bag filter of Bentonite hopper	23.00	5000			Common for both	Installed during 1st Phase
3	Bag filter of Ash hopper	15.00	3000			Common for both	Installed during 1st Phase
4	Bag filter of Coal Injection System	25.00	3300	25.00	3300		Installed for expansion project
5	Bag filter at Mixer	15.00	3000	15.00	3000		Installed for expansion project
6	ESP Connected to TG	50.00	500000	50.00	500000		Installed for expansion project
7	Multi cyclone connected to TG before ESP	Flue gas passes to ESP	200000	Flue gas passes to ESP	200000	1 no for existing and 2 no's for expansion	Installed for expansion project
8	Water sprinkling system at transfer point of rotary Kiln and pellet conveyor lines starting from annual cooler to finished product bin	-	-	-	-	Both for existing and expansion	Installed for expansion project

For Sree Metaliks Limited

Sr. Vice President (Admin. & Commercial)

Annexure-1


COAL BIN
BAG FILTER


BAG FILTER
ESP DUST BIN

BAG FILTER-PCI

EHS 360 LABS PRIVATE LIMITED

TC-9583

TEST REPORT

Report No	EHS360/TR/2022-23/015	**Report Date**	06.04.2023
Issued To	***M/s Sree Metaliks Ltd,*** Anra, Upper Raigoda, Banspal Dist-Keonjhar, Odisha.		
Customer Name	***M/s Sree Metaliks Ltd***		
Sampling Method	IS 5182	**Sample Drawn by**	Laboratory
Sample Name	Air	**Sample Code**	EHS360/015
Sample Description	Ambient Air Quality Monitoring	**Sample Condition**	Good
Sampling Location & Coordinates	Near Entry Gate: 21°41'13.17"N Latitude & 85°26'17.90"E Longitude		

Date Of Sampling	PM10 ($\mu g/m^3$)	PM2.5 ($\mu g/m^3$)	SO2 ($\mu g/m^3$)	NOx ($\mu g/m^3$)	CO (mg/m^3)
02.03.2023	82.5	42.4	16.4	25.8	0.71
06.03.2023	85.6	45.7	16.8	26.2	0.73
09.03.2023	83.7	43.4	15.9	24.9	0.7
13.03.2023	87.2	47.4	16.6	26.2	0.72
16.03.2023	72.6	36.8	13.6	18.2	0.55
20.03.2023	74.2	37.4	14.2	19.2	0.58
23.03.2023	78.2	40.4	15.2	25.6	0.65
27.03.2023	73.4	37.8	14.4	22.1	0.62
30.03.2023	69.8	35.2	13.6	20.2	0.6
NAAQ* Standard	**100**	**60**	**80**	**80**	**4**
Methods of Analysis	**IS:5182 (Part-23)**	**IS:5182 (Part-24)**	**IS:5182 (Part-2)**	**IS:5182 (Part-6)**	**IS: 5182 (Part- 10)**

Note: BDL –NAAQ – National Ambient Air Quality;Instrument Used: Respirable Dust Sampler (RDS), Fine Particulate Sampler (FPS).

**********End of Report**********

EHS360 LABS PRIVATE LIMITED CHENNAI 600 083

Verified by

Authorised Signatory

Name : Santhosh Kumar A

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EHS 360 LABS PRIVATE LIMITED

TC-9583

TEST REPORT

Report No	EHS360/TR/2022-23/0016	**Report Date**	06.04.2023
Issued To	***M/s Sree Metaliks Ltd,*** Anra, Upper Raigoda, Banspal Dist-Keonjhar, Odisha.		
Customer Name	***M/s Sree Metaliks Ltd***		
Sampling Method	IS 5182	**Sample Drawn by**	Laboratory
Sample Name	Air	**Sample Code**	EHS360/016
Sample Description	Ambient Air Quality Monitoring	**Sample Condition**	Good
Sampling Location & Coordinates	Near Security Barak:21°41'2.88"N Latitude & 85°25'56.46"E Longitude		

Date Of Sampling	PM10 ($\mu g/m^3$)	PM2.5 ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NOx ($\mu g/m^3$)	CO (mg/m^3)
02.03.2023	78.5	40.2	13.8	23.8	0.65
06.03.2023	81.6	42.4	14.4	24.2	0.67
09.03.2023	80.4	41.1	13.8	22.8	0.64
13.03.2023	83.4	43.4	14.6	24.6	0.67
16.03.2023	70.1	31.2	12.4	16.6	0.51
20.03.2023	72.4	36.5	13.6	17.8	0.55
23.03.2023	77.4	39.2	13.2	22.4	0.6
27.03.2023	70.2	35.6	12.8	20.4	0.58
30.03.2023	66.7	33.7	12.2	18.3	0.56
NAAQ* Standard	**100**	**60**	**80**	**80**	**4**
Methods of Analysis	**IS:5182 (Part-23)**	**IS:5182 (Part-24)**	**IS:5182 (Part-2)**	**IS:5182 (Part-6)**	**IS:5182 (Part-10)**

Note: NAAQ – National Ambient Air Quality; Instrument Used: Respirable Dust Sampler (RDS), fine Particulate Sampler (FPS).

**********End of Report**********

Verified by

EHS360 LABS PRIVATE LIMITED CHENNAI 600 083

Authorised Signatory

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TEST REPORT

Report No	EHS360/TR/2022-23/017	**Report Date**	06.04.2023
Issued To	***M/s Sree Metaliks Ltd,*** Anra, Upper Raigoda, Banspal Dist-Keonjhar, Odisha.		
Customer Name	***M/s Sree Metaliks Ltd***		
Sampling Method	IS 5182	**Sample Drawn by**	Laboratory
Sample Name	Air	**Sample Code**	EHS360/017
Sample Description	Ambient Air Quality Monitoring	**Sample Condition**	Good
		Sampling Date	20.02.2023

Name of Location	Location	O3 (µg/m³)	NH3 (µg/m³)	Pb (µg/m³)	Ni (ng/m³)	As (ng/m³)	C6H6 (µg/m³)	BaP (ng/m³)
AAQ-1	AQ1-Near Entry Gate	12.6	36.8	<0.06	<0.6	<0.44	<5	<1
AAQ-2	AQ2-Near Security Barak	11.8	33.6	<0.06	<0.6	<0.44	<5	<1
NAAQ* Standard		**100**	**400**	**1**	**20**	**6**	**5**	**1**
Methodsof Analysis		**IS:5182 (Part-9)**	**IS:5182 (Part-25)**	**IS:5182 (Part-22)**	**IS:5182 (Part-26)**	**As per CPCB method followed by AAS**	**IS:5182 (Part-11)**	**IS:5182 (Part-12)**

Note: BDL –NAAQ – National Ambient Air Quality;Instrument Used: Respirable Dust Sampler (RDS), Fine Particulate Sampler (FPS).

**********End of Report**********

Verified by

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EHS 360 LABS PRIVATE LIMITED

TC-9583

TEST REPORT

Report No	EHS360/TR/2022-23/018	**Report Date**	06.04.2023
Issued To	***M/s.Sree Metaliks Ltd,*** Anra, Upper Raigoda, Banspal Dist-Keonjhar, Odisha.		
Customer Name	***M/s Sree Metaliks Ltd***		
Sampling Method	IS 9989	**Sample Drawn by**	Laboratory
Sample Name	Noise Level Monitoring	**Sample Code**	EHS360/018
Sample Description	Ambient Noise	**Sample Condition**	Good
Sample Collected Date	21.03.2023	**Sample Received On**	22.03.2023
Test Commenced On	22.03.2023	**Test Completed On**	24.03.2023

S.No.	**Locations**	**Day Time**	**Night Time**
		Results in dB(A)	
1	Near Entry Gate; Latitude: 21°41'13.17"N & Longitude: 85°26'17.90"E	69.4	62.6
2	Near Security Barak; Latitude: 21°41'2.88"N &Longitude: 85°25'56.46"E	65.6	52.8
Industrial Zone *permissible limits as per TNPCB Norms*		**Day Time – 75 dB(A)**	**Night Time – 70 dB(A)**

Note: Instrument Used: Sound Level Meter.

REMARKS: The above sample complies with SPCB norms with respect to the above tested Parameters.

**********End of Report**********

EHS360 LABS PRIVATE LIMITED CHENNAI 600 083

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EHS 360 LABS PRIVATE LIMITED

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TEST REPORT

Report No	EHS360/TR/2022-23/019	**Report Date**	06.04.2023
Issued To	***M/s Sree Metaliks Ltd,*** Anra, Upper Raigoda, Banspal Dist-Keonjhar, Odisha.		
Customer Name	***M/s Sree Metaliks Ltd***		
Sampling Method	IS 9989	**Sample Drawn by**	Laboratory
Sample Name	Noise Level Monitoring	**Sample Code**	EHS360/019
Sample Description	Work Zone Noise	**Sample Condition**	Good
Sample Collected Date	21.03.2023	**Sample Received On**	22.03.2023
Test Commenced On	22.03.2023	**Test Completed On**	24.03.2023

S.No.	**Locations**	**Day Time**	**Night Time**
		Results in dB(A)	
1	Near W.Bridge-1; Latitude: 21°40'67.60"N & Longitude: 85°26'45.20"E	71.7	68.6
2	Near W.Bridge-2;Latitude: 21°40'55.60"N &Longitude: 85°26'16.20"E	71.1	66.9
Industrial Zone *permissible limits as per TNPCB Norms*		**Day Time – 75 dB(A)**	**Night Time – 70 dB(A)**

Note: Instrument Used: Sound Level Meter.

REMARKS: The above sample complies with SPCB norms with respect to the above tested Parameters.

**********End of Report**********

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TEST REPORT

Report No	EHS360/TR/2022-23/020	**Report Date**	06.04.2023
Issued To	***M/s Sree Metaliks Ltd,*** Anra, Upper Raigoda, Banspal Dist-Keonjhar, Odisha.		
Customer Name	***M/s Sree Metaliks Ltd***		
Sampling Method	IS 5182	**Sample Drawn by**	Laboratory
Sample Description	**Fugitive Dust Sample**	**Sample Code**	EHS360/020
		Sample Condition	Good

Sl. No.	Name of Location	Coordinates of Location	Date of Sampling	Result
1	Near W.Bridge - 1	Lat: 21°40'67.60"N Long:21°40'55.60"N	21.03.2023	972.5
2	Near W.Bridge - 2	Lat: 85°26'45.20"E Long: 85°26'16.20"E	21.03.2023	941.6
Fugitive Standard				1200
Methods of Analysis			**IS:5182 (Part-24)**	

Instrument Used: Respirable Dust Sampler (RDS)

*************End of Report*************

EHS360 LABS PRIVATE LIMITED CHENNAI 600 083

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EHS 360 LABS PRIVATE LIMITED

TC-9583

TEST REPORT

Report No	EHS360/TR/2022-23/021	**Report Date**	06.04.2023
Issued To	***M/s Sree Metaliks Ltd,*** *Anra, Upper Raigoda, Banspal Dist- Keonjhar, Odisha*.		
Customer Name	***M/s Sree Metaliks Ltd***		
Sampling Method	IS 5182	**Sample Drawn by**	Laboratory
Sample Name	**Stack Emission Monitoring**	**Sample Code**	EHS360/021
Sample Description	Flue Gas	**Sample Condition**	Good
Name of Location	**Stack (ESP connected to TG)**		
Date of Sampling	21.03.2023	**Date of Analysis**	24.03.2023
Date of Receiving	22.03.2023	**Date of Complete**	24.03.2023

Sl. No.	Parameters	Test Method	Results
1	Flue Gas Temp. in K	IS-11255 (PART-3) 1985, (RA-2013)	370
2	Average flue gas Velocity in m/sec	IS-11255 (PART-3) 1985, (RA-2013)	17.01
3	Particulate Matter (PM) in mg/Nm^3	IS-11255(PART-1) 1985, (RA-2014) Gravimetric Method	42.6
4	SO2 in mg/Nm^3	IS-11255(PART-2) 1985, (RA-2019)	22.8
5	NOx in mg/Nm^3	IS-11255(PART-2) 1985	35.2

**********End of Report**********

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TEST REPORT

Report No	EHS360/TR/2022-23/022	**Report Date**	06.04.2023
Issued To	***M/s Sree Metaliks Ltd,*** Anra, Upper Raigoda, Banspal Dist-Keonjhar, Odisha.		
Customer Name	***M/s Sree Metaliks Ltd***		
Sampling Method	IS 10500	**Sample Drawn by**	Laboratory
Sample Name	**Ground Water**	**Sample Code**	EHS360/022
Sample Description	GW	**Sample Condition**	Good
Date of Sampling	21.03.2023	**Date of Analysis**	24.03.2023
Date of Receiving	22.03.2023	**Date of Complete**	28.03.2023
Locations	GW1-Inside Plant; Latitude: 21°40'58.14"N & Longitude: 85°26'9.43"E GW2-Village Anara; Latitude: 21°41'20.01"N & Longitude: 85°26'19.10"E GW3-Village Raigad; Latitude: 21°40'58.51"N & Longitude: 85°25'26.93"E		

Sl. No	Parameters	Unit	Standard as per IS–10500 (2012)	Result		
				GW1	GW2	GW3
01	pH	---	**6.5-8.5**	7.24	7.32	7.26
02	Colour	Hazen	**5 (15)**	<5.0	<5.0	<5.0
03	Turbidity	NTU	**5(10)**	<1	<1	<1
04	Chloride (as Cl)(max)	mg/l	**250 (1000)**	28.0	22.0	25.0
05	Total Dissolved Solid	mg/l	**500 (2000)**	234.0	208.0	212.0
06	Total Hardness (as $CaCO_3$) (max)	mg/l	**200 (600)**	138.0	124.0	130.0
07	Iron (as Fe) (max)	mg/l	**0.3 (NR)**	0.28	0.26	0.26
08	Calcium (as Ca) (max)	mg/l	**75 (200)**	34.1	31.7	32.5
09	Magnesium (as Mg) (max)	mg/l	**30 (100)**	12.9	10.9	11.9
10	Sulfate (as SO_4) (max)	mg/l	**200(400)**	4.2	3.1	3.3
11	Nitrate (as NO_3) (max)	mg/l	**45 (NR)**	1.72	1.56	1.48
12	Fluoride as F	mg/l	**1.0(1.5)**	<0.05	<0.05	<0.05
13	Total Coliform	MPN/100ml	**Absent**	<1.8	<1.8	<1.8

**********End of Report**********

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TEST REPORT

Report No	EHS360/TR/2022-23/022	**Report Date**	06.04.2023
Issued To	***M/s Sree Metaliks Ltd***, Anra, Upper Raigoda, Banspal Dist-Keonjhar, Odisha.		
Customer Name	***M/s Sree Metaliks Ltd***		
Sampling Method	IS 10500	**Sample Drawn by**	Laboratory
Sample Name	**Ground Water**	**Sample Code**	EHS360/022
Sample Description	GW	**Sample Condition**	Good
Date of Sampling	21.03.2023	**Date of Analysis**	24.03.2023
Date of Receiving	22.03.2023	**Date of Complete**	28.03.2023
Locations	GW1-Inside Plant; Latitude: 21°40'58.14"N & Longitude: 85°26'9.43"E GW2-Village Anara; Latitude: 21°41'20.01"N & Longitude: 85°26'19.10"E GW3-Village Raigad; Latitude: 21°40'58.51"N & Longitude: 85°25'26.93"E		

Sl. No	Parameters	Unit	Standard as per IS–10500 (2012)	Result		
				GW1	GW2	GW3
14	Total Chromium as Cr(max)	mg/l	**0.05(NR)**	<0.05	<0.05	<0.05
15	Sodium as Na(max)	mg/l	**---**	17.6	13.6	15.7
16	Potassium as K(max)	mg/l	**---**	1.3	1.1	1.2
17	Odour	---	**Agreeable**	U/O	U/O	U/O
18	Taste	---	**Agreeable**	AL	AL	AL
19	Residual free Chlorine	mg/l	**0.2 (1)**	<0.2	<0.2	<0.2
20	Manganese (as Mn) (max)	mg/l	**0.10 (0.3)**	0.22	0.21	0.19
21	Cadmium (as Cd) (max)	mg/l	**0.003 (NR)**	<0.001	<0.001	<0.001
22	Copper (as Cu) (max)	mg/l	**0.05 (1.5)**	<0.03	<0.03	<0.03
23	Zinc (as Zn) (max)	mg/l	**5 (15)**	0.24	0.16	0.2
24	Lead (as Pb) (max)	mg/l	**0.01 (NR)**	<0.01	<0.01	<0.01

**********End of Report**********

Verified by

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TEST REPORT

Report No	EHS360/TR/2022-23/022	**Report Date**	06.04.2023
Issued To	***M/s Sree Metaliks Ltd***, Anra, Upper Raigoda, Banspal Dist-Keonjhar, Odisha.		
Customer Name	***M/s Sree Metaliks Ltd***		
Sampling Method	IS 10500	**Sample Drawn by**	Laboratory
Sample Name	**Ground Water**	**Sample Code**	EHS360/022
Sample Description	GW	**Sample Condition**	Good
Date of Sampling	21.03.2023	**Date of Analysis**	24.03.2023
Date of Receiving	22.03.2023	**Date of Complete**	28.03.2023
Locations	GW1-Inside Plant; Latitude: 21°40'58.14"N & Longitude: 85°26'9.43"E GW2-Village Anara; Latitude: 21°41'20.01"N & Longitude: 85°26'19.10"E GW3-Village Raigad; Latitude: 21°40'58.51"N & Longitude: 85°25'26.93"E		

Sl. No	Parameters	Unit	Standard as per IS–10500 (2012)	Result		
				GW1	GW2	GW3
25	Selenium (as Se) (max)	mg/l	**0.01 (NR)**	<0.001	<0.001	<0.001
26	Mercury (as Hg) (max)	mg/l	**0.001 (NR)**	<0.001	<0.001	<0.001
27	Cyanide (as CN) (max)	mg/l	**0.05 (NR)**	<0.2	<0.2	<0.2
28	Boron (as B) (max)	mg/l	**0.5 (1.0)**	<0.01	<0.01	<0.01
29	Arsenic (as As) (max)	mg/l	**0.01(0.5)**	<0.001	<0.001	<0.001
30	Mineral Oil	mg/l	**0.5(NR)**	ND	ND	ND
31	Aluminum (as Al) (max)	mg/l	**0.03(0.2)**	<0.01	<0.01	<0.01
32	Anionic Detergents (as MBAS)	mg/l	**0.2(1.0)**	ND	ND	ND
33	Phenolic Compounds (as C6H5OH)	mg/l	**0.001 (0.002)**	<0.001	<0.001	<0.001
34	Selenium (as Se) (max)	mg/l	**0.01 (NR)**	<0.001	<0.001	<0.001

**********End of Report**********

EHS360 LABS PRIVATE LIMITED CHENNAI 600 083

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EHS 360 LABS PRIVATE LIMITED

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TEST REPORT

Report No	EHS360/TR/2022-23/023	**Report Date**	06.04.2023
Issued To	***M/s Sree Metaliks Ltd,*** Anra, Upper Raigoda, Banspal Dist-Keonjhar, Odisha.		
Customer Name	***M/s Sree Metaliks Ltd***		
Sampling Method	IS 2296	**Sample Drawn by**	Laboratory
Sample Name	**Surface Water**	**Sample Code**	EHS360/023
Sample Description	SW	**Sample Condition**	Good
Date of Sampling	21.03.2023	**Date of Analysis**	24.03.2023
Date of Receiving	22.03.2023	**Date of Complete**	28.03.2023
Locations	**SW**- Brahmani nala; Latitude: 21°41'14.10"N & Longitude: 85°25'49.19"E		

Sl. No	Parameters	Unit	Standard as per IS-2296 Class-C	Result SW
01	pH	---	**6.0-9.0**	7.7
02	Colour	Hazen	**300**	<5.0
03	Turbidity	NTU	**--**	<1.0
04	Chloride (as Cl)	mg/l	**600**	24
05	Total Dissolved Solid	mg/l	**1500**	170
06	Chemical Oxygen Demand as COD	mg/l	**--**	10.8
07	Hexavalent Chromium (as Cr+6)	mg/l	**0.05**	<0.05
08	Fluoride (as F)	mg/l	**1.5**	0.12
09	Sulfate (as SO4)	mg/l	**400**	9.2
10	Iron (as Fe)	mg/l	**0.5**	0.46
11	Nitrate (as NO3)	mg/l	**50**	1.88
12	Dissolved oxygen (min)	mg/l	**4**	5.9

**********End of Report**********

Verified by

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TEST REPORT

Report No	EHS360/TR/2022-23/023	**Report Date**	06.04.2023
Issued To	***M/s Sree Metaliks Ltd,*** Anra, Upper Raigoda, Banspal Dist-Keonjhar, Odisha.		
Customer Name	***M/s Sree Metaliks Ltd***		
Sampling Method	IS 2296	**Sample Drawn by**	Laboratory
Sample Name	**Surface Water**	**Sample Code**	EHS360/023
Sample Description	SW	**Sample Condition**	Good
Date of Sampling	21.03.2023	**Date of Analysis**	24.03.2023
Date of Receiving	22.03.2023	**Date of Complete**	28.03.2023
Locations	Brahmani nala; Latitude: 21°41'14.10"N & Longitude: 85°25'49.19"E		

Sl. No	Parameters	Unit	Standard as per IS-2296Class-C	Result
				SW
13	Oil & Grease (max)	mg/l	--	ND
14	BOD (3) days at 270C (max)	mg/l	**3.0**	<2.0
15	Arsenic as As (max)	mg/l	**0.2**	<0.001
16	Lead as Pb	mg/l	**0.1**	<0.01
17	Cadmium as Cd (max)	mg/l	**0.01**	<0.001
18	Copper as Cu (max)	mg/l	**1.5**	0.14
19	Zinc as Zn(max)	mg/l	**15**	0.19
20	Selenium as Se (max)	mg/l	**0.05**	<0.001
21	Cyanide as CN (max)	mg/l	**0.05**	<0.2
22	Phenolic Compounds as C6H5OH (max)	mg/l	**0.005**	<0.001
23	Total Coliform	MPN/ 100 ml	**5000**	210

**********End of Report**********

Verified by

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TEST REPORT

Report No	EHS360/TR/2022-23/024	**Report Date**	06.04.2023
Issued To	***M/s Sree Metaliks Ltd,*** Anra, Upper Raigoda, Banspal Dist-Keonjhar, Odisha.		
Customer Name	***M/s Sree Metaliks Ltd***		
Sampling Method	IS 2720	**Sample Drawn by**	Laboratory
Sample Name	**Soil**	**Sample Code**	EHS360/024
Sample Description	Soil	**Sample Condition**	Good
Date of Sampling	21.03.2023	**Date of Analysis**	24.03.2023
Date of Receiving	22.03.2023	**Date of Complete**	26.03.2023
Locations	Inside Plant; Latitude21°40'57.85"N& Longitude: 85°26'10.16"E Village Raigad; Latitude:21°41'0.25"N& Longitude: 85°19'20.16"E Village Anra ; Latitude: 21°59'35.29"N & Longitude: 85°19'10.86"E		

Sl. No	Parameters	Unit	Result		
			S1	S2	S3
01	Colour	---	Brown	Brown	Brown
02	Moisture content	%	6.8	6.9	7.1
03	pH	---	6.28	6.4	6.47
04	Electrical Conductivity (as EC)	micro s/cm	208	194	180
05	Soil Texture	---	Sand Loamy	Clay Loamy	Clay Loamy
06	Bulk Density	gm/cc	1.3	1.3	1.28
07	Calcium as Ca	mg/kg	448	412	398
08	Magnesium as Mg	mg/kg	214	202	188
09	Organic Carbon	%	1.22	1.58	1.62
10	Nitrogen as N	kg/hec	0.86	128	148
11	Phosphorus(as p)	kg/hec	48	44	42
12	Potassium (as K)	mg/kg	188	190	182
13	Chloride (as Cl)	mg/kg	164	142	142
14	Manganese (as Mn)	mg/kg	10.8	4.2	3.8
15	Iron (as Fe)	%	2.56	1.28	1.24

**********End of Report**********

Verified by

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Annexure-3

IPICOL | ODISHA NEW OPPORTUNITIES

SJ/SML/72/(IV)/

Date: 21.02.2023

To
Additional Secretary to Government
Department of Water Resources
Rajiv Bhawan, Bhubaneswar

Sub: Revalidation of water from Baitarani River in favour of M/s. Sree Metaliks Limited for setting up 1 MTPA Beneficiation plant, 1 MTPA Pellet Plant and 0.7 MTPA Steel Plant at Anra, Dist-Keonjhar.

Sir,

In inviting reference to the above subject, I am directed to inform you that M/s Sree Metaliks Limited had requested for Revalidation of 6.62 cusec of water from Baitarani River for 1 MTPA Beneficiation plant, 1 MTPA Pellet Plant and 0.7 MTPA Steel Plant at Anra, Dist-Keonjhar. The water requirement for the project has been revalidated by State Level Facilitation Cell in its 235th meeting dated 16.02.2023 and has arrived as follows:

a) 1 MTPA Beneficiation & 1.2 MTPA Pellet Plant- 0.9 Cusec
b) 0.7 MTPA Steel Plant- 5.72 Cusec

In view of the above, it is now recommended for revalidation of **6.62 cusec** of water from Baitarani River in favour of M/s Sree Metaliks Limited at Anra, Dist-Keonjhar as per prevailing guidelines/rules of DoWR. Any additional infrastructure that may be required to allocate the stated quantity of water, a joint review will be made with Sree Metaliks Limited in consultation with DoWR and Industries Dept. The committee may look into the possibility of setting of in-stream storage facility/barrage, any other arrangement, as the need may be.

Thanking you.

Yours faithfully

Sd/-

(K.C.Mohanty)
ED
dt. 21.02.2023

Memo no._____

Office of Engineer in Chief, Water Resource, Secha Sadan Bhawan, Bhubaneswar/ Chief Engineer, Water Services, Secha Sadan Bhawan, Bhubaneswar / Superintending Engineer, Planning Section, Secha Sadan Bhawan, Bhubaneswar & Member (SLFC), IPICOL for kind information and necessary action.

Sd/-

ED

Memo no. 521

dt. 21.02.2023

Managing Director, M/s. Sree Metaliks Limited, SML House, Main Road, Barbil, Keonjhar-758035 for information and necessary action.

ED 21/02/2023

SREE METALIKS LTD.

NALLA CONSERVATION
& MANAGEMENT PLAN
OF

1.0 MTPA IRON ORE BENIFICATION&
1.2 MTPA PELLETIZATION COMPLEX
AT
Village- Anra, Dist- Keonjhar, Odisha

SEPT., 2022

Executive Summary

1. Sree Metaliks Limited (SML) incorporated in the year 1995, is a pioneer industrial house having interest in sponge iron, steel, power and iron ore mining having their Registered Office at Kolkata and Head Office at Barbil in Odisha State. SML has got the certification for ISO9001:2000 for Quality Management System and ISO140001:2004 for Environment Management System for its Integrated Steel Plant Operation.

2. Since inception, Sree Metaliks has grown to a multi-product manufacturing unit starting from manufacturing Sponge Iron to Steel to Rolling products.

3. SML has set up its manufacturing units in Loidapada & Anra, close to its Iron Ore Mines at Khanbandh, situated in Keonjhar District, Odisha. SML had obtained prior Environmental Clearance for setting up of an Integrated Steel Plant at Village Anra of Keonjhar district in Odisha vides F. No. J- 11011/192/2008-IA. II(I),Dated 13/07/2009.

4. The cost of the proposed Project profile (1.0 MTPA Beneficiation Plant and 1.2 Pelletization Plant) is Rs.286.00 Crore.

5. The Nala Conservation and Management Plan of proposed project complex at Anra has been prepared to meet the requirement of detailed management plan / Conservation plan to ensure that water bodies in study area have not to be disturbed (due to proposedproject).

   [Reference : EAC Minutes - 12th meeting of the EAC for Industry -I sector h*eld on 30-31st August 2022, Sl No.. 12.7.19, page No. 165 of 265; ADS* dated 12.09.2022]

6. Baitarani River, Bamuni Nallah, Jagadala Nallah, Chemda Nallah, Kadal Nallah, Patarpagi Nallah , Malda river lies within the 10 km radius buffer zone of Sree Metaliks Ltd Proposed 1 MTPA Iron ore Benification and 1.2 MTPA Pellet Plant at Anara, in Keonjhar Dist, Odisha state.

   The location of nalas and river from the proposed plant area is as follows:

   - Baitarani river - 6.14 km (NW Direction)
   - Bamuni nala – 50 m (flowing adjacent to plant boundary)
   - Jagadala nala – 5.45 km (NE Direction)
   - Chemda nala – 6.83 km (S Direction)
   - Kadal nala – 7.08 km (ENE Direction)
   - Patarpagi nala – 0.59 km (SSE Direction) joins Bamuni nala (tributary)
   - Malda river – 9.14 km (NW)

7. Since all the following streams, except Bamuni nala are far away from the proposed project, it is unlikely to have any project related impact on the eco system of the water bodies.

8. Bamuni nala which is flowing adjacent to the boundary for proposed plant needs

proper attention and requires a detail study on any possible adverse impact of project and further requires a proper management / conservation plan to mitigate the adversity if any.

9. A detail hydrology study of a Bamuni nala catchment has been made with maximum flood computation and a preventive measure of construction of earthen embankment of 2m highin the bank of Bamuni Nallah (within project Boundary) has been proposed to prevent flood water entry into the plant area . It will also arrest any accidental flow of storm water from plant area into bamuni nala. Vertiver grass will be planted beyond the embankmentto restrict soil erosion.

10. 100 year chance flood for Bamuni nala is computed as 249 cumecs. With the existing natural regime section of the river, the depth of flow is likely comes to 3.2m. The HFL of river with 100 year chance flood computed to be 523.5.

Since the plant lease area level is above 524m there is no likely hood of entry of flood water into the plant premises.

Mitigative Measures have provided both in Core Zone (Area within plant Boundary and Zone of Impact / Buffer Zone). This Management plan has addressed all the remedial measures to minimize the adversities as detailed below :

11. Proposed Mitigating Measures for Core Zone.

11.1 2m High embankment at the outer periphery of the plant boundary along the Bamuni nala will be constructed to arrest accidental flow of storm water from plant area into Bamuni Nala and to prevent flood water entry to plant . Vertiver grass will be planted beyond the embankment to restrict soil errosion. An estimated amount of Rs 30, 00,000.00 (Rupees Thirty Lakh) will be spent by the Project Proponent for the purpose.

11.2 The Maximum daily rain fall is computed to be 180 mm (considering 20 years daily rain falldata). The maximum probable storm water from the plant area is 87 KLD.

It is proposed to construct a pond in 2.5 acres (1 ha area) in northwest corner within plant Boundary for storage of Storm water which shall be reused / released after sedimentation of 24 hours.

The storm water from the plant lease area shall be taken by planned/designated drainage network tosettling tank as such no sediment will be allowed to flow outside of the plant.

A reservoir in NW corner of project area will be constructed in 1.0 Ha Area (2.5 Acre) to hold rain / stormwater for 24 Hrs. with an estimated cost of Rs 18.49 Lakh to enable settlement of sediments.

11.3 The plant is designed with zero discharge and there will not be any waste water flowing outsideto pollute any water body.

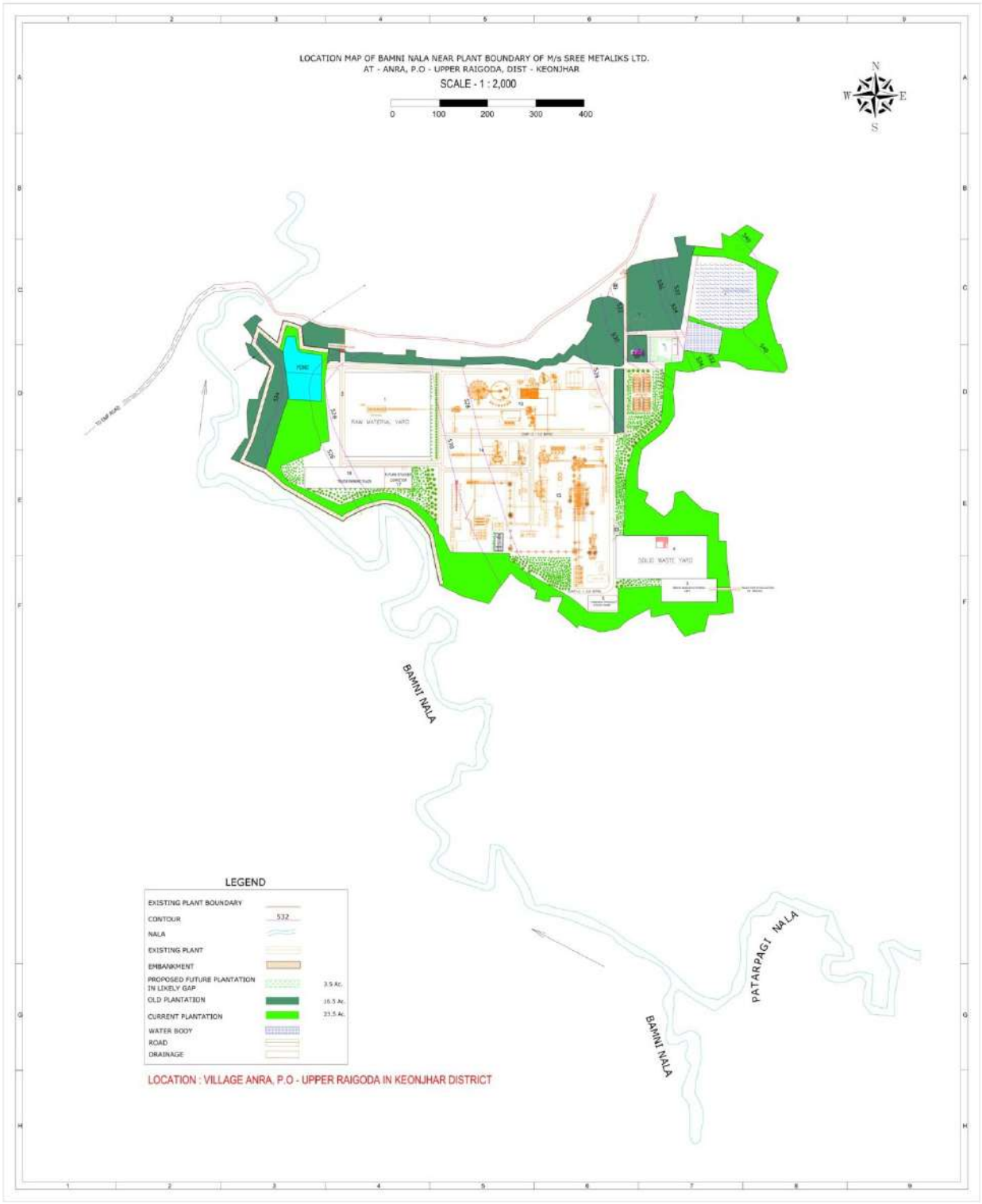
1.0 INTRODUCTION

M/s Sree Metaliks Limited is a pioneer industrial House engaged in sponge iron, steel, power production and iron ore mining having their Registered Office at Kolkata and Head Office at Barbil in Odisha State. Sree Metaliks Limited has got the certification for ISO 9001:2000 for Quality Management System and ISO 140001:2004 for Environment Management System for its Integrated Steel Plant Operation. Presently Sree Metaliks has grown to a multi- product manufacturing unit starting from manufacturing Sponge Iron to Steel to Rolling products. This is the expansion project of 1 MTPA Iron ore Beneficiation Plant and 0.6 MTPA Pelletization plant along with the existing 0.6 MTPA pelletization Plant at Village – Anra, Tehsil – Telkoi, Dist – Keonjhar,Odisha. Major raw material and fuel requirement for project will be various grades of iron ore (captive /other mines). Other raw materials required are coal, limestone, dolomite, bentonite and semi finished products.

2.0 LOCATION

The proposed plant is expansion of M/s Sree Metaliks Limited situated at Anra village, Keonjhar district of Odisha. The geographical co-ordinates of proposed plant are Latitude 21° 41' 11.257" to 21° 41' 9.614" North and Longitude 85° 25' 48.499" to 85° 26' 0.979" East. The study area comes in Survey of India OSM Nos. F45N5, F45N6, F45H9 & F45N10. The project site is well connected to AH- 46 (AsianHighway-46) at a distance of 11.5 km in south east direction. Nearest Railway Station is Goaldihi Railway Station at about 11.7 km in WNW direction and nearest airport is Rourkela Airport, at almost 89 km of distance in NW direction. In this study the project area has been referred to as the “core zone” and the area upto 10 km radius of the plant site has been referred as the “buffer zone”.

The topography of the plant area is flat and the slope is towards the North West direction. The elevation of the Existing site is varies from 524m to 533m AMSL. The average elevation is 530m AMSL. A location map of project site has been shown below.


LOCATION MAP OF BAMNI NALA NEAR PLANT BOUNDARY OF M/s SREE METALIKS LTD.
AT - ANRA, P.O - UPPER RAIGODA, DIST - KEONJHAR
SCALE - 1 : 2,000
0
100
200
300
400
N
W
E
S
BAMNI NALA
PATARPAGI NALA
BAMNI NALA
LEGEND
EXISTING PLANT BOUNDARY
CONTOUR
532
NALA
EXISTING PLANT
EMBANKMENT
PROPOSED FUTURE PLANTATION IN LIKELY GAP
3.5 Ac.
OLD PLANTATION
16.5 Ac.
CURRENT PLANTATION
33.5 Ac.
WATER BODY
ROAD
DRAINAGE
LOCATION : VILLAGE ANRA, P.O - UPPER RAIGODA IN KEONJHAR DISTRICT

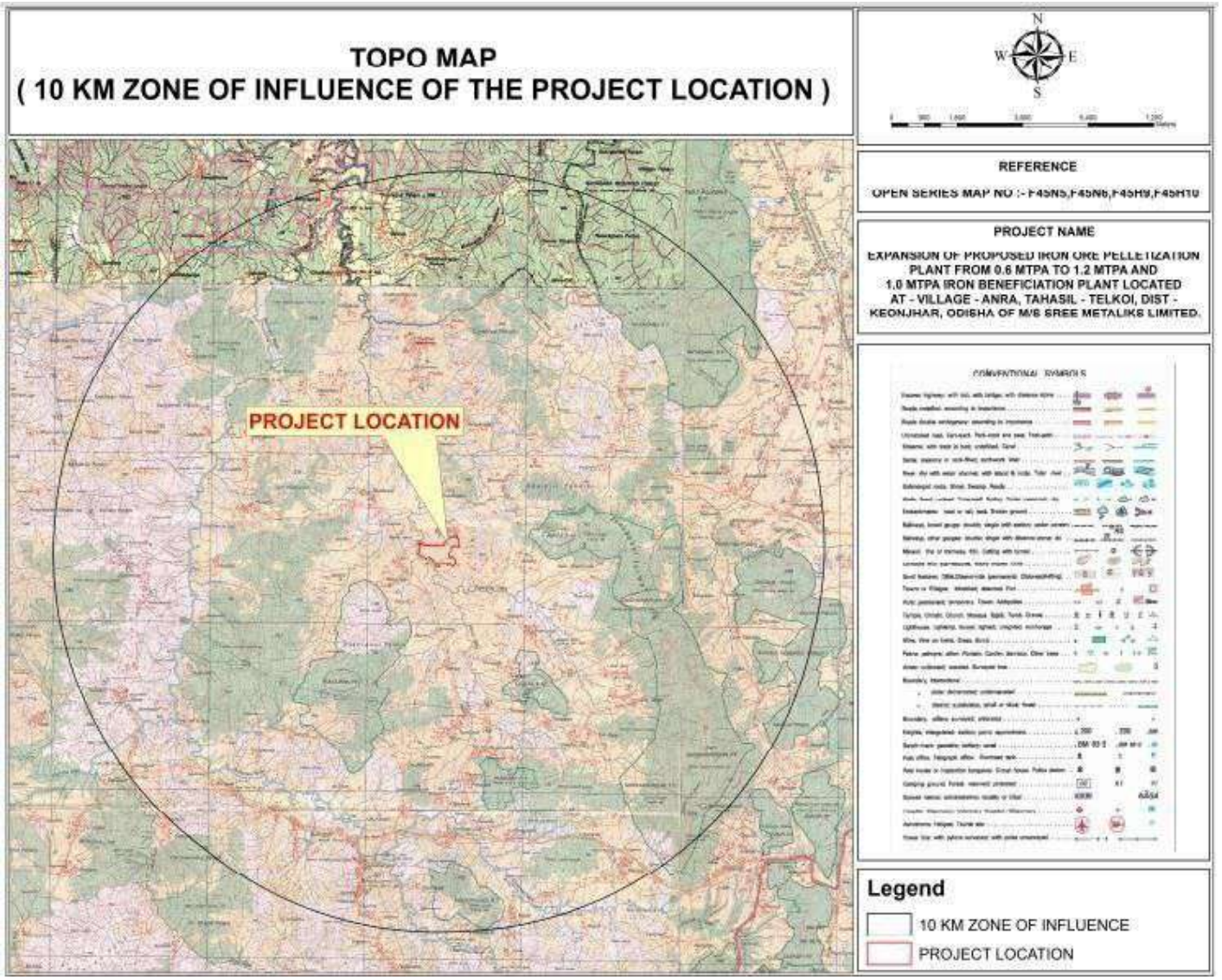


Fig. No. 1.1: Location map of Project site

3. NATURAL DRAINAGE

The study area is drained by a number of streams of different order. This area is mainly drained by the river Baitarani and its tributaries. It comes under Biatarani river basin.

The major drainage within the 10km buffer zone of project site is Baitarani River at almost 6.14Km distance in western part of buffer area. Major portion of the study area is drained by a number of sub-parallel drainage, which ultimately joins Baitarani River are Bamni nala, Chamda nala, Kadal Nala, Jagdhala Nalla and Patarpagi Nalla. These all are the distributaries of Baitarani River perennial in nature. The Bamni nala flows adjacent to western side plant boundary. The flow direction of Bamni nala is from south to north. It joins with river Baitarani in north- North West direction of plant at almost 9km of distance. Chamda nala flows at about 7 km away in south direction from plant. The Patarpagi Nalla flows at about 1.2 km away in south east direction of plant site and joins with Bamni nala at 1 km distance in south. The natural drainage pattern is dendritic in nature around the project site. A map of natural drainage channel is shown below.

The project area forms a part of Bamani Nala watershed. The maximum & minimum elevation of core zone is 568 and 524 m above mean sea level. Bamani Nala forms the main drainage of the project area and forms the south western boundary of the project. The Nala flows North West ward, draining the storm water from the south and southeastern high land, finally joins in Baitarani River.

The structural hills cover a significant portion of the study area in the south eastern and western parts. Except the hills in the eastern half and the western border, around 57% of the study area depict land surface slope of<5%, another 13% of area show surface slope of <10%. From map medium slope show ranges 10-20%, high slope from 20-40% and very high surface slope show >40%.

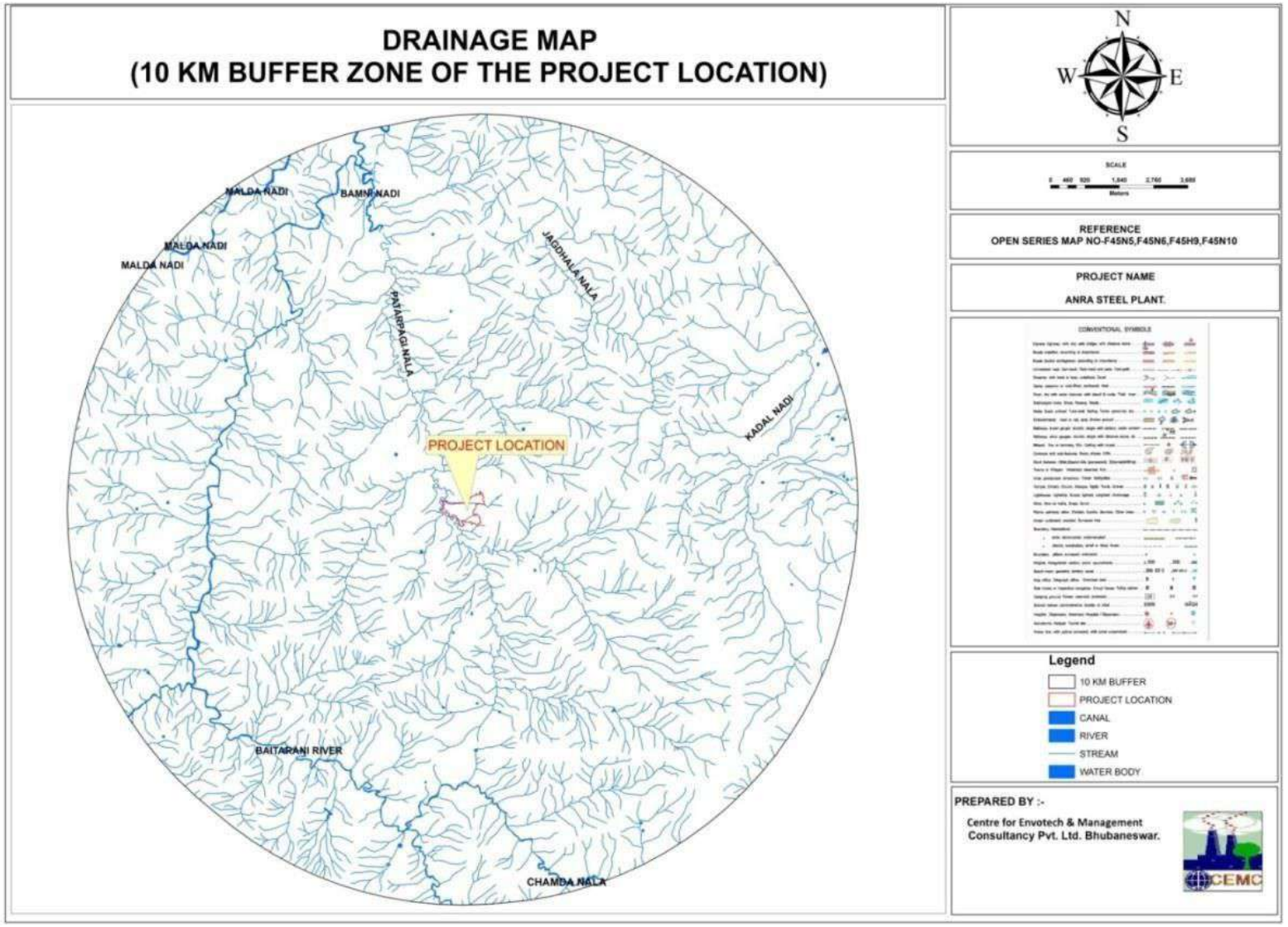


Fig. **No. 1.2: Natural Drainage Channel**

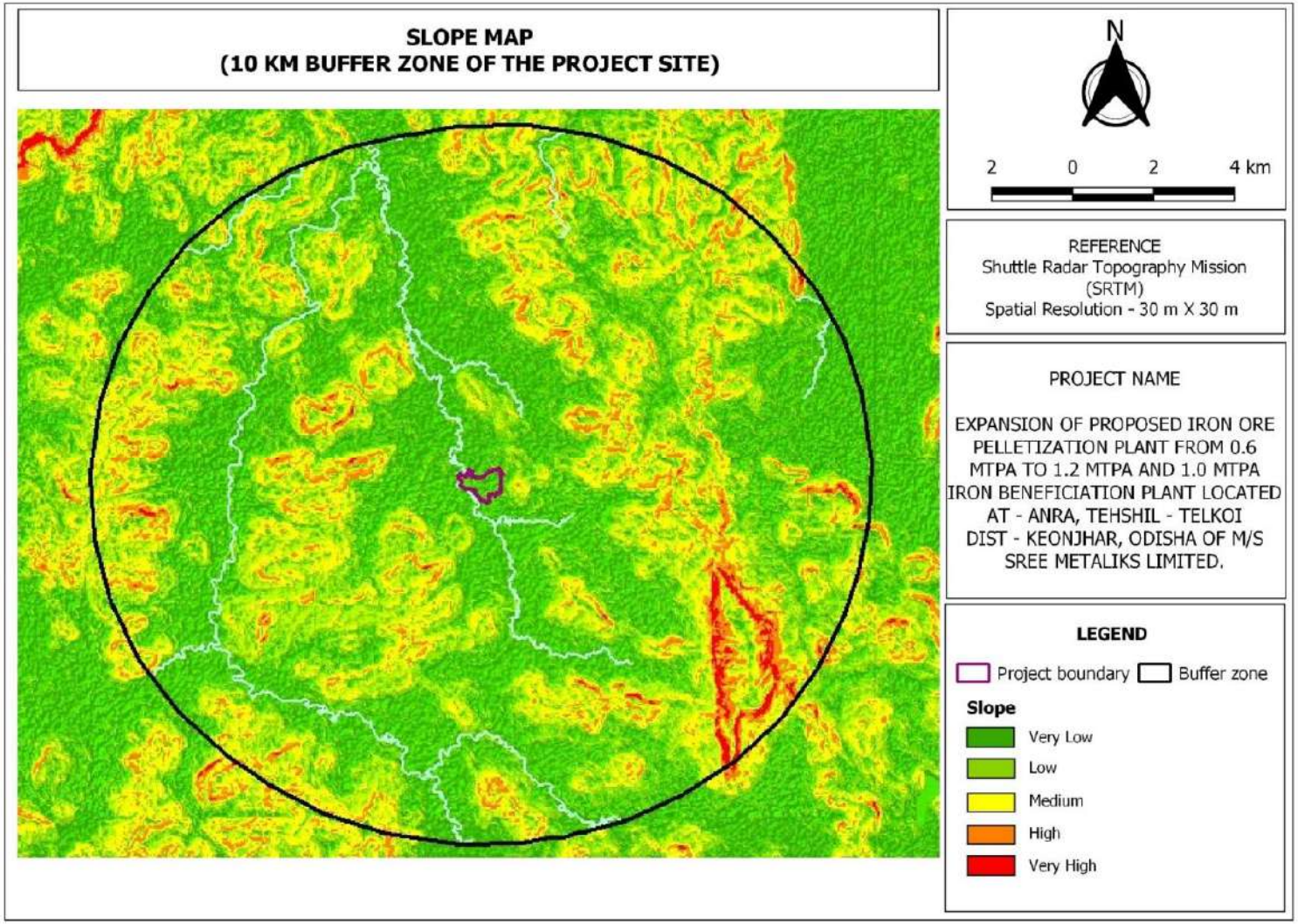


Fig. No. 1.3: Slope map

4. METHODOLOGY OF APPROACH

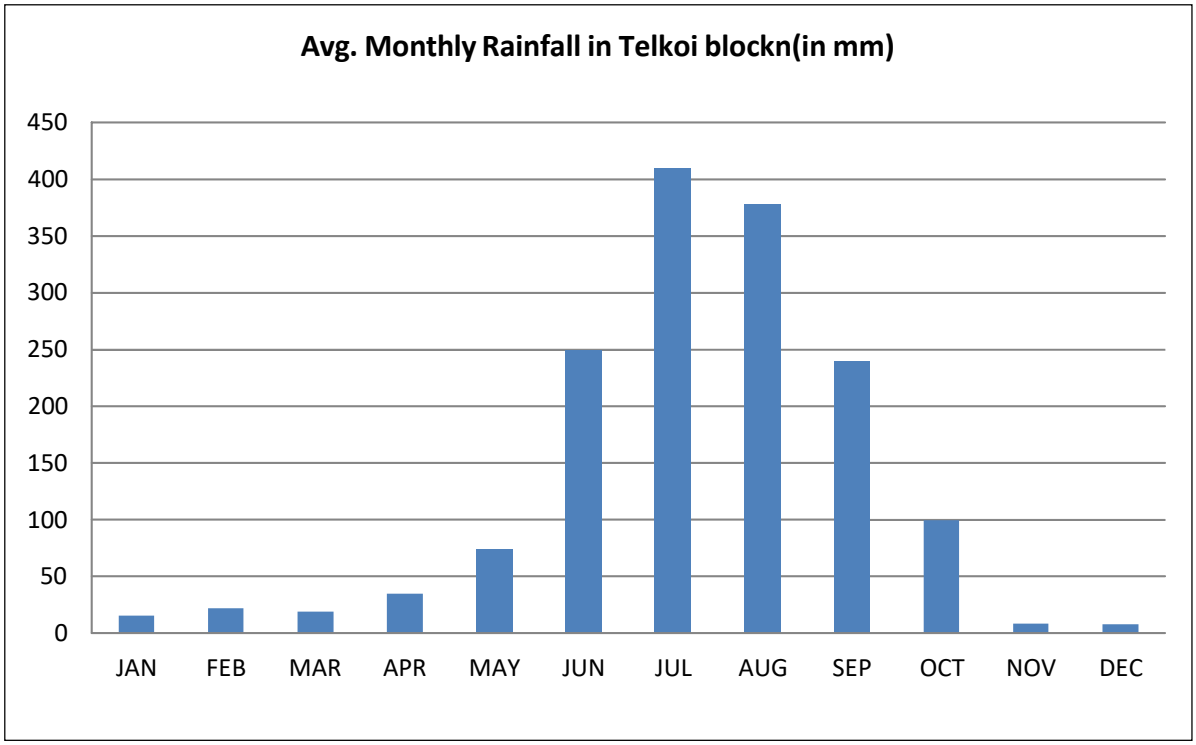
1. The study will comprise of collection of hydrological data includingrainfall and analysis of storm water flows, factors responsible for generation of run off; infiltration rate, the climatic condition and rainfall pattern as depicted above.
2. Rainfall analysis to identify flood frequency and magnitude.
3. Estimation of storm water generation
4. Drainage study of entire Bamani nallah watershed using topographical map shall be carried out to have a general picture of morphology of the area.
5. Analysis and preventive measures to be taken for Storm Water Management in Project area.

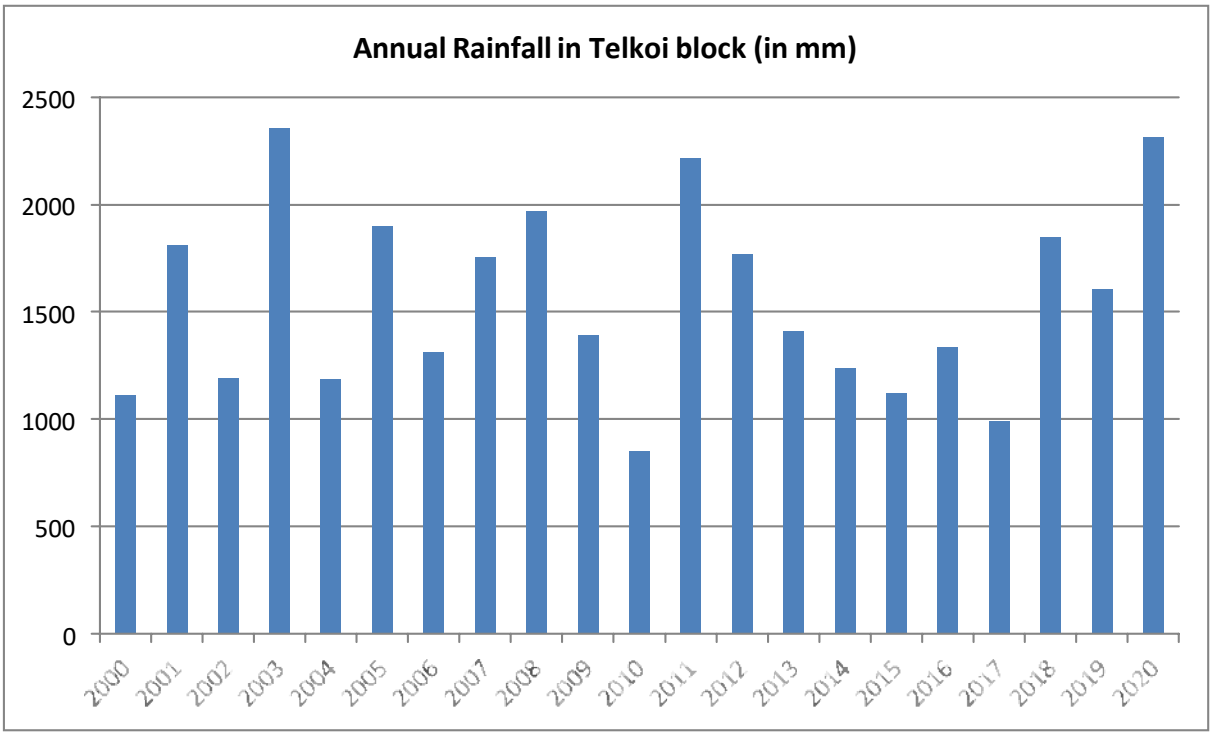
5. CLIMATE AND RAINFALL

The area experiences subtropical climate with hot & dry summer well distributed rainfall during monsoon period and cold winter season. The nearest meteorological observatory of IMD is located at Angul / Bhubaneswar & rainfall data of 20 years is available for Telkoi Block rain gauge station. The available month wise rainfall data is given below which shows larger parts of annual rainfall occurs between June to September every year. The monthly variation of rainfall has been graphically represented.

The review of hourly data indicates maximum rain fall value of 89.5mm and two hourly values as 119.3mm. The heaviest 24 hours rainfall at Telkoi is 257.8mm as pre records.

Month wise Rainfall Data for Telkoi Block Rain Gauge Station													
YEAR	**JAN**	**FEB**	**MAR**	**APR**	**MAY**	**JUN**	**JUL**	**AUG**	**SEP**	**OCT**	**NOV**	**DEC**	**TOTAL**
2000	0	31	0	10.6	110.6	273.4	267.4	152.2	186.2	57.8	22.8	0	1112
2001	0	0	77.6	35.4	41	175.4	803	427	120	133	0	0	1812.4
2002	18	0	5	4.4	61	190	122	501	250.6	39	0	0	1191
2003	0	17	35	35.5	34.8	514.8	653.4	477	300.7	262.8	7	17	2355
2004	0	0	0	92	30	125.6	306.2	361.8	135.6	132	0	0	1183.2
2005	0	0	47	25	115	595	585.3	163.3	97.5	272.6	0	0	1900.7
2006	0	0	0	1	130.4	144.3	320.4	484.7	198.8	15.4	17.6	0	1312.6
2007	11.2	90.2	8.8	19	119.8	294	447.2	337.1	359	62.9	3	0	1752.2
2008	27	0	0	13	36	591	493	342	455	15	0	0	1972
2009	0	0	0	0	154	91.8	700.1	252	64	84	47	0	1392.9
2010	0	0	4	28	68	36	145	315	163.2	74	0	19	852.2
2011	0	20	2	86.2	92	477	363	367.5	767	41	0	0	2215.7
2012	158	10	0	2.9	2	204.5	428.6	499.1	335.7	76.4	51	0	1768.2
2013	12.2	0	17	36	27.3	159.8	402.7	198.8	275.7	278.4	0	0	1407.9
2014	0	89.5	12	5	36	67.4	484	310.8	181	52	0	0	1237.7
2015	67	14.4	5	51.2	131	230.8	314.3	155.5	57.5	22.5	0	73.5	1122.7
2016	4	51.1	59.7	0	43	152.7	306	509.6	81.6	110.9	17.1	0	1335.7
2017	0	0	38.6	16.4	65.6	143.3	268.4	170.3	158.2	123.7	5.6	0	990.1
2018	0	0	0	97.6	91.4	185.9	579.7	539.5	243.5	66.4	0	45.5	1849.5
2019	0	43.6	49.3	54.4	23.1	113.6	387.7	363.2	463.8	101.8	0	7.4	1607.9
2020	28.4	88.1	30.6	119.9	131.1	467.4	216.8	1018	146.6	65.8	0	0	2312.7
Avg.	**15.5**	**21.6**	**18.6**	**34.9**	**73.4**	**249.2**	**409.2**	**378.3**	**240.0**	**99.4**	**8.14**	**7.7**	**1556.3**


Avg. Monthly Rainfall in Telkoi blockn(in mm)
450
400
350
300
250
200
150
100
50
0
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC


Annual Rainfall in Telkoi block (in mm)
2500
2000
1500
1000
500
0
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020

FLOODING SCENARIO:

Based on the study it has been found that the total catchment area of Bamuni Nala spreads over 66.36 Sq. KM and it has been suggested that HFL of river with 100 year chance flood computed to be 523.5m.

Since the plant area level is above 524m there is no likely hood of entry of flood water into the plant premises.

However, considering the safety factor, It is proposed to construct a 2m high embankment along the bank of Bamni nala as a protection measure for any probability of flood water entry into the project lease area.

Stream pattern

The combined effect of climate and geology on catchment topography yields an erosion pattern which is characterized by network of channel or stream. The stream pattern gives an idea of characteristic of formation present in the study area. The catchment of all three nallas represents a dendritic or tree like drainage pattern. Such a pattern represents homogeneous character of formation over the entire catchment. When the variation in resistance to flow are found more or less same, then resulting the stream run in all direction with no definite preference of particular direction.

Stream order

The stream order is a classification reflecting the degree of branching bifurcation of stream channel with in the basin. The smallest fingertip tributary is given order 1. When two order 1 tributaries join each other, order 2 stream commences. Higher order stream develops in same fashion. The trunk of stream though which the entire discharges passes becomes the stream of highest order in a particular catchment. The length and number of each order of stream has been worked out and given in Table.

Table -Drainage Analysis

Order of stream	Length of stream (km) Bamani nala
1	4.598
2	8.2
Total	12.798
Area	5.023
Drainage density	2.5478

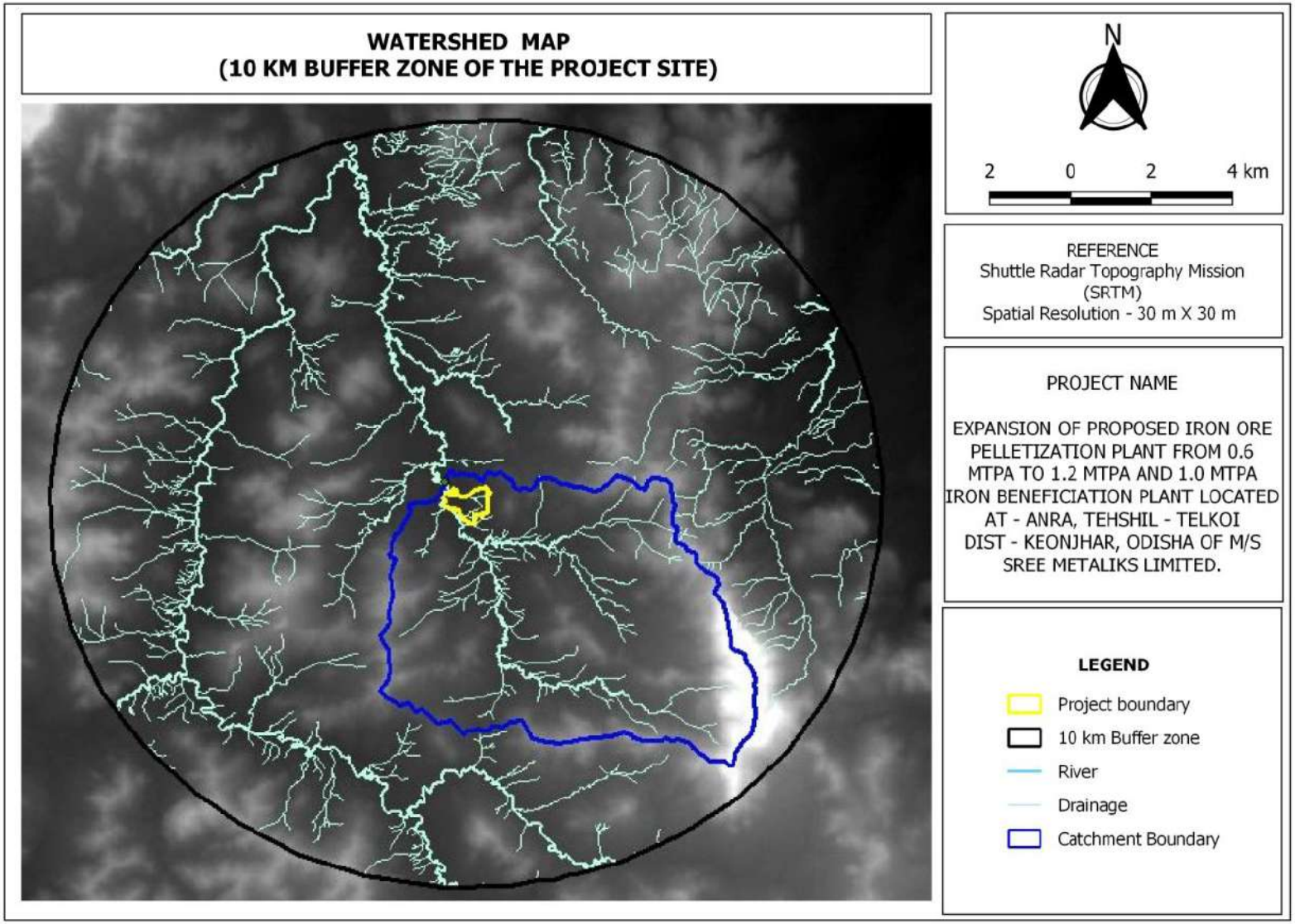


Fig. No. 1.4: Catchment Map

6. STORM WATER MANAGEMENT (Plant Area)

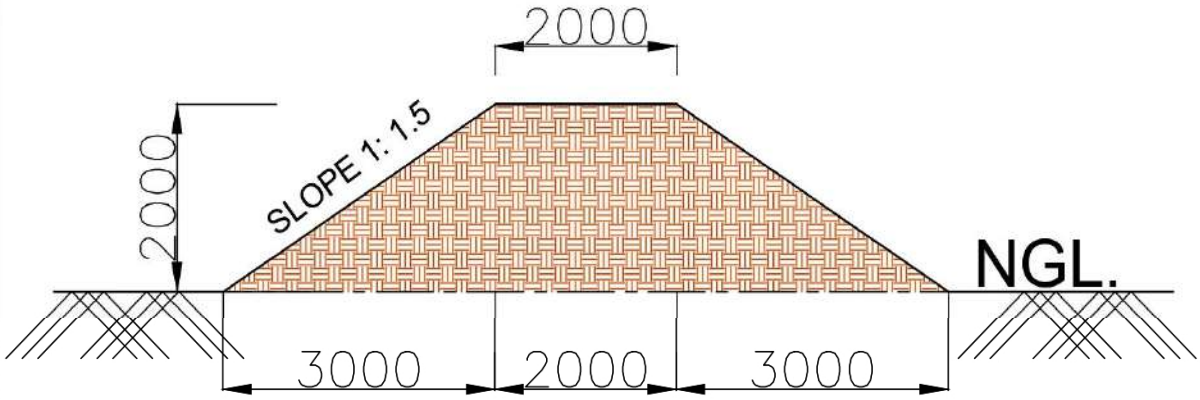
The maximum daily rainfall is computed to be 180mm (considering 20 years daily rainfall data). The maximum probable storm water computation for the plant area has been suggested 87KLD. It is proposed to construct a pond of 2.5 acres for storage of the storm water which shall be released after sedimentation of 24 hours.

A proper drainage network is planned to collect the storm water to avoid any flooding of plant area, which ultimately shall be processed through a settling tank before discharging outside.

7. CONSTRUCTION OF EMBANKMENT & POND

SL NO.	**DESCRIPTION**	**AMOUNT**
1.	Embankment Area Earth Filling , Levelling, Dressing , Slope Making , Rolling & Water Compection (1200 Mtr)	3000000.00
2.	Construction of Pond	1849000.00
		4849000.00

PRODUCED BY AN AUTODESK STUDENT VERSION



SECTION OF EMBANKMENT
1200 Mtr. LONG.

M/S SREE METALIKS LIMITED
ANRA, KEONJHAR

Annexure-5

NALLA MANAGEMENT

ANNEX-1: Shree Metaliks Periphery Development Project Financial Outlay							%age Share		
							33%	63%	3%
SL NO	Village	Particulars	Unit	Quantity	Price	Expenditure	Shree Metaliks	MGNREGA	Beneficiary contribution
1	**Infrastructure Development & NRM Activities**								
1.1	Upar Raiguda	Avenue Plantation	KM	2.5	360000	900000		900000	
		Kitchen Garden	No	100	500	50000	35000		15000
		Masonary canal rennovation	No	1	100000	100000		100000	
		Well Rennovation	No	2	50000	100000		100000	
	Total					**1150000**			
1.2	Balibeda	Drinking Water supply	No	1	400000	400000	360000		40000
		Well Rennovation	No	2	50000	100000		100000	
		Recharge Pits	No	40	5000	200000		200000	
		Kitchen Garden	No	100	500	50000	35000		15000
		Avenue Plantation	KM	2.5	360000	900000		900000	
		Earthen Chanal	No	1	100000	100000		100000	
	Total					**1750000**			
1.3	Sankriposi	Drinking Water supply	No	1	400000	400000	360000		40000
		Land levelling	Ha	2	430000	860000		860000	
		Kitchen Garden	No	100	500	50000	35000		15000
		Well	No	1	120000	120000		120000	
		Avenue Plantation	KM	2.5	360000	900000		900000	
	Total					**2330000**			
1.4	Amuni	Drinking Water supply	No	1	400000	400000	360000		40000
		Farm Pond	No	4	150000	600000		600000	
		Well	No	1	120000	120000		120000	
		WAT	Ha	2	134000	268000		268000	

		Bio Gas Plant	No	3	60000	180000	10000	48000	2000
		SCT	Ha	3	112000	336000		336000	
		Kitchen Garden	No	100	500	50000	35000		15000
	Total					**1954000**			
1.5	Anra	Drinking Water Supply	No	2	400000	800000	720000		80000
		Kitchen Garden	No	100	500	50000	35000		15000
	Total					**850000**			
	Grand Total (Infrastructure Development & NRM)					**8034000**	1985000	5652000	277000
2	**Capacity Building through Training (20 Participants)**	Training & Capacity Building	No	15	8000	**120000**	120000		
3	**Management Cost**					**815400**	815400		
4	**Total Project Cost**					**₹ 8,969,400.00**	**2920400**	**5652000**	**277000**

Annexure- 7

CSR		
YEAR		
2010-17	01. Rahas Mandap at Anra Village.	20,00,000.00
	02. Pond renovation at Anra Village.	8,00,000.00
	03. Club at Anra	4,00,000.00
2017-18	01. Construction of community Center at Sankaraposi village.	2,50,000.00
	02. Road repairing from Raigoda to Anra.	2,00,000.00
2018-19	01. Road repairing from Kaliapal to Andhari Khamana village.	40,000.00
	02. Canal Bridge repairing at Kumundi village under Kumundi G.P.	1,40,000.00
	03. Road repairing from Dumuridihi to Kumundi village under Kumundi G.P.	45,000.00
	04. Providing Road barricates at Phuljhar school, chhelibeda village, Dudhposi village, Raigoda village, Kumundi village, Dumurdihi village.	60,000.00
	05. Culvert repairing at Binida village under Upper Raigoda G.P.	40,000.00
	06. Salary for one school teacher provided in Anra UP School	72,000.00
2019-20	01. Drinking water supply system to Anra village under upper Raigoda G.P.	15,00,000.00
	02. Road repairing near Kusumita village.	30,000.00
	03. Road repairing from Dumuridihi to Kumundi village under Kumundi G.P.	1,60,000.00
	04. Road repairing from Raigoda to Anra village.	1,40,000.00
	05. Salary for one school teacher in Anra UP School	72,000.00
	06. Salary for one Science teacher provided in Anra UG High School.	56,000.00
	07. Drinking water supply in Raigoda village (Bore well. Pump etc).	4,00,000.00
2020-21	01. Towards salary of one teacher at Anra UP School	72,000.00
	02. Towards salary of one science teacher at Anra UG High School	84,000.00
	03. Construction of Mandap at Raigoda village	10,00,000.00
	04. Construction of Concrete Road from Raigoda chowk.	36,51,659.00
2021-22	01. Civil work in Saraswati Shisu Mandir , Anra	1,22,468.00
	02. Construction of Mandap for Goddess at Anra village.	3,78,180.00
	03. Towards salary of one teacher at Anra UP School	1,08,900.00
	04. Towards salary of one teacher at Anra UG High School	84,000.00
	01. Shiv Temple front Portico at Dudhposi	1,80,000.00

2022-2023	02. Bisri Puja Temple (RCC Construction) at Anra	9,78,000.00
	03. Culvert over Brahamani Nal at Anra	15,50,000.00
	04. Plaa Mandap on Main Road side at Dudhposi	2,11,000.00
	05. High School Boundary (ront side) at Anra	8,73,473.00
	06. Drinking supply through Tanker at Raigoda to Sankaraposi via Anra	1,20,000.00
	07. Drinking water supply through Pipe line at Anra	3,77,000.00
	08. Kirtan Mandap Colouring at Raigoda	70,818.00
	09. Bisri Puja Temple (RCC Construction) at Binida	8,30,931.00
	10. Donation towards various sports and cultural functions at Fuljhar, Balideda, Raigoda, Anra. Binida, sankaraposi, etc.	7,40,000.00
	TOTAL	1,78,37,429

Photos of CSR Activities


Shankraposhi Village
Club House


Binida Village
Maa Mangala Temple


Beldisahi,Urmunda Village
Maa Durga Temple


Beldisahi,Urmunda Village
Maa Durga Temple


Bisri Puja Mandap
Village: Upper Raigoda


Drinking water supply
Village : Raigoda


Dudhpasi Village
Puja Mandap


Dudhpashi Village
Lord shiva Temple


Anra Village
Maa Bisri Temple


Dudhposhi Village Road reparing work
By Sree Metaliks Limited


Fuljhar to Anra village
road repairing work


Raiguda to Fuljhar village
Road construction work


Village Raiguda Approaching Road

Annexure-8

PLANTATION

Annexure-9

GREEING & PAVING


SETTLING POND


RAIN WATER HARVESTING-2


RAIN WATER HARVESTING-1

Annexure-11

Roof-to Rain Water Harvesting

EHS 360 LABS

TC-9583

TEST REPORT

Report No	EHS360/TR/2023-24/001	**Report Date**	28.08.2023
Issued To	***M/s Sree Metaliks Ltd,*** Anra, Upper Raigoda, Banspal Dist-Keonjhar,Odisha.		
Customer Name	***M/s Sree Metaliks Ltd,***		
Sampling Method	IS 5182	**Sample Drawn by**	Laboratory
Sample Description	Personal Dust Sampling	**Sample Code**	EHS360/001
Sampling Location	Near PCI	**Sample Condition**	Good
Date of Sampling	24.08.2023		

Name of the Employee : Rajendra Dehuri
Designation : Operator
Age : 34 Years
Date of Sampling : 24.08.2023
Sampling Time : 8 Hrs

Dust Collected (mg)	Dust Concentration (mg/m^3)	Free Silica (%)
0.94	0.78	0.64

**********End of Report**********

EHS360 LABS PRIVATE LIMITED CHENNAI 600 083

Verified by

Authorised Signatory

Name : Santhosh Kumar A
Designation : Quality Manager

E : info@ehs360labs.com
W : ehs360labs.com
10/2, Ground Floor, 50th Street, 7th Avenue
Ashok Nagar, Chennai - 600083

Annexure-13

STP

Annexure-14

Vacuum Cleaner

Annexure-15

COMPLIANCE STATUS OF ISSUES AND DEMAND RAISED BY THE PUBLIC AND COMMITMENT OF THE PROJECT PROPONENT M/s SREE METALIKS LTD. DURING THE PUBLIC HEARING MEETING HELD ON 20.02.2009

ISSUES RAISED BY THE OUBLIC	COMMITMENT OF THE PROJECT PROPONENT	COMPLIANCE STATUS
Health	The Company has organised regular health camp in the past and will continue it in future.	Health Camps have been organised by the Company in regular intervals. We are planning to conduct health camps at least once in every year for the benefit of local people.
	It will set up a dispensary near the factory premises with the provision for treatment of local people through a qualified Doctor along with Ambulance facility.	Ambulance facility is provided to all local people whenever necessary. We have two ambulance vehicles for the purpose. All preliminary works for setting up a dispensary is complete with an estimated cost of Approx. 28.0 Lakh.
	Together with the Govt. Agencies they will conduct Malaria Eradication programmes in the locality.	We have extended all possible cooperation for Malaria eradication programmes undertaken by Health Department. We also do fogging at times to get rid of mosquitoes and awareness in the locality.
Road & Infrastructure Development	In consortium with other upcoming industrial units and the Government Machinery, the Company will facilitate construction of roads like Rangdihi-Kumundi-raigoda-Phulijhar-Malda and Anra-Sankaraposi-Raisuan.	Road from Rangdihi to Malda have been constructed and Anra-Sankaraposi-Raisuan road construction is under process (70% complete). We have, so far, spent Rs.42.67 Lakh towards road maintenance & construction of concrete road.
	Besides the existing culvert over Bamuni Nala, a larger bridge is planned to be constructed in the near future to facilitate movement of heavy traffic.	Our Company is taking care of the existing bridge over BamuniNala by regular maintenance. Soil Test for construction of a larger bridge has been completed. Discussions have been made with R.D. Department for approval of construction of the bridge.
	In view of bleak power situation in Palaspanga Grid, the Company has already taken the lead in	Except Ardent Steels Limited all other upcoming industrial units have postponed setting up their

	construction of a new 220/132 KV Grid Sub-station at Nuagaon jointly with other six upcoming industrial units with an investment of Rs.50 Crore.	plants. Hence, construction of a new 220/132 KV Grid Sub-station could not be materialised as yet.
Education	The Company will take appropriate steps to improve the infrastructure and standard of the village schools in phases	All possible steps has been taken for development of infrastructure like civil works of school buildings, playground development, providing teachers, helping in organising sports & cultural events, exhibitions, etc. We have spent Rs. 7.16 Lakh towards civil works and salary of school teachers.
Communication	SML has already taken steps to set up a BSNL Tower for transmission and provide tele-communication facilities for the locality, the job is under progress.	One BSNL Tower as well as a Reliance Jio Tower has been installed to enhance communication facilities.
Skill Up-gradation of local youths and employment	The Company has already sponsored 18 boys for ITI training in various trades. SML assured that as per the requirement of the industry, selected candidates will be sponsored for various training programmes in future. Till date 400 people are already engaged in the construction activities. As per the schedule of implementation of the project, the people will be provided with suitable employment opportunities based upon their qualification, skill and experience. Huge skilled manpower is required for the project for which priority will be given to the candidates from Keonjhar District.	Sponsorships and encouragements made for skill development of local youths. So far 02 youths have been qualified as Degree Engineers, 09 youths as Diploma Engineers and 35 youths as ITI holders in various trades. Based on the skill, qualification and experience, employment opportunities have been to local persons. As on today, more than 80% of the work force belongs to Keonjhar District. Priority of employment is given to local people.

Sl. No.	Issues	Commitment	Expenditure (Rs.)		Remark
			Capital	Recurring	
1.	**Health**	• The Company has organised regular health camp in the past and will continue it in future. • It will set up a dispensary near the factory premises with the provision for treatment of local people through a qualified Doctor along with Ambulance facility. • Together with the Govt. Agencies they will conduct Malaria Eradication programmes in the locality.	27,71,147.00	15,00,000	
2.	**Road & Infrastructure**	• In consortium with other upcoming industrial units and the Government Machinery, the Company will facilitate construction of roads like Rangdihi-Kumundi-raigoda-Phulijhar-Malda and Anra-Sankaraposi-Raisuan. • Besides the existing culvert over BamuniNala, a larger bridge is planned to be constructed in the near future to facilitate movement of heavy traffic. • In view of bleak power situation in Palaspanga Grid, the Company has already taken the lead in construction of a new 220/132 KV Grid Sub-station at Nuagaon jointly with other six upcoming industrial units with an investment of Rs.50 Crore.	58,96,659.00	0	
3	**Education**	• The Company will take appropriate steps to improve the infrastructure and standard of the village schools in phases	2,22,468.00	5,48,900.00	
4	**Religious**	• The company will build Mandap in Anra, Raigoda and Binida village.	43,78,180.00		
5	**Skill Up-gradation of local youths and employment**	• The Company has already sponsored 18 boys for ITI training in various trades. SML assured that as per the requirement of the industry, selected candidates will be sponsored for various training programmes in future. Till date 400 people are already engaged in the construction activities. As per the schedule of implementation of the project, the people will be provided with suitable employment opportunities based upon their qualification, skill and experience. Huge skilled		13,68,000.00	

		manpower is required for the project for which priority will be given to the candidates from Keonjhar District			
			1,33,28,454.00	34,16,900.00	

Annexure-16

OFFICE OF THE DIVISIONAL FOREST OFFICER, KEONJHAR DIVISION

Phone No- 06766-254315, email ID- dfo.keonjhar@odisha.gov.in

No. 1461 /Mining-
Dated, Keonjhar, the 14 - 02 -2023

To

The Authorized Signatory,
M/s Sree Metaliks Limited
SML House, Main Road,
PO- Barbil, Keonjhar- 758035

Sub: Submission of revised Site Specific Conservation Plan in respect of M/s Sree Metaliks Limited for expansion of proposed Iron Ore pelletization plant from 0.6 MTPA to 1.2 MTPA and 1.0 MTPA Iron Beneficiation plant in Anra village, Banspal in Keonjhar District.

X-Sub: Demand of funds towards approved Site Specific Conservation Plan.

Ref: Memo No. 1458 dt. 08.02.2023 of Conservator of Forests, (Eco-tourism) O/o the Principal Chief Conservator of Forests, (WL) & CWLW, Odisha, Bhubaneswar..

Sir

With reference to the aforementioned memo on the captioned subject, the Principal Chief Conservator of Forests, (WL), CWLW, Odisha, Bhubaneswar has approved the Site Specific Conservation Plan in respect of M/s Sree Metaliks Limited for expansion of proposed Iron Ore pelletization plant from 0.6 MTPA to 1.2 MTPA and 1.0 MTPA Iron Beneficiation plant in Anra village, Banspal in Keonjhar District in Keonjhar District with a financial outlay of **Rs. 223.07 lakh.** Hence, you are requested to deposit the said approved amount of **Rs. 223..07 lakh** (Rupees two crore twenty-three lakh seven thousand) only towards scheme for Site Specific Wildlife Conservation Plan through e-portal https://parivesh.nic.in/ and the proof/evidence of the deposit of fund be submitted to this office for further necessary action at this end.

Also, it is requested to execute the work/ activities in the project area as per the Chapter- 5 of the approved plan under guidance of the undersigned.

Yours faithfully,

14/02/23

Divisional Forest Officer,
Keonjhar Division.

Memo No. 1462 / **Dated.** 14-02-2023

Copy forwarded to the Regional Chief Conservator of Forests, Rourkela Circle/ Principal Chief Conservator of Forests, Forest Diversion and Nodal Officer, FC Act, O/o the Principal Chief Conservator of Forests, Odisha, Bhubaneswar for favour of kind information and necessary action.

14/02/23

Divisional Forest Officer,
Keonjhar Division.

Memo No. 1463 / **Dated.** 14-02-2023

Copy forwarded to the Principal Chief Conservator of Forests, (WL) & CWLW, Odisha, Bhubaneswar for favour of kind information and necessary action with reference to his memo No. 1459 dt. 08.02.2023.

14/02/23

Divisional Forest Officer,
Keonjhar Division.

Annexure-17

COVERED TRUCKS

Annexure-18

USED OIL ROOM

Annexure-19

Date:-10.02.2021

Certified that I visited M/s. Sree Metaliks Ltd. , At- Anra, Po- Upar Raigoda, PS- Nayakote, Dist- Keonjhar, Odisha on 25.01.2021, 26.01.2021 & 27.01.2021 (3 days) and undertook periodical health check-up of 308 employees / workers. No major complaints / hazards found during the check-up.

10/02/2021

Dr. Shiba Charan Bagh
Senior Cl-I (M.B.B.S.)
RSLR No. 14131 (O)
Senior Medical Officer

Dr. Shiba Charan Bagh
Regn. No. 14131

Scanned by CamScanner

Date:-25.04.2019

Certified that I visited M/s. Sree Metaliks Ltd. , At- Anra, Po- Upar Raigoda, PS- Nayakote, Dist- Keonjhar, Odisha on 11.03.2019, 12.03.2019 & 13.03.2019 (3 days) and undertook periodical health check-up of 308 employees / workers. No major complaints / hazards found during the check-up.

25/04/2019.

Dr. Shiba Charan Bagh
Senior Cl-I (M.B.B.S.)
Regd. No.-14131 (O)
Senior Medical Officer

Dr. Shiba Charan Bagh
Regn. No. 14131

Scanned by CamScanner

Annexure-20

Environmental Management Policy

M/s Sree Metaliks Ltd. already has framed Environmental Policy and is committed to preserving the environment in an integral manner.

The Corporate Environment Policy states:

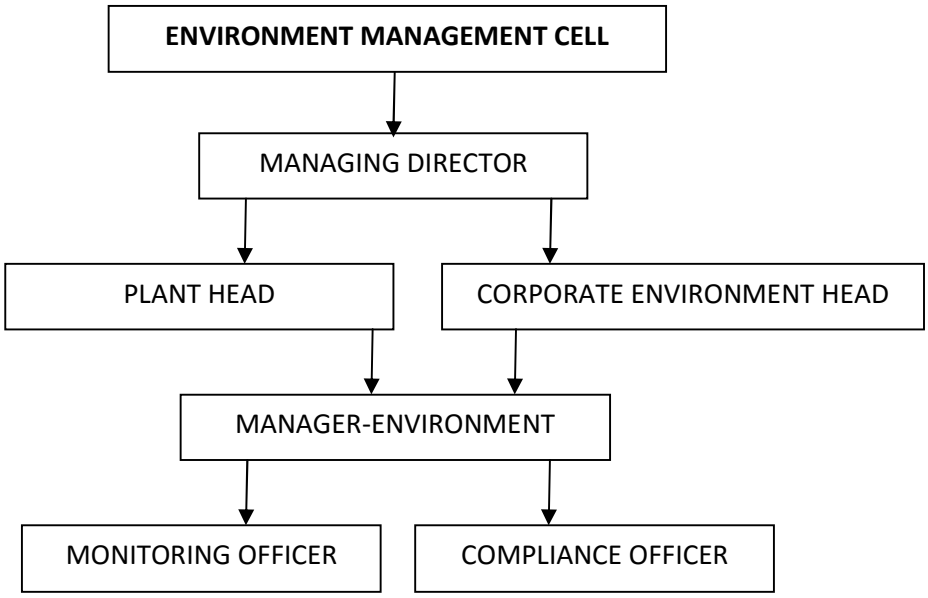
"It is the policy of M/s Sree Metaliks Ltd. to strive to ensure that all aspects of the business have the least harmful effect on the Environment by implementing an effective Environmental Management system to:

- **Have full awareness of all Environmental and Factory legislation in India and to ensure that regulatory requirements are duly met with including the conditions/ stipulations/ norms of Environment Clearance.**
- **Monitor the implementation of the Policy by carrying out periodic audits of compliance with full reporting to the Board of Directors and to suggest necessary remedial measures, if required, thereto.**
- **Ensure that all Employees in the course of their duties act in accordance with the Environmental Policy. To encourage suppliers, contractors and vendors to act accordance with Company's Environmental Standards.**
- **Maintain transparency in matters of Environmental compliance.**
- **Selection of non polluting technology, waste minimization, reuse/ recycling and the reduction of energy consumption will be particular areas of attention of the business.**
- **The Company will also make a positive environmental contribution in the local community by encouraging open communication, general Environmental awareness and the promotion of CSR activities."**

R. Rameshwar Agarwal

Date: ***10.06.2021***
Place: ***Barbil***

Managing Director


ENVIRONMENT MANAGEMENT CELL
MANAGING DIRECTOR
PLANT HEAD
CORPORATE ENVIRONMENT HEAD
MANAGER-ENVIRONMENT
MONITORING OFFICER
COMPLIANCE OFFICER

Annexure-22

SREE METALIKS

Ref. No. SML/ANRA-EC-ADVT.2023 **Date – 01/03/2023**

The Deputy Director General
Regional Office (EZ),
Ministry of Environment, Forest & Climate Change,
A-31, Chandrasekharpur,
Bhubaneswar

Sub: Expansion of Iron Ore Pelletization Plant from 0.6 MTPA to 1.2 MTPA and 1.0 MTPA Iron Beneficiation Plant by M/s Sree Metaliks Limited, located at village - Anra, Tehsil – Telkoi, Dist. - Keonjhar, Odisha- Grant of Environmental Clearance **– Regarding Paper advertisement.**

Ref: **MoEF&CC Environment Clearance letter F. No. J-11011/192/2008-IA II (I) dated 23rd February 2023**

Dear Sir,

With reference to the miscellaneous condition (X) i on the above subject, we have advertised the Environmental Clearance letter F. No. J-11011/192/2008-IA II(I) dated 23rd February 2023 in two local news paper i.e. one in Odia news paper "**The Dharitri"** and the other one in English newspaper **" The Indian Express" on dated 28.02.2023**

The same is attached for your kind information please.

Thanking you,

Yours faithfully
For Sree Metaliks Limited.

Authorized Signatory

Encl.: Copy of paper advertisement

GOVT. OF INDIA
MoEF & CC Integrated R.O.
Bhubaneswar-751023
01 MAR 2023
RECEIVED

ଧରିତ୍ରୀ
DHARITRI
ଭୁବନେଶ୍ୱର, ମଙ୍ଗଳବାର, ୨୮ ଫେବ୍ରୁୟାରୀ, ୨୦୨୩

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

To
The Asst. General Manager
SREE METALIKS LIMITED
SML HOUSE, MAIN ROAD, P.O.: BARBIL Kendujhar, Orissa-758035

Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the Ministry vide proposal number **IA/OR/IND/287092/2022 dated 18 Aug 2022.** The particulars of the environmental clearance granted to the project are as below.

1.	EC Identification No.	EC23A0070R189888
2.	File No.	J-11011/192/2008-IA.II(I)
3.	Project Type	Expansion
4.	Category	A
5.	Project/Activity including Schedule No.	2(b) Mineral beneficiation
6.	Name of Project	Expansion of Proposed Iron Ore Pelletization Plant from 0.6 MTPA to 1.2 MTPA and 1.0 MTPA Iron Beneficiation Plant located at village - Anra, Tehsil — Telkoi, Dist. - Keonjhar, Odisha for M/s Sree Met
7.	Name of Company/Organization	SREE METALIKS LIMITED
8.	Location of Project	Orissa
9.	TOR Date	26 Jul 2022

The project details along with terms and conditions are appended herewith from page no 2 onwards.

Sd/- Dr. R. B. Lal, Scientist F
IA - (Industrial Projects -1 sector)

Date: 23/02/2023

THE NEW
INDIAN
EXPRESS
BHUBANESWAR • TUESDAY • [illegible] • PAGES 16 • LATE CITY EDITION

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

To
The Asst. General Manager
SREE METALIKS LIMITED
SML HOUSE, MAIN ROAD, P.O.: BARBIL Kendujhar, Orissa-758035

Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

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6.	Name of Project	Expansion of Proposed Iron Ore Pelletization Plant from 0.6 MTPA to 1.2 MTPA and 1.0 MTPA Iron Beneficiation Plant located at village - Anra, Tehsil — Telkoi, Dist. - Keonjhar, Odisha for M/s Sree Met
7.	Name of Company/Organization	SREE METALIKS LIMITED
8.	Location of Project	Orissa
9.	TOR Date	26 Jul 2022

The project details along with terms and conditions are appended herewith from page no 2 onwards.

Sd/- Dr. R. B. Lal, Scientist F
IA - (Industrial Projects -1 sector)

Date: 23/02/2023

SREE METALIKS

Ref. No.: SML/ANRA/EC/413/2022-23 **Date – 03.03.2023**

The Chief Executive Officer,
Zilla Parishad,
Keonjhar.

Sub: Expansion of Iron Ore Pelletization Plant from 0.6 MTPA to 1.2 MTPA and 1.0 MTPA Iron Beneficiation Plant by M/s Sree Metaliks Limited, located at village - Anra, Tehsil – Telkoi, Dist. - Keonjhar, Odisha- **Environmental Clearance Regarding.**

Ref: **MoEF&CC Environment Clearance letter F. No. J-11011/192/2008-IA II (I) dated 23rd February 2023.**

Dear Sir,

We are herewith submitting the copy of above Environmental Clearance for Expansion of Iron Ore Pelletization Plant from 0.6 MTPA to 1.2 MTPA and 1.0 MTPA Iron Beneficiation Plant by M/s Sree Metaliks Limited, located at village - Anra, Tehsil – Telkoi, Dist. - Keonjhar, Odisha.

This is for your kind information, please.

Thanking you,

Yours faithfully
For **SREE METALIKS LIMITED.**

AUTHORIZED SIGNATORY
Encl.: Copy of Environment Clearance

Received the letter with enclosure

14/3/2023
Section Officer-Cum-Accountant
DRDA, Keonjhar

CIN: U26939WB1995PLC075633
SML HOUSE, MAIN ROAD, BARBIL – 758035, KEONJHAR, ORISSA, INDIA
Tel No.: 06767-276292/275585, Fax: 06767-275529/276219, Web: www.sreemetaliks.com, e-mail ID: mdsreemetaliks@gmail.com

SREE METALIKS

Ref. No.: SML/ANRA/EC/414/2022-23 **Date – 03.03.2023**

The General Manager,
District Industries Centre,
Keonjhar.

Sub: Expansion of Iron Ore Pelletization Plant from 0.6 MTPA to 1.2 MTPA and 1.0 MTPA Iron Beneficiation Plant by M/s Sree Metaliks Limited, located at village - Anra, Tehsil – Telkoi, Dist. - Keonjhar, Odisha- **Environmental Clearance Regarding.**

Ref: **MoEF&CC Environment Clearance letter F. No. J-11011/192/2008-IA II (I) dated 23rd February 2023.**

Dear Sir,

We are herewith submitting the copy of above Environmental Clearance for Expansion of Iron Ore Pelletization Plant from 0.6 MTPA to 1.2 MTPA and 1.0 MTPA Iron Beneficiation Plant by M/s Sree Metaliks Limited, located at village - Anra, Tehsil – Telkoi, Dist. - Keonjhar, Odisha.

This is for your kind information, please.

Thanking you,

Yours faithfully
For **SREE METALIKS LIMITED.**

AUTHORIZED SIGNATORY

Encl.: Copy of Environment Clearance

OFFICE OF THE GENERAL MANAGER DISTRICT INDUSTRIES CENTRE 14/03/2023

CIN: U26939WB1995PLC075633
SML HOUSE, MAIN ROAD, BARBIL – 758035, KEONJHAR, ORISSA, INDIA
Tel No. : 06767-276292/275585, Fax: 06767-275529/276219, Web: www.sreemetaliks.com, e-mail ID: mdsreemetaliks@gmail.com

SREE METALIKS

Ref. No.: SML/ANRA/EC/412/2022-23 **Date – 03.03.2023**

The District Magistrate & Collector,
Keonjhar District,
Keonjhar.

Sub: Expansion of Iron Ore Pelletization Plant from 0.6 MTPA to 1.2 MTPA and 1.0 MTPA Iron Beneficiation Plant by M/s Sree Metaliks Limited, located at village - Anra, Tehsil – Telkoi, Dist. - Keonjhar, Odisha- **Environmental Clearance Regarding.**

Ref: **MoEF&CC Environment Clearance letter F. No. J-11011/192/2008-IA II (I) dated 23rd February 2023.**

Dear Sir,

We are herewith submitting the copy of above Environmental Clearance for Expansion of Iron Ore Pelletization Plant from 0.6 MTPA to 1.2 MTPA and 1.0 MTPA Iron Beneficiation Plant by M/s Sree Metaliks Limited, located at village - Anra, Tehsil – Telkoi, Dist. - Keonjhar, Odisha.

Received
Receipt No - 412
dt - 3.3.23
addl. Dist. Collector, KJR

This is for your kind information, please.

Thanking you,

14.3.23

Yours faithfully
For **SREE METALIKS LIMITED.**

AUTHORIZED SIGNATORY

Encl.: Copy of Environment Clearance

CIN: U26939WB1995PLC075633
SML HOUSE, MAIN ROAD, BARBIL – 758035, KEONJHAR, ORISSA, INDIA
Tel No. : 06767-276292/275585, Fax: 06767-275529/276219, Web: www.sreemetaliks.com, e-mail ID: mdsreemetaliks@gmail.com

OFFICE OF THE TAHASILDAR, BANSPAL

Received letter No. SML/ANRA/EC/415/ dt. 3.3.23
of Authorised Signatory, Sree Metaliks Ltd. 2022-23
addressed to Tahasildar, Banspal.

14.3.23
SECTION OFFICER
BANSPAL TAHASIL
Section Officer
Banspal Tahasil

Dear Sir,

We are herewith submitting the copy of above Environmental Clearance for Expansion of Iron Ore Pelletization Plant from 0.6 MTPA to 1.2 MTPA and 1.0 MTPA Iron Beneficiation Plant by M/s Sree Metaliks Limited, located at village - Anra, Tehsil – Telkoi, Dist. - Keonjhar, Odisha.

This is for your kind information, please.

Thanking you,

Yours faithfully
For **SREE METALIKS LIMITED.**

AUTHORIZED SIGNATORY

Encl.: Copy of Environment Clearance

CIN: U26939WB1995PLC075633
SML HOUSE, MAIN ROAD, BARBIL – 758035, KEONJHAR, ORISSA, INDIA
Tel No. : 06767-276292/275585, Fax: 06767-275529/276219, Web: www.sreemetaliks.com, e-mail ID: mdsreemetaliks@gmail.com

Annexure-24

DISPLAY BOARD