

**HALF YEARLY COMPLIANCE REPORT**  
**OF**  
**ENVIRONMENTAL CLEARANCE**  
(April, 2022 – September, 2022)

FOR

**M/S SREE METALIKS LIMITED**

**At village: Anra, P.O- Upara, Raigoda, PS-  
Nayakote, Dist-Keonjhar, Orissa**

**Six Monthly Environmental Clearance Compliance Report of Integrated steel plant (0.5 MTPA) of M/S Sree Metaliks Limited at village –Anra, P.O- Upara Raigada, Dist- Keonjhar, Odisha.**

**EC Order No. J-11011/192/2008- IA.II(I) dated 13.06.2009**

<b>SL. NO.</b>	<b>CONDITION</b>	<b>COMPLIANCE</b>
i	<p>Efforts shall be made to reduce RSPM levels in the ambient air and time bound action plan shall be submitted.</p> <p>On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks and sufficient air pollution control devices shall be provided to keep the emission levels below 100 mg/Nm<sup>3</sup>. At no time, the emission level shall go beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.</p>	<p>At present, we have setup only 0.6 mtpa pelletization plant along with PGP of required capacity . The other units like DRI, Sinter, MBF, Beneficiation, SMS of coal washery shall come up in two phases in future. Pollution control measures at pelletization plant, raw material storage yard, finished product storage yard etc. are being taken up. The following measures are already taken up in existing plant.</p> <ul style="list-style-type: none"> <li>- Various fugitive emission generating areas like stock houses, transfer points, junction points etc. have been provided with appropriate suction device connected to bag filters.</li> <li>- Bag filters arrangement has been made at pelletisation plant, raw material storage yard, finished product storage yard etc.</li> <li>- Water sprinkling arrangements are made available in raw material handling areas.</li> <li>- The solid wastes generated are</li> </ul>

		<p>stored over an earmarked area with pollution control measures.</p> <ul style="list-style-type: none"> <li>- Green belts have been developed along the boundary of the plant.</li> <li>- Regularly monitoring is carried out to assess the dust level.</li> </ul>
ii	<p>Hot gases from DRI kiln shall be passed through Dust Settling Chamber (DSC) to remove coarse solids and After Burning Chamber (ABC) to burn CO completely and used in waste heat recovery boiler (WHRB). The gas then shall be cleaned in ESP before leaving out into the atmosphere through ID fan and stack. Electrostatic precipitator (ESP) shall be provided to DRI plant, WHRB and FBB boilers to control air emissions within 100 mg/Nm<sup>3</sup>. Bag house shall be provided to BF Dry gas cleaning system. Gas cleaning plant having dust catcher and ventury scrubber shall be provided to blast furnace (BF). Cleaned gas from blast furnace shall be used as fuel in blast furnace.</p>	<p>This unit is not operational. The construction work for 1x500 TPD is under progress. The condition stipulated shall be abided by during the operation of the unit.</p>
iii	<p>Electrostatic precipitator (ESP)</p>	<p>Presently only one unit of 0.6 mtpa</p>

	<p>and bag filters shall be provided to sinter plant. Dust extraction system comprising of ESP and multi- cyclones shall be provided to pellet plant. Fume extraction system with bag filters shall be provided to induction furnace and ladle refining furnace. Bag filters shall also be provided at coke and flux grinding systems. Fume extraction system followed by a stack shall be provided to continuous casting machine. Dust extraction system comprising of ESP and multi-cyclones shall be provided to pellet plant. ESP and bag filters shall be provided to sinter plant.</p>	<p>pellet plant is under operation. Dust extraction system comprising of ESP and multi cyclone is provided at pellet plant.</p>
iv	<p>In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive dust emission from raw material and product handling section on shall be controlled by dust extraction systems with bag filters or by water sprinkling. Dust extraction system with bag filters shall be provided at all the material</p>	<p>Fugitive emission generation points like various stock house, material transfer and junction points, product hoppers have been provided with appropriate suction device connected to bag filter.</p> <p>Dust suppression system for raw material handling area has already been provided. All transfer points of belt conveyor have been provided.</p> <p>The solid waste generated is being suitably disposed off within the</p>

	<p>transfer points. Dust suppression system with water sprinklers shall be provided at raw material stock piles and loading/unloading points. Dust extraction system shall be provided at cooling discharge house, product separation unit. Water sprinkling system and dust extraction system shall be provided at raw material sizing and handling areas. All conveyors shall be completely covered by GI sheets. Bag filters and dust suppression system shall be provided at coal crushing and handling areas.</p>	<p>premises.</p> <p>All conveyors, transfer points etc has been provided with enclosures.</p> <p>Water sprinkling is being carried out frequently on the roads and vehicular movement zone to control fugitive emission.</p>
v	<p>Gaseous emission levels including secondary fugitive emissions from blast furnace and sinter plant shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines / Code of Practice issued by the CPCB shall be followed. The emission standards issued by the Ministry in May, 2008 for the sponge plants shall</p>	<p>MBF &amp; Sinter plant shall be under operation after phase II expansion. The condition will be applicable after its operation.</p>

	be followed.	
vi	<p>Vehicular pollution due to transportation of raw material and finished product shall be controlled. Proper arrangements should also be made to control dust emissions during loading and unloading of the raw material and finished product.</p>	<p>Material transportation through trucks, tippers etc is being carried out in covered condition to avoid spillages and dust emission.</p> <p>Unloading of materials by trucks is being carried out with proper care avoiding dropping of the materials from height.</p> <p>The material is being moistened by sprinkling water while loading/unloading.</p> <p>Regular water spraying and cleaning is being practiced on the internal roads and major internal roads have been black topped to control fugitive emission.</p> <p>Vehicle with pollution under control (PUC) certificate are permitted in transportation of raw material and finished product.</p>
vii	<p>Total water requirement from Baitarni River and bore wells shall not exceed 857 m<sup>3</sup>/hr. Ground water requirement shall not exceed the limit stipulated by the CGWA vide letter no. 21-4 (71)/SER/CGWA/2008/035 dated 22<sup>nd</sup> September, 2008.</p>	<p>Presently only 0.6MTPA pellet plant along with PGP is under operation. The present water consumption is 180 m<sup>3</sup> /day for which necessary permissions from Ministry of Jal shakti, GOI have been obtained. No waste water is discharged outside the plant premises.</p> <p>Domestic effluent of Factory premises</p>

<p>Closed circuit re-circulation system shall be installed to reduce fresh water consumption and no wastewater generation.</p> <p>BF-GCP and coal washery water shall be treated in thickener and used in the pig casting machine.</p> <p>Acidic and alkaline effluent from DM water plant shall be neutralized and reused for dust suppression and gardening etc.</p> <p>All the wastewater from coal washery (belt press), MBF (ventury scrubber), Power Plant (cooling tower and boiler blow down) and back wash of filtration unit of Water Treatment Plant shall be treated in Common Effluent Treatment Plant (CETP) and recycled/reused for various activities at the site including dust suppression, green belt, ash moistening and firefighting etc. No wastewater shall be discharged outside the premises and Zero effluent discharge shall be ensured. Domestic effluent shall be treated in</p>	<p>and colony are discharged to individual soak pits via septic tanks.</p> <p>The water storage with treatment facility is under construction which will be completed by March 2023.</p>
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	septic tank followed by soak pit and used for green belt development.	
viii	Prior permission for the drawl of 857 m <sup>3</sup> /hr water from Baitarni River shall be obtained from the concerned department and a copy submitted to the Regional Office at Bhubaneswar within 3 months of issue of the environment clearance.	Presently, the project is drawing ground water for which permission is obtained. However, there is a proposal to meet the water requirement from river Baitarani which is at 7Km from the project by laying pipeline along Row. Necessary application has been made to water resource Dept, GoO for permission.
ix	The water consumption should not exceed 16 m <sup>3</sup> /Ton of Steel as per prescribed standard.	We are abiding by the said condition.
x	Ground water monitoring around the solid waste disposal site / secured landfill (SLF) shall be carried out regularly and report submitted to the Regional Office at Bhubaneswar, CPCB and OPCB.	Ground water monitoring is carried out regularly in buffer area and the reports are being submitted to OSPCB. The test report is annexed as <b>Annexure- I</b> .
xi	Iron ore fines, DRI fines, coal fines, sinter dust, GCP dust, SMS dust etc. shall be used in sinter plant. Bag filter dust from pellet plant shall be recycled in the process. Usable scrap from BF and SMS shall	Bag filter dust from pellet plant is being recycled in the process. Used oil and other hazardous water are properly stored and disposed of to authorized recycler unit.



	<p>be recycled back in the SMS. Slag from IF, EAF and LRF shall be recycled through sinter/blast furnace. Tailings from Iron ore beneficiation plant shall be disposed off in tailing ponds. All the other solid wastes including broken refractory mass shall be properly disposed off in environment-friendly manner. Used oil and oily waste shall be provided to authorized recyclers / re-processors.</p>	
xii	<p>Fluidized Bed Boiler (FBB) shall be installed before installation of sponge iron plant so that utilization of char in the FBB boiler is ensured. All the char from DRI plant, middlings and rejects from the coal washery shall be utilized in the FBB boiler of power plant and no char shall be disposed off anywhere else. All the blast furnace (BF) slag shall be granulated and provided to cement manufacturers for further utilization. ESP dust, bag filter dust, wet scrapper</p>	<p>Shall be carried out after construction &amp; commissioning of the said unit.</p>

	dust, kiln accretions, SMS slag shall be properly utilized or disposed off in environment-friendly manner.	
xiii	All the slag shall be used for road making and construction purpose only after passing through Toxic Chemical Leachability Potential (TCLP) test. Otherwise, slag shall be disposed in secured landfill as per CPCB guidelines.	Shall be complied as stipulated in the condition.
xiv	Proper handling, storage, utilization and disposal of all the solid waste shall be ensured and regular report regarding toxic metal content in the waste material and its composition, end use of solid/hazardous waste shall be submitted to the Regional Office at Bhubaneswar, CPCB and OPCB.	Shall be complied as stipulated in the condition.
xv	A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal.	Shall be submitted after the setting up of the entire plant for which EC is obtained.
xvi	Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 and	There is no such captive power plant inside the plant premises. Presently, the ash generated from PGP is used

	subsequent amendment in 2003. All the fly ash and granulated slag shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding shall be submitted to the Regional Office at Bhubaneswar within 3 months of issue of this letter.	for road filling and filling of low Lying area.
xvii	As proposed, green belt shall be developed in 33 % area in and around the plant as per the CPCB guidelines in consultation with DFO.	Towards the maintenance of green belt 33% of the plant area already earmarked in the field. Out of which 20% area already covered under plantation and balance 13% plantation will be done within 2 years.
xviii	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Sector shall be implemented.	Shall be implemented.
xix	All the commitments made to the public during the Public Hearing / Public Consultation meeting held on 20 <sup>th</sup> February, 2009 shall be satisfactorily implemented.	The issues raised during the public hearing and action taken over the issues raised are summarized and annexed as <b>Annexure-II</b> .
xx	Recommendations of the State Forest Department shall be obtained regarding likely impact of the proposed steel plant on	The land proposed to be acquired for construct installation of plant involves forest land. Hence, while using forest land for

	<p>the surrounding reserve/protected forests viz. Nayagarh RF (6.92 km NE), Amuni PF (2.18 km E), Gandhamardjan RF (4.58 km SE), Gachinda RF (7.77 km E), Jagar PF (3.83 km SE), Kumundi PF (6.39 km S), Khairimundi RF (9.20 km S), Raiguda PF (2.25 km SW) located within 10 km radius of the proposed project site and implemented.</p>	<p>material uses, the recommendation of the state forest Dept. shall be obtained and implemented.</p> <p>Further, a site specific wildlife conservation plan has been prepared with detailed budgetary provision and approved by PCCF cum Chief Wildlife Warden.</p>
xxi	<p>The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.</p>	<p>complied</p>
<p><b>GENERAL CONDITIONS</b></p>		
i	<p>The project authorities must strictly adhere to the stipulations made by the Orissa Pollution Control Board (OPCB)</p>	<p>Being monitored by the Odisha Pollution Control Board.</p>

	and the State Government.	
ii	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	We are abiding by the said condition
iii	The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19 <sup>th</sup> May, 1993 and standards prescribed from time to time. The Orissa Pollution Control Board (OPCB) may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.	SPCB, Odisha has issued consent order vide its letter dated 10.02.2021 which is valid up to 31.03.2026. We are submitting the compliance report of Consent Order to Authority regularly.
iv	At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO <sub>2</sub> and NO <sub>x</sub> are anticipated in consultation with the OPCB. Data on ambient air quality and stack emission shall be regularly	Periodically monitoring is carried out and the report is annexed as <b>Annexure-I</b> . The monitoring is carried out by NABL accredited laboratory M/S BIOMES, Bhubaneswar

	submitted to this Ministry including its Regional Office at Bhubaneswar and OPCB, CPCB once in six months.	
v	In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Further, specific measures like water sprinkling around the coal stockpiles and asphaltting or concreting of the roads shall be done to control fugitive emissions.	Various control measures like water sprinkling, suction etc are installed and under operation effectively. Most of the portion of the road already concreted.
vi	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 <sup>th</sup> May, 1993 and 31 <sup>st</sup> December, 1993 or as amended form time to time. The treated wastewater shall be utilized for plantation purpose.	Waste Water is being properly collected, treated & reused. There is zero discharge from the plant premises.
vii	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of	Various noise control measures are adopted. Regular noise level monitoring is carried out by NABL Accredited laboratory and the reports are being submitted regularly. The noise level report in and around the existing plant is enclosed as

	noise generation. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	<b>Annexure- I.</b>
viii	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	<p>All the employees and workers are examined by a registered medical practitioner for occupational diseases every year.</p> <p>Ensures medical fitness of all the new employees through Pre-employment Health check up in prescribed format.</p> <p>Blood Sugar monitoring is done at regular intervals.</p> <p>All kinds of primary medications are available in the Occupational Health Centre like Antibiotics, Anti-inflammatory, Antacids, Anti-Cold, etc. Including all kind of surgical equipment required for wound repair and minor incision.</p> <p>One ambulance with first aid box and oxygen cylinder for prompt transport to a tertiary health centre as &amp; when required.</p>
ix	The company shall develop rain water harvesting structures to harvest the rain water for	CGWB guidelines shall be followed for the construction of the Rain water Harvesting System.

	utilization in the lean season besides recharging the ground water table.	<p>Rain water harvesting pond capacity:  Area = 2630 m<sup>2</sup> (0.65 acres)  Depth of Reservoir = 8 m  Annual average rainfall of Keonjhar district= 1115.4 mm = 1.115 m  Water available in reservoir = 17,884 m<sup>3</sup>/yr  Water available for consumption per Day = 50 m<sup>3</sup>/day</p>
x	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA / EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc. Suggestions made during the public hearing shall be implemented.	The details of CSR activities mentioned in <b>Annexure- III</b> .
xi	As proposed, Rs. 1401.05 Lakhs and Rs. 753.64 Lakhs shall be earmarked towards total capital cost and recurring cost/annum for environmental pollution	The necessary pollution control equipment has been installed and is under regular maintenance for which funds has been earmarked in



	control measures shall be judiciously utilized to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.	the annual budget. Till date, an amount of 5 cr for Capital cost and 40 lakhs pay annum is regularly spent under recurring cost for environmental pollution control measures.
xii	The Regional Office of this Ministry at Bhubaneswar / CPCB / OPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	Six Monthly compliance reports are being submitted to the Regional Office of the Ministry at Bhubaneswar & MoEF & CC to New Delhi.
xiii	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the OPCB and may also be seen at Website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are	The project has advertised regarding accordance of EC letter in English News Paper "The Times of India" Bhubaneswar edition on 31.07.2009 and Odia newspaper " The Dharitri" dated 31.07.2009.

	widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional office at Bhubaneswar.	
xiv	Project authorities 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 and the date of commencing the land development work.	<p>Loan sanctioned date: 01.06.2010</p> <p>Date of commencing the land development work: 23.07.2009</p> <p>Date of Financial Closures: 31.03.2011</p> <p>Date of Final approval of the Project: 30.08.2007</p>
xv	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.	Complied
xvi	The project proponent shall	Compliance report with monitoring

	<p>upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.</p>	<p>data is being uploaded in company website i.e. <a href="http://www.sreemetaliks.com">www.sreemetaliks.com</a></p>
<p>xvii</p>	<p>The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB.</p>	<p>Being Complied.</p>

xviii	<p>The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail.</p>	<p>Being Complied.</p>
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Photos of the Environment Measures



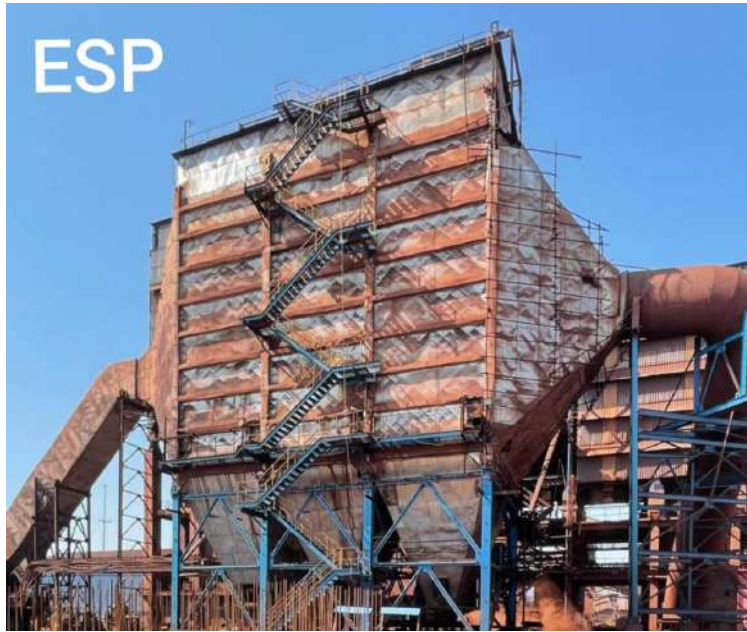
Green Belt



Green Belt



Green Belt



**BAG FILTER-PCI**









# M/s BIOMES

ENVIRONMENTAL CONSULTANT & NABL (ISO/IEC 17025:2017) ACCREDITED LABORATORY

[ISO 14001:2015, ISO 9001:2015 & ISO 45001:2018 Certified Organization]



Report No -BMS/22/SML-Anra/210

Issued Date-07.10.2022

## AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, ANRA, Upper Raigoda, Banspal Dist-Keonjhar, Odisha
Work Order No./ Date	SML/BBL/ENV/VO/205/22-23; 24.09.2022
Nature of Sampling	Ambient Air Sample
Sampling Location & Coordinates	AAQ1-Near Entry Gate: 21°41'13.17"N Latitude & 85°26'17.90"E Longitude
Sampling By	BIOME's Representative
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment

Date Of Sampling	PM10 (µg/m <sup>3</sup> )	PM2.5 (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NOx (µg/m <sup>3</sup> )
01.09.2022	69.8	35.6	12.2	18.2
05.09.2022	66.5	33.9	11.6	17.5
08.09.2022	68.9	35.1	11.2	18.5
12.09.2022	70.5	36.9	11.8	19.2
15.09.2022	73.8	38.2	12.8	20.8
19.09.2022	76.4	40.7	13.4	21.6
22.09.2022	67.2	34.6	12.8	19.6
26.09.2022	64.2	33.5	11.8	18.4
29.09.2022	62.8	32.4	11.4	18.1
NAAQ* Standard	100	60	80	80
Methods of Analysis	IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)



  
Authorized Signatory

\*END OF REPORT\*

Note:

- The results listed refer only to tested samples and applicable parameters. Endorsement of products is neither inferred nor implied.
- Total liability of our lab is limited to the invoiced amount.
- Samples will be destroyed after 30 days from the date of test report unless otherwise specified.
- This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- Report refers to the sample submitted to us and not drawn by unless mentioned otherwise.

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[ISO 14001:2015, ISO 9001:2015 & ISO 45001:2018 Certified Organization]



Report No –BMS/22/SML-Aura/211

Issued Date-07.10.2022

## AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name &Address	M/s Sree Metaliks Ltd, ANRA, Upper Raigoda, Banspal Dist-Keonjhar, Odisha
Work Order No./ Date	SML/BBL/ENV/WO/205/22-23; 24.09.2022
Nature of Sampling	Ambient Air Sample
Sampling Location & Coordinates	AAQ2-Near Security Barak: 21°41'2.88"N Latitude & 85°25'56.46"E Longitude
Sampling By	BIOME's Representative
Instrument Used	Respirable Dust Sampler, Fine Dust Sampler, Gaseous Attachment

Date Of Sampling	PM10 (µg/m <sup>3</sup> )	PM2.5 (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>x</sub> (µg/m <sup>3</sup> )
01.09.2022	60.2	31.2	11.2	17.3
05.09.2022	59.6	30.5	10.5	16.4
08.09.2022	61.4	32.4	9.8	15.9
12.09.2022	63.6	32.8	10.6	17.2
15.09.2022	67.2	34.6	11.4	18.6
19.09.2022	69.1	36.1	12.2	19.2
22.09.2022	62.5	33.1	11.8	17.5
26.09.2022	59.6	30.1	10.8	16.8
29.09.2022	58.5	29.8	10.2	16.2
NAAQ* Standard	100	60	80	80
Methods of Analysis	IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)



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\*END OF REPORT\*

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[ISO 14001:2015, ISO 9001:2015 & ISO 45001:2018 Certified Organization]

Report No –BMS/22/SML-Anra/212

Issued Date-07.10.2022

## AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s Sree Metalliks Ltd, ANRA, Upper Raigoda, Banspal Dist-Konjhar, Odisha
Work Order No./ Date	SML/BBL/ENV/WO/205/22-23; 24.09.2022
Nature of Sampling	Ambient Air Sample
Sampling By	BIOME's Representative
Instrument Used	CO Analyser

Name of Location	A1 Near Entry Gate	A2 Near Security Barak
Date Of Sampling	CO (mg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )
01.09.2022	0.55	0.5
05.09.2022	0.52	0.48
08.09.2022	0.54	0.49
12.09.2022	0.55	0.5
15.09.2022	0.58	0.52
19.09.2022	0.59	0.53
22.09.2022	0.56	0.5
26.09.2022	0.55	0.48
29.09.2022	0.54	0.47
NAAQ* Standard	4	4
Methods of Analysis	IS: 5182 (Part- 10)	IS:5182 (Part-10)



  
Authorized Signatory

**\*END OF REPORT\***

**Note:**

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Report No – BMS/22/SML-Anra/213

Issued Date-07.10.2022

## AMBIENT AIR QUALITY MONITORING TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, ANRA, Upper Raigoda, Banspal Dist-Keonjhar, Odisha
Work Order No./ Date	SML/BBL/ENV/WO/205/22-23; 24.09.2022
Nature of Sampling	Ambient Air Sample
Sampling By	BIOME's Representative
Instrument Used	Respirable Dust Sampler, Benzene Sampler
Date of Sampling	03.09.2022

Name of Location	Location	O <sub>3</sub> (µg/m <sup>3</sup> )	NH <sub>3</sub> (µg/m <sup>3</sup> )	Pb (µg/m <sup>3</sup> )	Ni (ng/m <sup>3</sup> )	As (ng/m <sup>3</sup> )	C <sub>6</sub> H <sub>6</sub> (µg/m <sup>3</sup> )	BaP (ng/m <sup>3</sup> )
AAQ-1	Near Entry Gate	<8.0	<20.0	<0.06	<0.6	<0.44	<5	<1
AAQ-2	Near Security Barak	<8.0	<20.0	<0.06	<0.6	<0.44	<5	<1
	NAAQ* Standard	100	400	1	20	6	5	1
	Methods of 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)



  
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Report No –BMS/22/SML-Anra/214

Issued Date-07.10.2022

## FUGITIVE MONITORING TEST REPORT

Client Name &Address	M/s Sree Metaliks Ltd, ANRA, Upper Raigoda,Banspal Dist-Keonjhar, Odisha
Work Order No./ Date	SML/BBL/ENV/WO/205/22-23; 24.09.2022
Nature of Sampling	AAQ-Fugitive Dust Sample
Sampling By	BIOME's Representative
Instrument Used	Respirable Dust Sampler

Sl. No.	Name of Location	Latitude	Longitude	Date of Sampling	Result
1	Near W.Bridge-1	21°40'67.60"N	85°26'45.20"E	20.09.2022	788.3
2	Near W.Bridge-2	21°40'55.60"N	85°26'16.20"E	30.09.2022	642.5
Fugitive Standard					1200
Methods of Analysis					IS:5182 (Part-24)



  
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Report No –BMS/22/SML.-Anra/215

Issued Date-07.10.2022

## AMBIENT NOISE LEVEL MONITORING TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, ANRA, Upper Raigoda, Banspal Dist-Keonjhar, Odisha
Work Order No./ Date	SML/BBL/ENV/WO/205/22-23; 24.09.2022
Nature of Sampling	Ambient Noise
Sampling Location	N1-Near Entry Gate; Latitude 21°41'13.17"N & Longitude 85°26'17.90"E N2-Near Security Barak; Latitude 21°41'2.88"N & Longitude 85°25'56.46"E
Sampling By	BIOME's Representative
Instrument Used	Noise Meter
Date of Sampling	30.09.2022
Date of Receiving	01.10.2022

Day time Noise monitoring results Noise Level in dB (A)		
TIME (6.00AM to 10.00PM)	N-1	N-2
Avg.	66.9	61.8
Standard as per CPCB	75.0	
Night time Noise monitoring results Noise Level in dB (A)		
TIME (10.00PM to 6.00AM)	N-1	N-2
Avg.	56.2	44.6
Standard as per CPCB	70.0	



  
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Report No –BMS/22/SML-Anra/216

Issued Date-07.10.2022

## WORK ZONE NOISE LEVEL MONITORING TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, ANRA, Upper Raigoda, Banspal Dist-Keonjhar, Odisha
Work Order No./ Date	SML/BBL/ENV/WO/205/22-23; 24.09.2022
Nature of Sampling	Work Zone Noise
Sampling Location	N1- Near W.Bridge-1; Latitude 21°40'67.60"N & Longitude 85°26'45.20"E N2- Near W.Bridge-2; Latitude 21°40'55.60"N & Longitude 85°26'16.20"E
Sampling By	BIOME's Representative
Instrument Used	Noise Meter
Date of Sampling	30.09.2022
Date of Receiving	01.10.2022

Day time Noise monitoring results Noise Level in dB (A)		
TIME (6.00AM to 10.00PM)	N-1	N-2
Avg.	70.8	70.6
Standard as per CPCB	75.0	
Night time Noise monitoring results Noise Level in dB (A)		
TIME (10.00PM to 6.00AM)	N-1	N-2
Avg.	64.1	63.5
Standard as per CPCB	70.0	



  
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TC-10049

Report No -BMS/22/SML-Anra/217

Issued Date-07.10.2022

## GROUND WATER MONITORING TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, ANRA, Upper Raigoda, Banspal Dist-Keonjhar, Odisha
Work Order No./ Date	SML/BBL/ENV/WO/205/22-23; 24.09.2022
Nature of Sampling	GROUND WATER
Sampling Location	GW1- Inside Colony; Latitude 21°59'34.27"N & Longitude 85°19'26.87"E GW2- Village Rugudih; Latitude 21°59'50.80"N & Longitude 85°19'20.16"E GW3- Village Lohidapada; Latitude 21°59'35.29"N & Longitude 85°19'10.86"E
Sampling By	BIOME's Representative
Date of Sampling	26.09.2022
Date of Receiving	27.09.2022
Date of Analysis	27.09.2022- 30.09.2022

## ANALYSIS RESULT

Sl. No.	Parameters	Unit	Standard as per IS-10500 (2012)	GW1	GW2	GW3
1	pH	---	6.5-8.5	6.78	6.95	6.84
2	Colour	Hazen	5 (15)	<5.0	<5.0	<5.0
3	Turbidity	NTU	5(10)	<1	<1	<1
4	Chloride (as Cl)(max)	mg/l	250 (1000)	14.0	15.0	15.0
5	Total Dissolved Solid	mg/l	500 (2000)	142.0	158.0	142.0
6	Total Hardness (as CaCO <sub>3</sub> ) (max)	mg/l	200 (600)	102.0	110.0	98.0
7	Iron (as Fe) (max)	mg/l	0.3 (NR)	0.24	0.24	0.21
8	Calcium (as Ca) (max)	mg/l	75 (200)	25.7	26.5	24.5

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TC-10049

9	Magnesium (as Mg) (max)	mg/l	30 (100)	9.2	10.7	9.0
10	Sulfate (as SO <sub>4</sub> ) (max)	mg/l	200(400)	2.20	2.40	2.1
11	Nitrate (as NO <sub>3</sub> ) (max)	mg/l	45 (NR)	1.04	1.1	0.98
12	Alkalinity (as CaCO <sub>3</sub> ) (max)	mg/l	200 (600)	95.00	98.00	92.00
13	Fluoride (as F) (max)	mg/l	1.0(1.5)	<0.05	<0.05	<0.05
14	Total Chromium as Cr(max)	mg/l	0.05(NR)	<0.05	<0.05	<0.05
15	Sodium as Na(max)	mg/l	---	8.8	9.2	9.3
16	Potassium as K(max)	mg/l	---	0.5	0.5	0.5

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Report No –BMS/22/SML-Anra/218

Issued Date-03.08.2022

## GROUND WATER MONITORING TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, ANRA, Upper Raigoda, Banspal Dist-Keonjhar, Odisha
Work Order No./ Date	SML/BBL/ENV/WO/205/22-23; 24.09.2022
Nature of Sampling	GROUND WATER
Sampling Location	GW1- Inside Colony; Latitude 21°59'34.27"N & Longitude 85°19'26.87"E GW2- Village Rugudihi; Latitude 21°59'50.80"N & Longitude 85°19'20.16"E GW3- Village Lohidapada; Latitude 21°59'35.29"N & Longitude 85°19'10.86"E
Sampling By	BIOME's Representative
Date of Sampling	26.09.2022
Date of Receiving	27.09.2022
Date of Analysis	27.09.2022- 30.09.2022

## ANALYSIS RESULT

Sl. No.	Parameters	Unit	Standard as per IS-10500 (2012)	GW1	GW2	GW3
17	Odour	---	Agreeable	AL	AL	AL
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)	<0.05	<0.05	<0.05
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)	<0.05	<0.05	<0.05
24	Lead (as Pb) (max)	mg/l	0.01 (NR)	<0.01	<0.01	<0.01

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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 Compound (as C <sub>6</sub> H <sub>5</sub> OH) (max)	mg/l	0.001 (0.002)	<0.001	<0.001	<0.001
34	Total Coliforms	MPN/100ml	Absent	<1.8	<1.8	<1.8

Note:-AL- Agreeable, NR-No Relaxation, ND- Not Detectable

End of test report



Note:

  
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Report No -BMS/22/SML-Anra/219

Issued Date-07.10.2022

## SOIL QUALITY TEST REPORT

Client Name &Address	M/s Sree Metaliks Ltd, ANRA, Upper Raigoda, Banspal Dist-Keonjhar, Odisha
Work Order No./ Date	SML/BBL/ENV/WO/205/22-23; 24.09.2022
Nature of Sampling	SOIL
Sampling Location	SQ1- Inside Plant; Latitude 21°40'57.85"N & Longitude 85°26'10.16"E SQ2- Village Raigad; Latitude 21°41'0.25"N & Longitude 85°25'29.21"E SQ3- Village Anra; Latitude 21°41'20.01"N & Longitude 85°26'19.10"E
Sampling By	BIOME's Representative
Date of Sampling	22.09.2022
Date of Receiving	23.09.2022
Date of Analysis	23.09.2022-26.09.2022

## ANALYSIS RESULT

Sl.No.	Parameters	Unit	Analysis Results		
			S-1 Plant Area	S-Village Rugudihi	S-3 Village Lohidapada
1	Colour	---	Brown	Brown	Brown
2	Moisture content	%	11.2	12.1	11.8
3	pH	---	6.3	6.32	6.22
4	Electrical conductivity (as EC)	micro s/cm	192	172	170
5	Soil Texture	---	Sandy loamy	Sandy Clay loamy	Sandy Clay loamy
6	Bulk Density	gm/cc	1.3	1.27	1.28
7	Calcium (as Ca)	mg/kg	425	355	295
8	Magnesium (as Mg)	mg/kg	216	190	148
9	Organic Carbon	%	1.42	1.68	1.66

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10	Nitrogen (as N)	kg/hcc	128	164	168
11	Phosphorus (as p)	kg/hcc	48	44	42
12	Potassium (as K)	mg/kg	192	172	165
13	Chloride(as Cl)	mg/kg	122	106	98
14	Manganese (as Mn)	mg/kg	9.6	4.2	4.5
15	Iron (as Fe)	%	2.68	1.48	1.36

End of test report



  
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Report No -BMS/22/SML-Anra/220

Issued Date-07.10.2022

## SURFACE WATER MONITORING TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, ANRA, Upper Raigoda, Banspal Dist-Keonjhar, Odisha
Work Order No./ Date	SML/BBL/ENV/VO/205/22-23; 24.09.2022
Nature of Sampling	SURFACE WATER
Sampling Location	SW1-Brahmani Nala; Latitude 21°41'14.10"N & Longitude 85°25'49.19"E
Sampling By	BIOME's Representative
Date of Sampling	22.09.2022
Date of Receiving	24.09.2022
Date of Analysis	24.09.2022-26.09.2022

## ANALYSIS RESULT

Sl. No.	Parameters	Unit	Standard as per IS-2296 Class-C	SWI
1	pH	---	6.0-9.0	7.36
2	Colour	Hazen	300	40
3	Turbidity	NTU	--	4.6
4	Chloride (as Cl)	mg/l	600	14
5	Total Dissolved Solid	mg/l	1500	112
6	Chemical Oxygen Demand as COD	mg/l	--	8.0
7	Hexavalent Chromium (as Cr+6)	mg/l	0.05	<0.05

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8	Fluoride (as F)	mg/l	1.5	0.06
9	Sulfate (as SO <sub>4</sub> )	mg/l	400	4.9
10	Iron (as Fe)	mg/l	0.5	0.38
11	Nitrate (as NO <sub>3</sub> )	mg/l	50	1.42

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Report No -BMS/22/SML-Anra/221

Issued Date-07.10.2022

## SURFACE WATER MONITORING TEST REPORT

Client Name & Address	M/s Sree Metaliks Ltd, ANRA, Upper Raigoda, Banspal Dist-Konjhar, Odisha
Work Order No./ Date	SML/BBL/ENV/WO/205/22-23; 24.09.2022
Nature of Sampling	SURFACE WATER
Sampling Location	SWI- Brahmani nala; Latitude 21°41'14.10"N & Longitude 85°25'49.19"E
Sampling By	BIOME's Representative
Date of Sampling	22.09.2022
Date of Receiving	24.09.2022
Date of Analysis	24.09.2022-26.09.2022

## ANALYSIS RESULT

Sl. No.	Parameters	Unit	Standard as per IS-2296 Class-C	SWI
12	Dissolved oxygen (min)	mg/l	4	6.5
13	Oil & Grease (max)	mg/l	--	ND
14	BOD (3) days at 27°C (max)	mg/l	3.0	<2.0
15	Arsenic as As (max)	mg/l	0.2	<0.001
16	Lead as Pb (max)	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	<0.03
19	Zinc as Zn(max)	mg/l	15	<0.05

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20	Selenium as Se (max)	mg/l	0.05	<0.001
21	Cyanide as CN (max)	mg/l	0.05	<0.02
22	Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH (max)	mg/l	0.005	<0.001
23	Total Coliform	MPN/10 0 ml	5000	570

End of test report



  
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**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
<b>Health</b>	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.
<b>Road &amp; Infrastructure Development</b>	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.
<b>Education</b>	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.
<b>Communication</b>	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.
<b>Skill Up-gradation of local youths and employment</b>	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.	<b>Health</b>	<p>) The Company has organised regular health camp in the past and will continue it in future.</p> <p>) 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.</p> <p>) Together with the Govt. Agencies they will conduct Malaria Eradication programmes in the locality.</p>	27,71,147.00	15,00,000	
2.	<b>Road &amp; Infrastructure</b>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Besides the existing culvert over BamuniNala, a larger bridge is planned to be constructed in the near future to facilitate movement of heavy traffic.</li> <li>• 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.</li> </ul>	58,96,659.00	0	
3	<b>Education</b>	<ul style="list-style-type: none"> <li>• The Company will take appropriate steps to improve the infrastructure and standard of the village schools in phases</li> </ul>	2,22,468.00	5,48,900.00	
4	<b>Religious</b>	<ul style="list-style-type: none"> <li>• The company will build Mandap in Anra, Raigoda and Binida village.</li> </ul>	43,78,180.00		
5	<b>Skill Up-gradation of local youths and employment</b>	<ul style="list-style-type: none"> <li>• 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</li> </ul>		13,68,000.00	

## Annexure-II

		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	

<b><u>CSR</u></b>		
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
	<b>TOTAL</b>	<b>1,19,06,207.00</b>