Six Monthly Environmental Compliance Report

(Period: April, 2024 to September, 2024)

Refer: **MOEF&CC File No. J-11011/1267/2007-IA.II(I) dt. 7th August, 2018**

for

EXPANSION OF INTEGRATED STEEL PLANT & CAPTIVE POWER PLANT

at

VILLAGE PUNJIPATRA,
DISTRICT RAIGARH,
CHHATTISGARH

Project Proponent

M/S SCANIA STEELS AND POWERS LIMITED

R-19, Civil Township, Rourkela - 769004 (Odisha)

SCANIA STEELS & POWERS LIMITED
FORMERLY KNOWN AS
SIDHI VINAYAK SPONGE IRON PVT. LTD.
Office : R-19, Civil Township, Rourkela - 769 004 (Odisha)
Ph. : 0661-2400784, 2401791(O), Fax : 0661-2400007

DATE: 29th November, 2024

The Additional Principal Chief Conservator of Forests (C),
Ministry of Environment, Forest and Climate Change,
Regional Office (WCZ), Ground Floor, East Wing,
New Secretariat Building Civil Lines,
Nagpur-440001

Subject: Six Monthly Compliance Report for the period of April, 2024 to September, 2024 for expansion of integrated steel plant & captive power plant at village Punjipatra, District Raigarh, Chhattisgarh by M/s. Scania Steels and Powers Limited

Ref.: MoEF&CC File No. J-I1011/1267/2007-IA.II(I) dt. 7th August, 2018

Dear Sir,

With reference to the above mentioned Environmental Clearance letter (File No. J-11011/1267/2007-IA II (I)) dated 7th August, 2018, we do hereby submit six monthly Compliance Report for the period of April, 2024 to September, 2024 for expansion of integrated steel plant & captive power plant at village Punjipatra, District Raigarh in Chhattisgarh.

Thanking you,

Yours faithfully,
for **Scania Steels and Powers Limited**
SCANIA STEELS & POWERS LIMITED

Director

Sanjay Gadodia
Director

Encl.: as above.

STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS FOR EXPANSION OF INTEGRATED STEEL PLANT & CAPTIVE POWER PLANT AT VILLAGE PUNJIPATRA, DISTRICT RAIGARH, CHHATTISGARH BY M/S. SCANIA STEELS AND POWERS LIMITED

Ref.: MOEF&CC File No. J-11011/1267/2007-IA.II(I) dt. 7th August, 2018

At present, 4x100 TPD Sponge Iron Plant is in operation. Besides, Waste Heat Recovery Boiler has been recently installed and has been commissioned and is expected to be in operation shortly to utilize the waste heat to utilize the waste heat, generated from DRI kilns (4 Nos.) in steam generation, which in-turn is able to generate 8 MW power. 1x8T + 1x6T Induction Furnaces have been commissioned, but they are presently not in operation.

SL. NO.	CONDITIONS	STATUS AS ON 29.11.2024
A.	SPECIFIC CONDITION	
1)	The EC is subject to the outcome of Civil Appeal No. 6025 of 2012 before Hon'ble Supreme Court of India.	Agreed.
2)	The particulate matter emission from all the process stacks shall not be more than 30 mg/Nm^3.	The particulate matter emission from the process stacks have been reduced to 30 mg/Nm^3. An amount of around Rs. 33.52 lacs have been spent to modify the existing pollution control system to contain the PM emission within 30 mg/Nm^3. Monthly stack emission monitoring reports for six months have been attached as **Annexure-1**. **Complied.**
3)	The project proponent shall take adequate measures to bring the Ambient Air Quality as per National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009.	The particulate matter emission from all the process stacks have been reduced to 30 mg/Nm^3 by modifying the control equipment. Ambient Air Quality monitoring is being carried out at 4 relevant locations near the plant. The monitored data of Ambient Air Quality for six months have been attached as **Annexure-3**. **Complied.**
4)	The monitoring of the secondary fugitive emissions will be carried around Product House, SMS and RMH guard as per the frequency specified under the National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009.	Fugitive emission monitoring is being carried out at 3 relevant locations inside the plant. The monitored data of Fugitive emission for six months have been attached as **Annexure-4.** Pneumatic Dust Control system has been installed in March, 2024 to control fugitive emissions. Copies of the Tax Invoices & Purchase Order have been

		enclosed as **Annexure-4A & Annexure-4B respectively.** **Complied.**
B.	**GENERAL CONDITION**	
1)	An amount of Rs 225 Lakhs proposed towards Corporate Environment Responsibility (CER) shall be utilized as capital expenditure in project mode. The project shall be completed in concurrence with the implementation of the expansion and estimated on the basis of Scheduled Rates.	**Being complied.**
2)	Green belt shall be developed in 7.85 Ha equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.	Within the existing plant area, greenbelt is present significantly. Out of the total plant area of 23.472 hectares (58 acres), the area covered under plantation is 7.85 hectares (19.4 acres). Hence, over 33% of the total plant area is under plantation. Around 19625 plants/ trees are existing in the plant area. **Complied.**
3)	The Capital cost Rs. 7.2 Crores and annual recurring cost Rs. 72 Lakhs towards the environmental protection measures shall be earmarked separately. The funds so provided shall not be diverted for any other purpose.	**Being complied.**
4)	The project proponent shall (Air Quality Monitoring):	
a.	install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 (G.S.R 414 (E) dated 30th May 2008 as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Continuous stack emission monitoring system has been installed for the existing stacks, which is connected to the CPCB/ CECB online servers. Monthly continuous stack emission monitoring data for six months have been attached as **Annexure-2**. **Complied.**
b.	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.	Fugitive emission monitoring is being carried out at 3 relevant locations inside the plant. The monitored data of Fugitive emissions for six months have been attached as **Annexure-4.** Pneumatic Dust Control system has been installed in March, 2024 to control

		fugitive emissions. Copies of the Tax Invoices & Purchase Order have been enclosed as **Annexure-4A & Annexure-4B respectively.** **Complied.**
c.	install system carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM_{10} and $PM_{2.5}$ in reference to PM emission, and SO_2 and NOx in reference to SO_2 and NOx emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions; and	Continuous ambient air quality monitoring system has been installed for the air quality parameters of PM_{10}, $PM_{2.5}$, SO_2 and NO_X. **Complied.**
d.	submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality / fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.	Monthly summary report of continuous stack emission has been attached as **Annexure-2**. The same for continuous air quality monitoring is also enclosed as **Annexure-3A**. Results of manual stack monitoring and manual monitoring of air quality / fugitive emissions for six months are attached as **Annexure-1, Annexures-3** and **Annexure-4** respectively. **Complied.**
5)	The project proponent shall (Water Quality Monitoring):	
a)	install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 (G.S.R 414 (E) dated 30th May 2008; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	The plant has been designed as a zero discharge plant as far as the process effluents are concerned. The water is recirculated through cooling and treatment. No plant effluent is discharged outside the plant premises. The entire waste water is recycled for various purposes e.g., dust suppression & greenery purpose inside the plant. Domestic effluent from the various buildings / sheds of the plant is treated in the Sewage Treatment Plant (STP), which has been installed recently. The analysis report of Cooling Discharge Water for the samples, taken for six months has been attached as **Annexure-5**. **Complied.**
b)	monitor regularly ground water quality at	The analysis report for six months of the

<table>
<tr><td></td><td>least twice a year (pre and post monsoon) at sufficient numbers of piezometers/ sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories; and</td><td>ground water quality for the sample, taken from the borewell-2 inside the plant has been attached as Annexure-6.

Complied.</td></tr>
<tr><td>c)</td><td>submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.</td><td>The plant has been designed as a zero discharge plant as far as the process effluents are concerned. The water is recirculated through cooling and treatment. No plant effluent is discharged outside the plant premises. The entire waste water is recycled for various purposes e.g., dust suppression & greenery purpose inside the plant.

Domestic effluent from the various buildings / sheds of the plant is treated in the Sewage Treatment Plant (STP) which has been installed recently.

The analysis report of Cooling Discharge Water for the samples, taken for six months is attached as Annexure-5

The analysis report for six months of the ground water quality for the sample, taken from the borewell-2 inside the plant is attached as Annexure-6.

Complied.</td></tr>
<tr><td>6)</td><td>The project proponent shall (Air Pollution Control):</td><td></td></tr>
<tr><td>a)</td><td>provide appropriate Air Pollution Control (APC) system for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.</td><td>Appropriate Air Pollution Control Systems have been installed at all the relevant points to contain the dust emissions within the prescribed standards. The details are given in the following table:
<table>
<tr><th>Pollution Sources</th><th>Mitigation Measures</th></tr>
<tr><td colspan="2">Sponge Iron Plant:</td></tr>
<tr><td>Dust from the process</td><td>ESP</td></tr>
<tr><td>Unloading of Raw Material</td><td>Sprinkler / Fogging / Mist</td></tr>
<tr><td>Raw Material Handling area</td><td>Bag Filter</td></tr>
<tr><td>Cooler Discharge & Product Separation Area</td><td>Bag Filter</td></tr>
<tr><td colspan="2">Steel Melting Shop:</td></tr>
</table></td></tr>
</table>

<table>
<tr><td></td><td></td><td>
<table>
<tr><td>Fumes from Furnaces (IF / LRF)</td><td>Bag Filter</td></tr>
</table>

Besides, pneumatic Dust Control system has been installed in March, 2024 to control fugitive emissions. Copies of the Tax Invoices & Purchase Order have been enclosed as Annexure-4A & Annexure-4B respectively.

Complied.
</td></tr>
<tr><td>b)</td><td>provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags;</td><td>Available.

Complied.</td></tr>
<tr><td>c)</td><td>provide pollution control system in the steel plant as per the CREP Guidelines of CPCB;</td><td>
<table>
<tr><th>SN</th><th>Unit / Item</th><th>Responsibilities</th><th>Extent of fulfillment</th></tr>
<tr><td>1.</td><td>DRI</td><td>Utilisation of dolochar & waste gas</td><td>Waste gas is being used in the WHR Boiler. Dolochar is used for power generation by the power generation companies.</td></tr>
<tr><td>2</td><td>SMS</td><td>To reduce fugitive emission by installing a secondary de-dusting system</td><td>Secondary de-dusting facility envisaged to reduce the fugitive emission.</td></tr>
<tr><td>3.</td><td>SMS</td><td>Utilisation of SMS Slag</td><td>100% utilization will be explored. At present, Induction Furnaces are not in operation.</td></tr>
<tr><td>4.</td><td>Water conservation/ pollution</td><td>Reduce specific water consumption to 5 m^3/t for long products and 8 m^3/t for flat products.</td><td>The statutory norms are being complied to.</td></tr>
<tr><td>5.</td><td>Stack & AAQ</td><td>Installation of Continuous stack monitoring system & its calibration in major stacks and setting up of the online ambient air quality monitoring stations.</td><td>Complied.</td></tr>
<tr><td>6.</td><td>APCS</td><td>To operate the pollution control equipment efficiently and to keep proper record of run hours, failure time and efficiency with</td><td>Being complied.</td></tr>
</table>
</td></tr>
</table>

		<table><tr><td></td><td></td><td>immediate effect. Besides, pneumatic Dust Control system has been installed in March, 2024 to control fugitive emissions. Copies of the Tax Invoices & Purchase Order have been enclosed as Annexure-4A & Annexure-4B respectively.</td><td></td></tr></table> **Complied.**
d)	provide sufficient number of mobile or stationery vacuum cleaners to clean plant roads, shop floors, roofs regularly;	Provided. **Complied.**
e)	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;	Being followed. **Complied.**
f)	ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation;	Raw materials like Iron Ore, Coal, Dolomite, etc. are stored in the raw material yard from where they are conveyed to the stock house kept in day bins by feeding into ground hopper and covered conveyors. **Complied.**
g)	provide wind shelter fence and chemical spraying on the raw material stock piles.	Provided.

		Complied.
7)	The project proponent shall (Water Pollution Control):	
a)	adhere to 'zero liquid discharge';	The plant has been designed as a zero discharge plant as far as the process effluents are concerned. The water is re-circulated through cooling and treatment. No plant effluent is discharged outside the plant premises. The entire waste water is recycled for various purposes e.g., dust suppression & greenery purpose inside the plant. Domestic effluent from the various buildings / sheds of the plant is treated in the Sewage Treatment Plant (STP), which has been installed recently.
b)	provide Sewage Treatment Plant for domestic wastewater; and	Domestic effluent from the various buildings / sheds of the plant is treated in the Sewage Treatment Plant (STP), which has been installed recently.
c)	provide garland drains and collection pits 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.	Provided
8)	The project proponent shall (Water Conservation):	
a)	practice rainwater harvesting to maximum possible extent; and	The company has constructed Ground water recharge structures (Ponds & pits with shaft) as guided by the CGWB officials having capacity of more than 65,493 m^3/year, for augmenting the ground water resources of the area, as per issued Renewal of NOC. The company has 58 acres land and rainwater is being recharged through 2 de-silting chambers & ponds with filter media and shaft. 2 nos. roof water harvesting have been constructed with filter media pit along with shaft. Pond with 1 no. recharge shaft :- (50.3+44.3)*(33.5+27.3)*6.1 m^3, Recharge shaft 40 m with filter media 4M*2M*2M Provided with proper drainage system. Roof Top Rain Water Harvesting structure (De-siltation + Filter pit with recharge shaft):- 2 **Numbers:** 1) Area of admin building 15M x 8M and

		water goes to pond in front of office pond dimension of 10 X 12 X 8 M^3, without recharge shaft 2) Roof top dimension of Stock shed 6M X 20M with recharge pit dimension 3 x 2.5 x 2 m^3 with 40 m shaft. Further, the company has proposed to construct the rain water harvesting pond with filter media and shaft as per guideline of CGWA – New Delhi (if required). **Complied.**
b)	make efforts to minimize water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.	All efforts have been made to minimise the use of fresh water by recycling the entire effluent water. **Complied.**
9)	The project proponent shall (Energy Conservation):	
a)	provide waste heat recovery system on the DRI Kilns;	Waste Heat Recovery Boiler has been installed and is in operation to utilize the waste heat, generated from DRI kilns (4 Nos.) in steam generation which in-turn is able to generate 8 MW power. **Complied.**
b)	provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly; and	Solar panel of 3 KW has been installed at the rooftop of the admin building. 5 solar street lights of 40 W are also installed. Photographs are enclosed as **Annexure 12.** **Complied.**
c)	provide the project proponent for LED lights in their offices and residential areas;	LED lights have been provided in the plant office and the residential areas. **Complied.**
10)	Used refractories shall be recycled as far as possible.	Shall be complied.
11)	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.	Prepared and enclosed as **Annexure 11**
12)	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Emergency preparedness plan is already in place. **Complied.**
13)	The project proponent shall carry out heat stress analysis for the workmen who work	Induction Furnaces are not in operation. Only Sponge Iron Plant is in operation.

	in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factor	The report will be submitted once all the units are in operation. All workers have been provided with Personal Protection Equipment (PPE).
14)	The project proponent shall adhere to the corporate environmental policy and system of the reporting of any infringements/ non-compliance of EC conditions at least once in a year to the Board of Directors and the copy of the board resolution shall be submitted to the MoEF&CC as a part of six-monthly report.	The company adheres to its corporate environmental policy. The copy of the board resolution shall be submitted later on. **Complied.**
15)	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the steel plants shall be implemented.	Already mentioned against Sl. No. 6(C) **Complied.**
16)	A dedicated environmental cell with qualified personnel shall be established. The head of the environment cell shall report directly to the head of the organization.	**Complied.**
17)	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	**Being complied.**
18)	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	**Agreed.**
19)	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).	**Agreed**
20)	The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.	Used oils removed from machinery, gear boxes, compressors etc. are collected in drums and temporarily stored in specifically earmarked areas. They are disposed through the approved agencies. The company has already been granted authorization under the Hazardous and the Other Wastes (Management & Transboundary Movement Rules), 2016 by Chhattisgarh Environment Conservation Board (CECB), which is attached as **Annexure-9**. **Complied.**
21)	The ambient noise levels should conform to	Monitoring of noise level has been

	the standards prescribed under EPA Rules, 1989 viz. 75 dB(A) during day time and 70 dB(A) during night time.	conducted and the results are well within prescribed limits. Noise Level Monitoring results for six months have been attached as **Annexure-7.** **Complied.**
22)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	**Complied.**
23)	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report.	**Being complied.**
24)	The project proponent shall (Post-EC monitoring):	
a.	send a copy of environmental clearance letter to the heads of Local Bodies, Panchayat, Municipal bodies and relevant offices of the Government;	The copy of the Environmental Clearance for the project has already been sent to the respective offices as per the instruction. **Complied.**
b.	put on the clearance letter on the web site of the company for access to the public.	**Being Complied.**
c.	inform the public through advertisement within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment, Forests and Climate Change (MoEF&CC) at http:/ envfor.nic.in.	Already done. The copy of the advertisement in two local newspapers has been attached as **Annexure-8.**
d.	upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same periodically;	**Agreed and being complied.**
e.	monitor the criteria pollutants level namely; PM_{10}, SO_2, NO_X (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company;	**Being complied.**
f.	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 Regional Office of MoEF&CC, the respective Zonal Office of	**Being complied.**

	CPCB and the SPCB;	
g.	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;	**Being complied.**
h.	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.	**Being done.**
28.0	The Ministry of Environment, Forest and Climate Change has considered the application based on the recommendations of the Expert Appraisal Committee (Industry-I) and hereby decided to grant environmental clearance for the proposed expansion of Integrated Steel Plant & Captive Power Plant (Sponge Iron Plant: 200 TPD; Steel Melting Shop: 135000 TPA; and WHRB 8 MW) at village Punjipatra, District Raigarh, Chhattisgarh by M/s Scania Steels and Powers Limited under the provisions of EIA Notification, 14th September, 2006, as amended, subject to strict compliance of the above conditions.	-
29.0	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	-
30.0	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	-
30.0	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and that during their presentation to the Expert Appraisal Committee. The commitment made by the project proponent to the issue raised during Public Hearing shall be implemented by the proponent	**Agreed and shall be complied.**
31.0	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and	The company has already been granted authorization under the Hazardous and the Other Wastes (Management & Transboundary Movement Rules), 2016 by Chhattisgarh Environment Conservation Board (CECB), which is attached as **Annexure-9**. The copy of the policy under the Public Liability Insurance Act, 1991 is also

	rules.	attached as **Annexure-10**.
32.0	This EC is issued in supersession of earlier EC vide F. No. J- 11011/1267/2007-IA.II(I) dated 5th November 2008.	-
33.0	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	-

LIST OF ANNEXURES:

Annexure-1 : Stack Emission Monitoring Reports.
Annexure-2 : Online Continuous Stack Emission Monitoring Data.

Annexure-3 : Monitored Data of Ambient Air Quality.

Annexure-3A : Online Continuous air quality monitoring

Annexure-4: Monitored Data of Fugitive emission.
Anneure-4A: Tax Invoices of Pneumatic Dust Control System
Anneure-4B: Purchase Order of Pneumatic Dust Control System

Annexure-5 : Analysis report of Cooling Discharge Water.

Annexure-6 : Analysis report for ground water quality taken from the borewell inside the plant.

Annexure-7: Noise Level Monitoring Data.

Annexure-8 : Advertisement in Local Newspapers after EC accorded.

Annexure-9 : Authorization under the Hazardous and the Other Wastes (Management & Transboundary Movement Rules), 2016 by Chhattisgarh Environment Conservation Board (CECB).

Annexure-10 : Copy of the policy under the Public Liability Insurance Act, 1991.
Annexure-11 : Carbon footprint & sequestration
Annexure-12 : Solar Panel

ANNEXURE-1

Stack Emission Monitoring Report
(April - 2024 to September - 2024)

Envirotech East Pvt. Limited

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company

- **Laboratory Accrediated by NABL, as per ISO/IEC 17025 :2017**
- **Laboratory Recognized by WBPCB**
- **Accredited EIA Consultant by QCI-NABET**

100, Kalikapur, Madurdaha, Kolkata – 700 107, West Bengal, India
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CIN NO : U74210WB1989PTC047403

ANX-1

ANALYSIS REPORT OF FLUE GAS

Name of Industry	**M/s. Scania Steels & Powers Ltd.** **(Formerly Known as Sidhi Vinayak Sponge Iron Pvt. Ltd.**
Address	22 KM Stone Gharghoda Road, Vill: Panjipatra, Raigarh, Pin: 496 011
Date of Sampling	09.04.2024
Time of Sampling	10:30 hrs;

A.	**General Information about stack**	
1	Stack connected to	**DRI Kilns (1 & 2)**
2	Emission due to	Burning of Charging Materials (Coal & Dolomite etc)
3	Material of Construction of Stack	M.S
4	Shape of Stack	Circular
5	Whether Stack is provided with Permanent Platform & Ladders	Permanent
6	Capacity	**100 TPD X 2**
B.	**Physical Characteristics of Stack**	
1	Height of the stack	
	(a) from Ground Level (m)	54.0
	(b) from Roof Level (m)	-
2	Diameter of the stack	
	(a) at bottom (m)	-
	(b) at top (m)	-
3	Diameter of the stack at sampling point (m)	2.0
4	Height of the sampling point from GL (m)	-
C.	**Analysis/Characteristics of Stack**	
1	Fuel used	Coal
2	Fuel consumption	1.1 T/hr.
D	**Results of sampling & Analysis of gaseous emission**	
1	Temperature of emission (°C)	132
2	Barometric Pressure (mmHg)	745
3	Velocity of gas in duct (M/sec)	10.42
4	Quantity of gas flow (Nm^3/hr)	82734
5	Concentration of SO2 (mg/Nm^3)	102
6	Concentration of NOx (mg/Nm^3)	-
7	Concentration of CO (% V/V)	-
8	Concentration of CO_2 (% V/V)	8.4
9	Concentration of PM (mg/Nm^3)	28
E	**Pollution Control Device**	
	Details of pollution control device attached with the stack	ESP
F	**Remarks:** There is a common stack, connected to the DRI Kilns (1 & 2). Both the DRI Kilns (1 & 2) were in operation at the time of sampling.	

For ENVIROTECH EAST (P) LTD.

ENVIROTECH EAST PVT. LTD. Kalikapur, Madurdaha Kolkata 700107

(Authorized Signatory)

Envirotech East Pvt. Limited

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company

- **Laboratory Accrediated by NABL, as per ISO/IEC 17025 :2017**
- **Laboratory Recognized by WBPCB**
- **Accredited EIA Consultant by QCI-NABET**

100, Kalikapur, Madurdaha, Kolkata – 700 107, West Bengal, India

☎ – + 91 33 2443 8127/8128 ; + 91 33 4063 5011; email: eeplkol@gmail.com; eeplkol2@gmail.com

CIN NO : U74210WB1989PTC047403

ANX-1

ANALYSIS REPORT OF FLUE GAS

Name of Industry	**M/s. Scania Steels & Powers Ltd.** **(Formerly Known as Sidhi Vinayak Sponge Iron Pvt. Ltd.)**
Address	22 KM Stone Gharghoda Road, Vill: Panjipatra, Raigarh, Pin: 496 011
Date of Sampling	09.04.2024
Time of Sampling	13:30 hrs;

A.	**General Information about stack**	
1	Stack connected to	**DRI Kilns (3 & 4)**
2	Emission due to	Burning of Charge Materials (Coal & Dolomite)
3	Material of Construction of Stack	M.S
4	Shape of Stack	Circular
5	Whether Stack is provided with Permanent Platform & Ladders	Permanent
6	Capacity	**100 TPD X 2**
B.	**Physical Characteristics of Stack**	
1	Height of the stack	
	(a) from Ground Level (m)	55.0
	(b) from Roof Level (m)	-
2	Diameter of the stack	
	(a) at bottom (m)	-
	(b) at top (m)	-
3	Diameter of the stack at sampling point (m)	2.0
4	Height of the sampling point from GL (m)	-
C.	**Analysis/Characteristics of Stack**	
1	Fuel used	Coal
2	Fuel consumption	1.1 T/hr.
D	**Results of sampling & Analysis of gaseous emission**	
1	Temperature of emission (°C)	135
2	Barometric Pressure (mmHg)	745
3	Velocity of gas in duct (M/sec)	11.6
4	Quantity of gas flow (Nm^3/hr)	92515
5	Concentration of SO2 (mg/Nm^3)	110
6	Concentration of NOx (mg/Nm^3)	-
7	Concentration of CO (% V/V)	-
8	Concentration of CO_2 (% V/V)	8.5
9	Concentration of PM (mg/Nm^3)	27
E	**Pollution Control Device**	
	Details of pollution control device attached with the stack	ESP
F	**Remarks:** There is a common stack, connected to the DRI Kilns (3 & 4). Both the DRI Kilns (3 & 4) were in operation at the time of sampling.	

For ENVIROTECH EAST (P) LTD.

ENVIROTECH EAST PVT. LTD. Kalikapur, Madurdaha Kolkata 700107

(Authorized Signatory)

Envirotech East Pvt. Limited

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company

- **Laboratory Accrediated by NABL, as per ISO/IEC 17025 :2017**
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☎ – + 91 33 2443 8127/8128 ; + 91 33 4063 5011; email: eeplkol@gmail.com; eeplkol2@gmail.com
CIN NO : U74210WB1989PTC047403

ANX-1

ANALYSIS REPORT OF FLUE GAS

Name of Industry	**M/s. Scania Steels & Powers Ltd.** **(Formerly Known as Sidhi Vinayak Sponge Iron Pvt. Ltd.**
Address	22 KM Stone Gharghoda Road, Vill: Panjipatra, Raigarh, Pin: 496 011
Date of Sampling	11.05.2024
Time of Sampling	10:25 hrs;

A.	**General Information about stack**	
1	Stack connected to	**DRI Kilns (1 &2)**
2	Emission due to	Burning of Charging Materials (Coal & Dolomite etc.)
3	Material of Construction of Stack	M.S
4	Shape of Stack	Circular
5	Whether Stack is provided with Permanent Platform & Ladders	Permanent
6	Capacity	**100 TPD X 2**
B.	**Physical Characteristics of Stack**	
1	Height of the stack	
	(a) from Ground Level (m)	54.0
	(b) from Roof Level (m)	-
2	Diameter of the stack	
	(a) at bottom (m)	-
	(b) at top (m)	-
3	Diameter of the stack at sampling point (m)	2.0
4	Height of the sampling point from GL (m)	-
C.	**Analysis/Characteristics of Stack**	
1	Fuel used	Coal
2	Fuel consumption	1.1 T/hr.
D	**Results of sampling & Analysis of gaseous emission**	
1	Temperature of emission (°C)	138
2	Barometric Pressure (mmHg)	744
3	Velocity of gas in duct (M/sec)	10.7
4	Quantity of gas flow (Nm^3/hr)	84760
5	Concentration of SO2 (mg/Nm^3)	117
6	Concentration of NOx (mg/Nm^3)	-
7	Concentration of CO (% V/V)	-
8	Concentration of CO_2 (% V/V)	8.9
9	Concentration of PM (mg/Nm^3)	25
E	**Pollution Control Device**	
	Details of pollution control device attached with the stack	ESP
F	**Remarks:** There is a common stack, connected to the DRI Kilns (1 & 2). Both the DRI Kilns (1 & 2) were in operation at the time of sampling.	

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ANALYSIS REPORT OF FLUE GAS

Name of Industry	**M/s. Scania Steels & Powers Ltd.** **(Formerly Known as Sidhi Vinayak Sponge Iron Pvt. Ltd.)**
Address	22 KM Stone Gharghoda Road, Vill: Panjipatra, Raigarh, Pin: 496 011
Date of Sampling	11.05.2024
Time of Sampling	13:30 hrs;

A.	**General Information about stack**	
1	Stack connected to	**DRI Kilns (3 & 4)**
2	Emission due to	Burning of Charge Materials (Coal & Dolomite)
3	Material of Construction of Stack	M.S
4	Shape of Stack	Circular
5	Whether Stack is provided with Permanent Platform & Ladders	Permanent
6	Capacity	**100 TPD X 2**
B.	**Physical Characteristics of Stack**	
1	Height of the stack	
	(a) from Ground Level (m)	55.0
	(b) from Roof Level (m)	-
2	Diameter of the stack	
	(a) at bottom (m)	-
	(b) at top (m)	-
3	Diameter of the stack at sampling point (m)	2.0
4	Height of the sampling point from GL (m)	-
C.	**Analysis/Characteristics of Stack**	
1	Fuel used	Coal
2	Fuel consumption	1.1 T/hr.
D	**Results of sampling & Analysis of gaseous emission**	
1	Temperature of emission (°C)	128
2	Barometric Pressure (mmHg)	744
3	Velocity of gas in duct (M/sec)	11.1
4	Quantity of gas flow (Nm^3/hr)	89786
5	Concentration of SO2 (mg/Nm^3)	121
6	Concentration of NOx (mg/Nm^3)	-
7	Concentration of CO (% V/V)	-
8	Concentration of CO_2 (% V/V)	7.6
9	Concentration of PM (mg/Nm^3)	26
E	**Pollution Control Device**	
	Details of pollution control device attached with the stack	ESP
F	**Remarks:** There is a common stack, connected to the DRI Kilns (3 & 4). Both the DRI Kilns (3 & 4) were in operation at the time of sampling.	

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ANALYSIS REPORT OF FLUE GAS

Name of Industry	**M/s. Scania Steels & Powers Ltd.** **(Formerly Known as Sidhi Vinayak Sponge Iron Pvt. Ltd.**
Address	22 KM Stone Gharghoda Road, Vill: Panjipatra, Raigarh, Pin: 496 011
Date of Sampling	15.06.2024
Time of Sampling	10:20 hrs;

A.	**General Information about stack**	
1	Stack connected to	**DRI Kilns (1 & 2)**
2	Emission due to	Burning of Charging Materials (Coal & Dolomite etc)
3	Material of Construction of Stack	M.S
4	Shape of Stack	Circular
5	Whether Stack is provided with Permanent Platform & Ladders	Permanent
6	Capacity	100 TPD X 2
B.	**Physical Characteristics of Stack**	
1	Height of the stack	
	(a) from Ground Level (m)	54.0
	(b) from Roof Level (m)	-
2	Diameter of the stack	
	(a) at bottom (m)	-
	(b) at top (m)	-
3	Diameter of the stack at sampling point (m)	2.0
4	Height of the sampling point from GL (m)	-
C.	**Analysis/Characteristics of Stack**	
1	Fuel used	Coal
2	Fuel consumption	1.1 T/hr.
D	**Results of sampling & Analysis of gaseous emission**	
1	Temperature of emission (°C)	133
2	Barometric Pressure (mmHg)	743
3	Velocity of gas in duct (M/sec)	10.46
4	Quantity of gas flow (Nm^3/hr)	82592
5	Concentration of SO2 (mg/Nm^3)	116
6	Concentration of NOx (mg/Nm^3)	-
7	Concentration of CO (% V/V)	-
8	Concentration of CO_2 (% V/V)	8.2
9	Concentration of PM (mg/Nm^3)	27
E	**Pollution Control Device**	
	Details of pollution control device attached with the stack	ESP
F	**Remarks:** There is a common stack, connected to the DRI Kilns (1 & 2). Both the DRI Kilns (1 & 2) were in operation at the time of sampling.	

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ANALYSIS REPORT OF FLUE GAS

Name of Industry	**M/s. Scania Steels & Powers Ltd. (Formerly Known as Sidhi Vinayak Sponge Iron Pvt. Ltd.)**
Address	22 KM Stone Gharghoda Road, Vill: Panjipatra, Raigarh, Pin: 496 011
Date of Sampling	15.06.2024
Time of Sampling	13:20 hrs;

A.	**General Information about stack**	
1	Stack connected to	**DRI Kilns (3 & 4)**
2	Emission due to	Burning of Charge Materials (Coal & Dolomite)
3	Material of Construction of Stack	M.S
4	Shape of Stack	Circular
5	Whether Stack is provided with Permanent Platform & Ladders	Permanent
6	Capacity	100 TPD X 2
B.	**Physical Characteristics of Stack**	
1	Height of the stack	
	(a) from Ground Level (m)	55.0
	(b) from Roof Level (m)	-
2	Diameter of the stack	
	(a) at bottom (m)	-
	(b) at top (m)	-
3	Diameter of the stack at sampling point (m)	2.0
4	Height of the sampling point from GL (m)	-
C.	**Analysis/Characteristics of Stack**	
1	Fuel used	Coal
2	Fuel consumption	1.1 T/hr.
D	**Results of sampling & Analysis of gaseous emission**	
1	Temperature of emission (°C)	134
2	Barometric Pressure (mmHg)	743
3	Velocity of gas in duct (M/sec)	10.92
4	Quantity of gas flow (Nm^3/hr)	86035
5	Concentration of SO2 (mg/Nm^3)	130
6	Concentration of NOx (mg/Nm^3)	-
7	Concentration of CO (% V/V)	-
8	Concentration of CO_2 (% V/V)	8.6
9	Concentration of PM (mg/Nm^3)	23
E	**Pollution Control Device**	
	Details of pollution control device attached with the stack	ESP
F	**Remarks:** There is a common stack, connected to the DRI Kilns (3 & 4). Both the DRI Kilns (3 & 4) were in operation at the time of sampling.	

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ANX-1

ANALYSIS REPORT OF FLUE GAS

Name of Industry	**M/s. Scania Steels & Powers Ltd.** **(Formerly Known as Sidhi Vinayak Sponge Iron Pvt. Ltd.**
Address	22 KM Stone Gharghoda Road, Vill: Panjipatra, Raigarh, Pin: 496 011
Date of Sampling	13.07.2024
Time of Sampling	10:25 hrs;

A.	**General Information about stack**	
1	Stack connected to	**DRI Kilns (1 & 2)**
2	Emission due to	Burning of Charging Materials (Coal & Dolomite etc)
3	Material of Construction of Stack	M.S
4	Shape of Stack	Circular
5	Whether Stack is provided with Permanent Platform & Ladders	Permanent
6	Capacity	100 TPD X 2
B.	**Physical Characteristics of Stack**	
1	Height of the stack	
	(a) from Ground Level (m)	54.0
	(b) from Roof Level (m)	-
2	Diameter of the stack	
	(a) at bottom (m)	-
	(b) at top (m)	-
3	Diameter of the stack at sampling point (m)	2.0
4	Height of the sampling point from GL (m)	-
C.	**Analysis/Characteristics of Stack**	
1	Fuel used	Coal
2	Fuel consumption	1.1 T/hr.
D	**Results of sampling & Analysis of gaseous emission**	
1	Temperature of emission (°C)	127
2	Barometric Pressure (mmHg)	742
3	Velocity of gas in duct (M/sec)	10.9
4	Quantity of gas flow (Nm^3/hr)	86849
5	Concentration of SO2 (mg/Nm^3)	95
6	Concentration of NOx (mg/Nm^3)	-
7	Concentration of CO (% V/V)	-
8	Concentration of CO_2 (% V/V)	7.9
9	Concentration of PM (mg/Nm^3)	20
E	**Pollution Control Device**	
	Details of pollution control device attached with the stack	ESP
F	**Remarks:** There is a common stack, connected to the DRI Kilns (1 & 2). Both the DRI Kilns (1 & 2) were in operation at the time of sampling.	

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ANX-1

ANALYSIS REPORT OF FLUE GAS

Name of Industry	**M/s. Scania Steels & Powers Ltd.** **(Formerly Known as Sidhi Vinayak Sponge Iron Pvt. Ltd.)**
Address	22 KM Stone Gharghoda Road, Vill: Panjipatra, Raigarh, Pin: 496 011
Date of Sampling	13.07.2024
Time of Sampling	13:40 hrs;

A.	**General Information about stack**	
1	Stack connected to	**DRI Kilns (3 & 4)**
2	Emission due to	Burning of Charge Materials (Coal & Dolomite)
3	Material of Construction of Stack	M.S
4	Shape of Stack	Circular
5	Whether Stack is provided with Permanent Platform & Ladders	Permanent
6	Capacity	100 TPD X 2
B.	**Physical Characteristics of Stack**	
1	Height of the stack	
	(a) from Ground Level (m)	55.0
	(b) from Roof Level (m)	-
2	Diameter of the stack	
	(a) at bottom (m)	-
	(b) at top (m)	-
3	Diameter of the stack at sampling point (m)	2.0
4	Height of the sampling point from GL (m)	-
C.	**Analysis/Characteristics of Stack**	
1	Fuel used	Coal
2	Fuel consumption	1.1 T/hr.
D	**Results of sampling & Analysis of gaseous emission**	
1	Temperature of emission (°C)	120
2	Barometric Pressure (mmHg)	742
3	Velocity of gas in duct (M/sec)	9.5
4	Quantity of gas flow (Nm^3/hr)	78079
5	Concentration of SO2 (mg/Nm^3)	82
6	Concentration of NOx (mg/Nm^3)	-
7	Concentration of CO (% V/V)	-
8	Concentration of CO_2 (% V/V)	7.3
9	Concentration of PM (mg/Nm^3)	19
E	**Pollution Control Device**	
	Details of pollution control device attached with the stack	ESP
F	**Remarks:** There is a common stack, connected to the DRI Kilns (3 & 4). Both the DRI Kilns (3 & 4) were in operation at the time of sampling.	

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ANX-1

ANALYSIS REPORT OF FLUE GAS

Name of Industry	**M/s. Scania Steels & Powers Ltd. (Formerly Known as Sidhi Vinayak Sponge Iron Pvt. Ltd.**
Address	22 KM Stone Gharghoda Road, Vill: Panjipatra, Raigarh, Pin: 496 011
Date of Sampling	10.08.2024
Time of Sampling	10:30 hrs;

A.	**General Information about stack**	
1	Stack connected to	**DRI Kilns (1 & 2)**
2	Emission due to	Burning of Charging Materials (Coal & Dolomite etc)
3	Material of Construction of Stack	M.S
4	Shape of Stack	Circular
5	Whether Stack is provided with Permanent Platform & Ladders	Permanent
6	Capacity	**100 TPD X 2**
B.	**Physical Characteristics of Stack**	
1	Height of the stack	
	(a) from Ground Level (m)	54.0
	(b) from Roof Level (m)	-
2	Diameter of the stack	
	(a) at bottom (m)	-
	(b) at top (m)	-
3	Diameter of the stack at sampling point (m)	2.0
4	Height of the sampling point from GL (m)	-
C.	**Analysis/Characteristics of Stack**	
1	Fuel used	Coal
2	Fuel consumption	1.1 T/hr.
D	**Results of sampling & Analysis of gaseous emission**	
1	Temperature of emission (°C)	118
2	Barometric Pressure (mmHg)	740
3	Velocity of gas in duct (M/sec)	10.3
4	Quantity of gas flow (Nm^3/hr)	84095
5	Concentration of SO2 (mg/Nm^3)	75
6	Concentration of NOx (mg/Nm^3)	-
7	Concentration of CO (% V/V)	-
8	Concentration of CO_2 (% V/V)	7.6
9	Concentration of PM (mg/Nm^3)	18
E	**Pollution Control Device**	
	Details of pollution control device attached with the stack	ESP
F	**Remarks:** There is a common stack, connected to the DRI Kilns (1 & 2). Both the DRI Kilns (1 & 2) were in operation at the time of sampling.	

For ENVIROTECH EAST (P) LTD.

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ANALYSIS REPORT OF FLUE GAS

Name of Industry	**M/s. Scania Steels & Powers Ltd.** **(Formerly Known as Sidhi Vinayak Sponge Iron Pvt. Ltd.)**
Address	22 KM Stone Gharghoda Road, Vill: Panjipatra, Raigarh, Pin: 496 011
Date of Sampling	10.08.2024
Time of Sampling	13:20 hrs;

A.	**General Information about stack**	
1	Stack connected to	**DRI Kilns (3 & 4)**
2	Emission due to	Burning of Charge Materials (Coal & Dolomite)
3	Material of Construction of Stack	M.S
4	Shape of Stack	Circular
5	Whether Stack is provided with Permanent Platform & Ladders	Permanent
6	Capacity	**100 TPD X 2**
B.	**Physical Characteristics of Stack**	
1	Height of the stack	
	(a) from Ground Level (m)	55.0
	(b) from Roof Level (m)	-
2	Diameter of the stack	
	(a) at bottom (m)	-
	(b) at top (m)	-
3	Diameter of the stack at sampling point (m)	2.0
4	Height of the sampling point from GL (m)	-
C.	**Analysis/Characteristics of Stack**	
1	Fuel used	Coal
2	Fuel consumption	1.1 T/hr.
D	**Results of sampling & Analysis of gaseous emission**	
1	Temperature of emission (°C)	114
2	Barometric Pressure (mmHg)	740
3	Velocity of gas in duct (M/sec)	10.25
4	Quantity of gas flow (Nm^3/hr)	84540
5	Concentration of SO2 (mg/Nm^3)	80
6	Concentration of NOx (mg/Nm^3)	-
7	Concentration of CO (% V/V)	-
8	Concentration of CO_2 (% V/V)	7.6
9	Concentration of PM (mg/Nm^3)	21
E	**Pollution Control Device**	
	Details of pollution control device attached with the stack	ESP
F	**Remarks:** There is a common stack, connected to the DRI Kilns (3 & 4). Both the DRI Kilns (3 & 4) were in operation at the time of sampling.	

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ANALYSIS REPORT OF FLUE GAS

Name of Industry	**M/s. Scania Steels & Powers Ltd. (Formerly Known as Sidhi Vinayak Sponge Iron Pvt. Ltd.**
Address	22 KM Stone Gharghoda Road, Vill: Panjipatra, Raigarh, Pin: 496 011
Date of Sampling	14.09.2024
Time of Sampling	10:10 hrs;

A.	**General Information about stack**	
1	Stack connected to	**DRI Kilns (1 & 2)**
2	Emission due to	Burning of Charging Materials (Coal & Dolomite etc)
3	Material of Construction of Stack	M.S
4	Shape of Stack	Circular
5	Whether Stack is provided with Permanent Platform & Ladders	Permanent
6	Capacity	**100 TPD X 2**
B.	**Physical Characteristics of Stack**	
1	Height of the stack	
	(a) from Ground Level (m)	54.0
	(b) from Roof Level (m)	-
2	Diameter of the stack	
	(a) at bottom (m)	-
	(b) at top (m)	-
3	Diameter of the stack at sampling point (m)	2.0
4	Height of the sampling point from GL (m)	-
C.	**Analysis/Characteristics of Stack**	
1	Fuel used	Coal
2	Fuel consumption	1.1 T/hr.
D	**Results of sampling & Analysis of gaseous emission**	
1	Temperature of emission (°C)	124
2	Barometric Pressure (mmHg)	741
3	Velocity of gas in duct (M/sec)	10.95
4	Quantity of gas flow (Nm^3/hr)	88172
5	Concentration of SO2 (mg/Nm^3)	108
6	Concentration of NOx (mg/Nm^3)	-
7	Concentration of CO (% V/V)	-
8	Concentration of CO_2 (% V/V)	8.4
9	Concentration of PM (mg/Nm^3)	25
E	**Pollution Control Device**	
	Details of pollution control device attached with the stack	ESP
F	**Remarks:** There is a common stack, connected to the DRI Kilns (1 & 2). Both the DRI Kilns (1 & 2) were in operation at the time of sampling.	

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An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company

- **Laboratory Accrediated by NABL, as per ISO/IEC 17025 :2017**
- **Laboratory Recognized by WBPCB**
- **Accredited EIA Consultant by QCI-NABET**

100, Kalikapur, Madurdaha, Kolkata – 700 107, West Bengal, India

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CIN NO : U74210WB1989PTC047403

ANX-1

ANALYSIS REPORT OF FLUE GAS

Name of Industry	**M/s. Scania Steels & Powers Ltd.** **(Formerly Known as Sidhi Vinayak Sponge Iron Pvt. Ltd.)**
Address	22 KM Stone Gharghoda Road, Vill: Panjipatra, Raigarh, Pin: 496 011
Date of Sampling	14.09.2024
Time of Sampling	13:30 hrs;

A.	**General Information about stack**	
1	Stack connected to	**DRI Kilns (3 & 4)**
2	Emission due to	Burning of Charge Materials (Coal & Dolomite)
3	Material of Construction of Stack	M.S
4	Shape of Stack	Circular
5	Whether Stack is provided with Permanent Platform & Ladders	Permanent
6	Capacity	**100 TPD X 2**
B.	**Physical Characteristics of Stack**	
1	Height of the stack	
	(a) from Ground Level (m)	55.0
	(b) from Roof Level (m)	-
2	Diameter of the stack	
	(a) at bottom (m)	-
	(b) at top (m)	-
3	Diameter of the stack at sampling point (m)	2.0
4	Height of the sampling point from GL (m)	-
C.	**Analysis/Characteristics of Stack**	
1	Fuel used	Coal
2	Fuel consumption	1.1 T/hr.
D	**Results of sampling & Analysis of gaseous emission**	
1	Temperature of emission (°C)	119
2	Barometric Pressure (mmHg)	741
3	Velocity of gas in duct (M/sec)	10.39
4	Quantity of gas flow (Nm^3/hr)	85866
5	Concentration of SO2 (mg/Nm^3)	102
6	Concentration of NOx (mg/Nm^3)	-
7	Concentration of CO (% V/V)	-
8	Concentration of CO_2 (% V/V)	8.2
9	Concentration of PM (mg/Nm^3)	24
E	**Pollution Control Device**	
	Details of pollution control device attached with the stack	ESP
F	**Remarks:** There is a common stack, connected to the DRI Kilns (3 & 4). Both the DRI Kilns (3 & 4) were in operation at the time of sampling.	

For ENVIROTECH EAST (P) LTD.

ENVIROTECH EAST PVT. LTD. 100, Kalikapur, Madurdaha Kolkata 700107

(Authorized Signatory)

ANNEXURE-2

Continuous stack emission monitoring Report (April - 2024 to September - 2024)

VASTHI ENVIRO
Industry: M/s Scania Steels and Powers Limited (Formerly Known as Sidhi Vinayak Sponge Iron Pvt Ltd),
Industry Code: 08CG336
Industry Category: Steel & Iron
Industry Type: Emission
Station : Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln
Raigarh,Chhattisgarh
22 KM Mile Stone,Vil- Punjipatra Gharghoda Road, P.O.-Ruma Suma, District Raigarh

	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(PM)	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(SO2)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln(PM)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln(SO2)
Range	0-500	0-250	0-1000	0-1000
Unit	mg/Nm3	mg/Nm3	mg/Nm3	mg/Nm3
Limit	100	-NA-	100	-NA-
Min	27.26	32.2	27.3	24.77
Max	27.68	32.82	27.83	25.2
Avg	27.47	32.5	27.5	24.99

SL	Datentime	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(PM)	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(SO2)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln(PM)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln(SO2)
1	2024-04-01 00:00:00	27.547	32.586	27.451	24.993
2	2024-04-02 00:00:00	27.385	32.2	27.445	24.999
3	2024-04-03 00:00:00	27.519	32.579	27.504	24.933
4	2024-04-04 00:00:00	27.357	32.416	27.423	24.947
5	2024-04-05 00:00:00	27.476	32.43	27.49	25.061
6	2024-04-06 00:00:00	27.4	32.624	27.301	24.876
7	2024-04-07 00:00:00	27.677	32.315	27.346	25
8	2024-04-08 00:00:00	27.445	32.521	27.543	25.019
9	2024-04-09 00:00:00	27.532	32.629	27.519	24.922

VASTHI ENVIRO

Industry: M/s Scania Steels and Powers Limited (Formerly Known as Sidhi Vinayak Sponge Iron Pvt Ltd),
Industry Code: 08CG336
Industry Category: Steel & Iron
Industry Type: Emission
Station : Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln
Raigarh,Chhattisgarh
22 KM Mile Stone,Vil- Punjipatra Gharghoda Road, P.O.-Ruma Suma, District Raigarh

SL	Datentime	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(PM)	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(SO2)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4 Kiln(PM)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4 Kiln(SO2)
10	2024-04-10 00:00:00	27.361	32.329	27.534	24.767
11	2024-04-11 00:00:00	27.614	32.584	27.491	25.059
12	2024-04-12 00:00:00	27.585	32.529	27.49	24.985
13	2024-04-13 00:00:00	27.436	32.471	27.45	24.878
14	2024-04-14 00:00:00	27.423	32.244	27.466	25.152
15	2024-04-15 00:00:00	27.484	32.474	27.385	25.203
16	2024-04-16 00:00:00	27.582	32.737	27.55	24.901
17	2024-04-17 00:00:00	27.423	32.56	27.387	25.005
18	2024-04-18 00:00:00	27.255	32.675	27.831	25.124
19	2024-04-19 00:00:00	27.655	32.68	27.547	25.036
20	2024-04-20 00:00:00	27.597	32.502	27.478	24.979
21	2024-04-21 00:00:00	27.341	32.456	27.612	25.084
22	2024-04-22 00:00:00	27.357	32.318	27.443	24.912
23	2024-04-23 00:00:00	27.41	32.45	27.634	24.95

VASTHI ENVIRO

Industry: M/s Scania Steels and Powers Limited (Formerly Known as Sidhi Vinayak Sponge Iron Pvt Ltd),
Industry Code: 08CG336
Industry Category: Steel & Iron
Industry Type: Emission
Station : Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln
Raigarh,Chhattisgarh
22 KM Mile Stone,Vil- Punjipatra Gharghoda Road, P.O.-Ruma Suma, District Raigarh

SL	Datentime	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(PM)	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(SO2)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4 Kiln(PM)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4 Kiln(SO2)
24	2024-04-24 00:00:00	27.364	32.818	27.463	24.914
25	2024-04-25 00:00:00	27.534	32.504	27.533	25.02
26	2024-04-26 00:00:00	27.41	32.378	27.538	24.897
27	2024-04-27 00:00:00	27.417	32.668	27.486	25.066
28	2024-04-28 00:00:00	27.445	32.526	27.481	24.975
29	2024-04-29 00:00:00	27.611	32.434	27.594	25.023

VASTHI ENVIRO

Industry: M/s Scania Steels and Powers Limited (Formerly Known as Sidhi Vinayak Sponge Iron Pvt Ltd),
Industry Code: 08CG336
Industry Category: Steel & Iron
Industry Type: Emission
Station : Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln
Raigarh,Chhattisgarh
22 KM Mile Stone,Vil- Punjipatra Gharghoda Road, P.O.-Ruma Suma, District Raigarh

	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(PM)	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(SO2)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln(PM)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln(SO2)
Range	0-500	0-250	0-1000	0-1000
Unit	mg/Nm3	mg/Nm3	mg/Nm3	mg/Nm3
Limit	100	-NA-	100	-NA-
Min	27.32	32.19	27.26	24.8
Max	27.72	32.86	27.76	25.16
Avg	27.51	32.54	27.51	24.98

SL	Datentime	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(PM)	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(SO2)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln(PM)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln(SO2)
1	2024-05-01 00:00:00	27.455	32.525	27.636	24.98
2	2024-05-02 00:00:00	27.471	32.49	27.508	25.037
3	2024-05-03 00:00:00	27.607	32.674	27.599	25.009
4	2024-05-04 00:00:00	27.43	32.336	27.285	25.082
5	2024-05-05 00:00:00	27.408	32.834	27.589	25.071
6	2024-05-06 00:00:00	27.587	32.331	27.598	24.98
7	2024-05-07 00:00:00	27.521	32.781	27.762	24.916
8	2024-05-08 00:00:00	27.605	32.185	27.632	25.061
9	2024-05-09 00:00:00	27.422	32.39	27.644	24.916

VASTHI ENVIRO

Industry: M/s Scania Steels and Powers Limited (Formerly Known as Sidhi Vinayak Sponge Iron Pvt Ltd),
Industry Code: 08CG336
Industry Category: Steel & Iron
Industry Type: Emission
Station : Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln
Raigarh,Chhattisgarh
22 KM Mile Stone,Vil- Punjipatra Gharghoda Road, P.O.-Ruma Suma, District Raigarh

SL	Datentime	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(PM)	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(SO2)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4 Kiln(PM)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4 Kiln(SO2)
10	2024-05-10 00:00:00	27.446	32.483	27.445	24.972
11	2024-05-11 00:00:00	27.672	32.787	27.376	25.053
12	2024-05-12 00:00:00	27.496	32.593	27.382	24.956
13	2024-05-13 00:00:00	27.491	32.492	27.435	25.155
14	2024-05-14 00:00:00	27.691	32.615	27.62	25.011
15	2024-05-15 00:00:00	27.452	32.335	27.399	25.084
16	2024-05-16 00:00:00	27.468	32.604	27.565	24.928
17	2024-05-17 00:00:00	27.463	32.621	27.591	24.998
18	2024-05-18 00:00:00	27.399	32.74	27.472	24.904
19	2024-05-19 00:00:00	27.329	32.506	27.264	24.978
20	2024-05-20 00:00:00	27.513	32.616	27.52	25.016
21	2024-05-21 00:00:00	27.642	32.862	27.467	24.939
22	2024-05-22 00:00:00	27.483	32.356	27.409	24.857
23	2024-05-23 00:00:00	27.521	32.677	27.267	24.918

VASTHI ENVIRO

Industry: M/s Scania Steels and Powers Limited (Formerly Known as Sidhi Vinayak Sponge Iron Pvt Ltd),
Industry Code: 08CG336
Industry Category: Steel & Iron
Industry Type: Emission
Station : Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln
Raigarh,Chhattisgarh
22 KM Mile Stone,Vil- Punjipatra Gharghoda Road, P.O.-Ruma Suma, District Raigarh

SL	Datentime	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(PM)	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(SO2)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4 Kiln(PM)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4 Kiln(SO2)
24	2024-05-24 00:00:00	27.541	32.587	27.573	25.042
25	2024-05-25 00:00:00	27.318	32.52	27.64	25.01
26	2024-05-26 00:00:00	27.472	32.319	27.7	24.851
27	2024-05-27 00:00:00	27.4	32.479	27.513	24.803
28	2024-05-28 00:00:00	27.724	32.568	27.586	25.028
29	2024-05-29 00:00:00	27.538	32.429	27.277	24.996
30	2024-05-30 00:00:00	27.716	32.574	27.53	24.921

VASTHI ENVIRO

Industry: M/s Scania Steels and Powers Limited (Formerly Known as Sidhi Vinayak Sponge Iron Pvt Ltd),
Industry Code: 08CG336
Industry Category: Steel & Iron
Industry Type: Emission
Station : Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln
Raigarh,Chhattisgarh
22 KM Mile Stone,Vil- Punjipatra Gharghoda Road, P.O.-Ruma Suma, District Raigarh

	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(PM)	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(SO2)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln(PM)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln(SO2)
Range	0-500	0-250	0-1000	0-1000
Unit	mg/Nm3	mg/Nm3	mg/Nm3	mg/Nm3
Limit	100	-NA-	100	-NA-
Min	27.33	31.99	27.28	24.86
Max	27.74	32.85	27.62	25.14
Avg	27.49	32.47	27.48	25.01

SL	Datentime	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(PM)	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(SO2)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln(PM)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln(SO2)
1	2024-06-01 00:00:00	27.426	32.59	27.497	24.98
2	2024-06-02 00:00:00	27.414	32.486	27.556	25.136
3	2024-06-03 00:00:00	27.375	32.353	27.539	25.043
4	2024-06-04 00:00:00	27.573	32.685	27.62	24.975
5	2024-06-05 00:00:00	27.597	31.992	27.489	25.047
6	2024-06-06 00:00:00	27.332	32.808	27.546	24.863
7	2024-06-07 00:00:00	27.53	32.47	27.425	24.874
8	2024-06-08 00:00:00	27.495	32.23	27.522	24.949
9	2024-06-09 00:00:00	27.409	32.369	27.565	25.011

VASTHI ENVIRO

Industry: M/s Scania Steels and Powers Limited (Formerly Known as Sidhi Vinayak Sponge Iron Pvt Ltd),
Industry Code: 08CG336
Industry Category: Steel & Iron
Industry Type: Emission
Station : Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln
Raigarh,Chhattisgarh
22 KM Mile Stone,Vil- Punjipatra Gharghoda Road, P.O.-Ruma Suma, District Raigarh

SL	Datentime	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(PM)	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(SO2)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4 Kiln(PM)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4 Kiln(SO2)
10	2024-06-10 00:00:00	27.392	32.561	27.565	25.08
11	2024-06-11 00:00:00	27.488	32.433	27.359	25.054
12	2024-06-12 00:00:00	27.654	32.653	27.46	24.986
13	2024-06-13 00:00:00	NA	NA	NA	NA
14	2024-06-14 00:00:00	NA	NA	NA	NA
15	2024-06-15 00:00:00	NA	NA	NA	NA
16	2024-06-16 00:00:00	27.671	32.227	27.402	24.921
17	2024-06-17 00:00:00	27.465	32.474	27.499	24.94
18	2024-06-18 00:00:00	27.435	32.726	27.278	24.984
19	2024-06-19 00:00:00	27.542	32.85	27.467	25.138
20	2024-06-20 00:00:00	27.428	32.265	27.409	25.021
21	2024-06-21 00:00:00	27.527	32.6	27.492	24.896
22	2024-06-22 00:00:00	27.397	32.506	27.571	25.062
23	2024-06-23 00:00:00	27.547	32.398	27.426	25.022

VASTHI ENVIRO

Industry: M/s Scania Steels and Powers Limited (Formerly Known as Sidhi Vinayak Sponge Iron Pvt Ltd),
Industry Code: 08CG336
Industry Category: Steel & Iron
Industry Type: Emission
Station : Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln
Raigarh,Chhattisgarh
22 KM Mile Stone,Vil- Punjipatra Gharghoda Road, P.O.-Ruma Suma, District Raigarh

SL	Datentime	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(PM)	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(SO2)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4 Kiln(PM)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4 Kiln(SO2)
24	2024-06-24 00:00:00	27.597	32.208	27.603	25.081
25	2024-06-25 00:00:00	27.424	32.511	27.379	25.019
26	2024-06-26 00:00:00	27.34	32.644	27.452	24.985
27	2024-06-27 00:00:00	27.409	32.225	27.582	25.099
28	2024-06-28 00:00:00	27.442	32.24	27.354	25.105
29	2024-06-29 00:00:00	27.743	32.678	27.47	24.96

VASTHI ENVIRO
Industry: M/s Scania Steels and Powers Limited (Formerly Known as Sidhi Vinayak Sponge Iron Pvt Ltd),
Industry Code: 08CG336
Industry Category: Steel & Iron
Industry Type: Emission
Station : Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln
Raigarh,Chhattisgarh
22 KM Mile Stone,Vil- Punjipatra Gharghoda Road, P.O.-Ruma Suma, District Raigarh

	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(PM)	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(SO2)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln(PM)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln(SO2)
Range	0-500	0-250	0-1000	0-1000
Unit	mg/Nm3	mg/Nm3	mg/Nm3	mg/Nm3
Limit	100	-NA-	100	-NA-
Min	27.3	32.01	27.25	24.79
Max	27.85	32.82	27.73	25.09
Avg	27.49	32.49	27.5	24.98

SL	Datentime	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(PM)	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(SO2)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln(PM)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln(SO2)
1	2024-07-01 00:00:00	27.478	32.343	27.482	25.005
2	2024-07-02 00:00:00	27.678	32.706	27.651	25.087
3	2024-07-03 00:00:00	27.683	32.134	27.628	24.957
4	2024-07-04 00:00:00	27.428	32.38	27.628	24.949
5	2024-07-05 00:00:00	27.4	32.711	27.461	24.962
6	2024-07-06 00:00:00	27.548	32.623	27.615	24.786
7	2024-07-07 00:00:00	27.575	32.341	27.465	24.904
8	2024-07-08 00:00:00	27.415	32.009	27.448	24.944
9	2024-07-09 00:00:00	27.408	32.694	27.732	24.964

VASTHI ENVIRO

Industry: M/s Scania Steels and Powers Limited (Formerly Known as Sidhi Vinayak Sponge Iron Pvt Ltd),
Industry Code: 08CG336
Industry Category: Steel & Iron
Industry Type: Emission
Station : Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln
Raigarh,Chhattisgarh
22 KM Mile Stone,Vil- Punjipatra Gharghoda Road, P.O.-Ruma Suma, District Raigarh

SL	Datentime	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(PM)	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(SO2)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4 Kiln(PM)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4 Kiln(SO2)
10	2024-07-10 00:00:00	27.607	32.623	27.544	24.872
11	2024-07-11 00:00:00	27.427	32.414	27.579	25.09
12	2024-07-12 00:00:00	27.417	32.822	27.366	24.861
13	2024-07-13 00:00:00	27.501	32.177	27.543	25.081
14	2024-07-14 00:00:00	27.854	32.389	27.505	24.937
15	2024-07-15 00:00:00	27.435	32.419	27.536	25.065
16	2024-07-16 00:00:00	27.411	32.757	27.53	25.058
17	2024-07-17 00:00:00	27.378	32.221	27.415	24.92
18	2024-07-18 00:00:00	27.456	32.434	27.509	25.026
19	2024-07-19 00:00:00	27.513	32.36	27.354	25.081
20	2024-07-20 00:00:00	27.428	32.56	27.246	25.073
21	2024-07-21 00:00:00	27.548	32.398	27.499	25.04
22	2024-07-22 00:00:00	27.383	32.775	27.516	24.991
23	2024-07-23 00:00:00	27.296	32.511	27.638	24.945

VASTHI ENVIRO

Industry: M/s Scania Steels and Powers Limited (Formerly Known as Sidhi Vinayak Sponge Iron Pvt Ltd),
Industry Code: 08CG336
Industry Category: Steel & Iron
Industry Type: Emission
Station : Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln
Raigarh,Chhattisgarh
22 KM Mile Stone,Vil- Punjipatra Gharghoda Road, P.O.-Ruma Suma, District Raigarh

SL	Datentime	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(PM)	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(SO2)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4 Kiln(PM)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4 Kiln(SO2)
24	2024-07-24 00:00:00	27.524	32.503	27.595	24.968
25	2024-07-25 00:00:00	27.423	32.607	27.403	24.972
26	2024-07-26 00:00:00	27.49	32.355	27.62	24.912
27	2024-07-27 00:00:00	27.525	32.802	27.448	25.03
28	2024-07-28 00:00:00	27.534	32.426	27.517	25.024
29	2024-07-29 00:00:00	27.651	32.668	27.266	24.922
30	2024-07-30 00:00:00	27.404	32.494	27.408	24.961

VASTHI ENVIRO

Industry: M/s Scania Steels and Powers Limited (Formerly Known as Sidhi Vinayak Sponge Iron Pvt Ltd),
Industry Code: 08CG336
Industry Category: Steel & Iron
Industry Type: Emission
Station : Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln
Raigarh,Chhattisgarh
22 KM Mile Stone,Vil- Punjipatra Gharghoda Road, P.O.-Ruma Suma, District Raigarh

	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(PM)	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(SO2)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln(PM)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln(SO2)
Range	0-500	0-250	0-1000	0-1000
Unit	mg/Nm3	mg/Nm3	mg/Nm3	mg/Nm3
Limit	100	-NA-	100	-NA-
Min	27.32	32.11	27.38	24.88
Max	27.64	32.85	27.62	25.14
Avg	27.48	32.49	27.52	25

SL	Datentime	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(PM)	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(SO2)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln(PM)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln(SO2)
1	2024-08-01 00:00:00	27.475	32.618	27.415	24.981
2	2024-08-02 00:00:00	27.479	32.287	27.574	25.076
3	2024-08-03 00:00:00	NA	NA	NA	NA
4	2024-08-04 00:00:00	NA	NA	NA	NA
5	2024-08-05 00:00:00	27.528	32.434	27.459	25.031
6	2024-08-06 00:00:00	27.487	32.301	27.595	25.062
7	2024-08-07 00:00:00	NA	NA	NA	NA
8	2024-08-08 00:00:00	27.323	32.563	27.584	25.031
9	2024-08-09 00:00:00	27.438	32.294	27.562	25.022

VASTHI ENVIRO

Industry: M/s Scania Steels and Powers Limited (Formerly Known as Sidhi Vinayak Sponge Iron Pvt Ltd),
Industry Code: 08CG336
Industry Category: Steel & Iron
Industry Type: Emission
Station : Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln
Raigarh,Chhattisgarh
22 KM Mile Stone,Vil- Punjipatra Gharghoda Road, P.O.-Ruma Suma, District Raigarh

SL	Datentime	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(PM)	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(SO2)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4 Kiln(PM)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4 Kiln(SO2)
10	2024-08-10 00:00:00	27.432	32.7	27.475	24.965
11	2024-08-11 00:00:00	27.402	32.563	27.617	25.129
12	2024-08-12 00:00:00	27.424	32.545	27.54	24.951
13	2024-08-13 00:00:00	27.558	32.419	27.493	25.045
14	2024-08-14 00:00:00	27.464	32.254	27.484	24.896
15	2024-08-15 00:00:00	27.599	32.693	27.444	24.954
16	2024-08-16 00:00:00	27.384	32.358	27.59	25.017
17	2024-08-17 00:00:00	27.469	32.332	27.379	25.003
18	2024-08-18 00:00:00	27.431	32.57	27.552	24.982
19	2024-08-19 00:00:00	27.582	32.656	27.534	25.045
20	2024-08-20 00:00:00	27.506	32.509	27.535	24.902
21	2024-08-21 00:00:00	27.6	32.682	27.443	25.138
22	2024-08-22 00:00:00	27.474	32.624	27.593	24.884
23	2024-08-23 00:00:00	27.384	32.364	27.571	24.916

VASTHI ENVIRO

Industry: M/s Scania Steels and Powers Limited (Formerly Known as Sidhi Vinayak Sponge Iron Pvt Ltd),
Industry Code: 08CG336
Industry Category: Steel & Iron
Industry Type: Emission
Station : Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln
Raigarh,Chhattisgarh
22 KM Mile Stone,Vil- Punjipatra Gharghoda Road, P.O.-Ruma Suma, District Raigarh

SL	Datentime	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(PM)	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(SO2)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4 Kiln(PM)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4 Kiln(SO2)
24	2024-08-24 00:00:00	27.318	32.267	27.577	25.034
25	2024-08-25 00:00:00	NA	NA	NA	NA
26	2024-08-26 00:00:00	NA	NA	NA	NA
27	2024-08-27 00:00:00	27.538	32.722	27.438	24.95
28	2024-08-28 00:00:00	27.561	32.11	27.52	24.996
29	2024-08-29 00:00:00	27.644	32.613	27.595	25.013
30	2024-08-30 00:00:00	27.382	32.854	27.491	24.939

VASTHI ENVIRO
Industry: M/s Scania Steels and Powers Limited (Formerly Known as Sidhi Vinayak Sponge Iron Pvt Ltd),
Industry Code: 08CG336
Industry Category: Steel & Iron
Industry Type: Emission
Station : Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln
Raigarh,Chhattisgarh
22 KM Mile Stone,Vil- Punjipatra Gharghoda Road, P.O.-Ruma Suma, District Raigarh

	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(PM)	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(SO2)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln(PM)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln(SO2)
Range	0-500	0-250	0-1000	0-1000
Unit	mg/Nm3	mg/Nm3	mg/Nm3	mg/Nm3
Limit	100	-NA-	100	-NA-
Min	27.16	31.9	27.23	24.87
Max	27.76	32.9	27.71	25.16
Avg	27.5	32.4	27.48	25.02

SL	Datentime	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(PM)	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(SO2)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln(PM)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln(SO2)
1	2024-09-01 00:00:00	27.563	32.449	27.591	24.875
2	2024-09-02 00:00:00	27.439	32.082	27.43	24.995
3	2024-09-03 00:00:00	27.756	31.9	27.228	25.158
4	2024-09-04 00:00:00	27.517	32.604	27.408	25.042
5	2024-09-05 00:00:00	27.47	32.375	27.457	25.041
6	2024-09-06 00:00:00	27.436	32.271	27.45	25.158
7	2024-09-07 00:00:00	27.409	32.903	27.523	24.982
8	2024-09-08 00:00:00	27.161	32.486	27.448	25.021
9	2024-09-09 00:00:00	27.676	32.635	27.406	25.062

VASTHI ENVIRO

Industry: M/s Scania Steels and Powers Limited (Formerly Known as Sidhi Vinayak Sponge Iron Pvt Ltd),
Industry Code: 08CG336
Industry Category: Steel & Iron
Industry Type: Emission
Station : Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln
Raigarh,Chhattisgarh
22 KM Mile Stone,Vil- Punjipatra Gharghoda Road, P.O.-Ruma Suma, District Raigarh

SL	Datentime	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(PM)	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(SO2)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4 Kiln(PM)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4 Kiln(SO2)
10	2024-09-10 00:00:00	27.648	32.562	27.709	24.925
11	2024-09-11 00:00:00	27.571	32.445	27.542	25.012
12	2024-09-12 00:00:00	27.575	32.686	27.425	25.101
13	2024-09-13 00:00:00	27.32	32.136	27.331	25.03
14	2024-09-14 00:00:00	27.45	32.324	27.554	24.928
15	2024-09-15 00:00:00	27.605	32.309	27.534	24.969
16	2024-09-16 00:00:00	27.535	32.065	27.523	24.973
17	2024-09-17 00:00:00	27.593	32.358	27.561	24.934
18	2024-09-18 00:00:00	27.55	32.385	27.455	25.097
19	2024-09-19 00:00:00	27.363	32.319	27.566	25.059
20	2024-09-20 00:00:00	27.494	32.553	27.526	24.998
21	2024-09-21 00:00:00	27.542	32.465	27.59	25.013
22	2024-09-22 00:00:00	NA	NA	NA	NA
23	2024-09-23 00:00:00	NA	NA	NA	NA

VASTHI ENVIRO

Industry: M/s Scania Steels and Powers Limited (Formerly Known as Sidhi Vinayak Sponge Iron Pvt Ltd),
Industry Code: 08CG336
Industry Category: Steel & Iron
Industry Type: Emission
Station : Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4Kiln
Raigarh,Chhattisgarh
22 KM Mile Stone,Vil- Punjipatra Gharghoda Road, P.O.-Ruma Suma, District Raigarh

SL	Datentime	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(PM)	Stack_1_ESP_Sponge_Iron2x100_TPD_DRI_Kiln_1_2(SO2)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4 Kiln(PM)	Stack_2_ESP_Sponge_Iron_2x100_TPD_DRI_3and4 Kiln(SO2)
24	2024-09-24 00:00:00	27.475	32.242	27.501	24.989
25	2024-09-25 00:00:00	27.635	32.445	27.44	25.053
26	2024-09-26 00:00:00	27.508	32.598	27.504	25.087
27	2024-09-27 00:00:00	27.324	32.492	27.318	25.013
28	2024-09-28 00:00:00	27.525	32.316	27.362	25.055
29	2024-09-29 00:00:00	27.377	32.498	27.598	25.068

ANNEXURE-3

Ambient Air Quality Monitoring Report (April, 2024 to September, 2024)

Envirotech

Envirotech East Pvt. Limited

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company

- Laboratory Accrediated by NABL, as per ISO/IEC 17025 :2017
- Laboratory Recognized by WBPCB
- Accredited EIA Consultant by QCI-NABET

100, Kalikapur, Madurdaha, Kolkata – 700 107, West Bengal, India

☎ – + 91 33 2443 8127/8128 ; + 91 33 4063 5011; email: eeplkol@gmail.com; eeplkol2@gmail.com

CIN NO : U74210WB1989PTC047403

ANX-3

Name of Industry	**M/s. Scania Steels & Powers Ltd. (Formerly Known as Sidhi Vinayak Sponge Iron Pvt. Ltd.)**
Address	22 KM Stone Gharghoda Road, Vill: Punjipatra, Raigarh, Pin: 496 011

TABLE: - I

Onsite Ambient Air Quality Monitoring Results

Location | Project Site

(Period: April 2024 To September 2024)

DATE	PM_{10} (µg/m3)	$PM_{2.5}$ (µg/m3)	SO_2 (µg/m3)	NO_2 (µg/m3)
01.04.2024	83	40	17	33
04.04.2024	74	35	8	24
08.04.2024	86	39	10	30
11.04.2024	69	30	14	22
15.04.2024	82	38	12	28
18.04.2024	70	32	9	23
22.04.2024	76	36	15	18
25.04.2024	63	27	10	28
02.05.2024	93	46	12	15
06.05.2024	78	31	14	20
09.05.2024	73	34	19	16
13.05.2024	67	30	13	18
16.05.2024	62	25	11	14
20.05.2024	75	35	14	21
23.05.2024	81	39	19	17
27.05.2024	66	27	15	29
03.06.2024	84	39	17	24
06.06.2024.	69	26	13	15
10.06.2024	74	33	11	27
13.06.2024	65	27	15	15
17.06.2024	75	32	12	20
20.06.2024	70	30	16	23
24.06.2024	62	25	18	17
27.06.2024	69	31	16	26
01.07.2024	61	26	11	14
04.07.2024	65	27	6	20
08.07.2024	54	23	9	15
11.07.2024	58	26	7	17

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CIN NO : U74210WB1989PTC047403

ANX-3

DATE	PM_{10} (µg/m3)	$PM_{2.5}$ (µg/m3)	SO_2 (µg/m3)	NO_2 (µg/m3)
15.07.2024	55	22	11	25
18.07.2024	67	27	7	15
22.07.2024	61	22	10	23
25.04.2024	55	21	13	16
01.08.2024	65	29	9	22
05.08.2024	63	24	7	25
08.08.2024	55	25	8	15
12.08.2024	70	32	11	20
15.08.2024	58	25	8	14
19.08.2024	60	27	10	21
22.08.2024	55	23	8	16
26.08.2024	57	25	11	27
02.09.2024	63	28	8	15
05.09.2024	60	26	6	20
09.09.2024	77	36	10	29
12.09.2024	62	25	11	27
16.09.2024	70	34	15	31
19.09.2024	68	31	10	20
23.09.2024	80	37	13	26
26.09.2024	74	35	8	24

TABLE: - 2
Onsite Ambient Air Quality Monitoring Results
Location | Samaruma Village
(Period: April 2024 To September 2024)

DATE	PM_{10} (µg/m³)	$PM_{2.5}$ (µg/m³)	SO_2 (µg/m³)	NO_2 (µg/m³)
01.04.2024	75	37	11	23
04.04.2024	61	27	9	18
08.04.2024	73	35	12	20
11.04.2024	63	30	13	27
15.04.2024	71	33	9	24
18.04.2024	82	39	6	27
22.04.2024	63	27	13	14
25.04.2024	77	35	9	28

Envirotech East Pvt. Limited

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CIN NO : U74210WB1989PTC047403

ANX-3

DATE	PM_{10}	$PM_{2.5}$	SO_2	NO_2
	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)
02.05.2024	59	23	12	18
06.05.2024	69	32	9	15
09.05.2024	61	26	11	26
13.05.2024	67	31	6	23
16.05.2024	57	23	10	19
20.05.2024	70	24	9	16
23.05.2024	63	27	10	21
27.05.2024	65	31	8	25
03.06.2024	55	21	5	17
06.06.2024.	50	19	7	24
10.06.2024	73	22	9	15
13.06.2024	50	19	6	10
17.06.2024	62	25	4	13
20.06.2024	54	22	7	15
24.06.2024	60	25	6	22
27.06.2024	52	23	10	15
01.07.2024	63	27	4	18
04.07.2024	56	25	5	11
08.07.2024	64	22	7	17
11.07.2024	57	24	9	13
15.07.2024	52	19	7	15
18.07.2024	59	24	4	19
22.07.2024	65	29	8	12
25.04.2024	49	18	5	21
01.08.2024	61	27	7	15
05.08.2024	51	21	4	18
08.08.2024	57	25	5	14
12.08.2024	60	26	9	12
15.08.2024	55	24	7	17
19.08.2024	64	26	8	15
22.08.2024	56	22	5	18
26.08.2024	68	31	10	14
02.09.2024	70	32	10	25
05.09.2024	57	21	6	16

Envirotech East Pvt. Limited
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CIN NO : U74210WB1989PTC047403

ANX-3

DATE	PM_{10} (µg/m3)	$PM_{2.5}$ (µg/m3)	SO_2 (µg/m3)	NO_2 (µg/m3)
09.09.2024	67	31	11	21
12.09.2024	58	26	8	14
16.09.2024	63	28	7	17
19.09.2024	50	18	9	20
23.09.2024	66	31	6	12
26.09.2024	55	22	8	19

TABLE: - 3
Onsite Ambient Air Quality Monitoring Results
Location | Parkipahari Village
(Period: April 2024 To September 2024)

DATE	PM_{10} (µg/m^3)	$PM_{2.5}$ (µg/m^3)	SO_2 (µg/m^3)	NO_2 (µg/m^3)
02.04.2024	67	30	6	27
05.04.2024	70	33	7	22
09.04.2024	64	28	9	19
12.04.2024	55	20	6	25
16.04.2024	71	32	5	26
19.04.2024	64	31	6	32
23.04.2024	77	36	4	28
26.04.2024	60	28	8	23
03.05.2024	68	31	5	13
07.05.2024	76	34	9	25
10.05.2024	70	30	8	24
14.05.2024	65	28	4	18
17.05.2024	59	22	6	22
21.05.2024	62	26	5	19
24.05.2024	74	34	9	25
28.05.2024	65	28	7	17
04.06.2024	60	24	6	14
07.06.2024.	71	32	8	23
11.06.2024	68	29	4	13
14.06.2024	78	36	6	21
18.06.2024	67	27	5	25
21.06.2024	58	20	8	18

Envirotech East Pvt. Limited

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company

- Laboratory Accrediated by NABL, as per ISO/IEC 17025 :2017
- Laboratory Recognized by WBPCB
- Accredited EIA Consultant by QCI-NABET

100, Kalikapur, Madurdaha, Kolkata – 700 107, West Bengal, India

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CIN NO : U74210WB1989PTC047403

ANX-3

DATE	PM_{10} (µg/m3)	$PM_{2.5}$ (µg/m3)	SO_2 (µg/m3)	NO_2 (µg/m3)
25.06.2024	70	32	4	14
28.06.2024	64	29	6	20
02.07.2024	58	20	5	17
05.07.2024	69	32	7	13
09.07.2024	60	25	4	19
12.07.2024	46	16	8	16
16.07.2024	59	27	5	12
19.07.2024	64	30	4	23
23.07.2024	52	23	6	17
26.04.2024	60	28	5	24
02.08.2024	54	22	7	15
06.08.2024	63	28	4	12
09.08.2024	55	23	6	15
13.08.2024	49	19	5	17
16.08.2024	57	25	4	13
20.08.2024	53	20	6	22
23.08.2024	60	27	5	16
27.08.2024	65	30	4	23
03.09.2024	46	22	7	19
06.09.2024	55	24	5	24
10.09.2024	62	28	4	18
13.09.2024	56	21	8	16
17.09.2024	50	18	5	22
20.09.2024	65	30	6	12
24.09.2024	48	17	9	16
27.09.2024	53	22	7	20

Envirotech East Pvt. Limited
An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company
- Laboratory Accrediated by NABL, as per ISO/IEC 17025 :2017
- Laboratory Recognized by WBPCB
- Accredited EIA Consultant by QCI-NABET

100, Kalikapur, Madurdaha, Kolkata – 700 107, West Bengal, India
☎ – + 91 33 2443 8127/8128 ; + 91 33 4063 5011; email: eeplkol@gmail.com; eeplkol2@gmail.com
CIN NO : U74210WB1989PTC047403

ANX-3

TABLE: - 4
Onsite Ambient Air Quality Monitoring Results
Location | Punjipatra Village
(Period: April 2024 To September 2024)

DATE	PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)
02.04.2024	78	37	9	26
05.04.2024	66	30	13	24
09.04.2024	83	41	15	22
12.04.2024	70	33	9	29
16.04.2024	75	35	13	31
19.04.2024	65	30	15	23
23.04.2024	62	29	11	35
26.04.2024	70	34	8	18
03.05.2024	61	27	7	24
07.05.2024	77	38	12	29
10.05.2024	59	28	6	20
14.05.2024	67	32	7	21
17.05.2024	56	26	8	19
21.05.2024	62	30	6	16
24.05.2024	57	25	11	24
28.05.2024	63	29	8	20
04.06.2024	56	22	6	16
07.06.2024.	67	31	7	23
11.06.2024	55	25	8	19
14.06.2024	52	21	6	27
18.06.2024	60	28	7	16
21.06.2024	57	25	8	18
25.06.2024	53	20	7	24
28.06.2024	55	25	8	20
02.07.2024	60	28	6	16
05.07.2024	53	23	10	21
09.07.2024	65	29	8	27
12.07.2024	57	27	6	19
16.07.2024	54	25	9	21
19.07.2024	66	32	7	16
23.07.2024	57	26	6	24

Envirotech East Pvt. Limited

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CIN NO : U74210WB1989PTC047403

ANX-3

DATE	PM_{10}	$PM_{2.5}$	SO_2	NO_2
	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)
26.04.2024	53	23	9	21
02.08.2024	65	31	8	18
06.08.2024	60	27	10	25
09.08.2024	73	36	8	21
13.08.2024	57	26	6	16
16.08.2024	63	30	9	22
20.08.2024	70	34	13	32
23.08.2024	57	26	8	28
27.08.2024	65	30	14	20
03.09.2024	77	37	7	25
06.09.2024	68	31	11	31
10.09.2024	60	27	9	34
13.09.2024	72	35	16	19
17.09.2024	58	26	12	27
20.09.2024	68	32	9	23
24.09.2024	75	36	13	16
27.09.2024	64	29	8	20

For ENVIROTECH EAST (P) LTD.

(Authorized Signatory)

Envirotech

Envirotech East Pvt. Limited

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company

- Laboratory Accrediated by NABL, as per ISO/IEC 17025 :2017
- Laboratory Recognized by WBPCB
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CIN NO : U74210WB1989PTC047403

ANX-3

Name of Industry	**M/s. Scania Steels & Powers Ltd.** **(Formerly Known as Sidhi Vinayak Sponge Iron Pvt. Ltd.)**
Address	22 KM Stone Gharghoda Road, Vill: Punjipatra, Raigarh, Pin: 496 011

Table 1		**Statistical Analysis of Pollutants (Period: April 2024 To September 2024)**				
Pollutants	**Locations**	**MES**	**Min**	**Max**	**A.M.**	**P - 98**
PM_{10} ($\mu g/m^3$)	Project Site	48	54	93	68.3	86.4
	Samaruma Village	48	49	82	61.6	77.3
	Parkipahari Village	48	46	78	61.7	77.1
	Punjipatra Village	48	52	83	63.4	78.3
	Overall	**192**	**46**	**93**	**63.7**	**-**
$PM_{2.5}$ ($\mu g/m^3$)	Project Site	48	21	46	30.0	40.2
	Samaruma Village	48	18	39	26.1	36.9
	Parkipahari Village	48	16	36	26.6	35.9
	Punjipatra Village	48	20	41	29.3	37.9
	Overall	**192**	**16**	**46**	**28.0**	**-**
SO_2 ($\mu g/m^3$)	Project Site	48	6	19	11.6	19.0
	Samaruma Village	48	4	13	7.9	13.0
	Parkipahari Village	48	4	9	6.0	9.0
	Punjipatra Village	48	6	16	9.1	15.1
	Overall	**192**	**4**	**19**	**8.7**	**-**
NO_2 ($\mu g/m^3$)	Project Site	48	14	33	21.3	31.1
	Samaruma Village	48	10	28	18.1	27.1
	Parkipahari Village	48	12	32	19.5	28.2
	Punjipatra Village	48	16	35	22.6	34.1
	Overall	**192**	**10**	**35**	**20.4**	**-**

For ENVIROTECH EAST (P) LTD.

ENVIROTECH EAST PVT. LTD. Kalikapur, Madurdaha Kolkata 700107

(Authorized Signatory)

Envirotech East Pvt. Limited

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company

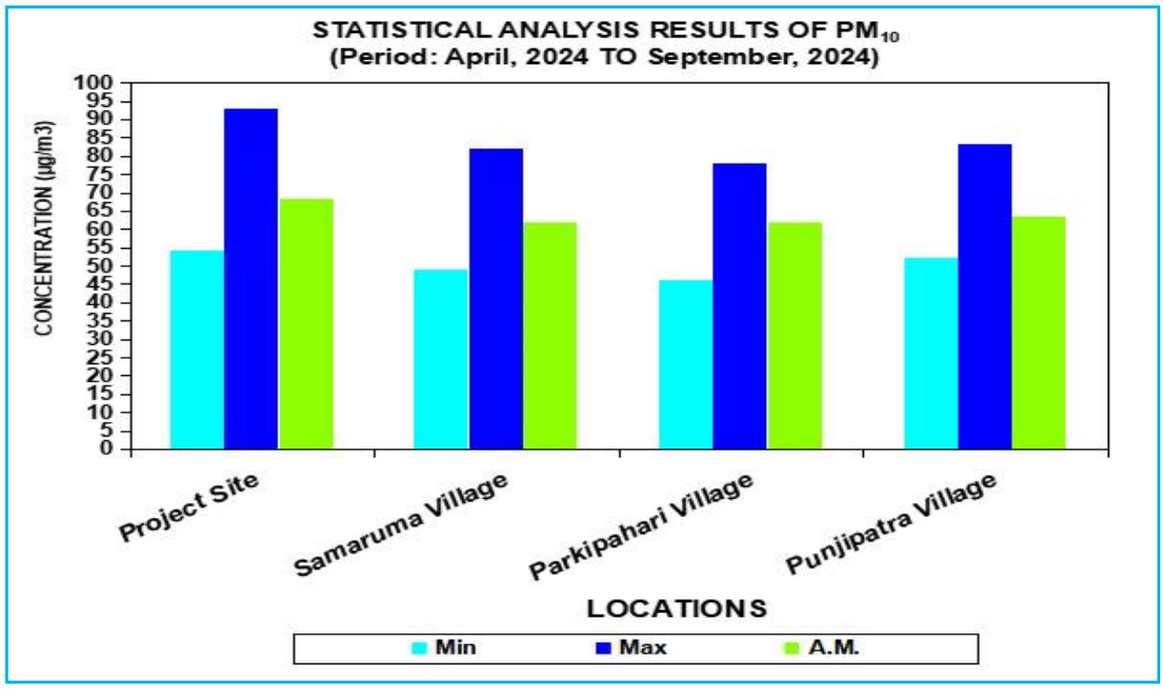
- Laboratory Accrediated by NABL, as per ISO/IEC 17025 :2017
- Laboratory Recognized by WBPCB
- Accredited EIA Consultant by QCI-NABET

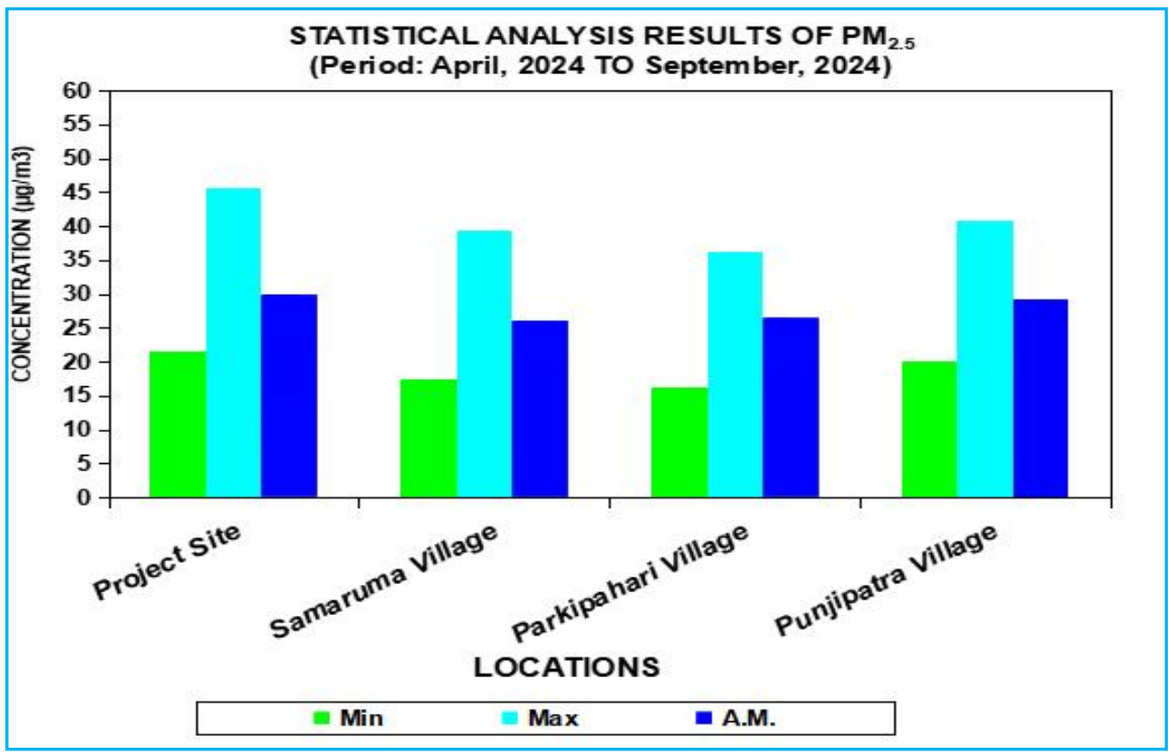
100, Kalikapur, Madurdaha, Kolkata – 700 107, West Bengal, India

☎ – + 91 33 2443 8127/8128 ; + 91 33 4063 5011; email: eeplkol@gmail.com; eeplkol2@gmail.com

CIN NO : U74210WB1989PTC047403

ANX-3





For ENVIROTECH EAST (P) LTD.

(Authorized Signatory)

Envirotech East Pvt. Limited

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company

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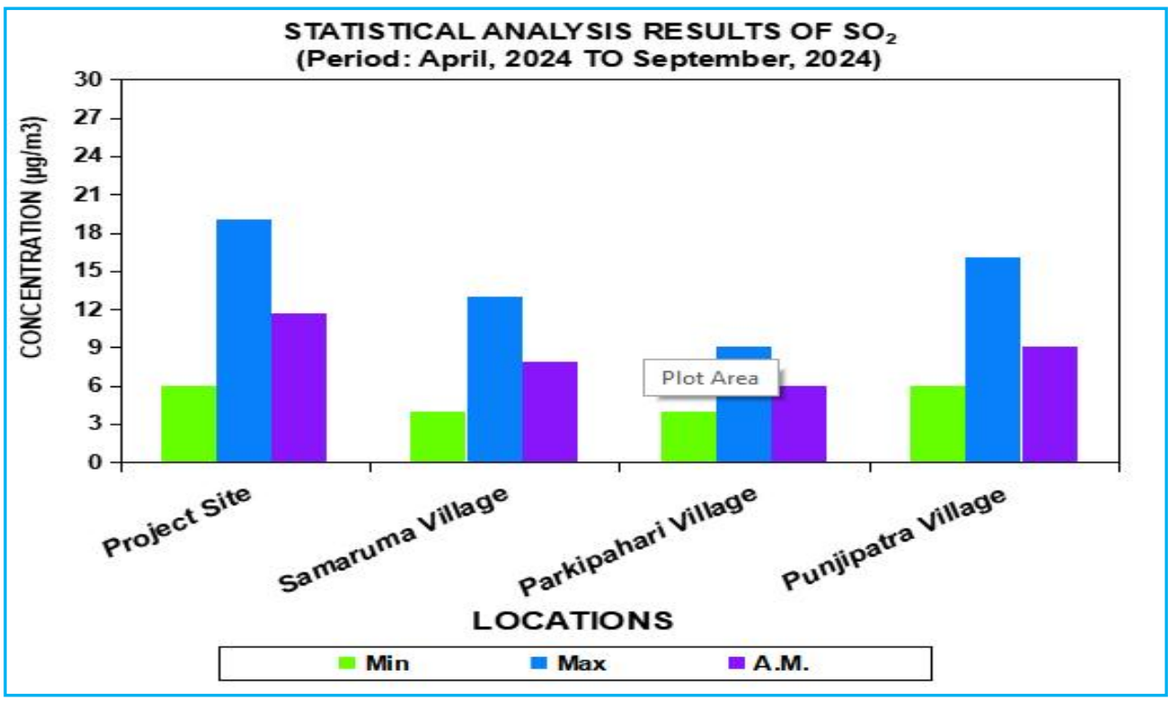
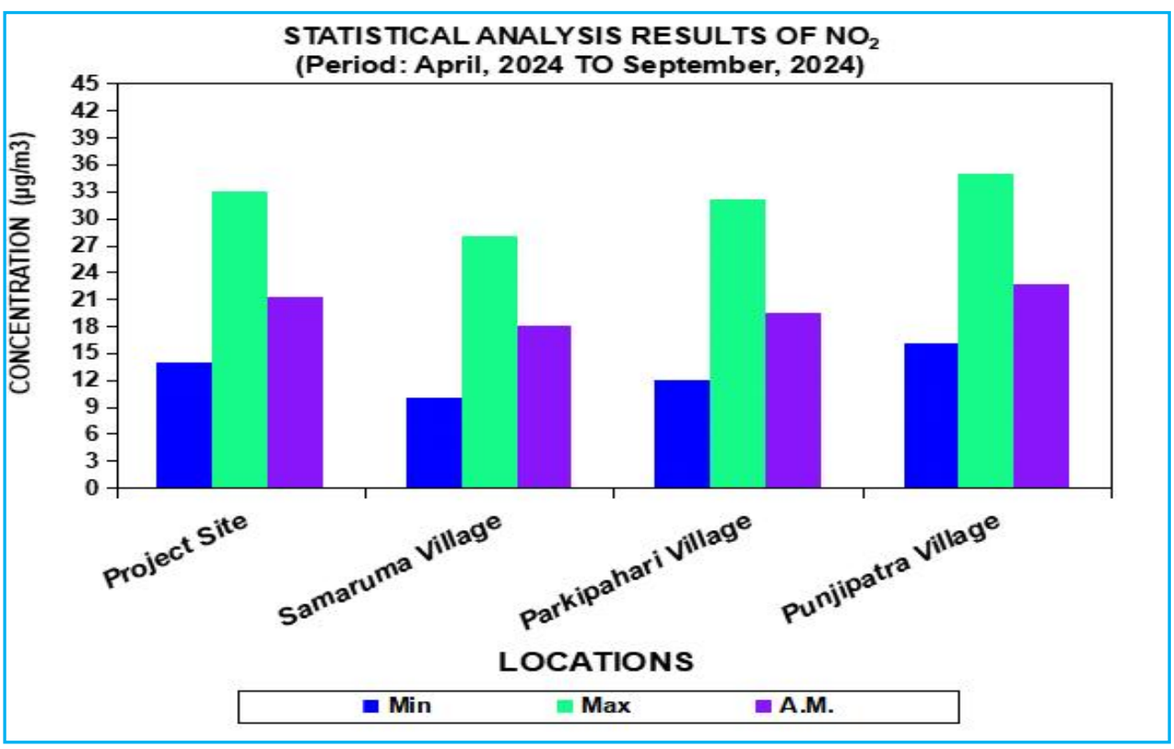
CIN NO : U74210WB1989PTC047403

ANX-3





For ENVIROTECH EAST (P) LTD.

(Authorized Signatory)

ANNEXURE-3

Ambient Air Quality Monitoring Report (April, 2024 to September, 2024)

Real Time Data Acquisition And Monitoring

Site Name: M/s Scania Steels & Powers Limited (Formerly Known as Sidhi Vinayak Sponge Iron Pvt Ltd)

Report: Average Report

From Date: 01-04-2024T00:00:40Z To Date: 30-04-2024T00:00:53Z

Description	AAQMS_1-CO(mg/m3)	AAQMS_1-NO(ug/m3)	AAQMS_1-NO2(ug/m3)	AAQMS_1-NOx(ug/m3)	AAQMS_1-PM2.5(ug/m3)	AAQMS_1-PM10(ug/m3)	AAQMS_1-SO2(ug/m3)
Prescribed Standards	0 - 4	0 - 80	0 - 80	0 - 80	0 - 60	0 - 100	0 - 80
Maximum Data	1.42	6.25	4.97	12.32	113.66	116.6	81.46
Minimum Data	0.57	5.25	4.74	10.95	31.19	1.04	3.08
Geometric Mean	0.84	5.81	4.85	11.76	51.17	39.27	32.11
Median	0.82	5.85	4.84	11.9	47.22	39.59	29.38
Standard Deviation	0.21	0.37	0.05	0.5	18.12	30.6	24.9
Maximum Value At Time	2024-04-04 00:00:00	2024-04-29 00:00:00	2024-04-11 00:00:00	2024-04-24 00:00:00	2024-04-04 00:00:00	2024-04-04 00:00:00	2024-04-19 00:00:00
Minimum Value At Time	2024-04-24 00:00:00	2024-04-19 00:00:00	2024-04-18 00:00:00	2024-04-19 00:00:00	2024-04-23 00:00:00	2024-04-22 00:00:00	2024-04-21 00:00:00
Valid Data Points	29	29	29	29	29	29	29
Total Data Points	29	29	29	29	29	29	29
Data Availability %	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Sl No.	Time	AAQMS_1-CO(mg/m3)	AAQMS_1-NO(ug/m3)	AAQMS_1-NO2(ug/m3)	AAQMS_1-NOx(ug/m3)	AAQMS_1-PM2.5(ug/m3)	AAQMS_1-PM10(ug/m3)	AAQMS_1-SO2(ug/m3)
1	2024-04-01 00:00:00	0.87	5.43	4.88	11.29	49.94	51.99	54.69
2	2024-04-02 00:00:00	1.03	5.56	4.86	11.45	65.13	68.57	42.41
3	2024-04-03 00:00:00	1.14	5.41	4.87	11.27	80.37	81.19	52.95
4	2024-04-04 00:00:00	1.42	5.57	4.86	11.47	113.66	116.60	41.25
5	2024-04-05 00:00:00	1.09	5.38	4.78	11.14	69.80	70.41	59.11
6	2024-04-06 00:00:00	1.33	5.36	4.78	11.13	84.57	82.82	60.55
7	2024-04-07 00:00:00	0.84	5.58	4.88	11.50	49.57	50.49	43.89
8	2024-04-08 00:00:00	0.78	6.17	4.85	12.23	42.94	45.80	12.67

Sl No.	Time	AAQMS_1-CO(mg/m3)	AAQMS_1-NO(ug/m3)	AAQMS_1-NO2(ug/m3)	AAQMS_1-NOx(ug/m3)	AAQMS_1-PM2.5(ug/m3)	AAQMS_1-PM10(ug/m3)	AAQMS_1-SO2(ug/m3)
9	2024-04-09 00:00:00	0.73	6.12	4.87	12.20	38.87	36.75	10.16
10	2024-04-10 00:00:00	1.07	6.00	4.90	12.06	64.67	72.32	19.92
11	2024-04-11 00:00:00	0.83	6.00	4.97	12.12	42.60	40.62	24.32
12	2024-04-12 00:00:00	0.85	6.05	4.91	12.13	54.80	64.98	17.28
13	2024-04-13 00:00:00	0.81	5.85	4.95	11.90	47.22	53.78	29.38
14	2024-04-14 00:00:00	0.82	5.61	4.91	11.56	36.82	32.64	39.88
15	2024-04-15 00:00:00	0.91	5.44	4.88	11.31	51.04	54.90	53.25
16	2024-04-16 00:00:00	0.78	5.40	4.79	11.19	37.38	37.18	59.19
17	2024-04-17 00:00:00	0.71	5.32	4.82	11.10	33.60	30.34	60.78
18	2024-04-18 00:00:00	0.77	5.28	4.74	10.98	34.11	29.56	77.50
19	2024-04-19 00:00:00	0.90	5.25	4.76	10.95	43.97	39.59	81.46
20	2024-04-20 00:00:00	0.83	5.63	4.82	11.50	49.91	46.45	43.90
21	2024-04-21 00:00:00	0.62	6.22	4.83	12.28	40.14	23.46	3.08
22	2024-04-22 00:00:00	0.68	6.20	4.83	12.27	46.20	1.04	3.32
23	2024-04-23 00:00:00	0.59	6.19	4.83	12.26	31.19	1.04	5.79
24	2024-04-24 00:00:00	0.57	6.23	4.84	12.32	36.40	1.04	10.19
25	2024-04-25 00:00:00	0.91	6.23	4.83	12.30	58.02	1.04	6.40
26	2024-04-26 00:00:00	0.68	6.22	4.84	12.28	47.04	1.04	4.29
27	2024-04-27 00:00:00	0.59	6.21	4.82	12.26	31.79	1.04	4.05
28	2024-04-28 00:00:00	0.64	6.21	4.83	12.28	48.23	1.04	4.97
29	2024-04-29 00:00:00	0.69	6.25	4.82	12.32	54.04	1.04	4.57

Report Details: MSSPLS | 2024-05-07 17:35:47 | Average Report

Real Time Data Acquisition And Monitoring

Site Name: M/s Scania Steels & Powers Limited (Formerly Known as Sidhi Vinayak Sponge Iron Pvt Ltd)

Report: Average Report

From Date: 01-05-2024T00:00:30Z To Date: 31-05-2024T00:00:01Z

Description	AAQMS_1-CO(mg/m3)	AAQMS_1-NO(ug/m3)	AAQMS_1-NO2(ug/m3)	AAQMS_1-NOx(ug/m3)	AAQMS_1-PM2.5(ug/m3)	AAQMS_1-PM10(ug/m3)	AAQMS_1-SO2(ug/m3)
Prescribed Standards	0 - 4	0 - 80	0 - 80	0 - 80	0 - 60	0 - 100	0 - 80
Maximum Data	1.04	6.25	4.93	12.36	109.25	184.26	39.95
Minimum Data	0.59	5.98	4.79	12.06	2.5	1.04	2.59
Geometric Mean	0.83	6.19	4.85	12.27	52.23	28.38	9.2
Median	0.81	6.2	4.85	12.28	54.16	4.02	7.65
Standard Deviation	0.13	0.05	0.03	0.06	26.7	45.83	7.01
Maximum Value At Time	2024-05-07 00:00:00	2024-05-14 00:00:00	2024-05-12 00:00:00	2024-05-13 00:00:00	2024-05-16 00:00:00	2024-05-23 00:00:00	2024-05-12 00:00:00
Minimum Value At Time	2024-05-02 00:00:00	2024-05-12 00:00:00	2024-05-11 00:00:00	2024-05-12 00:00:00	2024-05-27 00:00:00	2024-05-01 00:00:00	2024-05-01 00:00:00
Valid Data Points	15	30	30	30	30	30	30
Total Data Points	30	30	30	30	30	30	30
Data Availability %	50.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Sl No.	Time	AAQMS_1-CO(mg/m3)	AAQMS_1-NO(ug/m3)	AAQMS_1-NO2(ug/m3)	AAQMS_1-NOx(ug/m3)	AAQMS_1-PM2.5(ug/m3)	AAQMS_1-PM10(ug/m3)	AAQMS_1-SO2(ug/m3)
1	2024-05-01 00:00:00	0.63	6.22	4.85	12.32	44.92	1.04	2.59
2	2024-05-02 00:00:00	0.59	6.24	4.81	12.30	42.44	1.04	7.47
3	2024-05-03 00:00:00	0.77	6.22	4.83	12.28	49.35	1.04	3.96
4	2024-05-04 00:00:00	0.96	6.22	4.84	12.29	67.18	1.04	3.47
5	2024-05-05 00:00:00	0.96	6.20	4.83	12.26	75.70	1.04	3.42
6	2024-05-06 00:00:00	0.89	6.22	4.85	12.30	66.32	1.04	2.93
7	2024-05-07 00:00:00	1.04	6.19	4.85	12.26	77.01	1.04	3.06
8	2024-05-08 00:00:00	0.79	6.23	4.84	12.31	72.95	1.04	3.44

Sl No.	Time	AAQMS_1-CO(mg/m3)	AAQMS_1-NO(ug/m3)	AAQMS_1-NO2(ug/m3)	AAQMS_1-NOx(ug/m3)	AAQMS_1-PM2.5(ug/m3)	AAQMS_1-PM10(ug/m3)	AAQMS_1-SO2(ug/m3)
9	2024-05-09 00:00:00	0.76	6.24	4.84	12.33	44.49	1.04	3.23
10	2024-05-10 00:00:00	0.81	6.20	4.85	12.28	64.63	3.98	9.40
11	2024-05-11 00:00:00	0.72	6.22	4.79	12.26	62.53	3.99	11.36
12	2024-05-12 00:00:00	0.90	5.98	4.93	12.06	58.27	3.92	39.95
13	2024-05-13 00:00:00	0.85	6.23	4.89	12.36	67.32	4.03	7.37
14	2024-05-14 00:00:00	0.94	6.25	4.83	12.33	79.42	4.01	6.77
15	2024-05-15 00:00:00	0.78	6.23	4.84	12.32	80.14	4.00	6.80
16	2024-05-16 00:00:00	NA	6.22	4.85	12.30	109.25	4.08	9.16
17	2024-05-17 00:00:00	NA	6.23	4.86	12.32	50.50	4.11	6.96
18	2024-05-18 00:00:00	NA	6.18	4.87	12.26	49.05	4.07	10.62
19	2024-05-19 00:00:00	NA	6.23	4.83	12.29	37.15	4.14	7.84
20	2024-05-20 00:00:00	NA	6.19	4.85	12.26	36.27	4.01	7.44
21	2024-05-21 00:00:00	NA	6.20	4.86	12.28	55.29	4.36	5.79
22	2024-05-22 00:00:00	NA	6.17	4.86	12.25	88.28	128.16	11.65
23	2024-05-23 00:00:00	NA	6.16	4.87	12.24	67.43	184.26	13.37
24	2024-05-24 00:00:00	NA	6.15	4.90	12.26	53.04	80.01	11.29
25	2024-05-25 00:00:00	NA	6.16	4.87	12.25	37.59	40.11	17.25
26	2024-05-26 00:00:00	NA	6.11	4.87	12.18	20.48	60.02	13.86
27	2024-05-27 00:00:00	NA	6.17	4.86	12.25	2.50	66.35	11.65
28	2024-05-28 00:00:00	NA	6.15	4.85	12.21	2.50	68.86	11.89
29	2024-05-29 00:00:00	NA	6.18	4.82	12.23	2.50	84.40	14.01
30	2024-05-30 00:00:00	NA	6.21	4.84	12.29	2.50	81.25	8.08

Report Details: MSSPLS | 2024-06-29 13:28:16 | Average Report

Real Time Data Acquisition And Monitoring

Site Name: M/s Scania Steels & Powers Limited (Formerly Known as Sidhi Vinayak Sponge Iron Pvt Ltd)

Report: Average Report

From Date: 01-06-2024T00:00:18Z To Date: 30-06-2024T00:00:33Z

Description	AAQMS_1-CO(mg/m3)	AAQMS_1-NO(ug/m3)	AAQMS_1-NO2(ug/m3)	AAQMS_1-NOx(ug/m3)	AAQMS_1-PM2.5(ug/m3)	AAQMS_1-PM10(ug/m3)	AAQMS_1-SO2(ug/m3)
Prescribed Standards	0 - 4	0 - 80	0 - 80	0 - 80	0 - 60	0 - 100	0 - 80
Maximum Data	0.87	6.26	4.96	12.33	73.37	87.62	30.86
Minimum Data	0.01	5.94	4.8	11.98	20.05	0.0	0.99
Geometric Mean	0.18	6.15	4.87	12.23	46.69	46.74	8.49
Median	0.05	6.15	4.87	12.23	50.07	57.4	6.02
Standard Deviation	0.24	0.07	0.04	0.08	15.02	30.56	7.59
Maximum Value At Time	2024-06-09 00:00:00	2024-06-27 00:00:00	2024-06-16 00:00:00	2024-06-26 00:00:00	2024-06-07 00:00:00	2024-06-14 00:00:00	2024-06-09 00:00:00
Minimum Value At Time	2024-06-11 00:00:00	2024-06-09 00:00:00	2024-06-03 00:00:00	2024-06-09 00:00:00	2024-06-02 00:00:00	2024-06-26 00:00:00	2024-06-14 00:00:00
Valid Data Points	29	29	29	29	29	29	29
Total Data Points	29	29	29	29	29	29	29
Data Availability %	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Sl No.	Time	AAQMS_1-CO(mg/m3)	AAQMS_1-NO(ug/m3)	AAQMS_1-NO2(ug/m3)	AAQMS_1-NOx(ug/m3)	AAQMS_1-PM2.5(ug/m3)	AAQMS_1-PM10(ug/m3)	AAQMS_1-SO2(ug/m3)
1	2024-06-01 00:00:00	0.36	6.14	4.87	12.22	27.63	83.78	16.91
2	2024-06-02 00:00:00	0.54	6.13	4.89	12.22	20.05	65.65	19.01
3	2024-06-03 00:00:00	0.43	6.22	4.80	12.27	27.23	52.40	13.60
4	2024-06-04 00:00:00	0.46	6.22	4.80	12.25	62.08	69.34	14.67
5	2024-06-05 00:00:00	0.52	6.20	4.85	12.28	62.60	75.42	16.82
6	2024-06-06 00:00:00	0.37	6.19	4.85	12.25	60.49	44.74	13.93
7	2024-06-07 00:00:00	0.40	6.16	4.85	12.21	73.37	69.62	15.08
8	2024-06-08 00:00:00	0.61	6.09	4.85	12.13	59.19	71.05	22.85

Sl No.	Time	AAQMS_1-CO(mg/m3)	AAQMS_1-NO(ug/m3)	AAQMS_1-NO2(ug/m3)	AAQMS_1-NOx(ug/m3)	AAQMS_1-PM2.5(ug/m3)	AAQMS_1-PM10(ug/m3)	AAQMS_1-SO2(ug/m3)
9	2024-06-09 00:00:00	0.87	5.94	4.90	11.98	52.38	70.30	30.86
10	2024-06-10 00:00:00	0.03	6.15	4.83	12.21	44.59	76.52	3.25
11	2024-06-11 00:00:00	0.01	6.13	4.89	12.23	55.80	74.35	1.39
12	2024-06-12 00:00:00	0.02	6.14	4.86	12.21	36.42	74.15	2.01
13	2024-06-13 00:00:00	0.02	6.12	4.90	12.22	35.41	67.00	2.16
14	2024-06-14 00:00:00	0.01	6.15	4.90	12.26	61.34	87.62	0.99
15	2024-06-15 00:00:00	0.02	6.11	4.87	12.18	35.18	39.65	2.36
16	2024-06-16 00:00:00	0.08	6.01	4.96	12.13	51.82	58.43	7.48
17	2024-06-17 00:00:00	0.05	6.12	4.91	12.23	58.62	45.37	6.02
18	2024-06-18 00:00:00	0.07	6.08	4.91	12.18	26.47	60.90	6.93
19	2024-06-19 00:00:00	0.10	6.03	4.93	12.13	31.99	48.60	11.02
20	2024-06-20 00:00:00	0.06	6.06	4.91	12.16	35.66	57.40	7.40
21	2024-06-21 00:00:00	0.03	6.15	4.87	12.23	70.97	50.46	3.89
22	2024-06-22 00:00:00	0.04	6.15	4.87	12.24	58.64	1.52	4.10
23	2024-06-23 00:00:00	0.02	6.21	4.85	12.30	37.14	0.86	1.80
24	2024-06-24 00:00:00	0.02	6.20	4.88	12.31	35.36	0.58	2.14
25	2024-06-25 00:00:00	0.05	6.24	4.83	12.32	50.18	0.39	3.60
26	2024-06-26 00:00:00	0.02	6.25	4.83	12.33	62.13	0.00	2.53
27	2024-06-27 00:00:00	0.03	6.26	4.82	12.33	46.60	0.00	3.93
28	2024-06-28 00:00:00	0.02	6.23	4.85	12.33	50.07	0.00	2.29
29	2024-06-29 00:00:00	0.06	6.14	4.87	12.22	24.61	9.35	7.06

Report Details: MSSPLS | 2024-09-04 14:28:03 | Average Report

Real Time Data Acquisition And Monitoring

Site Name: M/s Scania Steels & Powers Limited (Formerly Known as Sidhi Vinayak Sponge Iron Pvt Ltd)

Report: Average Report

From Date: 01-07-2024T00:00:18Z To Date: 31-07-2024T00:00:18Z

Description	AAQMS_1-CO(mg/m3)	AAQMS_1-NO(ug/m3)	AAQMS_1-NO2(ug/m3)	AAQMS_1-NOx(ug/m3)	AAQMS_1-PM2.5(ug/m3)	AAQMS_1-PM10(ug/m3)	AAQMS_1-SO2(ug/m3)
Prescribed Standards	0 - 4	0 - 80	0 - 80	0 - 80	0 - 60	0 - 100	0 - 80
Maximum Data	0.19	6.51	5.0	12.63	42.75	NA	17.1
Minimum Data	0.0	6.01	4.75	12.16	42.3	NA	0.0
Geometric Mean	0.04	6.35	4.86	12.47	42.62	NA	3.43
Median	0.0	6.46	4.83	12.58	42.74	NA	0.03
Standard Deviation	0.06	0.18	0.07	0.18	0.18	NA	5.31
Maximum Value At Time	2024-08-31 00:00:00	2024-08-20 00:00:00	2024-09-01 00:00:00	2024-08-14 00:00:00	2024-08-05 00:00:00	NA	2024-08-31 00:00:00
Minimum Value At Time	2024-08-05 00:00:00	2024-09-01 00:00:00	2024-08-09 00:00:00	2024-08-31 00:00:00	2024-08-31 00:00:00	NA	2024-08-05 00:00:00
Valid Data Points	30	30	30	30	30	0	30
Total Data Points	30	30	30	30	30	30	30
Data Availability %	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%	100.0%

Sl No.	Time	AAQMS_1-CO(mg/m3)	AAQMS_1-NO(ug/m3)	AAQMS_1-NO2(ug/m3)	AAQMS_1-NOx(ug/m3)	AAQMS_1-PM2.5(ug/m3)	AAQMS_1-PM10(ug/m3)	AAQMS_1-SO2(ug/m3)
1	2024-08-05 00:00:00	0.00	6.45	4.83	12.57	42.75	NA	0.00
2	2024-08-06 00:00:00	0.00	6.47	4.81	12.59	42.75	NA	0.00
3	2024-08-07 00:00:00	0.00	6.47	4.84	12.61	42.75	NA	0.00
4	2024-08-08 00:00:00	0.00	6.48	4.81	12.60	42.75	NA	0.00
5	2024-08-09 00:00:00	0.00	6.50	4.75	12.58	42.75	NA	0.00
6	2024-08-10 00:00:00	0.00	6.48	4.83	12.62	42.75	NA	0.00
7	2024-08-11 00:00:00	0.01	6.46	4.82	12.58	42.69	NA	0.65
8	2024-08-12 00:00:00	0.00	6.46	4.84	12.60	42.75	NA	0.08

Sl No.	Time	AAQMS_1-CO(mg/m3)	AAQMS_1-NO(ug/m3)	AAQMS_1-NO2(ug/m3)	AAQMS_1-NOx(ug/m3)	AAQMS_1-PM2.5(ug/m3)	AAQMS_1-PM10(ug/m3)	AAQMS_1-SO2(ug/m3)
9	2024-08-13 00:00:00	0.00	6.45	4.83	12.57	42.75	NA	0.00
10	2024-08-14 00:00:00	0.00	6.49	4.83	12.63	42.75	NA	0.00
11	2024-08-15 00:00:00	0.00	6.47	4.82	12.61	42.75	NA	0.00
12	2024-08-16 00:00:00	0.00	6.44	4.87	12.59	42.74	NA	0.05
13	2024-08-17 00:00:00	0.00	6.47	4.79	12.58	42.75	NA	0.00
14	2024-08-18 00:00:00	0.01	6.43	4.82	12.56	42.70	NA	0.57
15	2024-08-19 00:00:00	0.00	6.48	4.81	12.60	42.75	NA	0.00
16	2024-08-20 00:00:00	0.00	6.51	4.77	12.60	42.75	NA	0.00
17	2024-08-21 00:00:00	0.00	6.48	4.81	12.60	42.75	NA	0.00
18	2024-08-22 00:00:00	0.00	6.46	4.84	12.61	42.74	NA	0.01
19	2024-08-23 00:00:00	0.00	6.49	4.79	12.60	42.75	NA	0.00
20	2024-08-24 00:00:00	0.00	6.43	4.82	12.54	42.71	NA	0.33
21	2024-08-25 00:00:00	0.05	6.19	4.89	12.31	42.48	NA	4.63
22	2024-08-26 00:00:00	0.07	6.19	4.88	12.29	42.45	NA	6.98
23	2024-08-27 00:00:00	0.08	6.15	4.92	12.28	42.39	NA	7.48
24	2024-08-28 00:00:00	0.09	6.11	4.92	12.23	42.35	NA	8.42
25	2024-08-29 00:00:00	0.09	6.09	4.98	12.25	42.31	NA	8.60
26	2024-08-30 00:00:00	0.10	6.10	4.94	12.22	42.36	NA	9.74
27	2024-08-31 00:00:00	0.19	6.04	4.96	12.16	42.30	NA	17.10
28	2024-09-01 00:00:00	0.18	6.01	5.00	12.16	42.30	NA	16.64
29	2024-09-02 00:00:00	0.12	6.05	4.99	12.21	42.34	NA	11.05
30	2024-09-03 00:00:00	0.11	6.07	4.93	12.18	42.36	NA	10.55

Real Time Data Acquisition And Monitoring

Site Name: M/s Scania Steels & Powers Limited (Formerly Known as Sidhi Vinayak Sponge Iron Pvt Ltd)

Report: Average Report

From Date: 01-08-2024T00:00:18Z To Date: 31-08-2024T00:00:18Z

Description	AAQMS_1-CO(mg/m3)	AAQMS_1-NO(ug/m3)	AAQMS_1-NO2(ug/m3)	AAQMS_1-NOx(ug/m3)	AAQMS_1-PM2.5(ug/m3)	AAQMS_1-PM10(ug/m3)	AAQMS_1-SO2(ug/m3)
Prescribed Standards	0 - 4	0 - 80	0 - 80	0 - 80	0 - 60	0 - 100	0 - 80
Maximum Data	0.19	6.51	5.0	12.63	42.75	NA	17.1
Minimum Data	0.0	6.01	4.75	12.16	42.3	NA	0.0
Geometric Mean	0.04	6.35	4.86	12.47	42.62	NA	3.43
Median	0.0	6.46	4.83	12.58	42.74	NA	0.03
Standard Deviation	0.06	0.18	0.07	0.18	0.18	NA	5.31
Maximum Value At Time	2024-08-31 00:00:00	2024-08-20 00:00:00	2024-09-01 00:00:00	2024-08-14 00:00:00	2024-08-05 00:00:00	NA	2024-08-31 00:00:00
Minimum Value At Time	2024-08-05 00:00:00	2024-09-01 00:00:00	2024-08-09 00:00:00	2024-08-31 00:00:00	2024-08-31 00:00:00	NA	2024-08-05 00:00:00
Valid Data Points	30	30	30	30	30	0	30
Total Data Points	30	30	30	30	30	30	30
Data Availability %	100.0%	100.0%	100.0%	100.0%	100.0%	0.0%	100.0%

Sl No.	Time	AAQMS_1-CO(mg/m3)	AAQMS_1-NO(ug/m3)	AAQMS_1-NO2(ug/m3)	AAQMS_1-NOx(ug/m3)	AAQMS_1-PM2.5(ug/m3)	AAQMS_1-PM10(ug/m3)	AAQMS_1-SO2(ug/m3)
1	2024-08-05 00:00:00	0.00	6.45	4.83	12.57	42.75	NA	0.00
2	2024-08-06 00:00:00	0.00	6.47	4.81	12.59	42.75	NA	0.00
3	2024-08-07 00:00:00	0.00	6.47	4.84	12.61	42.75	NA	0.00
4	2024-08-08 00:00:00	0.00	6.48	4.81	12.60	42.75	NA	0.00
5	2024-08-09 00:00:00	0.00	6.50	4.75	12.58	42.75	NA	0.00
6	2024-08-10 00:00:00	0.00	6.48	4.83	12.62	42.75	NA	0.00
7	2024-08-11 00:00:00	0.01	6.46	4.82	12.58	42.69	NA	0.65
8	2024-08-12 00:00:00	0.00	6.46	4.84	12.60	42.75	NA	0.08

Sl No.	Time	AAQMS_1-CO(mg/m3)	AAQMS_1-NO(ug/m3)	AAQMS_1-NO2(ug/m3)	AAQMS_1-NOx(ug/m3)	AAQMS_1-PM2.5(ug/m3)	AAQMS_1-PM10(ug/m3)	AAQMS_1-SO2(ug/m3)
9	2024-08-13 00:00:00	0.00	6.45	4.83	12.57	42.75	NA	0.00
10	2024-08-14 00:00:00	0.00	6.49	4.83	12.63	42.75	NA	0.00
11	2024-08-15 00:00:00	0.00	6.47	4.82	12.61	42.75	NA	0.00
12	2024-08-16 00:00:00	0.00	6.44	4.87	12.59	42.74	NA	0.05
13	2024-08-17 00:00:00	0.00	6.47	4.79	12.58	42.75	NA	0.00
14	2024-08-18 00:00:00	0.01	6.43	4.82	12.56	42.70	NA	0.57
15	2024-08-19 00:00:00	0.00	6.48	4.81	12.60	42.75	NA	0.00
16	2024-08-20 00:00:00	0.00	6.51	4.77	12.60	42.75	NA	0.00
17	2024-08-21 00:00:00	0.00	6.48	4.81	12.60	42.75	NA	0.00
18	2024-08-22 00:00:00	0.00	6.46	4.84	12.61	42.74	NA	0.01
19	2024-08-23 00:00:00	0.00	6.49	4.79	12.60	42.75	NA	0.00
20	2024-08-24 00:00:00	0.00	6.43	4.82	12.54	42.71	NA	0.33
21	2024-08-25 00:00:00	0.05	6.19	4.89	12.31	42.48	NA	4.63
22	2024-08-26 00:00:00	0.07	6.19	4.88	12.29	42.45	NA	6.98
23	2024-08-27 00:00:00	0.08	6.15	4.92	12.28	42.39	NA	7.48
24	2024-08-28 00:00:00	0.09	6.11	4.92	12.23	42.35	NA	8.42
25	2024-08-29 00:00:00	0.09	6.09	4.98	12.25	42.31	NA	8.60
26	2024-08-30 00:00:00	0.10	6.10	4.94	12.22	42.36	NA	9.74
27	2024-08-31 00:00:00	0.19	6.04	4.96	12.16	42.30	NA	17.10
28	2024-09-01 00:00:00	0.18	6.01	5.00	12.16	42.30	NA	16.64
29	2024-09-02 00:00:00	0.12	6.05	4.99	12.21	42.34	NA	11.05
30	2024-09-03 00:00:00	0.11	6.07	4.93	12.18	42.36	NA	10.55

Real Time Data Acquisition And Monitoring

Site Name: M/s Scania Steels & Powers Limited (Formerly Known as Sidhi Vinayak Sponge Iron Pvt Ltd)

Report: Average Report

From Date: 01-09-2024T00:00:53Z To Date: 30-09-2024T23:59:00Z

Description	AAQMS_1-CO(mg/m3)	AAQMS_1-NO(ug/m3)	AAQMS_1-NO2(ug/m3)	AAQMS_1-NOx(ug/m3)	AAQMS_1-PM2.5(ug/m3)	AAQMS_1-PM10(ug/m3)	AAQMS_1-SO2(ug/m3)
Prescribed Standards	0 - 4	0 - 80	0 - 80	0 - 80	0 - 60	0 - 100	0 - 80
Maximum Data	0.81	12.51	7.73	21.43	42.6	85.2	26.92
Minimum Data	0.01	5.98	4.85	12.08	0.56	1.19	0.66
Geometric Mean	0.22	7.7	5.58	13.73	32.15	55.38	10.6
Median	0.12	6.25	4.98	12.36	39.76	63.92	11.05
Standard Deviation	0.26	2.17	0.87	2.27	13.54	27.15	8.94
Maximum Value At Time	2024-09-21 00:00:00	2024-09-20 00:00:00	2024-09-20 00:00:00	2024-09-20 00:00:00	2024-09-15 00:00:00	2024-09-26 00:00:00	2024-09-26 00:00:00
Minimum Value At Time	2024-09-08 00:00:00	2024-09-05 00:00:00	2024-09-17 00:00:00	2024-09-05 00:00:00	2024-09-22 00:00:00	2024-09-22 00:00:00	2024-09-19 00:00:00
Valid Data Points	25	27	27	27	27	22	25
Total Data Points	29	29	29	29	29	29	29
Data Availability %	86.21%	93.1%	93.1%	93.1%	93.1%	75.86%	86.21%

Sl No.	Time	AAQMS_1-CO(mg/m3)	AAQMS_1-NO(ug/m3)	AAQMS_1-NO2(ug/m3)	AAQMS_1-NOx(ug/m3)	AAQMS_1-PM2.5(ug/m3)	AAQMS_1-PM10(ug/m3)	AAQMS_1-SO2(ug/m3)
1	2024-09-01 00:00:00	0.18	6.01	5.00	12.16	42.30	NA	16.64
2	2024-09-02 00:00:00	0.12	6.05	4.99	12.21	42.34	NA	11.05
3	2024-09-03 00:00:00	0.11	6.07	4.93	12.18	42.36	NA	10.55
4	2024-09-04 00:00:00	0.14	6.03	4.92	12.12	42.30	NA	13.29
5	2024-09-05 00:00:00	0.15	5.98	4.96	12.08	42.30	NA	14.15
6	2024-09-06 00:00:00	0.13	6.01	4.98	12.14	42.30	70.50	12.41
7	2024-09-07 00:00:00	0.07	6.13	4.93	12.27	42.38	70.63	6.45
8	2024-09-08 00:00:00	0.01	6.25	4.88	12.38	42.48	70.80	0.85

Sl No.	Time	AAQMS_1-CO(mg/m3)	AAQMS_1-NO(ug/m3)	AAQMS_1-NO2(ug/m3)	AAQMS_1-NOx(ug/m3)	AAQMS_1-PM2.5(ug/m3)	AAQMS_1-PM10(ug/m3)	AAQMS_1-SO2(ug/m3)
9	2024-09-09 00:00:00	0.02	6.25	4.88	12.37	23.44	39.07	1.57
10	2024-09-10 00:00:00	0.02	6.20	4.93	12.35	17.43	29.05	2.19
11	2024-09-11 00:00:00	0.02	6.21	4.90	12.34	22.72	37.96	2.31
12	2024-09-12 00:00:00	NA	NA	NA	NA	NA	NA	NA
13	2024-09-13 00:00:00	NA	NA	NA	NA	NA	NA	NA
14	2024-09-14 00:00:00	0.01	6.21	4.89	12.33	42.11	70.21	0.93
15	2024-09-15 00:00:00	0.01	6.23	4.88	12.35	42.60	71.00	0.96
16	2024-09-16 00:00:00	0.01	6.24	4.88	12.36	38.50	65.27	1.20
17	2024-09-17 00:00:00	0.01	6.25	4.85	12.35	28.40	51.12	1.14
18	2024-09-18 00:00:00	0.01	6.25	4.86	12.34	28.40	51.12	1.00
19	2024-09-19 00:00:00	0.01	6.52	5.96	13.52	34.76	62.57	0.66
20	2024-09-20 00:00:00	0.80	12.51	7.73	21.43	24.72	45.04	15.16
21	2024-09-21 00:00:00	0.81	11.75	6.68	17.50	1.99	4.27	15.94
22	2024-09-22 00:00:00	NA	10.37	6.50	15.86	0.56	1.19	NA
23	2024-09-23 00:00:00	NA	9.37	6.28	14.62	1.47	3.15	NA
24	2024-09-24 00:00:00	0.50	8.47	6.72	13.93	23.32	49.33	20.16
25	2024-09-25 00:00:00	0.47	10.14	6.18	15.39	39.75	85.18	23.39
26	2024-09-26 00:00:00	0.48	11.67	6.31	17.16	39.76	85.20	26.92
27	2024-09-27 00:00:00	0.49	9.54	6.42	14.90	39.76	85.20	21.99
28	2024-09-28 00:00:00	0.51	10.18	6.65	15.76	39.80	85.20	23.48
29	2024-09-29 00:00:00	0.51	8.96	6.68	14.44	39.76	85.20	20.68

ANNEXURE-5

Fugitive Emission Monitoring Report (April - 2024 to September - 2024)

Envirotech

Envirotech East Pvt. Limited

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company

- Laboratory Accrediated by NABL, as per ISO/IEC 17025 :2017
- Laboratory Recognized by WBPCB
- Accredited EIA Consultant by QCI-NABET

100, Kalikapur, Madurdaha, Kolkata – 700 107, West Bengal, India

☎ – + 91 33 2443 8127/8128 ; + 91 33 4063 5011; email: eeplkol@gmail.com; eeplkol2@gmail.com

CIN NO : U74210WB1989PTC047403

ANX-5

Name of Industry	**M/s. Scania Steels & Powers Ltd.** **(Formerly Known as Sidhi Vinayak Sponge Iron Pvt. Ltd.)**
Address	22 KM Stone Gharghoda Road, Vill: Punjipatra, Raigarh, Pin: 496 011

FUGITIVE EMISSION MONITORING RESULT

TABLE: - I

Onsite Fugitive Emission Monitoring Results

Location | Inside Product House

(Period: April' 2024 To September,2024)

DATE	PM_{10} (µg/m3)	$PM_{2.5}$ (µg/m3)	SO_2 (µg/m3)	NO_2 (µg/m3)
03.04.2024	82	39	10	20
06.04.2024	89	43	8	29
10.04.2024	78	34	6	15
13.04.2024	84	39	9	20
17.04.2024	97	47	7	22
19.04.2024	92	41	11	28
23.04.2024	80	34	13	22
26.04.2024	75	35	11	16
03.05.2024	97	47	13	24
07.05.2024	65	31	10	18
10.05.2024	91	40	16	15
14.05.2024	60	28	9	17
17.05.2024	54	23	14	20
21.05.2024	89	42	16	16
24.05.2024	77	32	13	18
28.05.2024	71	31	7	13
04.06.2024	76	33	10	23
07.06.2024.	89	37	7	19
11.06.2024	75	30	8	15
14.06.2024	86	34	10	24
18.06.2024	68	28	9	16
21.06.2024	80	29	12	27
25.06.2024	70	29	8	18
28.06.2024	78	34	13	21
02.07.2024	90	41	6	26
05.07.2024	78	30	10	13
09.07.2024	73	29	7	28
12.07.2024	81	34	13	23
16.07.2024	70	27	6	20
19.07.2024	75	27	9	15
23.07.2024	82	36	11	25
26.07.2024	71	24	14	21
02.08.2024	79	32	8	27
06.08.2024	72	25	11	17
09.08.2024	82	35	7	24
13.08.2024	52	21	9	15

Envirotech East Pvt. Limited
An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company
- Laboratory Accrediated by NABL, as per ISO/IEC 17025 :2017
- Laboratory Recognized by WBPCB
- Accredited EIA Consultant by QCI-NABET
100, Kalikapur, Madurdaha, Kolkata – 700 107, West Bengal, India
☎ – + 91 33 2443 8127/8128 ; + 91 33 4063 5011; email: eeplkol@gmail.com; eeplkol2@gmail.com
CIN NO : U74210WB1989PTC047403

16.08.2024	79	28	5	20
20.08.2024	73	27	9	21
23.08.2024	84	34	6	13
27.08.2024	93	36	8	21
03.09.2024	74	35	16	17
06.09.2024	80	37	12	30
10.09.2024	62	28	8	20
13.09.2024	91	43	11	21
17.09.2024	79	34	7	25
20.09.2024	97	47	13	30
24.09.2024	77	35	6	13
27.09.2024	54	25	9	19

TABLE: - 2

Onsite Fugitive Emission Monitoring Results

Location | Near ESP

(Period: April' 2024 To September,2024)

DATE	PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)
03.04.2024	52	17	8	25
06.04.2024	78	36	7	15
10.04.2024	82	39	11	36
13.04.2024	96	47	7	29
17.04.2024	60	29	13	20
19.04.2024	76	36	15	30
23.04.2024	90	41	9	23
26.04.2024	65	31	12	24
03.05.2024	80	36	8	21
07.05.2024	75	37	17	23
10.05.2024	84	41	11	18
14.05.2024	92	44	10	23
17.05.2024	80	36	8	29
21.05.2024	75	32	11	31
24.05.2024	40	19	10	23
28.05.2024	94	44	8	26
04.06.2024	83	37	12	19
07.06.2024.	93	43	15	24
11.06.2024	75	32	12	18
14.06.2024	46	23	10	25
18.06.2024	86	40	13	28
21.06.2024	76	34	9	19
25.06.2024	91	43	13	23
28.06.2024	80	35	9	15
02.07.2024	68	29	14	27
05.07.2024	82	34	9	21
09.07.2024	67	29	7	17

Envirotech East Pvt. Limited
An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company
- Laboratory Accrediated by NABL, as per ISO/IEC 17025 :2017
- Laboratory Recognized by WBPCB
- Accredited EIA Consultant by QCI-NABET
100, Kalikapur, Madurdaha, Kolkata – 700 107, West Bengal, India
☎ – + 91 33 2443 8127/8128 ; + 91 33 4063 5011; email: eeplkol@gmail.com; eeplkol2@gmail.com
CIN NO : U74210WB1989PTC047403

12.07.2024	70	32	11	15
16.07.2024	62	27	7	18
19.07.2024	75	30	8	26
23.07.2024	70	26	7	19
26.07.2024	68	27	9	16
02.08.2024	75	34	10	24
06.08.2024	67	27	8	19
09.08.2024	76	33	11	15
13.08.2024	71	27	9	20
16.08.2024	89	39	10	18
20.08.2024	82	36	7	28
23.08.2024	73	34	11	23
27.08.2024	84	35	8	18
03.09.2024	94	46	11	26
06.09.2024	87	37	9	15
10.09.2024	81	32	12	24
13.09.2024	98	46	8	17
17.09.2024	77	35	14	28
20.09.2024	80	35	9	16
24.09.2024	52	24	12	20
27.09.2024	75	30	7	15

TABLE: - 3

Onsite Fugitive Emission Monitoring Results

Location | Near DRI Control Room

(Period: April' 2024 To September,2024)

DATE	PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_2 ($\mu g/m^3$)
04.04.2024	91	45	13	19
07.04.2024	76	35	17	27
11.04.2024	88	42	11	16
14.04.2024	70	33	18	23
18.04.2024	93	43	14	35
20.04.2024	46	20	11	24
24.04.2024	58	28	10	28
27.04.2024	90	41	13	31
04.05.2024	78	33	15	25
08.05.2024	84	39	13	19
11.05.2024	95	46	9	27
15.05.2024	55	26	12	21
18.05.2024	89	39	16	18
22.05.2024	45	21	9	20
25.05.2024	85	37	12	23
29.05.2024	95	45	14	19
05.06.2024	75	32	11	28
08.06.2024.	65	31	9	18

Envirotech East Pvt. Limited

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company

- Laboratory Accrediated by NABL, as per ISO/IEC 17025 :2017
- Laboratory Recognized by WBPCB
- Accredited EIA Consultant by QCI-NABET

100, Kalikapur, Madurdaha, Kolkata – 700 107, West Bengal, India

☎ – + 91 33 2443 8127/8128 ; + 91 33 4063 5011; email: eeplkol@gmail.com; eeplkol2@gmail.com

CIN NO : U74210WB1989PTC047403

ANX-5

12.06.2024	74	32	12	26
15.06.2024	87	37	9	19
19.06.2024	73	29	10	23
22.06.2024	84	33	16	27
26.06.2024	75	31	11	19
29.06.2024	88	32	14	30
03.07.2024	70	29	10	21
06.07.2024	76	33	15	24
10.07.2024	87	39	8	29
13.07.2024	75	29	12	16
17.07.2024	90	36	9	31
20.07.2024	79	33	15	26
24.07.2024	74	28	10	23
27.04.2024	82	30	9	18
03.08.2024	77	34	12	28
07.08.2024	80	27	17	24
10.08.2024	71	29	10	30
14.08.2024	95	33	8	20
17.08.2024	74	32	11	27
21.08.2024	81	32	13	16
24.08.2024	75	34	9	23
28.08.2024	91	34	14	26
04.09.2024	56	26	8	30
07.09.2024	75	33	11	21
11.09.2024	80	38	9	18
14.09.2024	93	39	12	23
18.09.2024	74	34	8	22
21.09.2024	80	32	12	19
25.09.2024	49	22	9	30
28.09.2024	75	34	11	25

For ENVIROTECH EAST (P) LTD.

(Authorized Signatory)

Envirotech East Pvt. Limited

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company

- Laboratory Accrediated by NABL, as per ISO/IEC 17025 :2017
- Laboratory Recognized by WBPCB
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100, Kalikapur, Madurdaha, Kolkata – 700 107, West Bengal, India

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CIN NO : U74210WB1989PTC047403

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Table 4		Statistical Analysis of Pollutants (Period: April' 2024 To September,2024)				
Pollutants	**Locations**	**MES**	**Min**	**Max**	**A.M.**	**P - 98**
PM_{10} ($\mu g/m^3$)	Inside Product House	48	52	97	78.1	97.00
	Near ESP	48	40	98	76.5	96.12
	Near DRI Control Room	48	45	95	77.5	95.00
	Overall	**144**	**40**	**98**	**77.4**	-
$PM_{2.5}$ ($\mu g/m^3$)	Inside Product House	48	21	47	33.5	46.56
	Near ESP	48	17	47	34.1	46.12
	Near DRI Control Room	48	20	46	33.2	44.71
	Overall	**144**	**17**	**47**	**33.6**	-
SO_2 ($\mu g/m^3$)	Inside Product House	48	5	16	9.8	16.00
	Near ESP	48	7	17	10.1	15.12
	Near DRI Control Room	48	8	18	11.7	17.06
	Overall	**144**	**5**	**18**	**10.5**	-
NO_2 ($\mu g/m^3$)	Inside Product House	48	13	30	20.4	30.00
	Near ESP	48	15	36	21.9	31.30
	Near DRI Control Room	48	16	35	23.6	31.24
	Overall	**144**	**13**	**36**	**22.0**	-

For ENVIROTECH EAST (P) LTD.

ENVIROTECH EAST PVT. LTD. Kalikapur, Madurdaha Kolkata 700107

(Authorized Signatory)

Envirotech East Pvt. Limited

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company

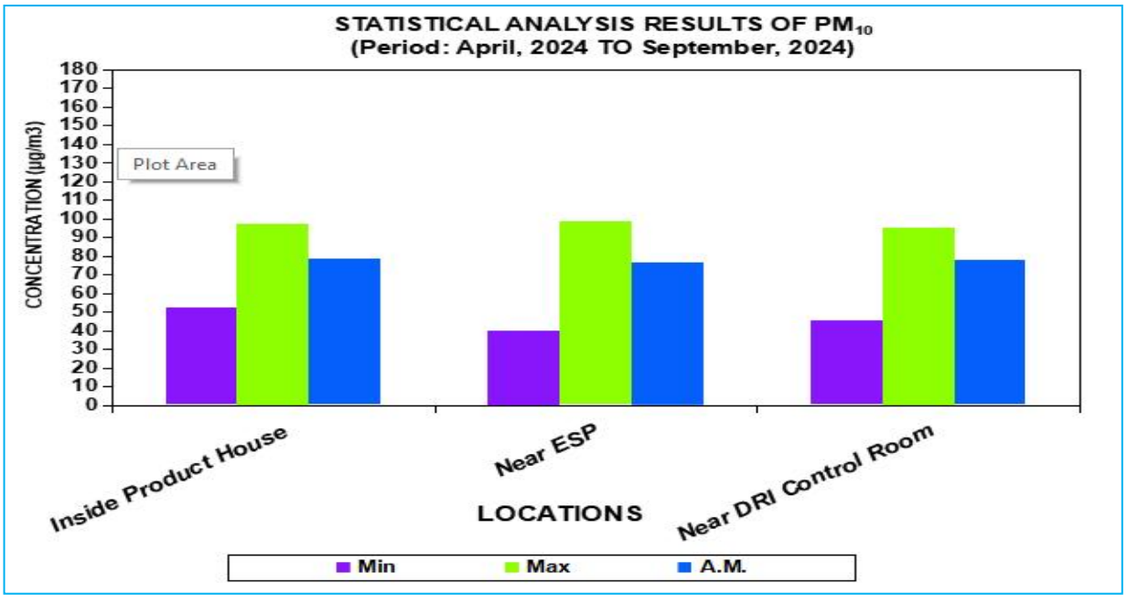
- Laboratory Accrediated by NABL, as per ISO/IEC 17025 :2017
- Laboratory Recognized by WBPCB
- Accredited EIA Consultant by QCI-NABET

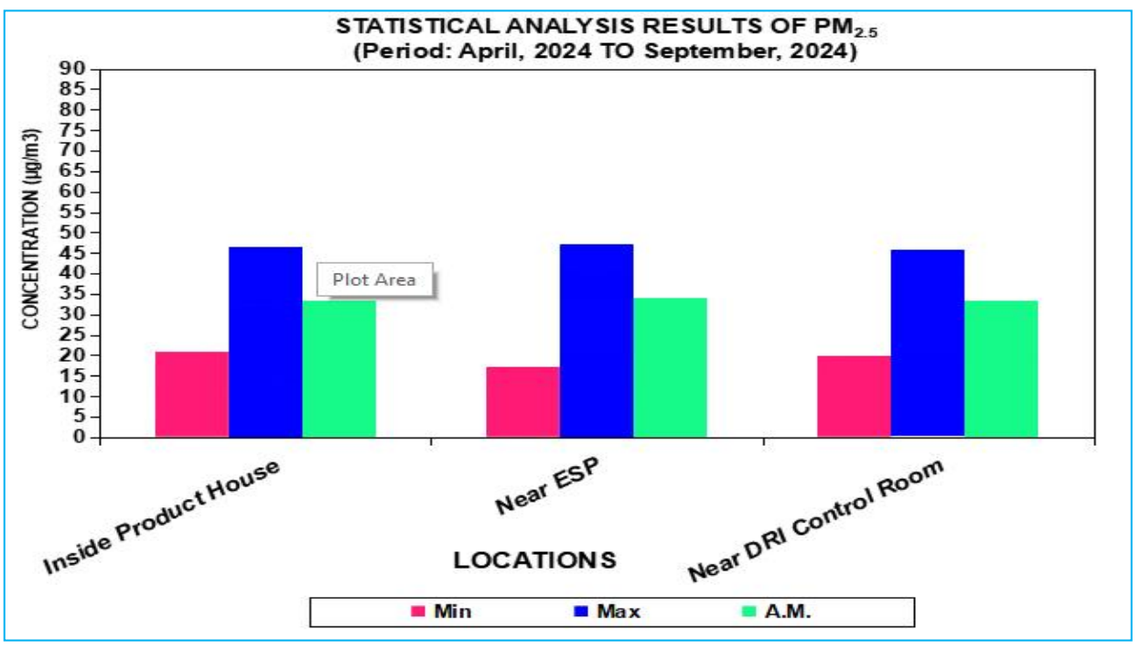
100, Kalikapur, Madurdaha, Kolkata – 700 107, West Bengal, India

☎ – + 91 33 2443 8127/8128 ; + 91 33 4063 5011; email: eeplkol@gmail.com; eeplkol2@gmail.com

CIN NO : U74210WB1989PTC047403

ANX-5





For ENVIROTECH EAST (P) LTD.

(Authorized Signatory)

Envirotech East Pvt. Limited

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company

- Laboratory Accrediated by NABL, as per ISO/IEC 17025 :2017
- Laboratory Recognized by WBPCB
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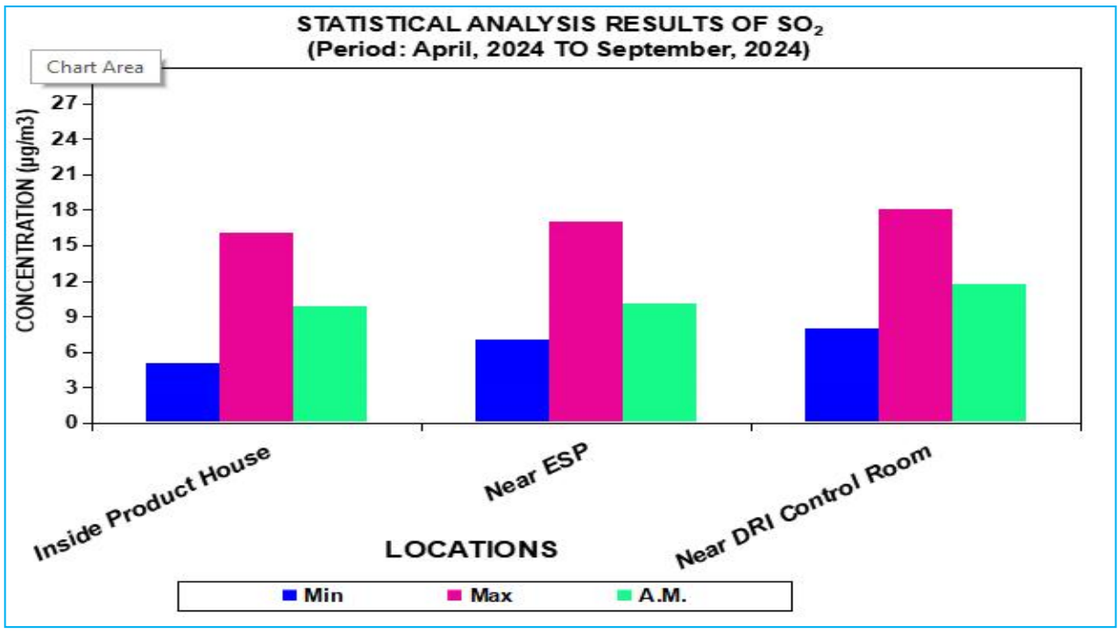
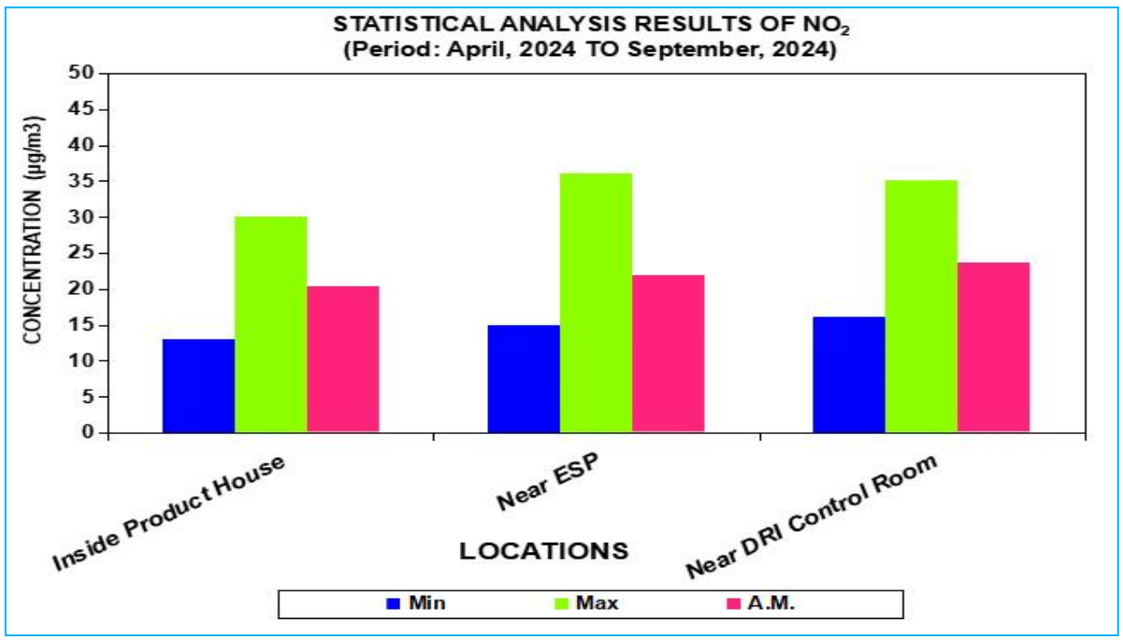
100, Kalikapur, Madurdaha, Kolkata – 700 107, West Bengal, India

☎ – + 91 33 2443 8127/8128 ; + 91 33 4063 5011; email: eeplkol@gmail.com; eeplkol2@gmail.com

CIN NO : U74210WB1989PTC047403

ANX-5





For ENVIROTECH EAST (P) LTD.

(Authorized Signatory)

Tax Invoice

(ORIGINAL FOR RECIPIENT)

e-Invoice

IRN : **9708cb6669d09f13e49884468778e498ef9abf88dcb43b38-d825179fc99f8594**
Ack No. : **122317400127736**
Ack Date : **12-Jul-23**

Mecgale Pneumatics Pvt. Ltd.
Registerd Office-N-65, MIDC, Hingna Road,
Nagpur-440 016
GSTIN/UIN: 27AADCM7418C1ZN
State Name : Maharashtra, Code : 27
E-Mail : info@mecgale.com

Consignee (Ship to)
Scania Steels & Powers Ltd.
22KM, Stone Gharghoda Road, Village-Punjipatra, Raigarh
GSTIN/UIN : 22AAHCS4471R1ZT
PAN/IT No : AAHCS4471R
State Name : Chhattisgarh, Code : 22

Buyer (Bill to)
Scania Steels & Powers Ltd.
22KM, Stone Gharghoda Road, Village-Punjipatra, Raigarh
GSTIN/UIN : 22AAHCS4471R1ZT
PAN/IT No : AAHCS4471R
State Name : Chhattisgarh, Code : 22
Place of Supply : Chhattisgarh

Invoice No. **MNF/MH/2324/0447**	Dated **12-Jul-23**
Delivery Note **PKG/0447**	Mode/Terms of Payment
Reference No. & Date.	Other References Whether Tax is Payable on Reverse Charge Basis(No)
Buyer's Order No. **SSPL/PP/2021-22/P10023**	Dated **10-Jan-23**
Dispatch Doc No.	Delivery Note Date **12-Jul-22**
Dispatched through **ROADWAYS INDIA LTD**	Destination **RAIGARH**
Bill of Lading/LR-RR No. **123433 dt. 12-Jul-23**	Motor Vehicle No. **GJ27TT0482**

Terms of Delivery
Equipment for Ash Handling (8428)
By Road , on Door Delivery
Freight Paid , Job No. G2601

Sl No.	Description of Goods	HSN/SAC	Quantity	Rate	per	Amount
1	**Fluidising Pads**	84289020	**16.00 Nos.**	5,000.00	Nos.	**80,000.00**
2	**Water Cooled Surge Hopper**	84289020	**20.00 Nos.**	30,000.00	Nos.	**6,00,000.00**
3	**Terminal End Box 80NB**	84289020	**20.00 Nos.**	7,000.00	Nos.	**1,40,000.00**
4	**Reverse Pulse Jet Bag Filter**	84289020	**1.00 Nos.**	2,00,000.00	Nos.	**2,00,000.00**
						10,20,000.00
	IGST @18%-Tax			*18*	%	**1,83,600.00**
	Total		**57.00 Nos.**			**Rs. 12,03,600.00**

Amount Chargeable (in words) *E. & O.E*
INR Twelve Lakh Three Thousand Six Hundred Only

HSN/SAC	Taxable Value	Integrated Tax		Total Tax Amount
		Rate	Amount	
84289020	10,20,000.00	18%	1,83,600.00	1,83,600.00
Total	**10,20,000.00**		**1,83,600.00**	**1,83,600.00**

Tax Amount (in words) : **INR One Lakh Eighty Three Thousand Six Hundred Only**

Company's Bank Details
Bank Name : **Bank of Baroda [Cash Credit A/c]**
A/c No. : **04650500000207**
Branch & IFS Code : **Dharampeth, Nagpur & BARB0DHARAM**

Company's PAN : **AADCM7418C**

Declaration
We declare that this invoice shows the actual price of the goods described and that all particulars are true and

for Mecgale Pneumatics Pvt. Ltd.
Signature valid
Digitally signed by HARSHAL PARASURAM CHOUDHARY
Date: 2023.07.12 17:45:43 +05:30
Reason: Digital Sign
Location: Nagpur
Authorised Signatory

SUBJECT TO NAGPUR JURISDICTION

Tax Invoice

(ORIGINAL FOR RECIPIENT)

e-Invoice

IRN : **637fafa83424e16b9755610b8376101cfcd44f13e581dab9-340e61315c559b36**
Ack No. : **122317410517512**
Ack Date : **13-Jul-23**

Mecgale Pneumatics Pvt. Ltd.
Registerd Office-N-65, MIDC, Hingna Road,
Nagpur-440 016
GSTIN/UIN: 27AADCM7418C1ZN
State Name : Maharashtra, Code : 27
E-Mail : info@mecgale.com

Consignee (Ship to)
SCANIA STEELS AND POWERS LTD.
22KM, STONE GHARGHODA ROAD, VILLAGE -PUNJIPATRA, RAIGARH-496011
GSTIN/UIN : 22AAHCS4471R1ZT
PAN/IT No : AAHCS4471R
State Name : Chhattisgarh, Code : 22

Buyer (Bill to)
SCANIA STEELS AND POWERS LTD.
22KM, STONE GHARGHODA ROAD, VILLAGE -PUNJIPATRA, RAIGARH-496011
GSTIN/UIN : 22AAHCS4471R1ZT
PAN/IT No : AAHCS4471R
State Name : Chhattisgarh, Code : 22
Place of Supply : Chhattisgarh

Invoice No. **MNF/MH/2324/0458**	Dated **13-Jul-23**
Delivery Note **PKG/0458**	Mode/Terms of Payment **90%+GST Agaisnt Proforma Invoice**
Reference No. & Date.	Other References Whether Tax is Payable on Reverse Charge Basis(No)
Buyer's Order No. **SSPL/PP/2021-22/P10023**	Dated **10-Jan-23**
Dispatch Doc No.	Delivery Note Date **13-Jul-23**
Dispatched through **Roadways India Ltd.**	Destination **RAIGARH**
Bill of Lading/LR-RR No. **123434 dt. 13-Jul-23**	Motor Vehicle No. **MH40/CM7238**

Terms of Delivery
Equipment for Ash Handling (8428)
By Road , on Door Delivery
Freight Paid , Job No. G2601

Sl No.	Description of Goods	HSN/SAC	Quantity	Rate	per	Amount
1	**Level Switch.**	84289020	**28.00 Nos.**	7,500.00	Nos.	**2,10,000.00**
2	**Knife Gate Valve- 200 NB**	84289020	**16.00 Nos.**	15,000.00	Nos.	**2,40,000.00**
3	**Hardware for Conveying Line**	84289020	**1.000 Set**	80,000.00	Set	**80,000.00**
4	**Level Switch.**	84289020	**1.00 Nos.**	7,500.00	Nos.	**7,500.00**
5	**Pressure Relief Valve**	84289020	**1.00 Nos.**	10,000.00	Nos.	**10,000.00**
6	**Knife Gate Valve- 200 NB**	84289020	**2.00 Nos.**	15,000.00	Nos.	**30,000.00**
7	**Utility Pipe Hardware**	84289020	**1.000 Set**	55,000.00	Set	**55,000.00**

continued to page number 2

SUBJECT TO NAGPUR JURISDICTION

This is a Computer Generated Invoice

Tax Invoice(Page 2)

(ORIGINAL FOR RECIPIENT)

...e Pneumatics Pvt. Ltd.
...gisterd Office-N-65, MIDC, Hingna Road,
Nagpur-440 016
GSTIN/UIN: 27AADCM7418C1ZN
State Name : Maharashtra, Code : 27
E-Mail : info@mecgale.com

Consignee (Ship to)
SCANIA STEELS AND POWERS LTD.
22KM, STONE GHARGHODA ROAD, VILLAGE
-PUNJIPATRA, RAIGARH-496011
GSTIN/UIN : 22AAHCS4471R1ZT
PAN/IT No : AAHCS4471R
State Name : Chhattisgarh, Code : 22

Buyer (Bill to)
SCANIA STEELS AND POWERS LTD.
22KM, STONE GHARGHODA ROAD, VILLAGE
-PUNJIPATRA, RAIGARH-496011
GSTIN/UIN : 22AAHCS4471R1ZT
PAN/IT No : AAHCS4471R
State Name : Chhattisgarh, Code : 22
Place of Supply : Chhattisgarh

Invoice No. **MNF/MH/2324/0458**	Dated **13-Jul-23**
Delivery Note **PKG/0458**	Mode/Terms of Payment **90%+GST Agaisnt Proforma Invoice**
Reference No. & Date.	Other References Whether Tax is Payable on Reverse Charge Basis[No]
Buyer's Order No. **SSPL/PP/2021-22/P10023**	Dated **10-Jan-23**
Dispatch Doc No.	Delivery Note Date **13-Jul-23**
Dispatched through **Roadways India Ltd.**	Destination **RAIGARH**
Bill of Lading/LR-RR No. **123434 dt. 13-Jul-23**	Motor Vehicle No. **MH40/CM7238**

Terms of Delivery
Equipment for Ash Handling (8428)
By Road , on Door Delivery
Freight Paid , Job No. G2601

Sl No.	Description of Goods	HSN/SAC	Quantity	Rate	per	Amount
8	**Supporting Structure**	84289020	**1.000 Set**	6,00,000.00	Set	**6,00,000.00**
						12,32,500.00
	IGST @18%-Tax			*18*	%	**2,21,850.00**
	Total					**Rs. 14,54,350.00**

E. & O.E

Amount Chargeable (in words)
INR Fourteen Lakh Fifty Four Thousand Three Hundred Fifty Only

HSN/SAC	Taxable Value	Integrated Tax		Total Tax Amount
		Rate	Amount	
84289020	12,32,500.00	18%	2,21,850.00	2,21,850.00
Total	**12,32,500.00**		**2,21,850.00**	**2,21,850.00**

Tax Amount (in words) : **INR Two Lakh Twenty One Thousand Eight Hundred Fifty Only**

Company's Bank Details
Bank Name : **Bank of Baroda [Cash Credit A/c]**
A/c No. : **04650500000207**
Branch & IFS Code : **Dharampeth, Nagpur & BARB0DHARAM**

Company's PAN : **AADCM7418C**

Declaration
We declare that this invoice shows the actual price of the goods described and that all particulars are true and

for Mecgale Pneumatics Pvt. Ltd.

Signature valid
HARSHAL PARASHRAM CHOUDHARY
Digitally signed by
Date: 2023.07.13 16:48:40 +05:30
Reason: Digital Sign
Location: Nagpur

Authorised Signatory

SUBJECT TO NAGPUR JURISDICTION

This is a Computer Generated Invoice

Tax Invoice

(DUPLICATE FOR TRANSPORTER)

e-Invoice

IRN : e7e7a159f2b9a6a429002fcabc5fb1fe334f58882b9dbb6a-26a06c560f3b0d1f
Ack No. : 122317450209257
Ack Date : 17-Jul-23

Mecgale Pneumatics Pvt. Ltd.
Registerd Office-N-65, MIDC, Hingna Road,
Nagpur-440 016
GSTIN/UIN: 27AADCM7418C1ZN
State Name : Maharashtra, Code : 27
E-Mail : info@mecgale.com

Consignee (Ship to)
Scania Steels & Powers Ltd.
22KM, Stone Gharghoda Road, Village-Punjipatra,
Raigarh -496011
GSTIN/UIN : 22AAHCS4471R1ZT
PAN/IT No : AAHCS4471R
State Name : Chhattisgarh, Code : 22

Buyer (Bill to)
Scania Steels & Powers Ltd.
22KM, Stone Gharghoda Road, Village-Punjipatra,
Raigarh-496011
GSTIN/UIN : 22AAHCS4471R1ZT
PAN/IT No : AAHCS4471R
State Name : Chhattisgarh, Code : 22
Place of Supply : Chhattisgarh

Invoice No. **MNF/MH/2324/0479**	Dated **17-Jul-23**
Delivery Note **PKG/0479**	Mode/Terms of Payment **90%+GST Against Proforma Invoice**
Reference No. & Date.	Other References
	Whether Tax is Payable on Reverse Charge Basis/No
Buyer's Order No. **SSPL/PP/2021-22/P10023**	Dated **10-Jan-23**
Dispatch Doc No.	Delivery Note Date **17-Jul-23**
Dispatched through **All India Fast Carriers**	Destination **RAIGARH**
Bill of Lading/LR-RR No. **13972 dt. 17-Jul-23**	Motor Vehicle No. **MH40/Y5550**

Terms of Delivery
Equipment for Ash Handling (8428)
By Road , on Door Delivery
Freight Paid , Job No. G2601

Sl No.	Description of Goods	HSN/SAC	Quantity	Rate	per	Amount
1	**Expansion Joint**	84289020	**28.00 Nos.**	8,000.00	Nos.	**2,24,000.00**
2	**Spool Piece**	84289020	**20.000 No.**	5,000.00	No.	**1,00,000.00**
3	**Pneumatic Panel for Ash / Master Vessel**	84289020	**20.00 Nos.**	30,000.00	Nos.	**6,00,000.00**
4	**Pneumatic Panel for Slave Vessel**	84289020	**8.00 Nos.**	25,000.00	Nos.	**2,00,000.00**
5	**Alloy C.I.Bends**	84289020	**1.000 Set**	3,00,000.00	Set	**3,00,000.00**
						14,24,000.00
	IGST @18%-Tax			*18*	*%*	**2,56,320.00**
	Total					**Rs. 16,80,320.00**

Amount Chargeable (in words) *E. & O.E*
INR Sixteen Lakh Eighty Thousand Three Hundred Twenty Only

HSN/SAC	Taxable Value	Integrated Tax Rate	Integrated Tax Amount	Total Tax Amount
84289020	14,24,000.00	18%	2,56,320.00	2,56,320.00
Total	**14,24,000.00**		**2,56,320.00**	**2,56,320.00**

Tax Amount (in words) : **INR Two Lakh Fifty Six Thousand Three Hundred Twenty Only**

Company's Bank Details
Bank Name : **Bank of Baroda [Cash Credit A/c]**
A/c No. : **04650500000207**
Branch & IFS Code : **Dharampeth, Nagpur & BARB0DHARAM**

Company's PAN : **AADCM7418C**

Declaration
We declare that this invoice shows the actual price of the goods described and that all particulars are true and

for Mecgale Pneumatics Pvt. Ltd.
Signature valid
Digitally signed by HARSHAL PARASHRAM CHOUDHARY
Date: 2023.07.17 18:25:53 +05:30
Reason: Digital Sign
Location: Nagpur
Authorised Signatory

SUBJECT TO NAGPUR JURISDICTION

This is a Computer Generated Invoice

Tax Invoice

(ORIGINAL FOR RECIPIENT)

e-Invoice

IRN : **bb12a5d7f61d52fdaac607f4487d23bf507e451afb6119ee-49301432a945bd4e**
Ack No. : **122420193349235**
Ack Date : **15-Feb-24**

Mecgale Pneumatics Pvt. Ltd.
Registerd Office-N-65, MIDC, Hingna Road,
Nagpur-440 016
GSTIN/UIN: 27AADCM7418C1ZN
State Name : Maharashtra, Code : 27
E-Mail : info@mecgale.com

Consignee (Ship to)

Scania Steels & Powers Ltd.
22KM, Stone Gharghoda Road, Village-Punjipatra,
Raigarh -496011
GSTIN/UIN : 22AAHCS4471R1ZT
PAN/IT No : AAHCS4471R
State Name : Chhattisgarh, Code : 22

Buyer (Bill to)

Scania Steels & Powers Ltd.
22KM, Stone Gharghoda Road, Village-Punjipatra,
Raigarh-496011
GSTIN/UIN : 22AAHCS4471R1ZT
PAN/IT No : AAHCS4471R
State Name : Chhattisgarh, Code : 22
Place of Supply : Chhattisgarh

Invoice No. **MNF/MH/2324/1600**	Dated **15-Feb-24**
Delivery Note **PKG/1600**	Mode/Terms of Payment **90%+GST Against Proforma Invoice**
Reference No. & Date.	Other References Whether Tax Is Payable on Reverse Charge Basis|No
Buyer's Order No. **SSPL/PP/2021-22/P10023**	Dated **10-Jan-23**
Dispatch Doc No.	Delivery Note Date **15-Feb-24**
Dispatched through **Avone Transport Organisation**	Destination **RAIGARH**
Bill of Lading/LR-RR No. **16180 dt. 15-Feb-24**	Motor Vehicle No. **MH40BG0510**

Terms of Delivery

Equipment for Ash Handling (8428)
By Road , on Door Delivery
Freight Paid , Job No. G2601

Sl No.	Description of Goods	HSN/SAC	Quantity	Rate	per	Amount
1	**Knife Gate Valve (P.C.O.) 200NB**	84289020	**12.00 Nos.**	25,000.00	Nos.	**3,00,000.00**
2	**2/8/3 Ash / Master Vessel**	84289020	**1.00 Nos.**	1,00,000.00	Nos.	**1,00,000.00**
3	**Spool Piece**	84289020	**1.000 No.**	6,500.00	No.	**6,500.00**
4	**Knife Gate Valve (P.C.O.) 200NB**	84289020	**1.00 Nos.**	25,000.00	Nos.	**25,000.00**
5	**Spool Piece Cum Rubber Bellow**	84289020	**2.00 Nos.**	10,000.00	Nos.	**20,000.00**
6	**Silo Extraction Power Cum Control Panel**	84289020	**1.00 Nos.**	40,000.00	Nos.	**40,000.00**

continued to page number 2

Tax Invoice(Page 2)

(ORIGINAL FOR RECIPIENT)

Mecgale Pneumatics Pvt. Ltd.
Registerd Office-N-65, MIDC, Hingna Road,
Nagpur-440 016
GSTIN/UIN: 27AADCM7418C1ZN
State Name : Maharashtra, Code : 27
E-Mail : info@mecgale.com

Consignee (Ship to)
Scania Steels & Powers Ltd.
22KM, Stone Gharghoda Road, Village-Punjipatra,
Raigarh -496011
GSTIN/UIN : 22AAHCS4471R1ZT
PAN/IT No : AAHCS4471R
State Name : Chhattisgarh, Code : 22

Buyer (Bill to)
Scania Steels & Powers Ltd.
22KM, Stone Gharghoda Road, Village-Punjipatra,
Raigarh-496011
GSTIN/UIN : 22AAHCS4471R1ZT
PAN/IT No : AAHCS4471R
State Name : Chhattisgarh, Code : 22
Place of Supply : Chhattisgarh

Invoice No. **MNF/MH/2324/1600**	Dated **15-Feb-24**
Delivery Note **PKG/1600**	Mode/Terms of Payment **90%+GST Against Proforma Invoice**
Reference No. & Date.	Other References Whether Tax Is Payable on Reverse Charge Basis No
Buyer's Order No. **SSPL/PP/2021-22/P10023**	Dated **10-Jan-23**
Dispatch Doc No.	Delivery Note Date **15-Feb-24**
Dispatched through **Avone Transport Organisation**	Destination **RAIGARH**
Bill of Lading/LR-RR No. **16180 dt. 15-Feb-24**	Motor Vehicle No. **MH40BG0510**
Terms of Delivery **Equipment for Ash Handling (8428)** **By Road , on Door Delivery** **Freight Paid , Job No. G2601**	

Sl No	Description of Goods	HSN/SAC	Quantity	Rate	per	Amount
7	**Non Redundant PLC with MIMIC Panel**	84289020	**1.000 No.**	5,00,000.00	No.	**5,00,000.00**
						9,91,500.00
	IGST @18%-Tax			*18*	*%*	**1,78,470.00**
	Total					**Rs. 11,69,970.00**

Amount Chargeable (in words) *E. & O.E*
INR Eleven Lakh Sixty Nine Thousand Nine Hundred Seventy Only

HSN/SAC	Taxable Value	Integrated Tax Rate	Integrated Tax Amount	Total Tax Amount
84289020	9,91,500.00	18%	1,78,470.00	1,78,470.00
Total	**9,91,500.00**		**1,78,470.00**	**1,78,470.00**

Tax Amount (in words) : **INR One Lakh Seventy Eight Thousand Four Hundred Seventy Only**

Company's Bank Details
Bank Name : **Bank of Baroda [Cash Credit A/c]**
A/c No. : **04650500000207**
Branch & IFS Code : **Dharampeth, Nagpur & BARB0DHARAM**

Company's PAN : **AADCM7418C**

Declaration
We declare that this invoice shows the actual price of the goods described and that all particulars are true and

for Mecgale Pneumatics Pvt. Ltd.
Signature valid
Digitally signed by HARSHAL PARASHRAM CHOUDHARY
Date: 2024.02.15 17:58:23 +05:30
Reason: Digital Sign
Location: Nagpur

Authorised Signatory

Tax Invoice

(ORIGINAL FOR RECIPIENT) **e-Invoice**

IRN : **c1596b8735e0af2810710cc1dc06658bfaa764d295000c-106e0e67094b88ca4e**
Ack No. : **122420158043400**
Ack Date : **13-Feb-24**

Mecgale Pneumatics Pvt. Ltd.
Registerd Office-N-65, MIDC, Hingna Road,
Nagpur-440 016
GSTIN/UIN: 27AADCM7418C1ZN
State Name : Maharashtra, Code : 27
E-Mail : info@mecgale.com

Consignee (Ship to)
Scania Steels & Powers Ltd.
22KM, Stone Gharghoda Road, Village
-Punjipatra, Raigarh -496011
GSTIN/UIN : 22AAHCS4471R1ZT
PAN/IT No : AAHCS4471R
State Name : Chhattisgarh, Code :.22

Buyer (Bill to)
Scania Steels & Powers Ltd.
22KM, Stone Gharghoda Road, Village
-Punjipatra, Raigarh-496011
GSTIN/UIN : 22AAHCS4471R1ZT
PAN/IT No : AAHCS4471R
State Name : Chhattisgarh, Code : 22
Place of Supply : Chhattisgarh

Invoice No. **MNF/MH/2324/1580**	Dated **13-Feb-24**
Delivery Note **PKG/1580**	Mode/Terms of Payment **90%+GST Against Proforma Invoice**
Reference No. & Date.	Other References **Whether Tax Is Payable on Reverse Charge Basis/No**
Buyer's Order No. **SSPL/PP/2021-22/P10023**	Dated **10-Jan-23**
Dispatch Doc No.	Delivery Note Date **13-Feb-24**
Dispatched through **Avone Transport Organisation**	Destination **RAIGARH**
Bill of Lading/LR-RR No. **16178 dt. 13-Feb-24**	Motor Vehicle No. **HR38X2498**

Terms of Delivery
Equipment for Ash Handling (8428)
By Road , on Door Delivery
Freight Paid , Job No. G2601

Sl No.	Description of Goods	HSN/SAC	Quantity	Rate	per	Amount
1	**2/8/3 Ash / Master Vessel**	84289020	**11.00 Nos.**	1,00,000.00	Nos.	**11,00,000.00**
2	**2/8/3 Slave Vessel**	84289020	**8.00 Nos.**	90,000.00	Nos.	**7,20,000.00**
3	**5/8/3 Ash Vessel**	84289020	**8.00 Nos.**	1,20,000.00	Nos.	**9,60,000.00**
						27,80,000.00
	IGST @18%-Tax			*18*	%	**5,00,400.00**
	Total		**27.00 Nos.**			**Rs. 32,80,400.00**

Amount Chargeable (in words)
INR Thirty Two Lakh Eighty Thousand Four Hundred Only
E. & O.E

HSN/SAC	Taxable Value	Integrated Tax		Total Tax Amount
		Rate	Amount	
84289020	27,80,000.00	18%	5,00,400.00	5,00,400.00
Total	**27,80,000.00**		**5,00,400.00**	**5,00,400.00**

Tax Amount (in words) : **INR Five Lakh Four Hundred Only**

Company's Bank Details
Bank Name : **Bank of Baroda [Cash Credit A/c]**
A/c No. : **04650500000207**
Branch & IFS Code : **Dharampeth, Nagpur & BARB0DHARAM**

Company's PAN : **AADCM7418C**

Declaration
We declare that this invoice shows the actual price of the goods described and that all particulars are true and

for Mecgale Pneumatics Pvt. Ltd.
Signature valid
Digitally signed by HARSHAL PARASHRAM CHOUDHARY
Date: 2024.02.13 11:45:58 +05:30
Reason: Digital Sign
Location: Nagpur
Authorised Signatory

SUBJECT TO NAGPUR JURISDICTION

This is a Computer Generated Invoice

Tax Invoice

(ORIGINAL FOR RECIPIENT)

e-Invoice

IRN : **d62fe89baf336857ee977663c94058be7454b8f22a7f09a73-a09027dac89608f**
Ack No. : **122420796521081**
Ack Date : **30-Mar-24**

Mecgale Pneumatics Pvt. Ltd.
Registerd Office-N-65, MIDC, Hingna Road,
Nagpur-440 016
GSTIN/UIN: 27AADCM7418C1ZN
State Name : Maharashtra, Code : 27
E-Mail : info@mecgale.com

Consignee (Ship to)
Scania Steels & Powers Ltd.
22KM. Stone Gharghoda Road, Village-Punjipatra,
Raigarh -496011
GSTIN/UIN : 22AAHCS4471R1ZT
PAN/IT No : AAHCS4471R
State Name : Chhattisgarh, Code : 22

Buyer (Bill to)
Scania Steels & Powers Ltd.
22KM, Stone Gharghoda Road, Village-Punjipatra,
Raigarh-496011
GSTIN/UIN : 22AAHCS4471R1ZT
PAN/IT No : AAHCS4471R
State Name : Chhattisgarh, Code : 22
Place of Supply : Chhattisgarh

Invoice No. **MNF/MH/2324/1936**	Dated **30-Mar-24**
Delivery Note **PKG/1936**	Mode/Terms of Payment **90%+GST Against Proforma Invoice**
Reference No. & Date.	Other References Whether Tax Is Payable on Reverse Charge Basis(No
Buyer's Order No. **SSPL/PP/2021-22/P10023**	Dated **10-Jan-23**
Dispatch Doc No.	Delivery Note Date **30-Mar-24**
Dispatched through **Avone Transport Organisation**	Destination **RAIGARH**
Bill of Lading/LR-RR No. **16250 dt. 30-Mar-24**	Motor Vehicle No. **MH40CM0069**

Terms of Delivery
Equipment for Ash Handling (8428)
By Road , on Door Delivery
Freight Paid , Job No. G2601

Sl No.	Description of Goods	HSN/SAC	Quantity	Rate	per	Amount
1	**Rotary Vane Feeder**	84289020	**2.000 No.**	1,80,000.00	No.	**3,60,000.00**
2	**Telescopic Chute**	84289020	**1.000 No.**	4,00,000.00	No.	**4,00,000.00**
3	**By-Pass with Slide Gate**	84289020	**1.000 No.**	10,000.00	No.	**10,000.00**
4	**Air Receiver**	84289020	**1.00 Nos.**	4,50,000.00	Nos.	**4,50,000.00**

continued to page number 2

Tax Invoice(Page 2)

(ORIGINAL FOR RECIPIENT)

cgale Pneumatics Pvt. Ltd.
egisterd Office-N-65, MIDC, Hingna Road,
Nagpur-440 016
GSTIN/UIN: 27AADCM7418C1ZN
State Name : Maharashtra, Code : 27
E-Mail : info@mecgale.com

Consignee (Ship to)
Scania Steels & Powers Ltd.
22KM, Stone Gharghoda Road, Village-Punjipatra,
Raigarh -496011
GSTIN/UIN : 22AAHCS4471R1ZT
PAN/IT No : AAHCS4471R
State Name : Chhattisgarh, Code : 22

Buyer (Bill to)
Scania Steels & Powers Ltd.
22KM, Stone Gharghoda Road, Village-Punjipatra,
Raigarh-496011
GSTIN/UIN : 22AAHCS4471R1ZT
PAN/IT No : AAHCS4471R
State Name : Chhattisgarh, Code : 22
Place of Supply : Chhattisgarh

Invoice No. **MNF/MH/2324/1936**	Dated **30-Mar-24**
Delivery Note **PKG/1936**	Mode/Terms of Payment **90%+GST Against Proforma Invoice**
Reference No. & Date.	Other References **Whether Tax Is Payable on Reverse Charge Basis/No**
Buyer's Order No. **SSPL/PP/2021-22/P10023**	Dated **10-Jan-23**
Dispatch Doc No.	Delivery Note Date **30-Mar-24**
Dispatched through **Avone Transport Organisation**	Destination **RAIGARH**
Bill of Lading/LR-RR No. **16250 dt. 30-Mar-24**	Motor Vehicle No. **MH40CM0069**

Terms of Delivery
Equipment for Ash Handling (8428)
By Road , on Door Delivery
Freight Paid , Job No. G2601

Sl No.	Description of Goods	HSN/SAC	Quantity	Rate	per	Amount
5	**Cable Tray & Hardware**	84289020	**0.500 Set**	2,50,000.00	Set	**1,25,000.00**
						13,45,000.00
	IGST @18%-Tax			*18*	%	**2,42,100.00**
	Total					**Rs. 15,87,100.00**

Amount Chargeable (in words)
INR Fifteen Lakh Eighty Seven Thousand One Hundred Only

E. & O.E

HSN/SAC	Taxable Value	Integrated Tax Rate	Integrated Tax Amount	Total Tax Amount
84289020	13,45,000.00	18%	2,42,100.00	2,42,100.00
Total	**13,45,000.00**		**2,42,100.00**	**2,42,100.00**

Tax Amount (in words) : **INR Two Lakh Forty Two Thousand One Hundred Only**

Company's Bank Details
Bank Name : **Bank of Baroda [Cash Credit A/c]**
A/c No. : **04650500000207**
Branch & IFS Code : **Dharampeth, Nagpur & BARB0DHARAM**

Company's PAN : **AADCM7418C**

Declaration
We declare that this invoice shows the actual price of the goods described and that all particulars are true and

for Mecgale Pneumatics Pvt. Ltd.
Signature valid
HARSHAL PARASHRAM CHOUDHARY
Digitally signed by
Date: 2024.03.30 15:48:06 +05:30
Reason: Digital Sign
Location: Nagpur

Authorised Signatory

SUBJECT TO NAGPUR JURISDICTION

SCANIA STEELS & POWERS LIMITED

FORMALY KNOWN AS

SIDHI VINAYAK SPONGE IRON PVT. LTD.

Ref: SSPL/PP/2021-22/P10023

Date: 10.01.2023

To

Mecgale Pneumatics Pvt. Ltd.

Corporate Office – N-65, MIDC , HINGNA ROAD , NAGPUR , INDIA , 440016

Works- N-65, MIDC , HINGNA ROAD , NAGPUR , INDIA , 440016

PAN No - AADCM7418C

GST No - AADCM7418C1ZN

Kind Attn: Mr Rashmin Gupta , 9225241268

Sub: P.O *for Design, Engineering, Manufacture, Supply,* Packing and forwarding, Transportation, and Erection & Commissioning of Dense Phase Pneumatic Ash Handling System for 8 MW Captive Power Plant having 4 x 10 TPH WHR Boilers. for our SCANIA STEELS AND POWERS LIMITED, 22KM STONE, GHARGHODA ROAD, VILLAGE: PUNJIPATRA, RAIGARH -496011, CHATTISGARH. REG

Ref:

1. Tender enquiry vide e-mail dated 31.12.2022
2. Technical observations on your offer through our consultant vide email dt 02.01.2023.
3. Your reply mail dt 09.01.2023, ref-
   MPPL - 7793/MSSL/NGP/RG - 04
4. Final techno commercial discussions held via telephone at Raigarh on 07.01.2023.
5. Your Final verbal confirmation of price on.07.01.2023.

Scania Steels & Powers Limited Raigarh C.G

SUBJECT TO RAIGARH JURISDICTION

ARN No. : AA220417000387L **GST No.22AAHCS4471R1ZT**

SCANIA STEELS & POWERS LIMITED
FORMALY KNOWN AS
SIDHI VINAYAK SPONGE IRON PVT. LTD.

Dear Sir,

With reference to the above and various discussions had with you, we are glad to place this Purchase Order for Design, Engineering, Manufacture, Supply, Packing and forwarding, Transportation, Erection and Commissioning of **ASH HANDLING** for our **SCANIA STEELS AND POWERS LIMITED, 22KM STONE, GHARGHODA ROAD, VILLAGE: PUNJIPATRA, RAIGARH -496011, CHATTISGARH.**

1.0 ENGINEERING CONSULTANTS

ARK Engineering and Power Consultants P Limited, Tiruchirappalli have been appointed as our technical consultants and all technical documents shall be reviewed and approved by them. Hence you are expected to coordinate with ARK for submission of the technical documents and approval by them.

2.0 TECHNICAL SPECIFICATIONS

Design & Technical specifications shall be as per the technical Annexure of this contract.

3.0 SCOPE OF SUPPLY

Complete Scope of Work and Supply shall be as covered in the technical Annexure of this contract.

4.0 PRICE

A. For the Scope of work and supply mentioned vide above clause no.2.0. we *shall pay you a total price as mentioned below.*

Sl.no	DESCRIPTION	PRICE IN RUPEES
1.	Manufacture, Procurement and Supply of Dense Phase Pneumatic Ash Handling System for 8 MW Captive Power Plant having 4 x 10 TPH WHR Boilers along with other connected accessories as detailed under Annexure – III pertaining to scope of supply	**Rs 1,06,00,000.00 / 1 set**
2.	Erection, Testing & Commissioning of the system as detailed above	**Rs 11,00,000.00**
	TOTAL	**Rs 1,17,00,000.00**

SUBJECT TO RAIGARH JURISDICTION

ARN No. : AA220417000387L **GST No.22AAHCS4471R1ZT**

Office & Factory: **22KM, Stone Gharghoda Road, Village: Punjipatra, Raigarh- 496011 (C.G)**
Phone -07767-288016/17, 2005514, Fax- 07767-288015
E-Mail: sidhivinayak_scan@yahoo.co.in

B. PRICE BASIS

Price shall be firm till the commissioning of the plant.

5.0 PACKING & FORWARDING

Packing & forwarding is INCLUDED in the above price. The packing shall be road worthy *protecting the components from any damage during transit.*

6.0 CGST/SGST/IGST

Shall be paid extra at actual as applicable at the time of dispatch.

Other Documents required are:

1. Transporter copy of modvatable invoices (along with the transporter)
2. Original consignee copy of L/R along with other dispatch documents directly to us. Delivery challan giving details viz, Name of the Item, Gross Weight, Net Weight, Package / Case No.s etc

7.0 TRANSPORTATION

The above price is exclusive of Transportation charges for transporting goods / components from your works / your contractor works / your sub vendor works to our site at **22KM STONE, GHARGHODA ROAD, VILLAGE: PUNJIPATRA, RAIGARH -496011, CHATTISGARH.**

8.0 TRANSIT AND SITE STORAGE INSURANCE

Transit insurance for the manufactured items & other bought out items from your works / sub vendor's works to work site shall be arranged and borne *by you. Insurance for site storage will be arranged by us.*

9.0 LIQUIDATED DAMAGES

S.NO.	DESCRIPTION	PENALTY
Liquidated Damages		
1	Delay in Commissioning	0.5% per week up to a maximum of 5 % of the contract value.

Scania Steels & Powers Limited Raigarh C.G

SUBJECT TO RAIGARH JURISDICTION

ARN No. : AA220417000387L **GST No.22AAHCS4471R1ZT**

10.0 DESPATCH INSTRUCTIONS

All the equipments and components of Ash Handel shall be dispatched to the following address.

Delivery Address	:	**22KM STONE, GHARGHODA ROAD, VILLAGE: PUNJIPATRA, RAIGARH -496011, CHATTISGARH.**
Ph No.	:	**8917216756 , 7898144638**
Our GST No.	:	**22AAHCS4471R1ZT**
Trade Name	:	**SCANIA STEELS AND POWERS LIMITED**

11.0 DELIVERY AND COMMISSIONING

Ash handel and its all components should be delivered, Erected and commissioned within 03 – 04 months , as with the progress of project from the date of Purchase order along with requisite advance. You will provide equipment GA drawing immediately from the order and release the balance construction drawings immediately from the date of release of PO. However you will supply the materials without any let up within 07 months from the date of receipt of PO.

12.0 TERMS OF PAYMENT

A	**Supply**	
1	Advance along with PO.	10%
2	Prorata on material readiness, completion of inspection against submission of proforma invoice before dispatch	90% Along with taxes for 100%
B	**Erection & commissioning**	
1.	Advance on mobilisation at Site	20%
2.	On Pro Rata Basis	80%
	You will submit our PBG of 10% order value. PBG shall be valid for 18 months from the date of last supply.	

SUBJECT TO RAIGARH JURISDICTION

ARN No. : AA220417000387L **GST No.22AAHCS4471R1ZT**

13.0 BILL OF MATERIAL – DESPATCH

You shall submit the detailed Bill of Material of all the items (packing slip) along with dispatch documents as part of shipping document.

Responsibility and liability for all goods damaged/lost in full or in part in transit will be of the supplier, if it is due to negligence and lapse on the part of supplier in packing & forwarding.

14.0 INSPECTION

You will submit detailed inspection & quality assurance plan for shop made components as well as bought out components identifying witness & hold points at various critical stages. This plan shall be reviewed and approved by SSPL/ARK. Any inspection request shall be made in writing to SSPL. Upon receipt of such written requests SSPL shall depute their representative within 10 working days. In event of SSPL not being able to depute their representative with in 10 working days SSPL shall send a written inspection waiver/dispatch clearance. If we fail to undertake inspection on such date intimated by you (or) failed to issue waiver certificate with in 10 days of intimation you shall proceed for dispatch with no obligation to us.

15.0 MISTAKES IN INFORMATION

a. The Vendor's shall be responsible for any discrepancies, errors or omissions in the drawings and information supplied by them, whether they have been approved by SSPL or not.

b. The Vendor's shall carry out at their own expenses any alternations or remedial work necessitated by such reasons. If the same is done by the Purchaser on Vendor's behalf, Vendor's shall bear all costs for such remedial action / alternation etc.

Sidhi Scania Steels & Powers Limited Raigarh C.G

SUBJECT TO RAIGARH JURISDICTION

ARN No. : AA220417000387L **GST No.22AAHCS4471R1ZT**

Office & Factory: **22KM, Stone Gharghoda Road, Village: Punjipatra, Raigarh- 496011 (C.G)**
Phone -07767-288016/17, 2005514, Fax- 07767-288015
E-Mail: sidhivinayak_scan@yahoo.co.in

16.0 GUARANTEE

Warranty period will be 12 months from the date of commissioning or 18 months from the date of dispatch whichever is earlier.

During the aforesaid Warranty period, you shall, at your own expenses, upon written demand by us, promptly repair or replace at the plant site, free of cost to us, any part/s constituting the plant:

A) Which may not comply with the technical specifications, or

B) Which may be of defective or incorrect design, or

C) Which under normal and proper use and maintenance proves defective in workmanship or materials or deficient in performance, subject to normal wear and tear.

If you fail to so repair or replace the plant and equipment promptly, we may repair or replace the same at your sole risk and expense without prejudice to any other rights, which we may have under the order. Prior to taking such remedial action, we will advise you regarding the steps to be taken by you to take suitable action. Failure to reply in ten (10) days after the receipt of such notice by you outlining the steps being taken by you to the satisfaction of us, will constitute authority for us to proceed with the repairs or replacements as aforesaid.

The plant shall be operated as per the guidelines given in the operating manuals. You shall depute your competent personnel to site within 48 hours of intimation from us for attending such defects.

17.0 SUSPENSION OF WORK

a. The End Client rights are reserved under this agreement to issue order for the suspension of this contract with the consent of Vendor's.

b. The SSPL reserves the right to suspend and reinstate execution of the whole or any part of the supplies without invalidating the provisions of the Contract. The SSPL will issue orders for suspension or reinstatement of the work to the Vendor's in writing subsequent to mutual agreement.

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c. For a suspension period longer than 1 month for any reason, the implications w.r.t. price escalation and delivery shall be mutually discussed & agreed.

18.0 CANCELLATION

Orders received and acknowledged by supplier may be canceled with the mutual written consent. The advance paid along with the order shall be returned if supplier has not started manufacturing activities. If supplier has started the manufacturing activities, the Purchaser shall compensate the Supplier for the work already carried out on their behalf and the value will be mutually discussed and agreed.

19.0 LIMITATION OF LIABILITY

The liability to the seller will be limited to the total value of the contract

20.0 STATUTORY APPROVAL

For statutory approvals like CEIG, etc. you shall provide necessary technical assistance by way of providing drawings / documents as required. Coordination with CEIG for electrical work within your terminal point is your responsibility. We will pay statutory & inspection fees required at site through valid challan.

21.0 SUBMISSION OF DESPATCH DOCUMENTS

The Vendor's shall submit the following along with each dispatch.

- Delivery challan containing details of the equipment / items dispatched.
- Packing slip containing the quantity, number of packages etc.

22.0 AFTER SALES SERVICE

Vendor shall be responsible for providing prompt & efficient after sales service to SSPL. Vendor shall respond to any service call within 48 hours/ 2 working days from the time of call.

Scania Steels & Powers Limited Raigarh C.G

SUBJECT TO RAIGARH JURISDICTION

23.0 JURISDICTION

All disputes arising out of this contract will be subject to the jurisdiction of **CHATTISGARH.**

24.0 DOCUMENTATION

You shall submit us QAP for our review. You shall submit us the documents as per relevant section of Technical Contract Document with additional copies to our consultant ***M/s ARK Engineering & Power Consultants (p) ltd, B-201, Harihar Residency, 2ND Floor, NO.20, Mannarpuram Main Road, Mannarpuram,Tiruchirapalli-620 020, Tamil Nadu*** for review.

You will sign all copies of this Purchase Order and return to us one copy of the same as a token of your acceptance of the Purchase Order with all the terms and conditions mentioned therein.

You shall submit Control write up and P & I Diagram for specific approval.
You shall submit Outline drawing of Equipments, O & M Manual for reference & record.
You shall not carry out Design & engineering of equipment's which are not under our scope of supply except for providing necessary input details pertaining to our scope of supply

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25.0 FIELD INFORMATION

No. & Capacity of Boiler	4 x 10 TPH WHR Boilers	
Site Details & Climatic Conditions	Site Location	Village –22 km Stone, Gharghorda Road Punjipatra, Raigarh, Chhattisgarh- 496011
	Site Altitude	--
	Nearest Railway Station	Raigarh
	Access Road	Connected to national highway
	Ambient Temp. (°C) Electrical design (°C)	Max : 50 50
	Relative Humidity (%)	Max/ Min / Design = 85 / 25 / 60
	Seismic co-efficient	as per IS : 1893
	Wind Data	*as per IS : 875*
Utilities Data	Plant Air Available 1. Pressure (Kg./Sq.Cm.) 2. Temperature (º C) 3. Dew Point (º C) 4. Oil Content	Separate compressors shall be provided, at 4 – 4.5 Kg./Sq.Cm. 40 No Free Moisture Traces
	Instrument Air Available 1. Pressure (Kg./Sq.Cm.) 2. Temperature (º C) 3. Dew Point (º C)	To be provided at 6 - 7 40 (-)40
	Cooling Water Available 1. Water Pressure (Kg./Sq.Cm) 2. Water Temp. (º C)	To be provided at, 1.5 @ terminal point (inlet) 32 (inlet) / 42 (outlet)
	Service Water Available 1. Pressure (Kg./Sq.Cm.) 2. Temperature (º C)	To be provided at, 3.0 – 3.5 Kg/Sq.cm 45 º C (Max.)
	Power Supply Available Allowable Voltage variation Allowable frequency variation Allowable combined Voltage & frequency Variation Control Supply	415V, 50Hz, 3 phase, 4 wire ± 10 % ± 5 % 10 % (Absolute Sum) 230V AC, Single Phase, 50Hz

SUBJECT TO RAIGARH JURISDICTION

ARN No. : AA220417000387L **GST No.22AAHCS4471R1ZT**

26.0 SCOPE OF WORK

1.2		**System - II (Radiant zone / Evaporator Hopper - 2 & 3 #2 Nos.)**
Two Nos.	-	Adopter cum Downcomer pipe to suit Evaporator Hopper outlet
Two Nos.	-	Expansion Joints.
Two Nos.	-	Self Supported Water cooled Surge Hopper of suitable capacity with bypass arrangement
Two Nos.	-	RF Admittance type Level Switch for Water Cooled Surge Hoppers.
Two Nos.	-	200NB Manual Hand wheel operated Knife Gate Valve for maintenance isolation.
Two Nos.	-	200 NB Spool Piece.
Two Nos.	-	200 NB Pneumatic Cylinder operated Knife Gate Valve.
Two Nos.	-	200 NB Spool Piece.
One Set	-	Consisting of One No. Self Supported Master Conveying Vessel and One No. Slave Conveying Vessel each with inlet valve of size 8" (Dome & Top Plate Water cooled) complete with pneumatic panels & electro pneumatic controls.
One Lot	-	45º long radius Alloy C.I. Flanged Bends of Hardness 400 - 450 BHN.
One No.	-	Terminal End Box.

Our Scope of Work includes Manufacture, Procurement & Supply of Dense Phase Pneumatic Ash Handling System having 4 x 10 TPH WHR Boilers to Common Dust Storage Silo and is detailed below:-

A)		**WHRB # 1 Dust Handling System upto Common Fly Ash Storage Silo:**
1.0		**10 TPH WHR Boiler # 1:**
1.1		***System - I (Radiant Zone / Evaporator Hopper - 1 #1 No.)***
One No.	-	Adopter cum Downcomer pipe to suit Evaporator Hopper outlet
One No.	-	Expansion Joints.
One No..	-	Self Supported Water cooled Surge Hopper of suitable capacity with bypass arrangement.
One No.	-	RF Admittance type Level Switch for Water Cooled Surge Hoppers.
One No.	-	200 NB Manual Hand wheel operated Knife Gate Valve for maintenance isolation.
One No.	-	200 NB Spool Piece.
One No.	-	200 NB Pneumatic Cylinder operated Knife Gate Valve.
One No.	-	200 NB Spool Piece.
One No.	-	Dense Phase Pneumatic Conveying Vessel with inlet valve of size 8" (Dome & Top Plate Water cooled) complete with pneumatic panels & electro pneumatic controls.
One Lot.	-	45º long radius Alloy C.I. Flanged Bends of Hardness 400 - 450 BHN.
One No.	-	Terminal End Box.

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1.3		**System - III (ECO Hopper # 2 Nos.)**
Two Nos.	-	Adopter cum Downcomer pipe to suit Eco Hopper outlet
Two Nos.	-	Expansion Joints.
Two Nos.	-	Self Supported Water cooled Surge Hopper of suitable capacity along with two nos. fluidization pads.
1.4		**System – IV (ESP 1st Field Hopper # 1 No.)**
Two Nos.	-	ESP Fluidising Pads for occasional fluidising through Compressed air for conveying.
One No.	-	RF Admittance type Level Switch for ESP fields Hopper.
One No.	-	Adopter Cum 200 NB Down Comer Pipe to suit ESP hoppers outlet.
One No.	-	200NB Manual Hand wheel operated Knife Gate Valve for maintenance isolation.
One No.	-	*200NB Expansion Joint cum Spool Piece.*
One No.	-	Dense Phase Pneumatic Conveying Vessel with inlet valve of size 8" complete with pneumatic panels & electro pneumatic controls.
One Lot	-	45º long radius Alloy C.I. Flanged Bends of Hardness 400 – 450BHN.
One No.	-	Terminal End Box.
Two Nos.	-	RF Admittance type Level Switch for Water Cooled Surge Hoppers.
Two Nos.	-	200 NB Manual Hand wheel operated Knife Gate Valve for maintenance isolation.
Two Nos.	-	200 NB Spool Piece.
One Set	-	Consisting of One No. Self Supported Master Conveying Vessel and One No. Slave Conveying Vessel each with inlet valve of size 8" (Dome & Top Plate Water cooled) complete with pneumatic panels & electro pneumatic controls.
One Lot	-	45º long radius Alloy C.I. Flanged Bends of Hardness 400 - 450 BHN.
One No.	-	Terminal End Box.
B)		**<u>WHRB # 2 Dust Handling System upto Common Fly Ash Storage Silo</u>: Systems are identical to system as detailed in item no. A i.e. For Boiler # 1.**
C)		**<u>WHRB # 3 Dust Handling System upto Common Fly Ash Storage Silo</u>: Systems are identical to system as detailed in item no. A i.e. For Boiler # 1.**
D)		**<u>WHRB # 4 Dust Handling System upto Common Fly Ash Storage Silo</u>: Systems are identical to system as detailed in item no. A i.e. For Boiler # 1.**
4.0		**175 M3 Dust Storage Silo Top Facilities, connected accessories and Silo Extraction System:**
One No.	-	Reverse Pulse Jet Bag Filter on Dust Silo top.
One No.	-	RF Admittance High Level Switch for Dust storage silo top.
One No.	-	Silo Pressure relief valve gravity flap type.
One Set	-	Silo Fluidizing Pads for occasional fluidising of the dust through Fluidizing Blower
One No.	-	**Dry Ash Disposal System @ 10 TPH consisting of:**

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1.5		**System – V (ESP 2nd Field Hoppers # 1 No.)**
Two Nos.	-	ESP Fluidising Pads for occasional fluidising through Compressed air for conveying.
One No.	-	RF Admittance type Level Switch for ESP fields Hopper.
One No.	-	Adopter Cum 200 NB Down Comer Pipe to suit ESP hoppers outlet.
One No.	-	*200NB Manual Hand wheel operated Knife Gate Valve for maintenance isolation.*
One No.	-	200NB Expansion Joint cum Spool Piece.
One No.	-	Dense Phase Pneumatic Conveying Vessel with inlet valve of size 8" complete with pneumatic panels & electro pneumatic controls.
One Lot	-	45º long radius Alloy C.I. Flanged Bends of Hardness 400 – 450BHN.
One No.	-	*Terminal End Box.*
B)		**WHRB # 2 Dust Handling System upto Common Fly Ash Storage Silo:** **Systems are identical to system as detailed in item no. A i.e. For Boiler # 1.**
C)		**WHRB # 3 Dust Handling System upto Common Fly Ash Storage Silo:** **Systems are identical to system as detailed in item no. A i.e. For Boiler # 1.**
D)		**WHRB # 4 Dust Handling System upto Common Fly Ash Storage Silo:** **Systems are identical to system as detailed in item no. A i.e. For Boiler # 1.**

4.0		**175 M3 Dust Storage Silo Top Facilities, connected accessories and Silo Extraction System:**
One No.	-	*Reverse Pulse Jet Bag Filter on Dust Silo top.*
One No.	-	RF Admittance High Level Switch for Dust storage silo top.
One No.	-	Silo Pressure relief valve gravity flap type.
One Set	-	Silo Fluidizing Pads for occasional fluidising of the dust through Fluidizing Blower
One No.	-	**Dry Ash Disposal System @ 10 TPH consisting of:**

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a) One No. Manual Chain wheel operated knife gate valve for maintenance isolation.

b) One No. Pneumatic Cylinder Operated Knife Gate Valve for regular operation.

c) One No. Spool Piece cum Expansion joint.

d) One No. Rotary Vane Feeder of capacity 10 TPH.

e) One No. Telescopic Chute with inbuilt Bag Filter complete for unloading in closed tanker.

One Set - **Wet Ash Disposal System @ 10 TPH consisting of**

a) One No. Manual / Chain wheel operated Knife Gate Valve for maintenance isolation at the discharge of silo.

b) One No. Spool Piece cum Expansion joint.

c) One No. Rotary Vane Feeder of capacity 10 TPH.

d) One No. 10 TPH Rotary Paddle type Ash Conditioner along with drive arrangement complete for unloading in open truck.

One No. - Silo bypass arrangement along with manual slide gate valve.

One No. - Silo Extraction Local power cum control panel.

Scania Steels & Powers Limited Raigarh C.G

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5.0		**Common Facilities:**
One No.	-	Conveying Air Receiver suitable for working pressure of 5.0 Kg./Cm2 complete with Pressure Gauge, Pressure Switch, Pressure Relief Valve with manual By pass
Two Nos.	-	(1W+1S) Fluidising Blower of suitable capacity as required for Common Dust Storage Silo Fluidising.
One No.	-	Electric Air heater for silo fluidizing air line.
One No.	-	PLC based System Control cum MIMIC Panel. We shall provide RS-485 Communication port with MODBUS Protocol for Communication with plant DCS. (Hardware & Software as required for communication shall be in client scope.)
One Lot	-	Power, Control & Signal Cables: • Control and Signal Cables from field Instrument to PLC, considering PLC shall be placed in control room located 30 Mtrs. cable route length from the conveying system. • Power cables & cabling work as required for the system considering LPCP shall be placed in Silo platform. • Cable Racks / Tray along with cable hardwares as required for the system under present scope of work. However, existing cable rack shall be used wherever feasible. • Above ground earthing.
One Lot.	-	Mecgale shall supply material conveying pipe hardwares like flanges, gasket, fasteners & U clamps and elbow for utility pipes.
One Lot	-	Pipe supporting structure.
One Lot.	-	Matting Flanges, Fasteners, Foundation & Anchor Bolt for the equipment in our scope of supply.
One Lot	-	Commissioning spares as required.
One Lot	-	Erection, Testing & Commissioning of the system

27.0 EXCLUSION

-RCC Foundations, Pedestals as required by the system.

- All Civil work like compressor room, MCC room, Control room, RCC foundations & pedestals as equired for the system...etc.

- Instrument Air as required for the system @ 4 x 0.75 M^3/min. (FAD, approx.) at 6.0 to 7.0 Kg/Sq.cm (G) for Electro Pneumatic Controls and Reverse Pulsing of the Bag Filters.

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- Cooling water 4 x 5.0 M³/Hr. (approx.) at 1.0 to 1.5 Kg/Sq.cm in the Ash Handling Plant for Surge hopper, Dome and Top Plate of Inlet Valve Cooling.

- Service Water @ 1.5 M³/Hr. (approx.) as required for Silo Ash Conditioner (During silo unloading only) at 3.0 – 3.5 Kg/Sq.cm.

- 415 Volts, 3 Phase Power Supply upto LPCP alongwith cabling.
- Control Power Supply 5 Amps 230V Volts Single Phase, 50Hz for conveying system control panel through dedicated UPS.

- Plant illumination, Earth grid riser for earthing, communication, ventilation, fire fighting facilities,approach road, Area Lightning etc.

- Any other supply and / or service which is not specifically included in our scope of work.
- One Lot Conveying & Utility Pipes consisting of:

• M.S. heavy duty ERW conveying Pipe Line as per IS: 1239 (Hardware's like Flanges, Gaskets, Fasteners & U–Clamps shall be in Mecgale scope of supply).

• MS Compressed air piping as required for the system.

• GI Instrument air piping downstream to instrument Air Header..

• MS Fluidising Air Piping downstream to Silo Fluidising Blower..

• MS Cooling water MS piping downstream to cooling water header.

• MS Service water piping downstream to service water header for ash conditioner.

- One No. 175 Cu.M. Fly Ash Storage Silo in M.S. Construction (Silo D&E by Mecgale).

- Two Nos. (1W + 1S) Oil Lubricated, Air Cooled Conveying Air Screw Compressors of capacity 10 m3/min. discharging at 4.0 - 4.5 Kg/Sq.Cm along with drive arrangement complete with accessories.

- One Lot O & M Spares for Ash handling System.

Yours Sincerely,

For SCANIA STEELS AND POWERS LIMITED.,

Scania Steels & Powers Limited Raigarh C.G

Authorised signatory

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ARK ENGINEERING AND POWER CONSULTANTS (P) LTD, TIRUCHIRAPPALLI
Customer: M/s. SCANIA STEELS & POWERS LIMITED .,RAIGARH, CHHATTISGARH
Project: 1 x 8 MW CAPTIVE POWER PLANT

TECHNICAL DATA SHEET FOR ASH HANDLING SYSTEM

S.NO	DESCRIPTION	UNITS	MECGALE OFFER DT: 05.05.22	ARK REPLY DT: 02.01.2023	MECGALE OFFER DT: 02.01.2023	ARK REPLY DT: 06.01.2023	MECGALE OFFER DT: 09.01.2023	ARK REPLY DT: 10.01.2023
A	**DESIGN BASIS**							
1	No of cycles per hour		Not more than 20					
2	Conveying air pressure required	kg/cm2(g)	4.0 - 4.5					
3	Instrument air pressure required	kg/cm2(g)	6.0 - 7.0					
4	Total Conveying air quantity required	m^3/Hr	840	Kindly check the conveying air qty which is on double the requirement compared with MCCIPL - RMW	Kindly consider 600 M3/Hr.	Noted		
5	Total Instrument air quantity required	m^3/Hr	180					
6	*Total weight of piping*	*Tons*	*10*	Kindly reconfirm the weight as per attached layout	*Noted, consider as given*			
7	Total weight of pipe rack	Tons	6					
8	Total weight of ash silo including supporting structure and platforms, stairs and rails	Tons	46					
B	**DENSE PHASE HANDLING SYSTEM**							
1	**KNIFE GATE VALVES**							
1.1	Quantity		32 Nos.					
1.2	Type And Size		Full flanged Knife Gate valve (200 NB) + 4 Nos. KGV for silo side 3 Nos. manual & 1 No. pneumatic					
1.3	Method Of Valve Operation		*Manual Handwheel / chainwheel /* Pneumatic					
1.4	Are Worn Out Parts Easily replaceable?		Yes					
1.5	Air Quantity And Pressure needed For Valve Operation	m^3 / hr	Nominal					
1.6	Materials Construction And Hardness	BHN						
1.6.1	Body		CI as per IS : 210					
1.6.2	Slide Plate		SS : 304					
1.7	Is Valve Cross Section Drawing Enclosed?		Yes					
1	Are All Specified And/Or Needed Interlocks Provided?		Yes for pneumatic operated					
2	***SS EXPANSION JOINT***							
2.1	Quantity		Total 28 Nos.					
22	Type, Size And Make		Multi Convolute / 200 NB / MPPL Make					
2.3	Materials Of Construction							
2.3.1	Body		Flanged, SS / MS, IS : 2062					
2.3.2	Bellow		SS : 304 / MS					
2.3.3	Inner Sleeve		SS : 304 / MS					
3	***ASH INLET VALVE***							
3.1	Quantity		Total 28 Nos.					
3.2	Type And Size		Dome type Inlet Valve, 200 NB					
3.3	Method Of Valve Operation		Pneumatic Cylinder Optd					
3.4	Quantity, Type And Make of Limit Switch		1 No. / Conv. Vessel, Pneu. Air level switch, Norgren make					
3.5	Type And Connections		Pneumatically operated PU tubing					
36	Valve Working Pressure	Kg/cm^2	4.0 - 4.5 Kg/Sq.Cm					
3.7	Are Worn-Out Parts Easily Replaceable?		Yes					
3.8	***Construction Materials & Hardness***							
3.8.1	Body		CI as per IS : 210					
3.8.2	Flap Plate		Alloy CI (Dome type)					
3.8.3	Shaft		SS : 304					
3.9	Is Valve Cross Section Drawing Enclosed?		Yes					
4	***ASH TRANSMITTAL VESSEL***							
4.1	Quantity		28					
4.2	Type		Ash Conveying Vessels (casted ash vessels)					
4.3 A	Location & Size (**AFBC**)		**N/A**					
	Furnace		**N/A**					
	Economiser		**N/A**					
	Air Heater		**N/A**					
	ESP Field 1		**N/A**					
	ESP field 2		**N/A**					
	ESP Field 3		**N/A**					
	ESP Field 4		**N/A**					
4.3 B	Location & Size (**WHRB-1, 2, 3 & 4**)							
	Evaporator / Radiant Zone		1 - 2 cft (approx)	consider 3 CFT	2 CFT (as per MCCIPL)	Noted		
	Economiser		1 - 2 cft (approx)	consider 3 CFT	2 CFT (as per MCCIPL)	Noted		
	ESP Field 1		3 cft (approx)	Consider 5 CFT	Noted			
	ESP field 2		3 cft (approx)	Consider 5 CFT	Noted			
	ESP field 3		NA					
4.3 C	Location & Size (**WHRB- 3**)		**N/A**					
	Evaporator / Radiant Zone		**N/A**					
	Economiser		**N/A**					
	ESP Field 1		**N/A**					
	ESP field 2		**N/A**					
	ESP field 3		**N/A**					
4.5	No Of Cycles/Hr For Design Capacity		20					
4.6	Maximum No. of Cycles Allowed		40					
4.7	Effective Ash Removal Capacity For Max. No. of Cycles	Tonnes	1					
4.8	Are Needed Pressure Relief Valves Are Provided?		Not required as there is no outlet valve					
4.9	Are Needed Gates Are Provided?		Yes (wherever applicable)					
4.9	***Material Of Construction Hardness & Thickness***							
4.9.1	Body		Ash Vessel : CI, as per IS : 210					
4.9.2	Inlet Segment		CI, as per IS : 210					
4.9.3	Wear Segment		CI, as per IS : 210					
4.10	Is Detailed Drawings Furnished?		Yes					
5	***ASH DISPOSAL TRANSPORT PIPE***							
5.1	Length of Each Conveying Pipe Line		as per data sheet					
5.2	Total Length Of Ash Disposal Pipe Line		950 - 1000 mtrs approx	Refer attached layout				

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S.NO	DESCRIPTION	UNITS	MECGALE OFFER DT: 05.05.22	ARK REPLY DT: 02.01.2023	MECGALE OFFER DT: 02.01.2023	ARK REPLY DT: 06.01.2023	MECGALE OFFER DT: 09.01.2023	ARK REPLY DT: 10.01.2023
5.3 A	Diameter & Thickness of Pipe Line (AFBC)	mm	N/A					
	Furnace		N/A					
	Economiser		N/A					
	Air Heater		N/A					
	ESP Field 1		N/A					
	ESP field 2		N/A					
	ESP Field 3		N/A					
	ESP Field 4		N/A					
5.3 B	Location & Size (WHRB-1, 2, 3 & 4)	mm						
	Evaporator / Radiant Zone		80 NB (approx)					
	Economiser		80 NB (approx)					
	ESP Field 1		80 NB (approx)	consider 100NB	80 NB (as per MCCIPL)	consider 100NB, since here only 2 filed ESP is applicable	In MCCIPL also 2 field ESP. Request to consider 80 NB	Please note that in MCCIPL there are 3 field 3 hoppers, whereas here it is 3 field 2 hoppers, please refer attached PID of MCCIPL. Hence consider 100NB and revise
	ESP field 2		80 NB (approx)	consider 100NB	80 NB (as per MCCIPL)	consider 100NB, since here only 2 filed ESP is applicable	In MCCIPL also 2 field ESP. Request to consider 80 NB	Please note that in MCCIPL there are 3 field 3 hoppers, whereas here it is 3 field 2 hoppers, please refer attached PID of MCCIPL. Hence consider 100NB and revise
	ESP field 3		NA					
5.3 B	Location & Size (WHRB)	mm	N/A					
	Evaporator / Radiant Zone		N/A					
	Economiser		N/A					
	ESP Field 1		N/A					
	ESP field 2		N/A					
	ESP Field 3		N/A					
5.4	Code of Pipe Line		As per IS-1239 MS ERW heavy duty Class 'C'					
5.5	Velocity Thru Pipe Considered	m/s	5 - 7 m/sec (Avg)					
5.6	Type of Joints		Flanged at 12 to 18 M (aaprox.)					
5.7	**Weight Of Pipe Per Meter**	Kg						
5.7.1	Empty Weight		DDE					
5.7.2	With Ash		DDE					
5.8	Material Of Pipe		MS					
5.9	Type Of Support For Lines		Vertical pipe supporting column					
5.10	No. of Pipe Bends		5 Nos. 90 Deg. Bends Per pipe line (approx)					
5.11	Material Of Pipe Bends		Alloy CI					
5.12	Radius Of Pipe Bends		R=5D					
6	**FLUIDIZING PADS**							
6.1	Quantity		32 Nos. for 2 Nos. Boiler & ESP Hopper & 12 - 14 Nos. for FA silo					
6.2	Size		150 mm x 300 mm					
6.3	**Materials Of Construction**							
6.3.1	Frame Work		MS					
6.3.2	Element		Woven SS - 304 wire mesh					
6.3.4	Air Quantity Needed Per Pad (Nm3/Hr) And Pressure (MWC)		very nominal, 10 - 15 M3/Hr & 300-500 mmWc (During Hopper / silo unloading only)					
7	**MOTORS**							
7.1	Quantity		9 Nos.					
7.2	Motor Rating At 50°C	KW						
7.2 a	For Bed Ash Conditioner	KW	N/A					
7.2 b	For Fly Ash conditioner	KW	1 x 3.7 / 5.5 KW		3.7 KW			
7.2 c	For Ash unloading chute in Bed Ash Silo	KW	N/A					
7.2 d	For Ash unloading chute in Fly Ash Silo	KW	1.5 KW & 0.37 KW					
7.2 e	For Airlock feeder in Bed Ash silo	KW	N/A					
7.2 f	For Airlock feeder in Fly Ash silo	KW	2 x 0.75 KW		2 x 0.55 KW			
7.3	Guaranteed Input To Motor With Fan Operating At Rated Flow & TDH	KW	Later					
7.4	Type Of Enclosure		IP-55					
7.5	Class Of Insulation		Class 'F' restricted to Class 'B'					
7.6	Voltage	Volts	415					
7.7	No. Of Phases		3 Phase, 50 Hz AC					
7.8	Type Of Bearings		Anti friction Ball / Roller					
7.9	Are the Offered Motors conforming To Sub Spec?		Yes					
7.10	Motor Data Sheets		Shall be provided post order					
7.11	Current At Driven Equipment rated Point		Later					
7.12	Winding Suitable For 24V Space Heating For Motors Below 30KW		Later					
7.13	Are the Motor Above 30KW provided With Space Heater Suitable for 230 V single phase AC?		Not Applicable for present case					
8	**SILO VENT FILTER**							
8.1	Type Of Vent Filter		Reverse Pulse Jet Bag Filter					
8.2	Quantity		One No.					
8.3	Make		Self					
8.4	Location		Ash Silo Top					
8.5	Designed Standard		As per relevant standard					
8.5.1	Capacity (Cu. m/Hr Airflow per Hr.)	m^3 / hr	Later					
8.5.2	Maximum Ash Content Of the Air Coming Out From the Vent Filter	$mg/m^3/net$	Less than 50 mg/Nm3					
8.6	**Material Of Construction**							
8.6.1	Body		MS as per IS : 2062					
8.6.2	Filter Element		Polyster Needle Felt					
8.7	Filtering Area Of Bags Prevent Filter	m^2	Later					

S.NO	DESCRIPTION	UNITS	MECGALE OFFER DT: 05.05.22		ARK REPLY DT: 02.01.2023	MECGALE OFFER DT: 02.01.2023	ARK REPLY DT: 06.01.2023	MECGALE OFFER DT: 09.01.2023	ARK REPLY DT: 10.01.2023
8.8	Net Cloth To Air Ratio		< 0.5M3/Min/M2 (based on avg air)						
8.9	Cleaning Arrangement Of Bags		Reverse Pulsing						
8.10	Motive Force To Clean Vent Filter		Instrument air						
8.11	***In Case Of Compressed Air Used for Cleaning Of Filter***								
8.11.1	Quantity Of Air		Very nominal						
8.11.2	Quantity Of Air Per Vent Filter	m^3 / hr	Very nominal						
8.11.3	Pressure Of Compressed air	Kg/cm^2	6.0 - 7.0						
9	***ASH CONDITIONER***		**FBC Bed ash**	**Fly ash (AFBC & WHRB)**					
9.1	Diameter	mm	**N/A**	Later					
9.2	Length	m	**N/A**	Later					
9.3	Type		**N/A**	Rotary Paddle Type					
9.4	Capacity	TPH	**N/A**	20	CONSIDER 10 TPH AND ACCORDINGLY REVISE THE POWER ALSO	Considered 10 TPH	Noted		
9.5	Power	KW	**N/A**	5.5 approx		3.7 KW	Noted		
9.6	Bulk Density Of Ash	Kg/m3	**N/A**	1000 - 1200					

Scania Steels & Alloys Limited Raigarh C.G

ARK ENGINEERING AND POWER CONSULTANTS (P) LTD, TIRUCHIRAPPALLI

Customer: M/s. SCANIA STEELS & POWERS LIMITED .,RAIGARH, CHHATTISGARH

Project: 1 x 8 MW CAPTIVE POWER PLANT

SCOPE CHART

NOTE:-

√-AHS VENDOR X-CUSTOMER

S. No.	DESCRIPTION	DESIGN &ENGG	SUPPLY	E & C	REMARKS	Mecgale Reply dtd.05.05.2021	ARK REPLY DT: 06.01.2023	Mecgale Reply dtd.09.01.2023	ARK REPLY DT: 10.01.2023
1	Necessary transition piece below each ESP ash hopper to suit the ash hopper flange of the Ash Handling system requirement	√	√	√		Ok	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Ok	
2	SS expansion bellows below each ESP ash hopper	√	√	√		Ok	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Ok	
3	M.S surge hoppers with water jacketing as applicable for all high temperature zone hoppers.	√	√	√		Ok	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Ok	
4	Level probe for each Surge hopper and Fly ash silo	√	√	√		Ok	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Ok	
5	Necessary isolating valve and control valve at the inlet of Ash conveying vessel.	√	√	√		Ok	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Ok	
6	Ash conveying vessel with local controls	√	√	√		Ok	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Ok	
7	MS ERW (heavy) ash conveying pipe line as per IS 1239 with MS flanges, Gaskets, Fasteners, etc.	√	√	√		Ok	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Pipe supply shall be by Purchaser	Noted
8	Civil foundation(for pipe rack supporting structure & Ash rack supporting structure) upto EL + 300 mm.	x	x	x		Ok		Ok	
9	Pipe racks with supporting structure above EL (+) 300 mm. Pipe rack shall not be run just above ground level as it may obstruct man movement and vehicle movement. Hence it shall be run at an elevated level	√	√	√	~~Phase-2 Piping also shall be considered in Phase-1~~	Ok	Design, Engg, Fabrication & Erection in Mecgale scope. Supply by SSPL	Ok	
10	Individual Platform with access ladder and hand rails for attending each bend area including the bends at the FLY silo top	√	√	√		Ok	Design, Engg, Fabrication & Erection in Mecgale scope. Supply by SSPL	Bend maintenance platform at silo top shall be by Purchaser as supply & fabrication of silo shall be by purchaser. We shall provided engineering drawing	Noted only for Silo
11	Long radius (R= 3D or 5D) alloy C.I bends.	√	√	√		Ok	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Ok	
12	Fluidizing pads for all Surge hoppers	√	√	√		Whenever required	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Ok	

Scania Steels & Powers Limited Raigarh C.G

S. No.	DESCRIPTION	DESIGN &ENGG	SUPPLY	E & C	REMARKS	Mecgale Reply dtd.05.05.2021	ARK REPLY DT: 06.01.2023	Mecgale Reply dtd.09.01.2023	ARK REPLY DT: 10.01.2023
13	Terminal box on Fly Ash Silo top	√	√	√	SCOPE COMPARISON FOR ASH HANDLING SYSTEM	Ok	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Ok	
14	Fluidizing pads at conical bottom of Fly ash silo	√	√	√		Ok	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Ok	
15	Level probes for silo high – level indicator	√	√	√		Ok	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Ok	
16	Conveying air/fluidizing air piping with manual valve within battery limits.	√	√	√		Ok	Design, Engg, Fabrication & Erection in Mecgale scope. Supply by SSPL. Valve will be supplied by Mecgale	Based on the discussion with Purchaser, Supply of pipes & valves shall be by Purchaser	SSPL to confirm
17	Two nos. of dense phase air compressors(1W+1S) complete with starter panels and safety switches assembled as a skid	√	~~√~~ X	~~√~~ X	~~Compressor shall be selected considering Phase-2 Equipments also~~	Ok	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	By Purchaser	SSPL to confirm
18	Air receivers of each 4 m^3 capacity with all fittings	√	√	√		Ok	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Ok	
19	Cooling water supply and return piping manual valves within battery limits	√	√	√		Ok	Design, Engg, Fabrication & Erection in Mecgale scope. Supply by SSPL.	Based on the discussion with Purchaser, Supply of pipes & valves shall be by Purchaser	SSPL to confirm
20	Spray water piping for the ash conditioners from one point in the plant.	√	√	√		In silo area	Design, Engg, Fabrication & Erection in Mecgale scope. Supply by SSPL.	Based on the discussion with Purchaser, Supply of pipes & valves shall be by Purchaser	SSPL to confirm
21	Instrument air piping with manual valves within battery limits	√	√	√		Ok	Design, Engg, Fabrication & Erection in Mecgale scope. Supply by SSPL.	Based on the discussion with Purchaser, Supply of pipes & valves shall be by Purchaser	SSPL to confirm
22	Pressure regulating valve for the conveying air and instrument air	√	√	√		Ok	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	NA as dedicated compressor shall be provided discharging air at 4.0 - 4.5 Bar	Noted
23	Mating flanges & fasteners for complete system ~~as applicable for Phase -1.~~	√	√	√		Ok	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Ok	
24	PLC based control system	√	√	√	~~Phase -2 requirement shall also be considered~~	Ok	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Ok	
25	Blower required for fluidizing pads with ducting	√	√	√		Ok	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Supply of Ducting shall be by Purchaser	Noted
26	FBC boiler bed ash silo of steel construction complete with supporting structure,platform at ash conditioner level, access stair case upto conditioner platform level, ladder with cage above this platform upto silo top, hand rails etc	N/A	N/A	N/A	~~Phase -2~~	Ok	Not Applicable		

Scania Steel & Power Ltd. Raigarh C.G

S. No.	DESCRIPTION	DESIGN &ENGG	SUPPLY	E & C	REMARKS	Mecgale Reply dtd.05.05.2021	ARK REPLY DT: 06.01.2023	Mecgale Reply dtd.09.01.2023	ARK REPLY DT: 10.01.2023
27	Common Fly ash silo (~~FBC Boiler and~~ WHR boilers) of steel construction complete with supporting structure, platform at ash conditioner level, access stair case upto conditioner platform level, ladder with cage above this platform upto silo top, hand rails etc	√	SCOPE COMPARISON FOR ASH HANDLING SYSTEM √	√	~~Vendor's scope considering that of phase 2~~	**Ok**	Design, Engg in Mecgale scope. Supply , Fabrication & Erection by SSPL	Ok	
28	Manual By-pass ash discharge chutes with slide gate for Fly ash silo with the chute pipe extension up to 1200 mm above the ground level	√	√	√		**Ok**	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Ok	
29	Mechanised unloading chutes at Fly ash silo outlet with proper vanes for dry handling of the ash incase dry disposal of ash	√	√	√		**Ok**	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Ok	
30	Twin screw type Ash conditioner with replaceable paddles for fly ash silo outlet	√	√	√		**Ok**	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Single shaft ash conditioner for 10 TPH capacity	Noted
31	Twin screw type Ash conditioner with replaceable paddles for bed ash silo outlet	**N/A**	**N/A**	**N/A**	~~Phase -2~~	**Ok**			
32	Ash feeder (RAV) for the wet and dry unloading outlets	√	√	√		**Ok**	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Ok	
33	Bin mounted vent filters on top of Fly Ash Silo	√	√	√		**Ok**	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Ok	
34	Local control panel with motor starters for the drives of ash feeder and the ash conditioner, feeders for the compressor starter panels	√	√	√	~~Phase -2 requirement shall also be considered~~	**Ok**	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Ok	
35	Distribution board with one incomer and outgoing feeders for the Ash unloading starter panels, compressor starter panels and other panels in vendor scope.	√	√	√	~~Phase -2 requirement shall also be considered~~	**Ok**	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Ok	
36	Complete power, control and instrumentation cables with cable tray, cable tray supports,over ground earthing ~~as applicable for Phase-1.~~	√	√	√		**Ok**	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Ok	
37	Spare bends and fasteners for bend assembly.	√	√	√		**Ok**	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Ok	
38	Foundation bolts and shim plates	√	√	√		**Ok**	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Ok for the equipment under Mecgale scope	Noted
39	2 coats Primer painting after thorough wire brush cleaning and 2 coats of final painting (together dry film thickness of not less than 120 microns)	√	√	√		**Noted however detailed painting specificationcshall be submitted during execution**	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Noted however detailed painting specificationcshall be submitted during execution	Noted
40	Necessary transition piece below each ash hopper to suit the ash hopper flange ot the Ash Handling system requirement	√	√	√		**Ok**	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Ok	
41	SS expansion bellows below each ash hopper	√	√	√		**Ok**	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Ok	
42	M.S surge hoppers with water jacketing as applicable for all high temperature zone hoppers.	√	√	√		**Ok**	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Ok	

Raigarh C.G

S. No.	DESCRIPTION	DESIGN &ENGG	SUPPLY	E & C	REMARKS	Mecgale Reply dtd.05.05.2021	ARK REPLY DT: 06.01.2023	Mecgale Reply dtd.09.01.2023	ARK REPLY DT: 10.01.2023
43	Level probe for each Surge hopper ~~and BED ash silo~~	√	√	√	SCOPE COMPARISON FOR ASH HANDLING SYSTEM	Ok	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Ok	
44	Necessary isolating valve and control valve at the inlet of Ash conveying vessel.	√	√	√		Ok	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Ok	
45	Ash conveying vessel with local controls	√	√	√		Ok	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Ok	
46	MS ERW (heavy) ash conveying pipe line as per IS 1239 with MS flanges, Gaskets, Fasteners, etc.	√	√	√		Ok	Design, Engg, Fabrication & Erection in Mecgale scope. Supply by SSPL.	Ok	
47	Civil foundation(for pipe rack supporting structure & Ash rack supporting structure) upto EL + 300 mm.	X	X	X		Ok	SSPL	Ok	
48	Pipe racks with supporting structure above EL (+) 300 mm. Pipe rack shall not be run just above ground level as it may obstruct man movement and vehicle movement. Hence it shall be run at an elevated level	N/A	N/A	N/A	~~Covered in Phase -1~~	Ok	Not Applicable	Ok	
49	Individual Platform with access ladder and hand rails for attending each bend area ~~including the bends at the BED silo top~~	√	√	√		for 90 degree bend area	Design, Engg, Fabrication & Erection in Mecgale scope. Supply by SSPL.	Ok	
50	Long radius (R= 3D or 5D) alloy C.I bends.	√	√	√		Ok	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Ok	
51	Fluidizing pads for all Surge hoppers	√	√	√		Ok	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Ok	
52	Terminal box on Silo top	√	√	√		Ok	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Ok	
53	Fluidizing pads at conical bottom of Bed ash silo	N/A	N/A	N/A		Ok	Not Applicable		
54	Level probes for silo high – level indicator	√	√	√		Ok	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Ok	
55	Conveying air/fluidizing air piping with manual valve within battery limits.	√	√	√		Ok	Design, Engg, Fabrication & Erection in Mecgale scope. Supply by SSPL. Valve will be supplied by Mecgale	Based on the discussion with Purchaser, Supply of pipes & valves shall be by Purchaser	SSPL to confirm
56	Two nos. of dense phase air compressors(1W+1S) complete with starter panels and safety switches assembled as a skid	N/A	N/A	N/A	~~Covered in Phase -1~~	Ok	Not Applicable		
57	Air receivers of each 4 m^3 capacity with all fittings	N/A	N/A	N/A	~~Covered in Phase -1~~	Ok	Not Applicable		
58	Cooling water supply and return piping manual valves within battery limits	√	√	√		Ok	Design, Engg, Fabrication & Erection in Mecgale scope. Supply by SSPL. Valve will be supplied by Mecgale	Based on the discussion with Purchaser, Supply of pipes & valves shall be by Purchaser	SSPL to confirm

S. No.	DESCRIPTION	DESIGN &ENGG	SUPPLY	E & C	REMARKS	Mecgale Reply dtd.05.05.2021	ARK REPLY DT: 06.01.2023	Mecgale Reply dtd.09.01.2023	ARK REPLY DT: 10.01.2023
			SCOPE COMPARISON FOR ASH HANDLING SYSTEM						
59	Spray water piping for the ash conditioners from one point in the plant.	√	√	√		Ok	Design, Engg, Fabrication & Erection in Mecgale scope. Supply by SSPL. Valve will be supplied by Mecgale	Based on the discussion with Purchaser, Supply of p ipes & valves shall be by Purchaser	SSPL to confirm
60	Instrument air piping with manual valves within battery limits	√	√	√		Ok	Design, Engg, Fabrication & Erection in Mecgale scope. Supply by SSPL. Valve will be supplied by Mecgale	Based on the discussion with Purchaser, Supply of p ipes & valves shall be by Purchaser	SSPL to confirm
61	Pressure regulating valve for the conveying air and instrument air	√	√	√		Ok	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	NA as dedicated compressor shall be provided discharging air at 4.0 - 4.5 Bar	Noted
62	Mating flanges & fasteners for complete system ~~as applicable for Phase -2.~~	√	√	√		Ok	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Ok	
63	PLC based control system	N/A	N/A	N/A	~~Covered in Phase -1~~	Ok	Not Applicable	Ok	
64	Blower required for fluidizing pads with ducting	√	√	√		Ok	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Ok (Supply of Ducting by Purchaser)	Noted
65	FBC boiler bed ash silo of steel construction complete with supporting structure,platform at ash conditioner level, access stair case upto conditioner platform level, ladder with cage above this platform upto silo top, hand rails etc	N/A	N/A	N/A		Ok	Not Applicable	Ok	
66	Common Fly ash silo (~~FBC Boiler and~~ WHR boilers) of steel construction complete with supporting structure, platform at ash conditioner level, access stair case upto conditioner platform level, ladder with cage above this platform upto silo top, hand rails etc	N/A	N/A	N/A	~~Covered in Phase -1~~	Ok	Not Applicable	Ok	
67	Manual By-pass ash discharge chutes with slide gate for Bed ash silo with the chute pipe extension up to 1200 mm above the ground level	√	√	√		Ok	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Ok	
68	Mechanised unloading chutes at Bed silo outlet with proper vanes for dry handling of the ash incase dry disposal of ash	N/A	N/A	N/A		Ok	Not Applicable	Ok	
69	Twin screw type Ash conditioner with replaceable paddles for fly ash silo outlet	√	√	√	~~Covered in Phase -1~~	Ok	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Single shaft ash conditioner provided of 10 TPH capacity	Noted
70	Twin screw type Ash conditioner with replaceable paddles for bed ash silo outlet	N/A	N/A	N/A		Ok	Not Applicable	Ok	
71	Ash feeder (RAV) for the wet and dry unloading outlets	√	√	√		Ok	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Ok	
72	Bin mounted vent filters on top of Bed Ash Silo	N/A	N/A	N/A		Ok	Not Applicable	Ok	
73	Local control panel with motor starters for the drives of ash feeder and the ash conditioner, feeders for the compressor starter panels	N/A	N/A	N/A	~~Covered in Phase -1~~	Ok	Not Applicable	Ok	

S. No.	DESCRIPTION	DESIGN &ENGG	SUPPLY	E & C	REMARKS	Mecgale Reply dtd.05.05.2021	ARK REPLY DT: 06.01.2023	Mecgale Reply dtd.09.01.2023	ARK REPLY DT: 10.01.2023
74	Distribution board with one incomer and outgoing feeders for the Ash unloading starter panels, compressor starter panels and other panels in vendor scope.	N/A	N/A	N/A	Covered in Phase-1	Ok	Not Applicable	Ok	
75	Complete power, control and instrumentation cables with cable tray, cable tray supports,over ground earthing ~~as applicable for Phase - 2~~	√	√	√		Ok	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Ok	
76	Spare bends and fasteners for bend assembly.	√	√	√		Ok	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Ok	
77	Foundation bolts and shim plates	√	√	√		Ok	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Ok for the equipment under Mecgale scope of supply	Noted
78	2 coats Primer painting after thorough wire brush cleaning and 2 coats of final painting (together dry film thickness of not less than 120 microns)	√	√	√		Ok	complete Design, Engg, supply, Fabrication & Erection in Mecgale scope	Noted however detailed painting specificationcshall be submitted during execution	Noted
79	**FACILITIES**								
79.1	Providing Erection tools, tackles, hoists, derricks, slings, scaffolding, rigging tools, welding sets, instruments, appliances, consumables required for unloading, transporting, storing, erection, inspection, testing and commissioning.		√			Ok	To be discussed with client during finalisation	Ok, Unloading & stoarge by Purchaser	SSPL to confirm
79.2	Unloading at site and leading to erection site including required material handling facility.		√			Ok		Unloading & stoarge by Purchaser	SSPL to confirm
79.3	Pre-commissioning check, trial run of all equipment.		√			Ok		Ok	
79.4	Providing instrument for above testing		√			Ok		Ok	
79.5	Performance test		√			Ok		Ok	
79.6	Construction of site office and store room,if required equivalwnt of a 20 ft container		√			Ok		By Purchaser	SSPL to confirm
79.7	Local conveyance, Boarding & Lodging for Bidder personnel		√			Ok		By Purchaser	SSPL to confirm
79.8	Supervisory staff for AHS start-up, commissioning		√			Ok		Ok	
79.9	Supply of construction power and water at free of cost		SSPL			Ok		Ok	
79.10	Communication facilities		√			Ok		Ok	
79.11	Emergency / first aid medical facilities (as available at site		As available at site			Ok		Ok	
79.12	Security for Bidder supplied items		√			Ok		By Purchaser	SSPL to confirm
79.13	Overall Lighting		SSPL			Ok		Ok	
79.14	Lighting facilities at erection site other than the overall lighting		√			Ok		Ok	
79.15	Packing & forwarding		√			Ok		Ok	
79.16	Transportation		√			Ok		Ok	
79.17	Transit insurance		√			Ok		Ok	
79.18	Site storage insurance		X			Ok		Ok	
79.19	Necessary technical assistance CEIG, Pollution & factory approval		√		Technical support only	By Purchaser		Ok	

Scania Steels & Rollers Limited
Raigarh
C.G

ANNEXURE-5
Cooling Discharge Water Analysis Report (April - 2024 to September - 2024)

Envirotech East Pvt. Limited

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company

- Laboratory Accrediated by NABL, as per ISO/IEC 17025 :2017
- Laboratory Recognized by WBPCB
- Accredited EIA Consultant by QCI-NABET

100, Kalikapur, Madurdaha, Kolkata – 700 107, West Bengal, India

☎ – + 91 33 2443 8127/8128 ; + 91 33 4063 5011; email: eeplkol@gmail.com; eeplkol2@gmail.com

CIN NO : U74210WB1989PTC047403

ANX-6

COOLING DISCHARGE WATER ANALYSIS REPORT

Name of the client	**M/s. Scania Steels & Powers Ltd. (Formerly Known as Sidhi Vinayak Sponge Iron Pvt. Ltd.)**
Address	22 KM Stone Gharghoda Road, Vill: Punjipatra, Raigarh, Pin: 496 011
Location of Sample	Cooling Discharge Water
Sampling Date	24.04.2024
Sample Collected by	Company Representative (EEPL)

RESULTS OF SAMPLE

Sl. No.	Parameter	Unit	Concentration	Standard
1.	pH	-	6.5	**5.5 - 9.0**
2.	Total Suspended Solids	mg/l	44	**100**
3.	Oil & Grease	mg/l	<2	**10**
4.	COD	mg/l	82	**250**
5.	BOD (3 days at 27°C)	mg/l	9	**30**

Contents of this report are meant for your guidance and should not be used for Advertisement, Evidence, Litigation

For ENVIROTECH EAST (P) LTD.

(Authorized Signatory)

Envirotech East Pvt. Limited

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company

- **Laboratory Accrediated by NABL, as per ISO/IEC 17025 :2017**
- **Laboratory Recognized by WBPCB**
- **Accredited EIA Consultant by QCI-NABET**

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☎ – + 91 33 2443 8127/8128 ; + 91 33 4063 5011; email: eeplkol@gmail.com; eeplkol2@gmail.com

CIN NO : U74210WB1989PTC047403

ANX-6

COOLING DISCHARGE WATER ANALYSIS REPORT

Name of the client	**M/s. Scania Steels & Powers Ltd. (Formerly Known as Sidhi Vinayak Sponge Iron Pvt. Ltd.)**
Address	22 KM Stone Gharghoda Road, Vill: Punjipatra, Raigarh, Pin: 496 011
Location of Sample	Cooling Discharge Water
Sampling Date	22.05.2024
Sample Collected by	Company Representative (EEPL)

RESULTS OF SAMPLE

Sl. No.	Parameter	Unit	Concentration	Standard
1.	pH	-	6.6	**5.5 - 9.0**
2.	Total Suspended Solids	mg/l	57	**100**
3.	Oil & Grease	mg/l	<2	**10**
4.	COD	mg/l	95	**250**
5.	BOD (3 days at 27°C)	mg/l	9	**30**

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For ENVIROTECH EAST (P) LTD.

ENVIROTECH EAST PVT. LTD. Kolkata 700107

(Authorized Signatory)

Envirotech East Pvt. Limited

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company

- Laboratory Accrediated by NABL, as per ISO/IEC 17025 :2017
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☎ – + 91 33 2443 8127/8128 ; + 91 33 4063 5011; email: eeplkol@gmail.com; eeplkol2@gmail.com

CIN NO : U74210WB1989PTC047403

ANX-6

COOLING DISCHARGE WATER ANALYSIS REPORT

Name of the client	**M/s. Scania Steels & Powers Ltd. (Formerly Known as Sidhi Vinayak Sponge Iron Pvt. Ltd.)**
Address	22 KM Stone Gharghoda Road, Vill: Punjipatra, Raigarh, Pin: 496 011
Location of Sample	Cooling Discharge Water
Sampling Date	22.06.2024
Sample Collected by	Company Representative (EEPL)

RESULTS OF SAMPLE

Sl. No.	Parameter	Unit	Concentration	Standard
1.	pH	-	6.1	**5.5 - 9.0**
2.	Total Suspended Solids	mg/l	56	**100**
3.	Oil & Grease	mg/l	<2	**10**
4.	COD	mg/l	70	**250**
5.	BOD (3 days at 27°C)	mg/l	7	**30**

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For ENVIROTECH EAST (P) LTD.

(Authorized Signatory)

Envirotech East Pvt. Limited

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company

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CIN NO : U74210WB1989PTC047403

ANX-6

COOLING DISCHARGE WATER ANALYSIS REPORT

Name of the client	**M/s. Scania Steels & Powers Ltd. (Formerly Known as Sidhi Vinayak Sponge Iron Pvt. Ltd.)**
Address	22 KM Stone Gharghoda Road, Vill: Punjipatra, Raigarh, Pin: 496 011
Location of Sample	Cooling Discharge Water
Sampling Date	21.07.2024
Sample Collected by	Company Representative (EEPL)

RESULTS OF SAMPLE

Sl. No.	Parameter	Unit	Concentration	Standard
1.	pH	-	6.4	**5.5 - 9.0**
2.	Total Suspended Solids	mg/l	67	**100**
3.	Oil & Grease	mg/l	4	**10**
4.	COD	mg/l	104	**250**
5.	BOD (3 days at 27°C)	mg/l	13	**30**

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For ENVIROTECH EAST (P) LTD.

(Authorized Signatory)

Envirotech East Pvt. Limited

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company

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CIN NO : U74210WB1989PTC047403

ANX-6

COOLING DISCHARGE WATER ANALYSIS REPORT

Name of the client	**M/s. Scania Steels & Powers Ltd. (Formerly Known as Sidhi Vinayak Sponge Iron Pvt. Ltd.)**
Address	22 KM Stone Gharghoda Road, Vill: Punjipatra, Raigarh, Pin: 496 011
Location of Sample	Cooling Discharge Water
Sampling Date	23.08.2024
Sample Collected by	Company Representative (EEPL)

RESULTS OF SAMPLE

Sl. No.	Parameter	Unit	Concentration	Standard
1.	pH	-	6.6	**5.5 - 9.0**
2.	Total Suspended Solids	mg/l	49	**100**
3.	Oil & Grease	mg/l	<2	**10**
4.	COD	mg/l	72	**250**
5.	BOD (3 days at 27°C)	mg/l	10	**30**

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For ENVIROTECH EAST (P) LTD.

ENVIROTECH EAST PVT. LTD. Kolkata 700107

(Authorized Signatory)

Envirotech East Pvt. Limited

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company

- Laboratory Accrediated by NABL, as per ISO/IEC 17025 :2017
- Laboratory Recognized by WBPCB
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100, Kalikapur, Madurdaha, Kolkata – 700 107, West Bengal, India

☎ – + 91 33 2443 8127/8128 ; + 91 33 4063 5011; email: eeplkol@gmail.com; eeplkol2@gmail.com

CIN NO : U74210WB1989PTC047403

ANX-6

COOLING DISCHARGE WATER ANALYSIS REPORT

Name of the client	**M/s. Scania Steels & Powers Ltd. (Formerly Known as Sidhi Vinayak Sponge Iron Pvt. Ltd.)**
Address	22 KM Stone Gharghoda Road, Vill: Punjipatra, Raigarh, Pin: 496 011
Location of Sample	Cooling Discharge Water
Sampling Date	25.09.2024
Sample Collected by	Company Representative (EEPL)

RESULTS OF SAMPLE

Sl. No.	Parameter	Unit	Concentration	Standard
1.	pH	-	6.9	**5.5 - 9.0**
2.	Total Suspended Solids	mg/l	56	**100**
3.	Oil & Grease	mg/l	<2	**10**
4.	COD	mg/l	60	**250**
5.	BOD (3 days at 27°C)	mg/l	6	**30**

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For ENVIROTECH EAST (P) LTD.

ENVIROTECH EAST PVT. LTD. Kolkata 700107

(Authorized Signatory)

ANNEXURE-6

Ground Water Analysis Report
(April - 2024 to September - 2024)

Envirotech East Pvt. Limited

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company

- Laboratory Accrediated by NABL, as per ISO/IEC 17025 :2017
- Laboratory Recognized by WBPCB
- Accredited EIA Consultant by QCI-NABET

100, Kalikapur, Madurdaha, Kolkata – 700 107, West Bengal, India

☎ – + 91 33 2443 8127/8128 ; + 91 33 4063 5011; email: eeplkol@gmail.com; eeplkol2@gmail.com

CIN NO : U74210WB1989PTC047403

ANX-7

MONITORING REPORT

Name of Industry	**M/s. Scania Steels & Powers Ltd. (Formerly Known as Sidhi Vinayak Sponge Iron Pvt. Ltd.)**
Address :	22 KM Stone Gharghoda Road, Vill: Punjipatra, Raigarh, Pin: 496 011
Date of Sampling	24.04.2024
Location	**(A)**Borewell-2 water (at Project Site) **(B)** Borewell water (at Punjipatra)

GROUND WATER ANALYSIS REPORT

Sl. No.	Parameter	Unit	Concentration		Standard IS:10500:2012
			(a)	(b)	
1	Colour	Hazen	<5	<5	5
2	Odour		Agreeable	Agreeable	Agreeable
3	Taste		Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	<1	<1	1
5	pH	mg/L	7.0	6.7	6.5-8.5
6	Total Dissolved Solids	mg/L	186	160	500
7	Total Hardness (as CaCO3)	mg/L	118	105	200
8	Calcium (as Ca)	mg/L	39	32	75
9	Magnessium (as Mg)	mg/L	5	6	30
10	Anionic detergents (as MBAS)	mg/L	<0.1	<0.1	0.2
11	Chloride (as Cl)	mg/L	22	19	250
12	Residual Free Chlorine	mg/L	<0.1	<0.1	0.2
13	Fluoride (as F)	mg/L	<0.05	<0.05	1
14	Copper (as Cu)	mg/L	<0.05	<0.05	0.05
15	Manganese (as Mn)	mg/L	<0.05	<0.05	0.1
16	Sulphate (as SO4)	mg/L	<2	<2	200
17	Nitrate (as NO3)	mg/L	1.5	1.1	45
18	Phenol Compounds (as C6H5OH)	mg/L	<0.001	<0.001	0.001
19	Mercury (as Hg)	mg/L	<0.001	<0.001	0.001
20	Cadmium (as Cd)	mg/L	<0.003	<0.003	0.003
21	Selenium (as Se)	mg/L	<0.002	<0.002	0.01
22	Arsenic (as As)	mg/L	<0.002	<0.002	0.01
23	Cyanide (as CN)	mg/L	<0.05	<0.05	0.05
24	Lead (as Pb)	mg/L	<0.01	<0.01	0.01
25	Total Chromium (Cr)	mg/L	<0.05	<0.05	0.05
26	Zinc (as Zn)	mg/L	<0.05	<0.05	5
27	Aluminium (as Al)	mg/L	<0.03	<0.03	0.03
28	Alkalinity (as CaCO3)	mg/L	92	86	200
29	Iron (as Fe)	mg/L	0.25	0.32	1.0
30	Total Coliform	MPN/100 ml	N.D.	N.D.	Shall not be detectable in any 100 ml sample
31	Fecal Coliform	MPN/100 ml	N.D.	N.D.	Shall not be detectable in any 100 ml sample
32	E.Coli	MPN/100 ml	N.D.	N.D.	Shall not be detectable in any 100 ml sample

BDL: Below Detectable Limit

For ENVIROTECH EAST (P) LTD.

ENVIROTECH EAST PVT. LTD. 100, Kalikapur, Madurdaha Kolkata 700107

(Authorized Signatory)

Envirotech East Pvt. Limited

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company

- Laboratory Accrediated by NABL, as per ISO/IEC 17025 :2017
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100, Kalikapur, Madurdaha, Kolkata – 700 107, West Bengal, India

☎ – + 91 33 2443 8127/8128 ; + 91 33 4063 5011; email: eeplkol@gmail.com; eeplkol2@gmail.com

CIN NO : U74210WB1989PTC047403

ANX-7

MONITORING REPORT

Name of Industry	**M/s. Scania Steels & Powers Ltd. (Formerly Known as Sidhi Vinayak Sponge Iron Pvt. Ltd.)**
Address :	22 KM Stone Gharghoda Road, Vill: Punjipatra, Raigarh, Pin: 496 011
Date of Sampling	22.05.2024
Location	**(A)**Borewell-2 water (at Project Site) **(B)** Borewell water (at Punjipatra)

GROUND WATER ANALYSIS REPORT

Sl. No.	Parameter	Unit	Concentration		Standard IS:10500:2012
			(a)	(b)	
1	Colour	Hazen	<5	<5	5
2	Odour		Agreeable	Agreeable	Agreeable
3	Taste		Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	<1	<1	1
5	pH	mg/L	6.6	6.9	6.5-8.5
6	Total Dissolved Solids	mg/L	174	163	500
7	Total Hardness (as CaCO3)	mg/L	110	98	200
8	Calcium (as Ca)	mg/L	34	26	75
9	Magnessium (as Mg)	mg/L	6	8	30
10	Anionic detergents (as MBAS)	mg/L	<0.1	<0.1	0.2
11	Chloride (as Cl)	mg/L	23	20	250
12	Residual Free Chlorine	mg/L	<0.1	<0.1	0.2
13	Fluoride (as F)	mg/L	<0.05	<0.05	1
14	Copper (as Cu)	mg/L	<0.05	<0.05	0.05
15	Manganese (as Mn)	mg/L	<0.05	<0.05	0.1
16	Sulphate (as SO4)	mg/L	<2	<2	200
17	Nitrate (as NO3)	mg/L	1.7	1.5	45
18	Phenol Compounds (as C6H5OH)	mg/L	<0.001	<0.001	0.001
19	Mercury (as Hg)	mg/L	<0.001	<0.001	0.001
20	Cadmium (as Cd)	mg/L	<0.003	<0.003	0.003
21	Selenium (as Se)	mg/L	<0.002	<0.002	0.01
22	Arsenic (as As)	mg/L	<0.002	<0.002	0.01
23	Cyanide (as CN)	mg/L	<0.05	<0.05	0.05
24	Lead (as Pb)	mg/L	<0.01	<0.01	0.01
25	Total Chromium (Cr)	mg/L	<0.05	<0.05	0.05
26	Zinc (as Zn)	mg/L	<0.05	<0.05	5
27	Aluminium (as Al)	mg/L	<0.03	<0.03	0.03
28	Alkalinity (as CaCO3)	mg/L	88	80	200
29	Iron (as Fe)	mg/L	0.34	0.25	1.0
30	Total Coliform	MPN/100 ml	N.D.	N.D.	Shall not be detectable in any 100 ml sample
31	Fecal Coliform	MPN/100 ml	N.D.	N.D.	Shall not be detectable in any 100 ml sample
32	E.Coli	MPN/100 ml	N.D.	N.D.	Shall not be detectable in any 100 ml sample

BDL: Below Detectable Limit

For ENVIROTECH EAST (P) LTD.

ENVIROTECH EAST PVT. LTD. 100, Kalikapur, Madurdaha Kolkata 700107

(Authorized Signatory)

Envirotech East Pvt. Limited

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CIN NO : U74210WB1989PTC047403

ANX-7

MONITORING REPORT

Name of Industry	**M/s. Scania Steels & Powers Ltd. (Formerly Known as Sidhi Vinayak Sponge Iron Pvt. Ltd.)**
Address :	22 KM Stone Gharghoda Road, Vill: Punjipatra, Raigarh, Pin: 496 011
Date of Sampling	22.06.2024
Location	**(A)**Borewell-2 water (at Project Site) **(B)** Borewell water (at Punjipatra)

GROUND WATER ANALYSIS REPORT

Sl. No.	Parameter	Unit	Concentration		Standard IS:10500:2012
			(a)	(b)	
1	Colour	Hazen	<5	<5	5
2	Odour		Agreeable	Agreeable	Agreeable
3	Taste		Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	<1	<1	1
5	pH	mg/L	7.3	6.9	6.5-8.5
6	Total Dissolved Solids	mg/L	168	180	500
7	Total Hardness (as CaCO3)	mg/L	92	108	200
8	Calcium (as Ca)	mg/L	30	35	75
9	Magnessium (as Mg)	mg/L	4	5	30
10	Anionic detergents (as MBAS)	mg/L	<0.1	<0.1	0.2
11	Chloride (as Cl)	mg/L	20	27	250
12	Residual Free Chlorine	mg/L	<0.1	<0.1	0.2
13	Fluoride (as F)	mg/L	<0.05	<0.05	1
14	Copper (as Cu)	mg/L	<0.05	<0.05	0.05
15	Manganese (as Mn)	mg/L	<0.05	<0.05	0.1
16	Sulphate (as SO4)	mg/L	10	13	200
17	Nitrate (as NO3)	mg/L	1.6	2.3	45
18	Phenol Compounds (as C6H5OH)	mg/L	<0.001	<0.001	0.001
19	Mercury (as Hg)	mg/L	<0.001	<0.001	0.001
20	Cadmium (as Cd)	mg/L	<0.003	<0.003	0.003
21	Selenium (as Se)	mg/L	<0.002	<0.002	0.01
22	Arsenic (as As)	mg/L	<0.002	<0.002	0.01
23	Cyanide (as CN)	mg/L	<0.05	<0.05	0.05
24	Lead (as Pb)	mg/L	<0.01	<0.01	0.01
25	Total Chromium (Cr)	mg/L	<0.05	<0.05	0.05
26	Zinc (as Zn)	mg/L	<0.05	<0.05	5
27	Aluminium (as Al)	mg/L	<0.03	<0.03	0.03
28	Alkalinity (as CaCO3)	mg/L	102	115	200
29	Iron (as Fe)	mg/L	0.23	0.27	1.0
30	Total Coliform	MPN/100 ml	N.D.	N.D.	Shall not be detectable in any 100 ml sample
31	Fecal Coliform	MPN/100 ml	N.D.	N.D.	Shall not be detectable in any 100 ml sample
32	E.Coli	MPN/100 ml	N.D.	N.D.	Shall not be detectable in any 100 ml sample

BDL: Below Detectable Limit

For ENVIROTECH EAST (P) LTD.

ENVIROTECH EAST PVT. LTD. 100, Kalikapur, Madurdaha Kolkata 700107

(Authorized Signatory)

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CIN NO : U74210WB1989PTC047403

ANX-7

MONITORING REPORT

Name of Industry	**M/s. Scania Steels & Powers Ltd. (Formerly Known as Sidhi Vinayak Sponge Iron Pvt. Ltd.)**
Address :	22 KM Stone Gharghoda Road, Vill: Punjipatra, Raigarh, Pin: 496 011
Date of Sampling	18.07.2024
Location	**(A)**Borewell-2 water (at Project Site) **(B)** Borewell water (at Punjipatra)

GROUND WATER ANALYSIS REPORT

Sl. No.	Parameter	Unit	Concentration		Standard IS:10500:2012
			(a)	(b)	
1	Colour	Hazen	<5	<5	**5**
2	Odour		Agreeable	Agreeable	Agreeable
3	Taste		Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	<1	<1	1
5	pH	mg/L	7.1	6.8	6.5-8.5
6	Total Dissolved Solids	mg/L	170	165	500
7	Total Hardness (as CaCO3)	mg/L	102	85	200
8	Calcium (as Ca)	mg/L	34	24	75
9	Magnessium (as Mg)	mg/L	4	6	30
10	Anionic detergents (as MBAS)	mg/L	<0.1	<0.1	0.2
11	Chloride (as Cl)	mg/L	18	15	250
12	Residual Free Chlorine	mg/L	<0.1	<0.1	0.2
13	Fluoride (as F)	mg/L	<0.05	<0.05	1
14	Copper (as Cu)	mg/L	<0.05	<0.05	0.05
15	Manganese (as Mn)	mg/L	<0.05	<0.05	0.1
16	Sulphate (as SO4)	mg/L	8	11	200
17	Nitrate (as NO3)	mg/L	1.5	1.8	45
18	Phenol Compounds (as C6H5OH)	mg/L	<0.001	<0.001	0.001
19	Mercury (as Hg)	mg/L	<0.001	<0.001	0.001
20	Cadmium (as Cd)	mg/L	<0.003	<0.003	0.003
21	Selenium (as Se)	mg/L	<0.002	<0.002	0.01
22	Arsenic (as As)	mg/L	<0.002	<0.002	0.01
23	Cyanide (as CN)	mg/L	<0.05	<0.05	0.05
24	Lead (as Pb)	mg/L	<0.01	<0.01	0.01
25	Total Chromium (Cr)	mg/L	<0.05	<0.05	0.05
26	Zinc (as Zn)	mg/L	<0.05	<0.05	5
27	Aluminium (as Al)	mg/L	<0.03	<0.03	0.03
28	Alkalinity (as CaCO3)	mg/L	102	85	200
29	Iron (as Fe)	mg/L	0.27	0.23	1.0
30	Total Coliform	MPN/100 ml	N.D.	N.D.	**Shall not be detectable in any 100 ml sample**
31	Fecal Coliform	MPN/100 ml	N.D.	N.D.	**Shall not be detectable in any 100 ml sample**
32	E.Coli	MPN/100 ml	N.D.	N.D.	**Shall not be detectable in any 100 ml sample**

BDL: Below Detectable Limit

For ENVIROTECH EAST (P) LTD.

ENVIROTECH EAST PVT. LTD. Kolkata 700107

(Authorized Signatory)

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Envirotech East Pvt. Limited

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company

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- Accredited EIA Consultant by QCI-NABET

100, Kalikapur, Madurdaha, Kolkata – 700 107, West Bengal, India

☎ – + 91 33 2443 8127/8128 ; + 91 33 4063 5011; email: eeplkol@gmail.com; eeplkol2@gmail.com

CIN NO : U74210WB1989PTC047403

ANX-7

MONITORING REPORT

Name of Industry	**M/s. Scania Steels & Powers Ltd. (Formerly Known as Sidhi Vinayak Sponge Iron Pvt. Ltd.)**
Address :	22 KM Stone Gharghoda Road, Vill: Punjipatra, Raigarh, Pin: 496 011
Date of Sampling	23.08.2024
Location	**(A)**Borewell-2 water (at Project Site) **(B)** Borewell water (at Punjipatra)

GROUND WATER ANALYSIS REPORT

Sl. No.	Parameter	Unit	Concentration		Standard IS:10500:2012
			(a)	(b)	
1	Colour	Hazen	<5	<5	**5**
2	Odour		Agreeable	Agreeable	Agreeable
3	Taste		Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	<1	<1	1
5	pH	mg/L	6.9	7.1	6.5-8.5
6	Total Dissolved Solids	mg/L	101	106	500
7	Total Hardness (as CaCO3)	mg/L	80	86	200
8	Calcium (as Ca)	mg/L	27	26	75
9	Magnessium (as Mg)	mg/L	3	5	30
10	Anionic detergents (as MBAS)	mg/L	<0.1	<0.1	0.2
11	Chloride (as Cl)	mg/L	16	21	250
12	Residual Free Chlorine	mg/L	<0.1	<0.1	0.2
13	Fluoride (as F)	mg/L	<0.05	<0.05	1
14	Copper (as Cu)	mg/L	<0.05	<0.05	0.05
15	Manganese (as Mn)	mg/L	<0.05	<0.05	0.1
16	Sulphate (as SO4)	mg/L	<2	<2	200
17	Nitrate (as NO3)	mg/L	1.8	2.1	45
18	Phenol Compounds (as C6H5OH)	mg/L	<0.001	<0.001	0.001
19	Mercury (as Hg)	mg/L	<0.001	<0.001	0.001
20	Cadmium (as Cd)	mg/L	<0.003	<0.003	0.003
21	Selenium (as Se)	mg/L	<0.002	<0.002	0.01
22	Arsenic (as As)	mg/L	<0.002	<0.002	0.01
23	Cyanide (as CN)	mg/L	<0.05	<0.05	0.05
24	Lead (as Pb)	mg/L	<0.01	<0.01	0.01
25	Total Chromium (Cr)	mg/L	<0.05	<0.05	0.05
26	Zinc (as Zn)	mg/L	<0.05	<0.05	5
27	Aluminium (as Al)	mg/L	<0.03	<0.03	0.03
28	Alkalinity (as CaCO3)	mg/L	56	52	200
29	Iron (as Fe)	mg/L	0.18	0.14	1.0
30	Total Coliform	MPN/100 ml	N.D.	N.D.	**Shall not be detectable in any 100 ml sample**
31	Fecal Coliform	MPN/100 ml	N.D.	N.D.	**Shall not be detectable in any 100 ml sample**
32	E.Coli	MPN/100 ml	N.D.	N.D.	**Shall not be detectable in any 100 ml sample**

BDL: Below Detectable Limit

For ENVIROTECH EAST (P) LTD.

ENVIROTECH EAST PVT. LTD. 100, Kalikapur, Madurdaha Kolkata 700107

(Authorized Signatory)

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Envirotech East Pvt. Limited

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company

- Laboratory Accrediated by NABL, as per ISO/IEC 17025 :2017
- Laboratory Recognized by WBPCB
- Accredited EIA Consultant by QCI-NABET

100, Kalikapur, Madurdaha, Kolkata – 700 107, West Bengal, India

☎ – + 91 33 2443 8127/8128 ; + 91 33 4063 5011; email: eeplkol@gmail.com; eeplkol2@gmail.com

CIN NO : U74210WB1989PTC047403

ANX-7

MONITORING REPORT

Name of Industry	**M/s. Scania Steels & Powers Ltd. (Formerly Known as Sidhi Vinayak Sponge Iron Pvt. Ltd.)**
Address :	22 KM Stone Gharghoda Road, Vill: Punjipatra, Raigarh, Pin: 496 011
Date of Sampling	20.09.2024
Location	**(A)**Borewell-2 water (at Project Site) **(B)** Borewell water (at Punjipatra)

GROUND WATER ANALYSIS REPORT

Sl. No.	Parameter	Unit	Concentration		Standard IS:10500:2012
			(a)	(b)	
1	Colour	Hazen	<5	<5	**5**
2	Odour		Agreeable	Agreeable	Agreeable
3	Taste		Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	<1	<1	1
5	pH	mg/L	7.4	7.2	6.5-8.5
6	Total Dissolved Solids	mg/L	146	138	500
7	Total Hardness (as CaCO3)	mg/L	91	84	200
8	Calcium (as Ca)	mg/L	28	22	75
9	Magnessium (as Mg)	mg/L	5	7	30
10	Anionic detergents (as MBAS)	mg/L	<0.1	<0.1	0.2
11	Chloride (as Cl)	mg/L	23	18	250
12	Residual Free Chlorine	mg/L	<0.1	<0.1	0.2
13	Fluoride (as F)	mg/L	<0.05	<0.05	1
14	Copper (as Cu)	mg/L	<0.05	<0.05	0.05
15	Manganese (as Mn)	mg/L	<0.05	<0.05	0.1
16	Sulphate (as SO4)	mg/L	<2	<2	200
17	Nitrate (as NO3)	mg/L	1.5	1.7	45
18	Phenol Compounds (as C6H5OH)	mg/L	<0.001	<0.001	0.001
19	Mercury (as Hg)	mg/L	<0.001	<0.001	0.001
20	Cadmium (as Cd)	mg/L	<0.003	<0.003	0.003
21	Selenium (as Se)	mg/L	<0.002	<0.002	0.01
22	Arsenic (as As)	mg/L	<0.002	<0.002	0.01
23	Cyanide (as CN)	mg/L	<0.05	<0.05	0.05
24	Lead (as Pb)	mg/L	<0.01	<0.01	0.01
25	Total Chromium (Cr)	mg/L	<0.05	<0.05	0.05
26	Zinc (as Zn)	mg/L	<0.05	<0.05	5
27	Aluminium (as Al)	mg/L	<0.03	<0.03	0.03
28	Alkalinity (as CaCO3)	mg/L	64	58	200
29	Iron (as Fe)	mg/L	0.17	0.2	1.0
30	Total Coliform	MPN/100 ml	N.D.	N.D.	**Shall not be detectable in any 100 ml sample**
31	Fecal Coliform	MPN/100 ml	N.D.	N.D.	**Shall not be detectable in any 100 ml sample**
32	E.Coli	MPN/100 ml	N.D.	N.D.	**Shall not be detectable in any 100 ml sample**

BDL: Below Detectable Limit

For ENVIROTECH EAST (P) LTD.

ENVIROTECH EAST PVT. LTD. 100, Kalikapur, Madurdaha Kolkata 700107

(Authorized Signatory)

+

Envirotech East Pvt. Limited

An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company

- **Laboratory Accrediated by NABL, as per ISO/IEC 17025 :2017**
- **Laboratory Recognized by WBPCB**
- **Accredited EIA Consultant by QCI-NABET**

100, Kalikapur, Madurdaha, Kolkata – 700 107, West Bengal, India

☎ – + 91 33 2443 8127/8128 ; + 91 33 4063 5011; email: eeplkol@gmail.com; eeplkol2@gmail.com

CIN NO : U74210WB1989PTC047403

ANX-7

ANNEXURE-7

Noise Level Monitoring Report
(April - 2024 to September - 2024)

Envirotech East Pvt. Limited
An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company
- Laboratory Accrediated by NABL, as per ISO/IEC 17025 :2017
- Laboratory Recognized by WBPCB
- Accredited EIA Consultant by QCI-NABET

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☎ – + 91 33 2443 8127/8128 ; + 91 33 4063 5011; email: eeplkol@gmail.com; eeplkol2@gmail.com
CIN NO : U74210WB1989PTC047403

ANX-8

NOISE LEVEL MONITORING REPORT

Name of Industry	**M/s. Scania Steels & Powers Ltd.** **(Formerly Known as Sidhi Vinayak Sponge Iron Pvt. Ltd.)**
Address :	22 KM Stone Gharghoda Road, Vill: Punjipatra, Raigarh, Pin: 496 011
Date of Monitoring	24.04.2024

MONITORING REPORT

Sl. No.	Location	Noise Level in L_{eq} dB (A)
1.	In between DRI plant 1&2 and 3&4	**66.7 - 74.1**
2.	Near ADM Building	**57.7 - 69.5**
3.	Near Main Gate	**60.9 - 72.2**
4.	Near DRI Control Room	**66.2 - 76.0**
5.	Samaruma Village	**58.4 - 65.2**
6.	Panjipatra Village	**54.6 - 68.8**
7.	Parkipahari Village	**52.8 - 63.7**
8.	Near Raw Material Area	**67.3 - 75.8**
STANDARD		**75 dB (A)**

For ENVIROTECH EAST (P) LTD.

ENVIROTECH EAST PVT. LTD. Kolkata 700107

(Authorized Signatory)

Envirotech East Pvt. Limited
An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company
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- Laboratory Recognized by WBPCB
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☎ – + 91 33 2443 8127/8128 ; + 91 33 4063 5011; email: eeplkol@gmail.com; eeplkol2@gmail.com
CIN NO : U74210WB1989PTC047403

ANX-8

NOISE LEVEL MONITORING REPORT

Name of Industry	**M/s. Scania Steels & Powers Ltd.** **(Formerly Known as Sidhi Vinayak Sponge Iron Pvt. Ltd.)**
Address :	22 KM Stone Gharghoda Road, Vill: Punjipatra, Raigarh, Pin: 496 011
Date of Monitoring	24.05.2024

MONITORING REPORT

Sl. No.	Location	Noise Level in L_{eq} dB (A)
1.	In between DRI plant 1&2 and 3&4	**65.1 - 72.2**
2.	Near ADM Building	**55.8 - 66.1**
3.	Near Main Gate	**57.3 - 69.5**
4.	Near DRI Control Room	**63.4 - 76.5**
5.	Samaruma Village	**58.4 - 65.2**
6.	Panjipatra Village	**55.3 - 66.5**
7.	Parkipahari Village	**52.8 - 63.7**
8.	Near Raw Material Area	**67.3 - 75.8**
STANDARD		**75 dB (A)**

For ENVIROTECH EAST (P) LTD.

ENVIROTECH EAST PVT. LTD. Kalikapur, Madurdaha Kolkata 700107

(Authorized Signatory)

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An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company
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CIN NO : U74210WB1989PTC047403

ANX-8

NOISE LEVEL MONITORING REPORT

Name of Industry	**M/s. Scania Steels & Powers Ltd.** **(Formerly Known as Sidhi Vinayak Sponge Iron Pvt. Ltd.)**
Address :	22 KM Stone Gharghoda Road, Vill: Punjipatra, Raigarh, Pin: 496 011
Date of Monitoring	23.07.2024

MONITORING REPORT

Sl. No.	Location	Noise Level in L_{eq} dB (A)
1.	In between DRI plant 1&2 and 3&4	**66.5 - 76.2**
2.	Near ADM Building	**62.0 - 68.3**
3.	Near Main Gate	**58.8 - 67.5**
4.	Near DRI Control Room	**65.2 - 72.4**
5.	Samaruma Village	**57.2 - 63.3**
6.	Panjipatra Village	**55.4 - 62.8**
7.	Parkipahari Village	**56.2 - 58.3**
8.	Near Raw Material Area	**60.2 - 70.0**
STANDARD		**75 dB (A)**

For ENVIROTECH EAST (P) LTD.

(Authorized Signatory)

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An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company
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CIN NO : U74210WB1989PTC047403

ANX-8

NOISE LEVEL MONITORING REPORT

Name of Industry	**M/s. Scania Steels & Powers Ltd.** **(Formerly Known as Sidhi Vinayak Sponge Iron Pvt. Ltd.)**
Address :	22 KM Stone Gharghoda Road, Vill: Punjipatra, Raigarh, Pin: 496 011
Date of Monitoring	21.08.2024

MONITORING REPORT

Sl. No.	Location	Noise Level in L_{eq} dB (A)
1.	In between DRI plant 1&2 and 3&4	**64.6 - 73.9**
2.	Near ADM Building	**60.0 - 66.5**
3.	Near Main Gate	**56.8 - 68.5**
4.	Near DRI Control Room	**67.7 - 75.6**
5.	Samaruma Village	**54.6 - 60.0**
6.	Panjipatra Village	**53.1 - 68.4**
7.	Parkipahari Village	**50.7 - 59.1**
8.	Near Raw Material Area	**65.8 - 75.6**
STANDARD		**75 dB (A)**

For ENVIROTECH EAST (P) LTD.

ENVIROTECH EAST PVT. LTD. Kalikapur, Madurdaha Kolkata 700107

(Authorized Signatory)

Envirotech East Pvt. Limited
An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Company
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CIN NO : U74210WB1989PTC047403

ANX-8

NOISE LEVEL MONITORING REPORT

Name of Industry	**M/s. Scania Steels & Powers Ltd.** **(Formerly Known as Sidhi Vinayak Sponge Iron Pvt. Ltd.)**
Address :	22 KM Stone Gharghoda Road, Vill: Punjipatra, Raigarh, Pin: 496 011
Date of Monitoring	20.09.2024

MONITORING REPORT

Sl. No.	Location	Noise Level in L_{eq} dB (A)
1.	In between DRI plant 1&2 and 3&4	**67.6 - 78.6**
2.	Near ADM Building	**61.2 - 67.5**
3.	Near Main Gate	**62.5 - 70.5**
4.	Near DRI Control Room	**65.7 - 77.7**
5.	Samaruma Village	**54.7 - 62.0**
6.	Panjipatra Village	**58.5 - 69.6**
7.	Parkipahari Village	**53.4 - 65.2**
8.	Near Raw Material Area	**68.5 - 71.5**
STANDARD		**75 dB (A)**

For ENVIROTECH EAST (P) LTD.

ENVIROTECH EAST PVT. LTD. Kalikapur, Madurdaha Kolkata 700107

(Authorized Signatory)

ANNEXURE-8

ADVERTISEMENT ON LOCAL NEWSPAPERS FOR EC

ADVERTISEMENT ON LOCAL NEWSPAPERS FOR EC

आम सूचना

सर्व साधारण को सूचित किया जाता है कि भारत सरकार पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय नई दिल्ली के द्वारा पत्र क्रमांक **J110011/1267/2007-IA.II(I)** दिनांक 07 अगस्त 2018 के द्वारा हमारे प्लांट मेसर्स स्केनिया स्टील एंड पावर लिमिटेड, रायगढ़ इंटिग्रेटेड स्टील प्लांट केप्टीव पॉवर प्लांट (स्पंज ऑयरन प्लांट 200 टी.पी.डी. स्टील मेल्टींग शॉप-135000 टी.पी.ए. एवं वेस्ट हीट रिकव्हरी बॉयलर -8 मेगावॉट) को क्षमता विस्तार के तहत पर्यावरणीय स्वीकृति जारी की गई है, जो कि पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय के वेबसाईट में **http://envfor.nic.in** भी उपलब्ध है एवं छत्तीसगढ़ पर्यावरण संरक्षण मंडल में उपलब्ध है।

मे.स्केनिया स्टील एंड पावर लिमिटेड

22 कि.मी.स्टोन

घरघोड़ा रोड, पूंजीपथरा

जिला-रायगढ़ (छ.ग.)496011

स्थान में जगह बनाने अपनी

आम सूचना

सर्व साधारण को सूचित किया जाता है कि भारत सरकार पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय नई दिल्ली के द्वारा पत्र क्रमांक J-11011/1267/2007-IA.II(I) दिनांक 07 अगस्त 2018 के द्वारा हमारे प्लांट मेसर्स स्केनिया स्टील एंड पॉवर लिमिटेड, रायगढ़ इंटिग्रेटेड स्टील प्लांट केप्टीव पॉवर प्लांट (स्पंज ऑयरन प्लांट 200 टी.पी.डी. स्टील मेल्टींग शॉप-135000 टी.पी.ए. एवं वेस्ट हीट रिकव्हरी बॉयलर -8 मेगावॉट) को क्षमता विस्तार के तहत् पर्यावरणीय स्वीकृति जारी की गई है, जो कि पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय के वेबसाईट http://envfor.nic.in में भी उपलब्ध है एवं छत्तीसगढ़ पर्यावरण संरक्षण मंडल में उपलब्ध है।

मे. स्केनिया स्टील एंड पावर लिमिटेड

22 कि.मी. स्टोन

घरघोड़ा रोड, पूंजीपथरा

जिला-रायगढ़ (छ.ग.) 496011

CHHATTISGARH ENVIRONMENT CONSERVATION BOARD

PARYAVAS BHAWAN, NORTH BLOCK, SECTOR- 19,
NAVA RAIPUR ATAL NAGAR, RAIPUR (C.G.) 492002
E-mail : hocecb@gmail.com, Ph. No. 0771-2512220

No. 7980/HSMD/HO/CECB/2024 Nava Raipur Atal Nagar, Date 08/01/2024

To,

M/s Scania Steels & Powers Limited,
(Formerly Known as - Sidhi Vinayak Sponge Iron Private Limited),
22 KM Milestone, Gharghoda Road, Village-Punjipatra,
District- Raigarh (C.G.)

Sub:- Grant of amendment and subsequent renewal of authorization under the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.

Ref:- Your online application no. 13320270 dated 30/07/2023 & subsequent correspondence ending dated 19/12/2023.

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Chhattisgarh Environment Conservation Board had granted of authorization under Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 vide letter no. 4398/HSMD/HO/CECB/2018 dated 23/08/2018 for following hazardous waste, category and quantity subject to fulfillment of the terms and conditions mentioned therein. :-

S. No.	Name of Hazardous Waste	Category	Quantity/Year
1.	Used or Spent oil	(Schedule - I, Cat. No. 5.1)	5.0 KL/Annum

Industry, vide their online application no. 13320270 dated 30/07/2023 has requested for an amendment and subsequent renewal with respect to hazardous waste and their corresponding quantities mentioned therein. Based on the inspection report from R.O. Raigarh and after considering the application, facts and materials in records the board has decided to issue amendment and subsequent renewal of authorization with respect to hazardous wastes and their corresponding quantities mentioned below:-

S. No.	Name & Category of Hazardous Waste as per Schedules	Authorized mode of disposal or recycling or utilization or co- processing etc.	Quantity/Year
1.	Used or Spent oil (Schedule - I, Cat. No. 5.1)	Reuse/Sale to authorized recycler	5.0 KL/Annum
4.	Empty barrels/containers/liners contaminated with hazardous chemicals /wastes (Schedule-I, Cat.No.- 33.1)	Sale to authorized recycler	42 MT/Annum
5.	Metal and metal-alloy wastes in metallic, non-dispersible form (Schedule-III, Part-D, Basel No. B1 B1010)	Utilization as Raw material/Sale to authorized recyclers	3000 MT/Annum

The amendment and renewal of authorization shall be valid for the period of **Five Years i.e. from 23/08/2023 to 22/08/2028.** The details of authorization along with terms & conditions are given as per below:

FORM 2
[See rule 6 (2)]

GRANT OF AMENDMENT AND SUBSEQUENT RENEWAL OF AUTHORIZATION BY STATE POLLUTION CONTROL BOARD TO THE OCCUPIERS, RECYCLERS, REPROCESSORS, REUSERS, USER AND OPERATORS OF DISPOSAL FACILITIES

1. Number of authorization **583/HO/HSMD/CECB/NAVA RAIPUR ATAL NAGAR, RAIPUR**

2. Reference of Online application no. **13320270 dated 30/07/2023 & subsequent correspondence ending dated 19/12/2023.**

3. The operator of facility i.e. occupier **M/s Scania Steels & Powers Limited, (Formerly Known as - Sidhi Vinayak Sponge Iron Private Limited), 22 KM Milestone, Gharghoda Road, Village-Punjipatra, District- Raigarh (C.G.)** is hereby granted an amendment and subsequent renewal of authorization based on the signed inspection report from RO for generation, storage, transportation, and incineration of hazardous wastes in the premises situated at **22 KM Milestone, Gharghoda Road, Village-Punjipatra, District- Raigarh (C.G.).**

Detail of Authorization

S. No.	Name & Category of Hazardous Waste as per Schedules	Authorized mode of disposal or recycling or utilization or co- processing etc.	Quantity/Year
1.	Used or Spent oil (Schedule - I, Cat. No. 5.1)	Reuse/Sale to authorized recycler	5.0 KL/Annum
4.	Empty barrels/containers/liners contaminated with hazardous chemicals /wastes (Schedule-I, Cat.No.- 33.1)	Sale to authorized recycler	42 MT/Annum
5.	Metal and metal-alloy wastes in metallic, non-dispersible form (Schedule-III, Part-D, Basel No. B1 B1010)	Utilization as Raw material/Sale to authorized recyclers	3000 MT/Annum

(1) The **amendment and renewal of authorization shall be valid for the period of Five Years i.e. from 23/08/2023 to 22/08/2028.**

(2) The authorization is subject to the following conditions:

TERMS & CONDITIONS OF AUTHORIZATION

1. The authorization shall comply with the provisions of Environment (protection) Act, 1986 and the rules made there-under.
2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the Chhattisgarh Environment Conservation Board.
3. The person authorized shall not rent, lend, sell transfer or otherwise transport the hazardous wastes without obtaining prior permission of the Chhattisgarh Environment Conservation Board.
4. **Industry shall have to register in EPR portal of CPCB, Delhi as per Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 as amended if it comes under the categories of used oil producer, importer, recyclers/utilizers and collection agent.**
5. Any unauthorized change in personnel, equipment, or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
6. The person authorized shall implement Emergency Response Procedure (ERP) which this authorization is being granted considering all site specific possible scenarios such as

spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time.

7. The person authorized shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty".
8. It is the duty of the authorized person to take prior permission of the Chhattisgarh Environment Conservation Board to close down the facility.
9. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
10. Industry shall prepare emergency response plan (ERP) and ensure implementation of the same at the time of any accident occurs during handling and transportation of hazardous waste as per CPCB guidelines.
11. The hazardous and other waste, generated during recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other wastes shall be treated and disposed off as per standard operating procedures/guidelines issued by CPCB from time to time.
12. An application for the renewal of an authorization shall be made three months before the expiry of authorization as laid down in the Rules.
13. Annual return in form IV shall be filed by June 30th for the period ending 31st March of the last financial year.
14. The wastes shall be collected and stored properly with adequate safety measures as per rule.
15. Authorized person shall comply with the provisions of rule 17, 18 and 19 for packing, labeling and transport of Hazardous Waste.
16. The authorized person should maintain the record of Hazardous Waste as per Form-3 of Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.
17. The occupier shall follow the guidelines (if any) issued by Central Pollution Control Board or MoEF & CC for management of Hazardous waste from time to time.
18. The industry shall display data outside factory gate, about on quantity and nature of hazardous chemicals and wastes being used in the plant, water quality and air emissions and solid wastes generated within the factory premises. The display board shall be made and placed as per CPCB guidelines.
19. At a time only one type/ Category of Hazardous waste shall be co-processed in the cement kiln. A log book of the waste co-process shall be maintained including emission monitoring result during co-processing.
20. Industry shall ensure that the transportation of hazardous wastes should be carried out through GPS enable dedicated vehicles of authorized transporters only.
21. Industry shall create new website for Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 and upload all the information above the waste in the website.
22. Before the wastes given for thermal/biological/physico-chemical treatment; should be completely dewatered, detoxified, and proper conditioned and any possible recovery is made before their disposal.
23. The industry should constitute a hazardous waste management cell to take care of the management aspect to the hazardous waste generated in the plant.
24. An on-site storage of the hazardous wastes for a maximum period of 90 days should be provided and it shall be ensured that there is no leakage or seepage from the surrounding walls or bottom. The site should be covered and properly protected to prevent the entry of rain water in storage area.
25. At least four nos. of piezometric points should be provided around the storage site of H.W. to monitor the leaching of the waste and the monitoring report of the same shall be submitted to

the board every six monthly. Each type of waste shall be stored in a separate storage cell.

26. The discarded containers of Hazardous waste and chemical shall not be used for storage of food grade products. At the storage site "Hazardous waste storage site & danger signboard" shall be provided with all safety devices.

27. In the case of any accident due to handling of hazardous waste the authorized person must inform immediately to the Concerned Regional Office and H.O., Atal Nagar, Raipur of the Board by fax/telephone or by E-mail about the incident and details report be sent in form no. 11 [see rule 22].

28. The authorization obtained by the Chhattisgarh Environment Conservation Board should be prominently displayed.

29. Used batteries shall be disposed of as per the Batteries (Management & Handling) Rules, 2001.

30. Board reserves the right to cancel/amend the above condition and add new conditions as and when deemed necessary.

Member Secretary
C.G. Environment Conservation Board
Nava Raipur Atal Nagar, Raipur (C.G.)

Endt. No. 7981/H.O./HSMD/CECB/2024 Nava Raipur Atal Nagar, Date 08/01/2024

Copy to:- Regional Officer, Regional office, Chhattisgarh Environment Conservation Board, Raigarh (C.G.) please ensure compliance and report, if any condition/conditions are violated by the industry.

Sd/-
Member Secretary
C.G. Environment Conservation Board
Nava Raipur Atal Nagar, Raipur (C.G.)

Signature Not Verified

Digitally Signed by :P. Arun Prasad MS

Date: 2024.01.10 18:33:51 IST

Print Close

PUBLIC LIABILITY INSURANCE POLICY (UNDER PUBLIC LIABILITY ACT 1991) [UIN:IRDAN123CP0072V01201819]

THIS IS CLAIMS MADE BASIS POLICY - READ IT CAREFULLY

CHOLAMANDALAM MS GENERAL INSURANCE COMPANY LTD. **ADDRESS:** RAIPUR BRANCH OFFICE WARD NO - 25 (GRU GOVIND SINGH WARD), 2ND FLOOR, SIMRAN TOWERS, PANDRI ROAD, OPP - LIC BUIDING, RAIPUR - 492 001 RAIPUR H.O **CITY:** RAIPUR **STATE:** CHATTISGARH **GSTIN:** 22AABCC6633K1ZT	**GST Invoice No.:**3120512081089 **DATE:** 06/05/2024 **PAN:** AABCC6633K **SAC Code:** 997139 **SAC Description:** Other non-life insurance services (excluding reinsurance services)
Policy Issuing Office : RAIPUR BRANCH OFFICE	**Broker / Agent** : 2005254796100001
Policy Number : 3120/00000463/000/01	**Customer Code** : 1013222681580001

Name of Insured	SCANIA STEELS AND POWERS LIMITED
Address of Insured	22 Km Stone,Gharghoda Road, Punjipatra Raigarh H.O, Raigarh Chattisgarh PIN-496001 GST No.: 22AAHCS4471R1ZT
Policy Period	From 12/05/2024 00:00 Hours to Midnight Hours 23:59 on 11/05/2025
Premium Receipt	1068267984, Date : 02/05/2024
Business/ Profession	Sponge iron manufacturing unit
Policy Basis	CLAIMS MADE BASIS
Limit of Indeminity	**AOY INR** 15,00,00,000.00
	AOA INR 5,00,00,000.00
Risk Location	1. 22 Km Milestone Ghargoda Road, , Po Area - Raigarh, , Raigarh, Chattisgarh 496001
Turnover	INR 2,83,60,78,487.00
Specific Terms and Conditions	-
Specific Exclusions	1. Specific matter pandemic /communicable disease related claims absolutely
Deductible	NIL
Jurisdiction	India
Territory	India
Retroactive Date	12-05-2023
Premium(Rs.)	INR 28,440.00
CGST (9%)	INR 2,559.50
SGST (9%)	INR 2,559.50
Kerala Cess (1%)(in Rs.)	INR 0.00
IGST (0%)	INR 0.00
Environment Relief Fund	INR 28,440.00
Amount Payable	INR 61,999.00

IN WITNESS WHEREOF,the Insurer has caused this Policy to be executed and attested

We hereby declare that though our aggregate turnover in any preceding financial year from 2017-18 onwards is more than the aggregate turnover notified under sub-rule (4) of rule 48, we are not required to prepare an invoice in terms of the provisions of the said sub-rule and also as per Notification No. 13/2020-CT dated 21-03-2020. This policy schedule shall be in lieu of Tax Invoice and hence no separate GST invoice required In compliance with Rule 54(2) of CGST Rules, 2017.

Consolidated Stamp Duty Paid Vide G.O. Rt No.114,Commercial Taxes and Registration (j1) Department, Tamil Nadu dated 08/03/2024.

Intermediary Name: IRM INSURANCE BROKERS PRIVATE LIMITED		**POSP Name:**
Code: 200525479610	**Contact No: 9826175646**	

Note: The Certificate of Insurance / Policy Schedule is an important document issued based on your declaration. We request you to verify the details and ensure that everything is in order. In case of any discrepancies, please contact us within 15 days from the date of issuance of policy.

Place : Chennai **Date** : 06-05-2024	For Cholamandalam MS General Insurance Company Ltd. Authorised Signatory

Regd.&Head Office:Dare House, 2nd Floor, No.2, N.S.C Bose Road, Chennai-600 001, India
CIN: U66030TN2001PLC047977 | IRDAI Reg. No. 123

Attaching to an forming part of Policy No.3120/00000463/000/01

All other terms, conditions and exclusions of the within mentioned policy stand unaltered.

Whether tax is payable under reverse charge basis - No..

10.111.5.52

1. Mechanism for Grievance Redressal:

As an esteemed customer of our Company, You can contact us to register complaint/ grievance, if any, including servicing of Policy, claims etc. with regard to the insurance Policy issued to You. The contact details of our office are given below for Your reference.

If any Grievances / issues on claims pertaining to Senior Citizens, Insured can register the complaint / grievance which shall be processed on Fast Track Basis by dedicated personnel.

9.1 Contact Information

SMS: "CHOLA" TO 56677 *(Premium SMS charges apply)

Email– customercare@cholams.murugappa.com

Web site: www.cholainsurance.com

9.2 For Complaints

If You have not received any reply from us within 3 days from the date of the lodgement of complaint or if You are not satisfied with the reply of the Company, you can contact the IRDA Grievance Call Centre at the toll free no. 155255 or email at complaints@irda.gov.in for registering the grievance or the nearest Insurance Ombudsman, whose addresses are mentioned below:

Nearest Insurance Ombudsman Offices

Sl. No.	Office of the Ombudsman	Name of the Ombudsman and Contact Details	JURISDICTION
1	**AHMEDABAD**	Office of the Insurance Ombudsman, 2nd floor, Ambica House, Near C.U. Shah College, 5, Navyug Colony, Ashram Road, Ahmedabad – 380 014 Tel.:– 079–27546150/139, Fax:– 079–27546142 Email:– bimalokpal.ahmedabad@gbic.co.in	State of Gujarat and Union Territories of Dadra & Nagar Haveli and Daman and Diu.
2	**BENGALURU**	Office of the Insurance Ombudsman, Jeevan Soudha Building, PID No.57–27–N–19, Ground Floor, 19/19, 24th Main Road, JP Nagar, 1st Phase, Bengaluru–560 078. Tel.:– 080–26652048 / 26652049 Email:– bimalokpal.bengaluru@gbic.co.in	Karnataka.
3	**BHOPAL**	Office of the Insurance Ombudsman, Janak Vihar Complex, 2nd Floor, 6, Malviya Nagar, Opp.Airtel Office, Near	States of Madhya Pradesh and Chattisgarh.

		New Market, Bhopal – 462 033. Tel.:– 0755–2769200/201/202, Fax:– 0755–2769203 Email:– bimalokpalbhopal@gbic.co.in	
4	**BHUBANESHWAR**	Office of the Insurance Ombudsman, 62, Forest park, Bhubneshwar – 751 009.Tel.:– 0674–2596461 / 2596455, Fax:– 0674–2596429 –Email:– bimalokpal.bhubaneswar@gbic.co.in	State of Orissa.
5	**CHANDIGARH**	Office of the Insurance Ombudsman, S.C.O. No. 101, 102 & 103, 2nd Floor, Batra Building, Sector 17 – D, Chandigarh – 160 017.Tel.:– 0172–2706196/5861 / 2706468, Fax:– 0172–2708274, Email:– bimalokpal.chandigarh@gbic.co.in	States of Punjab, Haryana, Himachal Pradesh, Jammu & Kashmir and Union territory of Chandigarh.
6	**CHENNAI**	Office of the Insurance Ombudsman, Fatima Akhtar Court, 4th Floor, 453 (old 312), Anna Salai, Teynampet, CHENNAI – 600 018. Tel.:– 044-24333668 / 24335284, Fax:– 044–24333664, Email:– bimalokpal.chennai@gbic.co.in	State of Tamil Nadu and Union Territories – Pondicherry Town and Karaikal (which are part of Union Territory of Pondicherry).
7	**DELHI**	Office of the Insurance Ombudsman, 2/2 A, Universal Insurance Building, Asaf Ali Road, New Delhi – 110 002.Tel.:– 011–23239611/7539/7532, Fax:– 011-23230858, Email:– bimalokpal.delhi@gbic.co.in	State of Delhi
8	**ERNAKULAM**	Office of the Insurance Ombudsman, 2nd floor, Pulinat Building, Opp. Cochin Shipyard, M.G. Road, Ernakulum – 682 015.Tel.:– 0484–2358759/2359338, Fax:– 0484–2359336, Email:– bimalokpal.ernakulum@gbic.co.in	Kerala, Lakshadweep, Mahe–a part of Pondicherry
9	**GUWAHATI**	Office of the Insurance Ombudsman, 'Jeevan Niveshï¿½, 5th Floor, Nr. Panbazar over bridge, S.S. Road, Guwahati – 781001(ASSAM). Tel.:– 0361– 2132204 / 2132205, Fax:– 0361–2732937, Email:– bimalokpal.guwahati@gbic.co.in	States of Assam, Meghalaya, Manipur, Mizoram, Arunachal Pradesh, Nagaland and Tripura.
10	**HYDERABAD**	Office of the Insurance Ombudsman, 6–2–46, 1st floor, "Moin Court", Lane Opp. Saleem Function Palace, A. C. Guards, Lakdi–Ka–Pool, Hyderabad – 500 004. Tel.:– 040–65504123/23312122, Fax:– 040–23376599, Email:– bimalokpal.hyderabad@gbic.co.in	States of Andhra Pradesh, Telangana and Union Territory of Yanam - a part of the Union Territory of Pondicherry.
11	**JAIPUR**	Office of the Insurance Ombudsman, Jeevan Nidhi–II Bldg., Ground Floor, Bhawani Singh Marg, Jaipur – 302005. Tel.:– 0141–2740363, Email:– bimalokpal.jaipur@gbic.co.in	State of Rajasthan.
12	**KOLKATA**	Office of the Insurance Ombudsman,Hindustan Building Annexe, 4th floor, 4, CR Avenue, Kolkata – 700 072. Tel.:– 033–22124339 / 22124340, Fax:– 033–22124341, Email:– bimalokpal.kolkata@gbic.co.in	States of West Bengal, Bihar, Sikkim and Union Territories of Andaman and Nicobar Islands.
13	**LUCKNOW**	Office of the Insurance Ombudsman, 6th Floor, Jeevan Bhawan, Phase–II, Nawal	District of Uttar Pradesh: Lalitpur, Jhansi, Mahoba,

		Kishore Road, Hazratganj, Lucknow–226 001. Tel.:– 0522–2231330 / 2231331, Fax:– 0522–2231310. Email:– bimalokpal.lucknow@gbic.co.in	Hamirpur, Banda, Chitrakoot, Allahabad, Mirzapur, Sonbhabdra, Fatehpur, Pratapgarh, Jaunpur, Varansi, Gazipur, Jalaun, Kanpur, Lucknow, Unnao, Sitapur, Lakhimpur, Bahraich, Barabanki, Raebareli, Sravasti, Gonda, Faizabad, Amethi, Kaushambi, Balrampur, Basti, Ambedkarnagar, Sulanpur, Maharajganj, Santkabirnagar, Azamgarh, Kaushinagar, Gorkhpur, Deoria, Mau, Chandauli, Ballia, Sidharathnagar.
14	**MUMBAI**	Office of the Insurance Ombudsman, 3rd Floor, Jeevan Seva Annexe, S. V. Road, Santacruz (W), Mumbai – 400 054. Tel.:– 022–26106928/360/889, Fax:– 022–26106052, Email:– bimalokpal.mumbai@gbic.co.in	States of Goa, Mumbai Metropolitan Region excluding Navi Mumbai & Thane.
15	**NOIDA**	Office of the Insurance Ombudsman, Bhagwan Sahai Palace, 4th Floor, Main Road, Naya Bans, Sector–15, Gautam Budh Nagar, Noida Email:– bimalokpal.noida@gbic.co.in	States of Uttaranchal and the following Districts of Uttar Pradesh:. Agra, Aligarh, Bagpat, Bareilly, Bijnor, Budaun, Bulandshehar, Etah, Kanooj, Mainpuri, Mathura, Meerut, Moradabad, Muzaffarnagar, Oraiyya, Pilibhit, Etawah, Farrukhabad, Firozabad, Gautam Budh Nagar, Ghaziabad, Hardoi, Shahjahanpur, Hapur, Shamli, Rampur, Kashganj, Sambhal, Amroha, Hathras, Kanshiramnagar, Saharanpur.
16	**PATNA**	Office of the Insurance Ombudsman, 1st Floor, Kalpana Arcade Building, Bazar Samiti Road, Bahadurpur, Patna – 800 006. Email:– bimalokpal.patna@gbic.co.in	States of Bihar and Jharkhand.
17	**PUNE**	Office of the Insurance Ombudsman, Jeevan Darshan Building, 3rd Floor, CTS Nos. 195 to 198, NC Kelkar Road, Narayan Peth, Pune – 411 030 Tel: 020 – 32341320, Email:– bimalokpal.pune@gbic.co.in	States of Maharashtra, Area of Navi Mumbai and Thane excluding Mumbai Metropolitan Region. Bottom of Form

Cholamandalam MS General Insurance company Limited
HO: Dare House 2nd Floor, No. 2 NSC Bose Road, Chennai – 600 001.
Toll Free : 1800 208 5544

CANCELLATION ENDORSEMENT

Notwithstanding anything to the contrary mentioned in the policy or in any of the endorsements, it is hereby agreed and declared that

a. **We** may cancel this Policy by giving 30 days written notice of such cancellation to the last known address of the first named Insured and in such event **we** will return a pro-rata portion(subject to retaining the minimum premium, if any, prescribed under the policy) for the unexpired Policy Period.

b. This Policy may also be cancelled by **you** by giving 30 days written notice to **us** in which event **we** will retain premium at the short period scale stated below subject to retaining INR 2,500/- or the minimum premium, if any, prescribed under the policy, whichever is higher, provided that there has been no Claim under the Policy during the Policy Period in which case no refund of premium shall be allowed.

Short Period Scale

Period (Not exceeding)	**Rate**
1 week	10% of the Annual rate
1 Month	25% of the Annual rate
2 Months	35% of the Annual rate
3 Months	50% of the Annual rate
4 Months	60% of the Annual rate
6 Months	75% of the Annual rate
8 Months	85% of the Annual rate
Exceeding 8 Months	Full Annual Premium

The payment or tender of any unearned premium by us shall not be a condition precedent to the effectiveness of cancellation but such payment shall be made as soon as practicable.

All other terms and conditions remain unchanged

Cholamandalam MS General Insurance Company Limited

PUBLIC LIABILITY INSURANCE POLICY
(UNDER PUBLIC LIABILITY INSURANCE ACT 1991)

1. OPERATIVE CLAUSE

Whereas the Insured Owner named in the schedule hereto and carrying on business described in the said schedule has applied to the Cholamandalam General Insurance Company Limited (hereinafter called the Company) for the indemnity hereinafter contained and has made a written proposal and declaration which shall be the basis of this contract and is deemed to be incorporated herein and has paid the premium and statutory contribution towards the Environment Relief Fund as per the provisions of the Public Liability Insurance Act and the rules framed there under.

NOW THIS POLICY WITNESSETH that subject to the terms, exceptions and conditions contained herein or endorsed hereon, the company will indemnify the insured owner against the statutory liability arising out of accidents occurring during the currency of the policy due to handling hazardous substances as provided for in the said Act and the Rules framed thereunder.

2. DEFINITIONS:

a) **"ACT"** unless otherwise specifically mentioned shall mean the Public Liability Insurance Act 1991 as amended from time to time.

b) **"Accident"** means an accident involving a fortuitous, sudden or unintentional occurrence while handling any hazardous substance resulting in continuous, intermittent or repeated exposure to death of, or injury to any person or damage to any property but does not include an accident by reason only of war or radioactivity.

c) **"Handling"** in relation to any harzardous substance means the manufacture, processing, treatment, package, storage, transportation by vehicle, use, collection, destruction, conversion, offering for sale, transfer or the like of such hazardous substance;

d) **"Hazardous Substance"** means any substance or preparation which is defined as hazardous substance under the Environment (Protection) Act, 1986, and exceeding such quantity as may be specified, by notification, by the Central Government;

e) **"Owner"** means a person who owns, or has control over handling any hazardous substance at the time of accident and includes:

in the case of a firm any of its partners;
in the case of an association, any of its members, and
in the case of a company, any of its directors, managers, secretaries or other officers who is directly in charge of, and is responsible to the company for the conduct of the business of the company;

f) **"Turnover"** shall mean

- Manufacturing units-Annual Gross Sales of all goods including all levies and taxes
- Godowns/ warehouse owners-Total Annual rental receipts.
- Transport Operators-Total Annual freight receipts.
- Others-Total Annual gross receipts.

3. EXCLUSIONS:

This Policy does not cover liability:

(1) arising out of wilful or intentional non-compliance of any Statutory provisions.

(2) in respect of fines, penalties, punitive and/or exemplary damages.

(3) arising under any other legislation except in so far as provided for in Section 8 Sub Section (1) and (2) of the Act.

(4) in respect of damage to property owned, leased or hired or under hire purchase or on loan to the Insured or otherwise in the Insured Owner's control, care or custody.

(5) directly or indirectly occasioned by, happening through or in consequence of war, invasion, act of foreign enemy, hostilities (whether war be declared or not), civil war, rebellion, revolution, insurrection or military or usurped power;

(6) directly or indirectly caused by or contributed to by.

a) ionizing radiation or contamination by radioactivity from any nuclear fuel or from any nuclear waste from the combustion of nuclear fuel

b) the radioactive, toxic, explosive or other hazardous properties of any explosive nuclear assembly or nuclear component thereof.

4. CONDITIONS:

(1) The Insured owner shall give written notice to the Company as soon as reasonably practicable of any claim made against the Insured Owner or of any specific event or circumstance that may give rise to a claim. The Insured Owner shall immediately give to the Company copies of notice of applications forwarded by the Collector and all such additional information and or assistance that the company may require.

(2) No admission, offer, promise or payments shall be made or given by or on behalf of the Insured owner under this policy without the written consent of the Company.

(3) The Company shall not be liable for any claim for relief made after five years from the date of occurrence of the accident.

(4) The Insured Owner shall keep record of annual turnover, and at the time of renewal of insurance declare such turnover and all other details as may be required by the Company. The Company shall at all reasonable times have full rights to call for and examine such records.

(5) If at the time of happening of any accident resulting in a claim under this policy there be any other insurance covering the same liability, then the Company shall not be liable to pay or contribute more than its ratable proportion of such liability.

(6) This policy may be cancelled by the Insured Owner by giving 30 days notice in writing to the company in which event the Company will retain premium at short period scale subject to there not having occurred an accident during the policy period which may give rise to a claims(s), failing which no refund of premium shall be allowable.

(7) This Policy may also be cancelled by the Insurer by giving 30 days notice in writing to the Insured Owner in which event the Company shall be liable to repay on demand a rateable proportion of the premium for the unexpired term from the date of cancellation.

(8) If the Company shall disclaim liability to the Insured Owner for any claim hereunder and such claim shall not within 12 calendar months from the date of such disclaimer have been made the subject matter of a suit in a competent court of law, then the claim for the practical purposes shall be deemed to have been abandoned and shall not thereafter be recoverable hereunder or be made the subject matter of any suit.

(9) The Company shall not be liable to make any payment in respect of any claim if such claim shall be in any manner fraudulent or supported, by any person on behalf of the Insured Owner and/or if the insurance has been continued in consequence of any material misstatement or non disclosure of any material information by or on behalf of the Insured Owner. In such a case if the Company pays any amount to the claimant due to any statutory provision such amount shall be recoverable from the Insured Owner.

(10) The Policy and the Schedule shall be read together as one contract and any word or expression to which a specific meaning has been assigned in the Act and the Rules framed thereunder or this Policy shall bear such specific meaning.

(11) Any dispute regarding interpretation of the terms, conditions and exceptions of this Policy shall be determined in accordance with the law and practice of a court of competent jurisdiction within India.

CARBON FOOTPRINT

UNIT	FUEL	QUANTITY (IN TPA)	FIXED CARBON (%)	TOTAL CARBON (IN TPA)	CO_2 GENERATION (IN TPA)
Sponge Iron Plant (4 X 100 TPD)	Coal	1,32,000	40	52,800	1,93,600

CARBON SEQUESTRATION

(A) Estimation of Carbon Sequestration Potential of Green Belt

Total greenbelt area = 7.85 Hectares

Total number of trees = 19,625 trees

A hard wood tree absorb 80 - 100 kg CO_2 per annum.

Therefore, 19,625 trees will absorb 19,625 x (90/1000) = 1,766.3 TPA CO_2

(B) 8 MW Captive Power Plant (WHRB BASED)

Point to be noted that 8 MW Captive Power Plant (WHRB Based) is utilizing waste heat from Sponge Iron Plant.

This 8 MW WHRB Based CPP will reduce the CO_2 emission equivalent to that emitted from 8 MW Coal based CPP.

Coal requirement for 8 MW Power generation will be 8x0.9 = 7.2 TPH.

Assuming 40% fixed carbon in Coal, total Carbon content will be 7.2x0.4 = 2.88 TPH

The Corresponding CO_2 generation will be (2.88x44)/12 = 10.56 TPH

Hence, CO_2 generation in a year will be = 10.56x24x330 = 83,635.2 TPA

Therefore, 8 MW WHRB based CPP ultimately results in the reduction of CO_2 emission by 83,635.2 TPA.

(C) INSTALLATION OF SOLAR POWER PLANT

The total capacity of Solar Power Plant is 3 KW i.e., 0.003 MW.

This will save coal burning to the extent of 0.0027 TPH (=0.003x0.9).

Total carbon reduction will be 0.0027 x 0.3 = 0.00081 TPH

Total CO_2 reduction will be 0.00081 TPH x (44/12) x 24 x 330

= 23.5 TPA

DETAILS OF CARBON FOOTPRINT & CARBON SEQUESTRATION

CARBON FOOTPRINT			**CARBON SEQUESTRATION**		
Sl. No.	**Activities**	**CO_2 e generation (TPA)**	**Sl. No.**	**Activities**	**Reduction of CO_2 Emission (TPA)**
1	Sponge Iron Plant (4 X 100 TPD)	1,93,600	**1**	CO_2 emission reduction due to WHRB based 8 MW CPP	**83,635.2**
			2	CO_2 emission reduction due to Green Belt Development	**1,766.3**
			3	CO_2 emission reduction due to 3 KW Solar Power Plant	**23.5**
	TOTAL	**1,93,600**		**TOTAL**	**85,425**

ANNEXURE 12

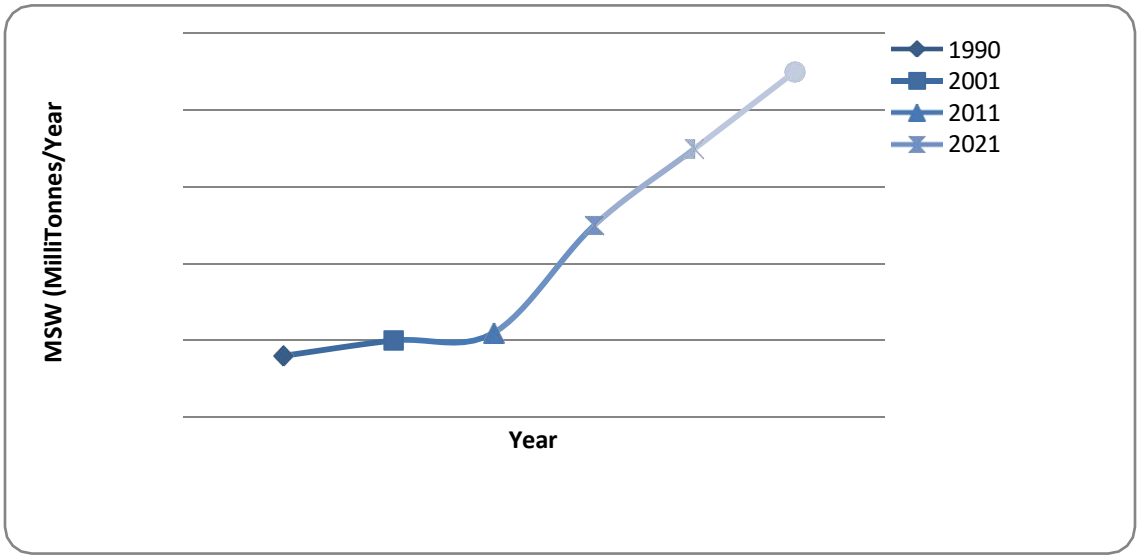
SOLAR POWER

PLASTIC WASTE MANAGEMENT
M/s SCANIA STEELS AND POWERS LTD.

Socio-Environmental Responsibility: Plastics are good, Plastics litter is the problem. It is not commercially viable for the waste pickers. Litter picking needs a separate viability gap funding, and so is its recycling, which is not so profitable either. Though most of the waste management laws are plastic centric, this small pieces of metalized plastics and carry bags are the main contentious issue in most of the other waste streams, and more so in MSW. A solution is developed here by harnessing, informal sector, recycling network in a workable formal setup. This can also meet the partial cost of litter management. ULBs give space as in the law, waste traders gets an identity, and the faceless waste pickers gets extra income with a little extra responsibility of litter free area management. The system has been test marketed and experimented. To innumerate:

1. The Rag Pickers / Scavengers, which are presently highly unorganized, need to be converted into an organized self –sustainable work force.
2. With proper system development Rag Pickers / Scavengers will get the right price for their work/effort.
3. With collection centers this work force can get better price for their work/effort and with better remunerations/income. Their social acceptability will also increase.
4. Presently Rag pickers/ Scavengers sort the plastic form dump heaps and foul smelling places. To work in these highly inhospitable environments, they tend to become drug addicts/alcoholics.

Figure 1 depicts the rapid growth of Municipal Solid Waste from 1990 to 2010 in India. The graph shows that the projected solid waste collection rising up to 235 Million ton/year in financial year 2041, which is shown in figure no. 1. These rising line also shows that, how the Indian cities are being engulfed into waste dump sites all around them. With a local baseline study in camera, the plastics waste left out at dumpsites is found to be 11%, which corroborates with a few national studies, could be a clean raw material for the recycling plant if collected from homes and is as envisaged in this report.



The projected solid waste collection rising up to 235 Million ton/year in financial year 2041

1.1 Objective

The law - Plastics Waste (Management and Handling) rules have been enacted in 2011, by Ministry of Environment, Forest and Climate Change, Government of India, and has yet not been implemented in any city or a municipal body in its correct form. For this there is a need for system designing, which encompasses the responsibility of municipal body, getting the plastics industry involved under extended producer responsibility and getting the informal sector in a formal regulated framework.

1.2 Description of Plastic Waste

Plastic products have become an integral part of our daily life as a basic need. It is produced on a massive scale worldwide and its production crosses the 150 million ton per year globally. In India approximately 8 Million ton plastic products are consumed every year (2008). Its broad range of application lies in films, wrapping materials, shopping and garbage bags, fluid containers, clothing, toys, household and industrial products, and building materials. It is a fact that plastics will never degrade and remains on landscape for several years. Mostly, plastics are recyclable but recycled products can again be recycled but the litter left over in earth system and water systems are more hazardous to the environment. The recycling of a virgin plastic material can be done many times, but after every recycling, the plastic material is deteriorated due to thermal pressure. Considering, 70% of plastic consumption is converted as waste over time, approximately 5.6 million ton per annum (TPA) plastic waste is generated in country, which equals to 15342 ton per day (TPD) (ref.2).

Plastic waste has a significant portion in total municipal solid waste. Though, there is a

formal system of waste collection in urban areas, however, informal sectors i.e. rag pickers, collect only value based plastics waste such as pet bottles etc. Plastic carry bags, metalized plastics and low quality plastic less than 20 micron do not figure in their priorities, because collecting them is not profitable. This is primarily because the rewards are not much as compared to the efforts required for collection, and this leads to plastic bags and other packaging materials continuing to pose a major threat to the environment.

Moreover, the major concern for this waste stream is that these are non-biodegradable and remains in the environment for many years. Clogging of drains by plastic waste is a common problem. The packaging and poly vinyl chloride (PVC) pipe industry are growing at 16-18% per year. The demand of plastics goods is increasing from house hold use to industrial applications. It is growing at an annual rate of 22% annually.

1.3 Sources of Plastic waste

Plastics can be used for many purposes, and thus, waste plastics are generated from a wide variety of sources. The main sources of plastic waste can be classified as follows: industrial, commercial and municipal waste.

- ***Industrial waste***

Industrial waste and rejected material (so-called primary waste) can be obtained from large plastics processing, manufacturing and packaging industries. Most of this waste material has relatively good physical characteristics; i.e., it is sufficiently clean.

It is not mixed with other materials. It has been exposed to high temperatures during the manufacturing process which may have decreased its characteristics, but it has not been used in any product applications. Many industries discard polyethylene film wrapping that has been used to protect goods delivered to the factory. This is an excellent material for reprocessing, because it is usually relatively thick, free from impurities and in ample supply.

Construction companies: e.g. PVC pipes and fittings, tiles and sheets.

Physical properties of waste plastics are given below.

Physical properties of waste plastics

Commercial Plastic material	Nature of Plastic	Thickness (μ)	Softening point (°C)
Cup	PE	150	100-120
Carry bag	PE	10	100-120
Water bottle	PET	210	170-180
Cool drinks bottle	PET	210	170-180
Chocolate covers	Polyester + PE + metalized polyester	20	155
Parcel cover	PE	50	100-120
Supari cover	Polyester + PE	60	120-135
Milk pouch	LDPE	60	100-120
Biscuit covers	Polyester + PE	40	170
Decoration papers	BOPP	100	110
Film	PE	50	120-130
Foam	PE	NA	100-110
Foam	PS	NA	110

Considerable amounts of waste plastics generated by many industries remain uncollected or end up at the municipal dump. Industries are often willing to cooperate with private collecting or reprocessing units.

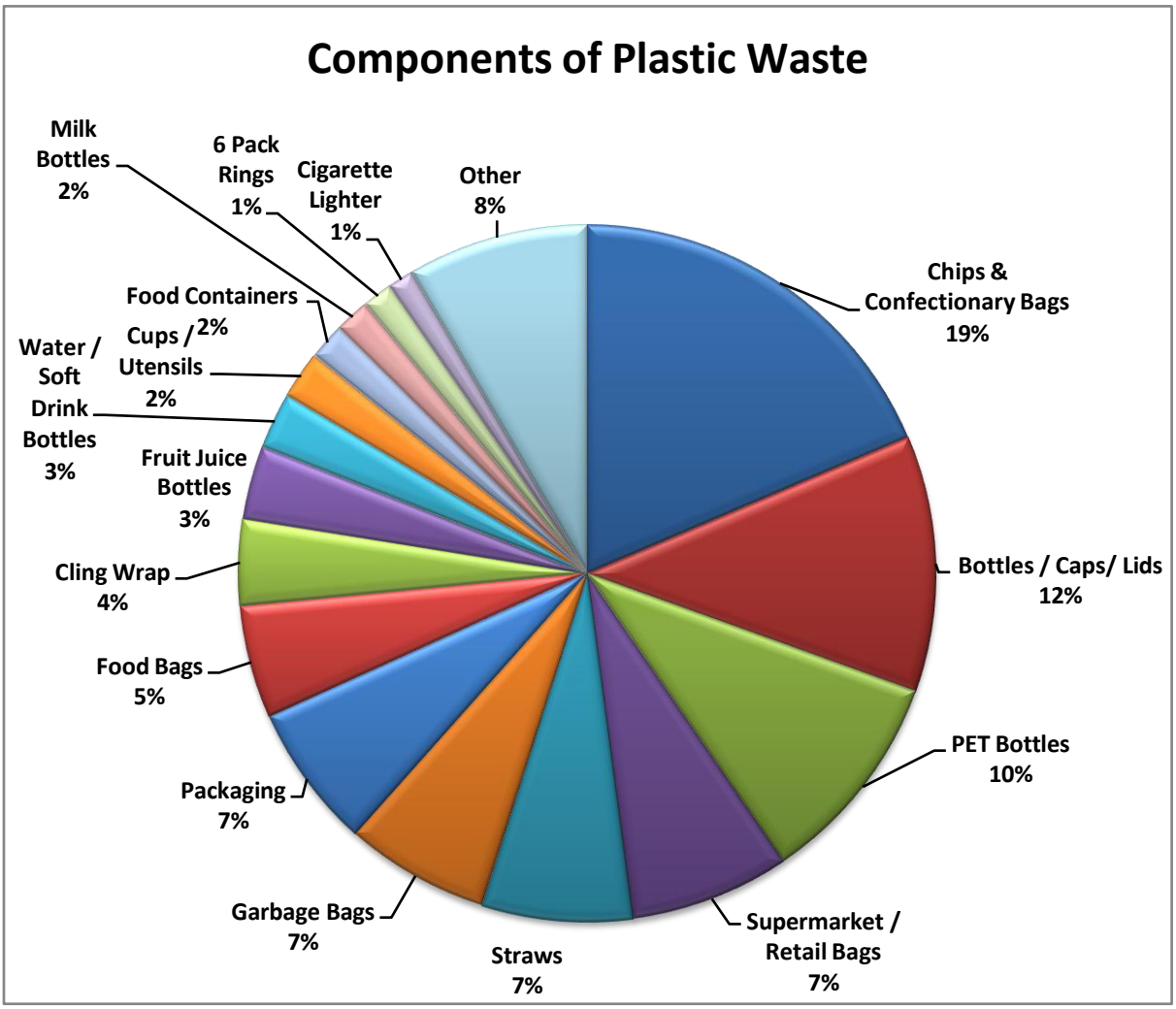
3.7.1 Commercial waste

Workshops, craftsmen, shops, supermarkets and wholesalers may be able to provide reasonable quantities of waste plastics for recovery. A great deal of such waste is likely to be in the form of packaging material made of PE, either clean or contaminated. Hotels and restaurants are often sources of contaminated PE material.

Approximate quantity of Plastic Waste –

- Total 2200 Kg Approx.
- Packaging Material - 250 Kg Approx.
- Electrical/Electronics – 150 Kg Approx.
- Refectory/Cement bags etc – 1800 Kg Approx.

Nature of Plastic Waste - Packaging Material, Electrical/Electronics, Refectory/Cement bags etc.


Components of Plastic Waste
Milk Bottles 2%
6 Pack Rings 1%
Cigarette Lighter 1%
Other 8%
Chips & Confectionary Bags 19%
Food Containers 2%
Cups / Utensils 2%
Water / Soft Drink Bottles 3%
Fruit Juice Bottles 3%
Cling Wrap 4%
Bottles / Caps/ Lids 12%
Food Bags 5%
PET Bottles 10%
Packaging 7%
Garbage Bags 7%
Straws 7%
Supermarket / Retail Bags 7%

PLASTIC WASTE MANAGEMENT

PLASTIC WASTE MANAGEMENT- GENERAL

1.2 PWM

Plastic Waste Management will involve activities associated with segregation, collection, storage, transportation, processing and disposal. Plastic waste disposal in an environmentally sustainable manner should be achieved by adopting principles of economy, aesthetics, and energy conservation and pollution control. It encompasses planning, organization, administration, financial, legal and engineering aspects involving interdisciplinary relationships.

With the aim of restrain littering and have proper disposal process for plastic waste, following activities are required to enforce in plastic waste management.

1.2.1 Two-Bin/bag collection System

In order to follow appropriate plastic disposal technologies, segregation at source is essential. The recyclable waste material should be separated from food waste and other biodegradable waste, in a separate bin at the source of waste generation, by having a two bin/bag system for waste storage. It is proposed to have recycling waste collector is a waste trader of the network, and gives a plastics bag free to every household.

The bags are clearly labeled/marked on them “Recyclable Waste” which could also be a bag for easy handling, since it will contain mostly dry waste and not wet “Bio-degradable Waste”. This will be replaced when full with another bag. This way the plastic waste is separated out easily from other recyclable materials. The bio-degradable waste goes to the Municipal waste processing site for conversion into fertilizer and recyclable waste can be handed over to newly net worked this recycling system. The reuse of recyclable waste material will reduce processing cost drastically as well address the segregation needs and environment pollution.

1.2.2 Collection and transportation

The collection and transportation of plastic waste on a daily basis is an imperative step. Since the waste cannot be removed as fast as it is littered, it is stored and transported as soon as possible at specific pre-defined frequencies by private traders. The system of storage and types of vehicles are often compatible.

factors to be considered, the terminology, the organizations involved in developing these techniques and the legislation, which is driving the whole process forward. The ISO standards relating to environmental management are also discussed briefly in the document.

1.3 Recycling of Plastic Waste

The practice of recycling post-manufacturing plastic waste has been in vogue, since the last many years. The recycling of plastic is done through different methods. The compacted bales of plastic waste should reach the recycling units by a dedicated supply chain network on a daily basis. Recycling of plastics waste is carried with a view to make an alternative product for better profit.

1.4 Management of Plastic waste in Steel Industry

M/s Scania Steels and Powers Ltd. can utilize plastic waste in steelmaking. Packaging material plastic of big size have been used in civil work & rest will be disposed in negotiation with recyclers to dispose.

Through extensive research and development, innovative technologies are to be implemented to maximize the efficiency of plastic waste conversion. These technologies have enabled the industry to create steel with greater strength and durability, while also reducing emissions and waste.

Examples include using plastic-coated cables in electric arc furnaces, which results in better energy utilization and reduced emissions. On the other hand collaborative efforts between the plastics and steel industries are exploring novel ways to recycle plastic waste and integrate it into the steel making process. By doing this, not only could plastic waste be prevented from entering the environment, but it could also be repurposed to create an entirely new material. For example, shredding and melting plastic waste, it can be mixed with steel scrap before it is melted to create a composite material for use in numerous applications.

Key strategies to to spread awareness about banning plastic,:

Informative campaigns:

- Create posters, flyers, and social media graphics that illustrate the detrimental impacts of plastic waste on marine life, ecosystems, and human health.
- Organize presentations and workshops in schools, workplaces, and community centers to educate people about plastic pollution and its consequences.
- Share impactful videos and documentaries showcasing the plastic waste problem.

Promote reusable alternatives:

- Encourage people to use reusable shopping bags, water bottles, food containers, straws, and utensils.
- Highlight the benefits of switching to sustainable packaging options.
- Organize "Bring Your Own" campaigns at local businesses and events.

Community engagement:

- Conduct local clean-up drives to visually demonstrate the plastic pollution issue.
- Partner with local businesses and organizations to implement plastic reduction initiatives.
- Lobby for plastic bag bans and other environmentally friendly policies at the local level.

Social media activism:

- Utilize social media platforms like Facebook, Instagram, and Twitter to spread awareness, share informative content, and encourage others to take action.
- Use relevant hashtags to reach a wider audience.
- Host online petitions to advocate for plastic bans.

Target specific demographics:

- Develop tailored messaging for different groups like students, families, businesses, and policymakers.
- Collaborate with local schools to incorporate environmental education programs.

1.5 Conclusion

Incorporating plastic waste in steel production presents a cost-effective alternative, reducing the reliance on expensive raw materials.

Utilizing plastic waste into green steel opens a new solution to tackle plastic pollution. By adapting this approach, one can protect the environment, conserve resources, and work towards a circular economy and also presents a cost-effective alternative, reducing the reliance on expensive raw materials.

Spreading Public Awareness to ban Plastic