स्टील अथॉरिटी ऑफ इण्डिया लिमिटेड

(भारत सरकार का उपक्रम)

इस्को स्टील प्लांट

बर्नपुर - 713 325 पश्चिम बंगाल

टेलिफोन नं : 0341-2240441

फैक्स नं : 0341-2240018, 2240032

: 0341-2240704 (Works)



ओ एवं एम/सा०/O & M /Genl/33

STEEL AUTHORITY OF INDIA LIMITED

(A Govt. of India Enterprise)

IISCO STEEL PLANT

BURNPUR - 713 325, WEST BENGAL

Phone No.: 0341-2240441

FAX No. : 0341-2240018, 2240032

: 0341-2240704 (Works)

दिनांक / Date 29 1 05 125

संदेभ सं o/Ref. No. : GM.D. M.O.E.F 8 cc 2025/17

The IGF & Incharge, GOI, MOEF&CC Integrated Regional Office, Kolkata 1B-198, Salt Lake City, Sector III Kolkata- 700106

Sub: Expansion of IISCO Steel Plant (ISP) (0.55 MTPA to 2.50 MTPA, Rebuilding Battery No. 10 of Coke Oven and setting up of captive Power Plant (87.5 MW) and other Facilities at Burnpur, Asansol, Burdwan, West Bengal by M/s Steel Authority of India Limited (SAIL) -**Environment Clearance**

Ref.: F. No. J-11011/348/2005-IAII (I), dated 7th August, 2007 & F. No. J-11011/348/2006-IAII (I) dated 22nd November , 2007 Ministry of Environment & Forests, Govt. of India, Paryavaran Bhawan, CGO Complex, Lodi Road, New Delhi-110003 & F. No. J-11011/348/2005-IAII (I) dated 14th November, 2013

Sir,

We are enclosing herewith a status report of Compliance to the conditions stipulated in the above mentioned environmental clearance for the period October 2024 to March 2025.

Thanking you,

Yours faithfully,

(P. K. Paul)

GM I/c (Safety, FS & Env.) exe. pwr of CGM (Safety, FS & Env)

Encl:

as stated

Steel Authority of India Limited **IISCO Steel Plant**

Sub: Expansion of IISCO Steel Plant (ISP) (0.55 MTPA to 2.50 MTPA), Rebuilding of Coke Oven Battery No. 10 and setting up of a Captive Power Plant (87.5 MW) and other facilities at Burnpur, Asansol, Burdwan, West Bengal by M/s Steel Authority of India Limited (SAIL) -**Environmental Clearance**

Ref: F. No. J-11011/348/2005 - IA II (I), dated 7th August, 2007 & F. No. J-11011/348/2006 - IA II (I) dated 22nd November, 2007 & F. No. J-11011/348/2005-IA II (I) dated 14th November, 2013 of Ministry of Environment & Forests, Government of India, Paryavaran Bhawan, C.G.O. Complex, Lodi Road, New Delhi - 110003

Status report of the compliance to the conditions: October 2024 to March 2025

tatus report of the compliance to the conditions: O	Status / Compliance
Condition of MoEFCC	
shall conform to the load/mass based standards notified by this Ministry on 19 th May, 1993 and standards prescribed from time to time. The West Bengal Pollution Control Board (WBPCB) may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time, the emission level shall go lab	ese features are taken care of in Design & Engineering. Forts are made considering necessary factor of safety at no time, the emission level shall go beyond the scribed standards. However, due to technological station and safety & hazards requirements of different its of the plant interlock facilities cannot be provided for comatically stopping. Test Reports of monitoring and alysis carried out by WBPCB and other recognized poratories during October 2024 to March 2025 are need at Annexure 1.
i) Low NO _X burners shall be provided in re-heating furnace and boilers to control NO _X emissions. Continuous stack monitoring facilities for all the major stacks and adequate air pollution control systems shall be provided to control air emissions within 50 mg/Nm³ and reports submitted to the WBPCB & CPCB. iii) Ambient air quality monitoring stations shall be set up per statutory requirement in consultation with the WBPCB. Ambient air quality including ambient noise levels shall not exceed the standards stipulated under EPA or by the State authorities. Monitoring of ambient air quality and shall be carried out regularly in consultation with WBPCB and data submitted to the CPCB and WBPCB regularly. The instruments used for ambient air quality monitoring shall be calibrated time to time. iv) In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. ESP to the new sinter plant, ventury scrubber to BOF shop, pulse jet type bag filter to lime and dolomite plant and bag filters in material handling	nission is maintained within norm. Stack, Ambient Air, ork Environment, Ambient Noise and Coke oven agitive Emissions monitoring report from October 2024. March 2025 is placed at Annexure 2. onitoring stations already exist. Calibration being done agularly. Five (5) Nos. of Continuous Ambient Air Quality stations (CAAQMS) are set up at Township (1 No.) & lant (4 Nos.). The stipulated control measures have been considered in Design & Engineering and installed. ESP has been provided in the sinter plant. Scrubber has been provided to clean BOF gas. Bag filters have been provided at Lime & Dolomite Calcination Plant, as well as in material handling & transfer points. ESP is provided to control dust generated from secondary refining. List of Pollution generated from secondary refining.
associated duct, cyclone/scrubber shall be provided to control dust generated during secondary refining. Dedusting system shall be provided at different material dusting system shall be cleaned in the transfer points. Tar, NH ₃ shall be cleaned in the	Generated from secondary retining. Control equipment installed in various units are provided in Annexure 3. Tar, NH ₃ is being cleaned and H ₂ S recovery plant is in operation. By-product fuel gases like Coke Oven, Blast Furnace & BOF Gas is used for generation of power & steam generation as well as for heating purpose.

सैल-आई. एस. पी., बर्नपुर (A. L.)

	Condition of MoEFCC	Status / Compliance
1)	Dry fog dust suppression system shall be provided to control fugitive emissions. Further, specific measures like water sprinkling around the coal stockpiles and asphalting or concreting of the roads shall be done to	Dry fog dust suppression system and water sprinkling systems are provided to control fugitive emissions from coal stockpiles. Also, the roads have been concretised. Secondary fugitive emissions are being controlled by
	control fugitive emissions. Secondary fugitive emissions shall be controlled within the prescribed limits, regularly monitored and records maintained.	deploying sprinklers and mist canons.
	Guidelines/Code of Practice issued by the CPCB in this regard shall be followed.	
vi)	Total requirement of the water from River Damodar shall not exceed 23 MGD and prior `permission' – for the total water requirement shall be obtained from the concerned Department before commissioning the project. Effluent Treatment Plant (ETP) shall be installed for the treatment of process water. During the rebuilding of coke oven battery, BOD plant shall be provided for the disposal of liquid effluent. The wastewater generated from blast furnace (BF) shall be treated in clarifier and reused in the system. Blow down from BF re-circulation system shall be reused in	Total water requirement from the River Damodar is well within the permitted value of 23 MGD. Permission from DVC is also obtained before commissioning of the project. ETP is installed at Sinter Plant, Blast Furnace, SMS, Bar Mill and at USM. Separate BODs are installed for both COB 10 & 11. Clarifier is provided at BF and water is being reused. Clarifier is also provided in BOF for recirculation of water. Reverse Osmosis systems are also installed with ZLD units. Domestic effluents are being treated in STP.
	SGP as make up water. Blow down from BOF re-	
	circulation system shall be reused in new SMS slag yard. Reverse Osmosis plant shall be installed. All the	
	wastewater generated shall be treated, recycled and	
	reused either in the process or for dust suppression or green belt development. No wastewater shall be	
	discharged outside the factory premises and 'Zero'	
	discharge shall be adopted. Domestic effluent shall be	
vii)	treated in sewage treatment plant (STP). All the BF slag shall be either sold or used for road	BF & BOF slags are either sold or being used in the plant.
	construction. BF sludge and BOF sludge shall be partly used in sinter plant and partly dumped. BOF slag shall	BF & BOF sludge is either being sold or used. BF Fume Dust, CCP/Mill scales, Lime & Dolo Dust and burnt Lime
	be reused in BF, sinter plant as well as ballast. All the BF fume dust, BOF scale, Mill scales, Lime dust, Dolo dust, Burnt lime, Pig casting machine sludge etc. shall	are being used in the plant. Skull & Scrap are being used in the plant. Tar Sludge is being utilized in the plant and waste oils are being disposed as per Hazardous & Other
	be reused in sinter plant. All the mill scrap and skull/scrap shall be reused in BOF plant. Blast furnace gas, Coke oven gas, BOF gas, Liquid Oxygen, LPG,	Wastes (Management And Trans-boundary Movement) Rules, 2016.
	shall be used in the power plant, Tar sludge, BOD plant sludge and waste oil shall be generated during the rebuilding of coke oven battery shall be properly disposed of as per the Hazardous Waste	
	(Management & Handling) Rules, 1989 and subsequent amendments.	
√iii)	The prescribed emission standards for coke oven plants as notified vide notification no. GSR 46 (E)	Complied
x)	dated 3 rd February, 2006 shall be complied with. All the environment management measures given in	Complied
- 00	the EIA/EMP shall be implemented and complied with.	
x)	Out of total 1,165.58 ha.green belt shall be developed in 260 ha. area in addition to existing 43 ha within and around the plant premises as per the CPCB guidelines in consultation with DFO.	Development of green belt is done in and around the plant premises as per the CPCB guidelines and total planted area is around 305 Ha.
Α.	General Conditions :	
i)	The project authority shall adhere to the stipulation made by West Bengal Pollution Control Board (WBPCB) and State Government,	Complied
ii)	No further expansion of modification of the plant shall	Agreed
iii)	be carried out without prior approval of this Ministry. The overall noise levels in and around the plant area shall be kept well within the standards (85 dB (A)) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of	All the noise control measures have been installed and noise levels in and around the plant is well within the prescribed limits.
	noise generation. The ambient noise levels shall conform to the standards prescribed under Environmental (Protection) Act, 1986 Rules, 1989 viz.	सहायक महाप्रवंधक (पर्यावरण प्रवंधन
	Environmental (Frotection) Act, 1300 Rules, 1303 VIZ.	AGM (Environ. Mgmt.) 24(5) वर्तिक अर्थ एस. पी., बर्नपुर
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	Condition of MoEFCC	Status / Compliance
	75 JD(A) (day time) and 70 dB(A) (night time)	Occupational health surveillance is being carried for all
<u>.</u>	be done on a regular basis and records maintained as	the employees including workers and records are being
)	All the recommendations mentioned in the Corporate Responsibility for Environmental Protection (CREP) of CPCB issued for the steel plants shall be implemented.	Recommendations mentioned in the CREP of CPCB issued for the steel plants are implemented.
i)	The company shall undertake eco-development measures including community welfare measures in the project area.	Being done on regular basis under Corporate Social Responsibility (CSR). List of CSR activities carried out during Financial Year 2024-25 is placed at Annexure 4.
ii)	The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water	Rainwater harvesting system is installed at Refractory storage shed area.
iii)	Proper housekeeping and adequate occupational	Being done on regular basis
x)	health programmes shall be taken up. A separate environmental management cell to carry out various management and monitoring functions shall be set up under the control of Senior Executive.	Already exists with GM I/c (Safety, Fire Services & Environment), 3 officers, 4 associates and 15 contractual workers.
()	As mentioned in the EIA/EMP, Rs. 480.00 Crores and Rs. 36.60 Crores allocated towards the capital cost and recurring cost/annum environmental pollution	Adequate amount being utilized for environmenta measures.
	control measures shall be judiciously used to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be	
ci)	diverted for any other purpose. The Regional Office of this Ministry at Bhubaneswar/CPCB/WBPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical	Monitoring Reports along with statistical interpretation are being submitted regularly to MoEFCC/CPCB/WBPCB an are also being placed at sail.co.in.
×ii)	interpretation shall be submitted to them regularly. The Project Authorities shall inform the Regional Office as well as Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land	Financial closure of the only left out LDCP package expected to be completed by June 2025
xiii)	the Ministry and copies of the clearance letter are available with the W.B. Pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in. This should be advertised within seven days from the date of issue of the clearance letter at least in two local newspaper that are widely circulated in the region of which one shall be in the vernacular language of the locally concerned and a copy of the same shall be forwarded to the Regional Office at Bhubaneswar.	
i	B. Additional Conditions Dated 1 st June 2011 There shall be no increase in the total coke production and coal throughput due to increase in the number of ovens from 67 to 74 in the coke oven	
i	battery. i) Data on ambient air, stack and fugitive emissions shall be regularly submitted online to Ministry's Regional office at Bhubaneswar, SPCB and Central Pollution Control Board as well as hard copy once in six months and display data on RSPM, SO ₂ and NOx outside the premises at the appropriate place for the general public.	
	general public. The National Ambient Air Quality Standard issued by the Ministry Vide G.S.R No 826 (E) dated 18 th November 2009 shall be followed	Agreed.

AGM (Environ. Mgmt.)
सिल-आई. एस. पी., बर्नपुर (A.).

	Condition of MoEFCC	Status / Compliance
iv)	The project proponent shall also submit monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective regional office of MOEF, the respective Zonal Office of CPCB and the SPCB .The Regional Office of the Ministry at Bhubaneswar/CPCB/SPCB shall monitor the stipulated condition.	Monthly data is being submitted in this report.
v)	The environmental statement for each financial year ending 31 st March in Form-V as is mandated to submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail.	Followed.
vi)		Corporate Environment Policy exists and also for its implementation, separate Environmental Management Department is provided in each of the unit, with corporate Environment set up as well.

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SAIL-ISP. BURNPUR
SAIL-ISP. BURNPUR

Annexure 1 Test Reports

Identification Code: 1 3 1 1 2 0 2 4 1 0 1 4 2

WEST BENGAL POLLUTION CONTROL BOARD

Durgapur Regional Laboratory, Paribesh Bhawan, City Centre, Durgapur-713 216

Analysis done at:				
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	Alla	17315 U	OHE	

Analysis done at:		W GAIL HECO Staal Blant	
1.Name of Industry		M/s. SAIL-HSCO Steel Plant.	on W/R
2.Address		P.O: Burnpur, Paschim Bardham	all, W.D.
3.Category & Type		Red & Integrated Steel Plant.	
4. Sampling Date		13.11.2024	
5.Duration of Sampling		33 min	
6. Name of Laboratory		M/s. Eco Care.	
7. Height of Stack from ground (m)		120.0	
8. Cross section of Stack at sampling point (n	12)	26.4314	
9 Stack connected to		Coke Oven Battery No.#11	
10.Emission due to (Furnace / Boiler)		Process Activity.	La company of the com
Average operational hours of boiler/furna	ce (per month)	720 hrs/month.	
	Security and the second	NIL	
12.APC System (if any)		2050 MT/hr.	
13. Working load of source (MT/hr)		Coke Oven Gas	
14. Fuel used			
15.Rated Fuel consumption (Kg or 1/hr)	-	20,66600 m ³ /day.	
16. Working Fuel consumption (Kg or 1/hr)		Coke Oven Battery	
17.Nature of furnace/boiler		157.0	
18.Flue Gas Temp (°C)	8.50	20. Volume of Flue gas drawn in	lit (m ³) 1.023
19.Flue gas velocity (m/s)		22. Percentage of CO ₂ & O ₂	CO2-6.2%
21.Corrected flue gas volume (Nm³)	0.8153	22.Fercentage of Cos at of	$()_2=14.2\%$
The state of the s		12% CO ₂	
23. Fo be compensated at (% if required)	1 7027	25. Final wt of thimble (gm)	1.7090
24.Initial wt of thimble (gm)	1.7037	27. Particulate matter (mg/Nm³)	12.58 at 12% CO2
26.Wt. of PM (mg)	5.30	29. Diameter of the nozzle	3/8"
28.Barometric Pressure Head (mm of Hg)	754	31. Thimble Number	5619
30. Others SO ₂ & NO _x	allow a to a		SOME OF ST
Sampled by		Mr. R. Chakraborty, AEE	

26/11/24

Date of Reporting

Prepared by

Checked by

Signature of In-Charge, DR1

Copy to:

- OSD Operation & Execution, WBPCB
- Chief Scientist, WBPCB
- Env. Engineer (DRO) / Env. Engineer (ARO), WBPCB
- Industry

-(A.) विश्वापा महाप्रवंधक (पर्यावरण प्रवंधः सैल-आई. एस. पी., बनेपुर SAIL-ISP, BURNPUR

Identification Code: 1 3 1 1 2 0 2 4 1 0 1 4 1



WEST BENGAL POLLUTION CONTROL BOARD

Durgapur Regional Laboratory, Paribesh Bhawan, City Centre, Durgapur-713 216

Analysis done at:				
1.Name of Industry		M/s. SAIL-IISCO Steel Plant.		
2.Address P.O. Burnpur, Paschim Bardhaman, W.B.				
3.Category & Type		Red & Integrated Steel Plant.		-
4. Sampling Date		13.11.2024		
5.Duration of Sampling		33 min		
6.Name of Laboratory		M/s. Eco Care.		
7 Height of Stack from ground (m)		110.0		
8. Cross section of Stack at sampling point (t	m^2)	9.625		
9.Stack connected to		Coke Oven Battery No.#10	*	
10.Emission due to (Furnace / Boiler)		Process Activity.		
Average operational hours of boiler/furna	ace (per month)	720 hrs/month.		
12.APC System (if any)		NIL		
13. Working load of source (MT/hr)		35 MT/hr.		
14. Fuel used		Coke Oven Gas		
15.Rated Fuel consumption (Kg or 1/hr)				
16. Working Fuel consumption (Kg or 1 /hr)		9500 m ³ /hr.		
17. Nature of furnace/boiler		COB#10		
18.Flue Gas Temp (°C)		.142.0		
19.Flue gas velocity (m/s)	8.01	20. Volume of Flue gas drawn in	lit (m³)	1.023
21. Corrected flue gas volume (Nm3)	0.7892	22.Percentage of CO ₂ & O ₂		CO2=5.6%
				$O_2 = 14.8\%$
23. To be compensated at (% if required)		12% CO ₂		
24.Initial wt of thimble (gm)	1.7945	25. Final wt of thimble (gm)	1.8110	
26.Wt, of PM (mg)	16.50	27.Particulate matter (mg/Nm³)		1.12% CO2
28.Barometric Pressure Head (mm of Hg)	754	29.Diameter of the nozzle	3/8"	
30. Others SO ₂ & NO _x		31. Thimble Number	5618	
Sampled by		Mr. R. Chakraborty, AEE		

26/11/24

Date of Reporting

Prepared by

Checked by

Signature of In-Charge, DRI.

Copy to:

- OSD Operation & Execution, WBPCB
- Chief Scientist, WBPCB 2.
- Env. Engineer (DRO) / Env. Engineer (ARO), WBPCB
- Industry

महाप्रवधक (पर्यावरण प्रवध ASM (Envirce). Mgml.)

WEST BENGAL POLLUTION CONTROL BOARD

Durgapur Regional Laboratory, Paribesh Bhawan, City Centre, Durgapur- 713 216

	Ana	vsis d	lone at	:
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	M/s. SAIL-IISCO Steel Plant,		
	P.O.: Burnpur, Paschim Bardhai	nan, W.I	3.
	Red & Integrated Steel Plant.		
	14.11.2024		
	42 min		
	M/s. Eco Care.		
	30.46		
n^2)	5.3114		
	Power Plant Unit-A (Boiler-B)		
	Combustion of Coal, Coke Over	Gas.	W.
ce (per month)	720 hrs/month.		
	Multi Cyclone		
	75 TPH		
	Coal, Coke Oven Gas		
	Coal-5.6 MT/hr. & CO Gas-2.5	Nm3/hr.	
	Boiler		
	158.0		
13.42	20. Volume of Flue gas drawn in	lit (m3)	1,008
0,7096	22.Percentage of CO ₂ & O ₂		CO2-10.8%
(DA) 1-1-34	The state of the s		O2=6.8%
	6% O ₂		
1.7476	25. Final wt of thimble (gm)	1.7553	
7.70	27.Particulate matter (mg/Nm³)	11.46 a	1 6% O2
753	29.Diameter of the nozzle	1/4"	
	31. Thimble Number	5621	
	Mr. A. Barman, AEE		
	13.42 0.7096	P.O.: Burnpur, Paschim Bardhan Red & Integrated Steel Plant. 14.11.2024 42 min M/s. Eco Care. 30.46 5.3114 Power Plant Unit-A (Boiler-B) Combustion of Coal, Coke Over 720 hrs/month. Multi Cyclone 75 TPH Coal, Coke Oven Gas - Coal-5.6 MT/hr. & CO Gas-2.5 Boiler 158.0 13.42 20.Volume of Flue gas drawn in 0,7096 22.Percentage of CO ₂ & O ₂ 6% O ₂ 1.7476 25.Final wt of thimble (gm) 7.70 27.Particulate matter (mg/Nm³) 753 29.Diameter of the nozzle 31. Thimble Number	P.O.: Burnpur, Paschim Bardhaman, W.I. Red & Integrated Steel Plant. 14.11.2024 42 min M/s. Eco Care. 30.46 5.3114 Power Plant Unit-A (Boiler-B) Combustion of Coal, Coke Oven Gas. 720 hrs/month, Multi Cyclone 75 TPH Coal, Coke Oven Gas - Coal-5.6 MT/hr. & CO Gas-2.5 Nm³/hr. Boiler 158.0 13.42 20.Volume of Flue gas drawn in fit (m³) 0,7096 22.Percentage of CO2 & O2 6% O2 1.7476 25.Final wt of thimble (gm) 1.7553 7.70 27.Particulate matter (mg/Nm³) 11.46 a 753 29.Diameter of the nozzle 1/4" 31. Thimble Number 5621

26/11/24

Date of Reporting

Prepared by

Checked by

26/11/2011

Signature of In-Charge, DRL

Copy to:

- OSD Operation & Execution, WBPCB
- Chief Scientist, WBPCB
- Env. Engineer (DRO) / Env. Engineer (ARO), WBPCB

प्रवधक (पर्यावरण प्रबध-(CAGIN TENVICEN, Mgmt.)
HA-SHE US. C., SAIL-ISP, BURNPUR



WEST BENGAL POLLUTION CONTROL BOARD

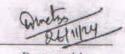
Durgapur Regional Laboratory, Paribesh Bhawan, City Centre, Durgapur-713 216

Analysis done at:

1. Name of Industry 2. Address 3. Category & Type 4. Sampling Date 5. Duration of Sampling 6. Name of Laboratory 7. Height of Stack from ground (m) 8. Cross section of Stack at sampling point (m²) M/s. SAIL-IISCO Steel Plant. P.O.: Burnpur, Paschim Bardhaman, W.B. Red & Integrated Steel Plant. 14.11.2024 42 min M/s. Eco Care. 0.9144 5.0
3.Category & Type Red & Integrated Steel Plant. 4.Sampling Date 14.11.2024 5.Duration of Sampling 42 min 6.Name of Laboratory M/s. Eco Care. 7.Height of Stack from ground (m) 0.9144
4. Sampling Date 14.11.2024 5. Duration of Sampling 42 min 6. Name of Laboratory M/s. Eco Care. 7. Height of Stack from ground (m) 0.9144
5. Duration of Sampling 42 min 6. Name of Laboratory M/s. Eco Care. 7. Height of Stack from ground (m) 0.9144
6. Name of Laboratory M/s. Eco Care. 7. Height of Stack from ground (m) 0.9144
7.Height of Stack from ground (m) 0.9144
8. Cross section of Stack at sampling point (m ²) 5.0
9.Stack connected to Boiler No.#02
10. Emission due to (Furnace / Boiler) Combustion of Mixed Gas & CO-Gas.
Average operational hours of boiler/furnace (per month) 720 hrs/month.
12.APC System (if any) NIL
13. Working load of source (MT/hr) 160 TPH
14. Fuel used Mixed Gas & CO-Gas
15.Rated Fuel consumption (Kg or 1/hr)
16. Working Fuel consumption (Kg or 1/hr) 11,70,000 M³/day.
17. Nature of furnace/boiler Boiler
18.Flue Gas Temp (°C) . 136.0
19. Flue gas velocity (m/s) 12.60 20. Volume of Flue gas drawn in lit (m ³) 1.008
21. Corrected flue gas volume (Nm³) 0.6968 22. Percentage of CO ₂ & O ₂ CO ₂ =14.4%
$O_2=6.60\%$
23. To be compensated at (% if required) 6% O ₂
24.Initial wt of thimble (gm) 1.7989 25.Final wt of thimble (gm) 1.8044
26.Wt. of PM (mg) 5.50 27.Particulate matter (mg/Nm³) 8.22 at 6% (O ₂
28.Barometric Pressure Head (mm of Hg) 753 29.Diameter of the nozzle
30. Others SO ₂ & NO ₃ 31. Thimble Number 5620
Sampled by Mr. A. Barman, AEE

26/11	24

Date of Reporting



Prepared by

Subboil 241/24

Checked by

Der 1/2014

Signature of In-Charge, DRL

Copy to:

- . OSD Operation & Execution, WBPCB
- 2. Chief Scientist, WBPCB
- 3. Env. Engineer (DRO) / Env. Engineer (ARO), WBPCB
- 4. Industry

२१/४/२/ सहायक महाप्रबंधक (पर्यावरण प्रबंधन AGM (Environ, Mgmt.) सैल-आई. एस. पी., बर्नप्र SAIL-ISP, BURNPUM

WEST BENGAL POLLUTION CONTROL BOARD

Durgapur Regional Laboratory, Paribesh Bhawan, City Centre, Durgapur- 713 216

		TW IN		
Analysis done at:		THE TAX AND DESCRIPTION OF THE PROPERTY OF THE		
1.Name of Industry		M/s. SAIL-ISP (Burnpur)		
2.Address		Burnpur, Paschim Bardhaman,	713325	
3.Category & Type		Red, Steel Plant		
4.Sampling Date		20.02.2025		
5.Duration of Sampling		32 min.		
6. Name of Laboratory		M/s. Envirocheck		
7. Height of Stack from ground (m)		70.0 m		
8. Cross section of Stack at sampling point (m^2)	12.5714 m ²		
9.Stack connected to		Blast Furnace-5 (Stove)		
10 Emission due to (Furnace / Boiler) Burning of Mixed Gas				
1-Average operational hours of boiler/furnace (per month)		720 hrs/month		
12.APC System (if any)		Dust Catcher & Venturi Scrubb	er	
13. Working load of source (MT/hr)		7700 MT/Day		
14. Fuel used		Mixed Gas		
15.Rated Fuel consumption (Kg or 1/hr)		535 Kg/thm		
16. Working Fuel consumption (Kg or 1/hr)		530 Kg/thm	and a second	
1.7. Nature of furnace/boiler		Blast Furnace-5 (Stove)		
18.Flue Gas Temp (°C)		81.85		
19.Flue gas velocity (m/s)	18.99	20. Volume of Flue gas drawn in		
21.Corrected flue gas volume (Nm3)	0.9591	22.Percentage of CO2 & O2	$CO_2 = 13.2\%$	
		4-6-6-6	O ₂ -4.6%	
23.To be compensated at (% if required)		*		
24.Initial wt of thimble (gm)	1.5730	25.Final wt of thimble (gm)	1.5799	
26. Wt. of PM (mg)	6.90	27. Particulate matter (mg/Nm³)	7.19	
28.Barometric Pressure Head (mm of Hg)	759	29. Diameter of the nozzle	6.35 mm	
3 th Others SO ₂ & NO _x		31. Thimble Number	5825	
Sampled by		Mr. R. Chakraborty, AEE		

04/03/25

Date of Reporting

Prepared by

Checked by

04/03/25

Signature of In-Charge, DRL

Copy to:

- OSD Operation & Execution, WBPCB
- Chief Scientist, WBPCB 2.
- Env. Engineer (DRO) / Env. Engineer (ARO), WBPCB 3.
- Industry

महायक महाप्रवंधक (पर्यावरण प्रवंधन AGM (Environ, Mgrnt.) सैल-आई. एस. पी., बर्नपुर

SAIL-ISP, BURNPUR

Identification Code: 2 1 0 2 2 0 2 5 1 0 3 4 4



WEST BENGAL POLLUTION CONTROL BOARD

Durgapur Regional Laboratory, Paribesh Bhawan, City Centre, Durgapur-713 216

(A)	-	Water Street,	-
Ana	VSIS	done	at:

23. To be compensated at (% if required) 24. Initial wt of thimble (gm) 25. Final wt of thimble (gm) 26. Wt. of PM (mg) 28. Barometric Pressure Head (mm of Hg) 27. Particulate matter (mg/Nm³) 29. Diameter of the nozzle 9.55 mm Others SO ₂ & NO _x 31. Thimble Number 5827	Analysis done at:				
3. Category & Type 4. Sampling Date 5. Duration of Sampling 6. Name of Laboratory 7. Height of Stack from ground (m) 8. Cross section of Stack at sampling point (m²) 9. Stack connected to 1º Emission due to (Furnace / Boiler) 1º Emission due to (Furnace / Boiler) 1º Average operational hours of boiler/furnace (per month) 12. APC System (if any) 13. Working load of source (MT/hr) 14. Fuel used 15. Rated Fuel consumption (Kg or 1/hr) 16. Working Fuel consumption (Kg or 1/hr) 17. Nature of furnace/boiler 18. Flue Gas Temp (°C) 19. Flue gas velocity (m/s) 21. Corrected flue gas volume (Nm³) 22. Percentage of CO ₂ & O ₂ CO ₂ =12.4% (O ₂ =7.2% 23. To be compensated at (% if required) 24. Initial wt of thimble (gm) 25. Final wt of thimble (gm) 26. Wt. of PM (mg) 27. System 29. Diameter of the nozzle 29. 55 mm Cothers SO ₂ & NO ₈ 31. Thimble Number 5827	1. Name of Industry		M/s. SAIL-ISP (Burnpur)		
4. Sampling Date 5. Duration of Sampling 6. Name of Laboratory 7. Height of Stack from ground (m) 8. Cross section of Stack at sampling point (m²) 9. Stack connected to 1/2 Emission due to (Furnace / Boiler) 1/3 Emission due to (Furnace / Boiler) 1/4 Emission due to (Furnace / Boiler) 1/5 Emission due to (Furnace / Boiler) 1/6 Emission due to (Furnace / Boiler) 1/7 Emission due to (Furnace / Boiler No-01 1/7 Emission due to (Furnace / Boiler) 1/7 Emission due to (Furnace / Boiler No-01 1/7 Emission due to (Furnace / Boiler) 1/7 Emission due to (Furnace / Boiler No-01 1/7 Emission due to (Furnace / Boiler No-01 1/7 Emission due to (Fur	2. Address		Burnpur, Paschim Bardhaman		
5. Duration of Sampling 6. Name of Laboratory 7. Height of Stack from ground (m) 7. Cross section of Stack at sampling point (m²) 9. Stack connected to 10° Emission due to (Furnace / Boiler) 11° Emission due to (Furnace / Boiler) 12° Average operational hours of boiler/furnace (per month) 13° Other Mixed Gas & CO Gas 15° Average of Co Gas 15° Aver	3.Category & Type		Red, Steel Plant		
6. Name of Laboratory 7. Height of Stack from ground (m) 7.0.0 m 8. Cross section of Stack at sampling point (m²) 7.065 m² 9. Stack connected to Possible of Emission due to (Furnace / Boiler) 17. Average operational hours of boiler/furnace (per month) 12. APC System (if any) 13. Working load of source (MT/hr) 14. Fuel used 15. Rated Fuel consumption (Kg or 1/hr) 16. Working Fuel consumption (Kg or 1/hr) 17. Nature of furnace/boiler 18. Flue Gas Temp (°C) 18. Flue gas velocity (m/s) 12. To 20. Volume of Flue gas drawn in lit (m³) 1.008 21. Corrected flue gas volume (Nm³) 22. Percentage of CO ₂ & O ₂ CO ₂ =12.4% O ₂ =7.2% 23. To be compensated at (% if required) 24. Initial wt of thimble (gm) 1.5972 25. Final wt of thimble (gm) 1.6035 26. Wt. of PM (mg) 6.30 27. Particulate matter (mg/Nm³) 7.08 at 6% O ₂ 28. Barometric Pressure Head (mm of Hg) 759 29. Diameter of the nozzle 9.55 mm Others SO ₂ & NO ₈ 31. Thimble Number 5827	4. Sampling Date		21.02.2025		
7. Height of Stack from ground (m) 8. Cross section of Stack at sampling point (m²) 9. Stack connected to 1º Emission due to (Furnace / Boiler) 1º Emission due to (Furnace / Boiler) 12. APC System (if any) 13. Working load of source (MT/hr) 14. Fuel used 15. Rated Fuel consumption (Kg or 1/hr) 16. Working Fuel consumption (Kg or 1/hr) 17. Nature of furnace/boiler 18. Flue Gas Temp (°C) 19. Flue gas velocity (m/s) 21. Corrected flue gas volume (Nm³) 22. Percentage of CO ₂ & O ₂ CO ₂ =12.4% O ₂ =7.2% 23. To be compensated at (% if required) 24. Initial wt of thimble (gm) 1.5972 25. Final wt of thimble (gm) 1.6035 26. Wt. of PM (mg) 6,30 27. Particulate matter (mg/Nm³) 7.08 at 6% O ₂ 28. Barometric Pressure Head (mm of Hg) 759 29. Diameter of the nozzle 9.55 mm Others SO ₂ & NO ₈ 31. Thimble Number 5827			24 min		
8.Cross section of Stack at sampling point (m²) 9.Stack connected to 1º Emission due to (Furnace / Boiler) 1:Average operational hours of boiler/furnace (per month) 12.APC System (if any) 13. Working load of source (MT/hr) 14. Fuel used 15.Rated Fuel consumption (Kg or 1/hr) 16. Working Fuel consumption (Kg or 1/hr) 17. Nature of furnace/boiler 18. Flue Gas Temp (°C) 19. Flue gas velocity (m/s) 21. Corrected flue gas volume (Nm³) 22. Percentage of CO ₂ & O ₂ CO ₂ =12.4% O ₂ =7.2% 23. To be compensated at (% if required) 24. Initial wt of thimble (gm) 25. Final wt of thimble (gm) 26. Wt. of PM (mg) 27. Data to the mozele 28. Barometric Pressure Head (mm of Hg) 30. Thimble Number 5827	The state of the s		M/s. Envirocheck		
9.Stack connected to 1º Emission due to (Furnace / Boiler) 1r.Average operational hours of boiler/furnace (per month) 12.APC System (if any) 13. Working load of søurce (MT/hr) 14. Fuel used 15.Rated Fuel consumption (Kg or 1/hr) 16. Working Fuel consumption (Kg or 1/hr) 17. Nature of furnace/boiler 18. Flue Gas Temp (°C) 19. Flue gas velocity (m/s) 12.70 12. Corrected flue gas volume (Nm³) 12.70 20. Volume of Flue gas drawn in lit (m³) 1.008 21. Corrected flue gas volume (Nm³) 22. Percentage of CO ₂ & O ₂ CO ₂ =12.4% (O ₂ =7.2%) 23. To be compensated at (% if required) 24. Initial wt of thimble (gm) 1.5972 25. Final wt of thimble (gm) 1.6035 26. Wt. of PM (mg) 28. Barometric Pressure Head (mm of Hg) 759 29. Diameter of the nozzle 9.55 mm Others SO ₂ & NO ₈ 31. Thimble Number 5827	7. Height of Stack from ground (m)		70.0 m		
Procession due to (Furnace / Boiler)	8. Cross section of Stack at sampling point (m^2)	7.065 m^2		
17-Average operational hours of boiler/furnace (per month) 12.APC System (if any)			Boiler No-01		
12.APC System (if any) 13. Working load of source (MT/hr) 130 TPH 14. Fuel used Mixed Gas & CO Gas 15. Rated Fuel consumption (Kg or 1 /hr) 100000 Nm³/hr. 17. Nature of furnace/boiler Boiler No01 18. Flue Gas Temp (°C) 144.42 19. Flue gas velocity (m/s) 12.70 20. Volume of Flue gas drawn in lit (m³) 1.008 21. Corrected flue gas volume (Nm³) 0.9671 22. Percentage of CO ₂ & O ₂ CO ₂ =12.4% 1. System (if any) 1.5972 25. Final wt of thimble (gm) 1.6035 26. Wt. of PM (mg) 6.30 27. Particulate matter (mg/Nm³) 7.08 at 6% O ₂ 28. Barometric Pressure Head (mm of Hg) 759 29. Diameter of the nozzle 9.55 mm Others SO ₂ & NO ₈ 31. Thimble Number 5827	1º Emission due to (Furnace / Boiler)		Mixed Gas & CO Gas		
13. Working load of source (MT/hr)	17. Average operational hours of boiler/furn	ace (per month)	720 hrs/month		
14. Fuel used Mixed Gas & CO Gas 15. Rated Fuel consumption (Kg or 1/hr) - 16. Working Fuel consumption (Kg or 1/hr) 100000 Nm³/hr. 17. Nature of furnace/boiler Boiler No01 18. Flue Gas Temp (°C) 144.42 19. Flue gas velocity (m/s) 12.70 20. Volume of Flue gas drawn in lit (m³) 1.008 21. Corrected flue gas volume (Nm³) 0.9671 22. Percentage of CO2 & O2 CO2=12.4% O2=7.2%	12.APC System (if any)				
15. Rated Fuel consumption (Kg or 1/hr)	13. Working load of source (MT/hr)		130 TPH		
16. Working Fuel consumption (Kg or 1/hr) 100000 Nm³/hr. 17. Nature of furnace/boiler Boiler No01 18. Flue Gas Temp (°C) 144.42 19. Flue gas velocity (m/s) 12.70 20. Volume of Flue gas drawn in lit (m³) 1.008 21. Corrected flue gas volume (Nm³) 0.9671 22. Percentage of CO2 & O2 CO2=12.4% (O2=7.2% (14. Fuel used		Mixed Gas & CO Gas		
17. Nature of furnace/boiler 18. Flue Gas Temp (°C) 144.42 19. Flue gas velocity (m/s) 21. Corrected flue gas volume (Nm³) 23. To be compensated at (% if required) 24. Initial wt of thimble (gm) 26. Wt. of PM (mg) 28. Barometric Pressure Head (mm of Hg) 17. Nature of furnace/boiler 144.42 20. Volume of Flue gas drawn in lit (m³) 20. Volume of Flue gas	15. Rated Fuel consumption (Kg or 1/hr)		★ V		
18. Flue Gas Temp (°C) 144.42 19. Flue gas velocity (m/s) 12.70 20. Volume of Flue gas drawn in lit (m³) 1.008 21. Corrected flue gas volume (Nm³) 0.9671 22. Percentage of CO2 & O2 CO2=12.4% 23. To be compensated at (% if required) 6% O2 24. Initial wt of thimble (gm) 1.5972 25. Final wt of thimble (gm) 1.6035 26. Wt. of PM (mg) 6.30 27. Particulate matter (mg/Nm³) 7.08 at 6% O2 28. Barometric Pressure Head (mm of Hg) 759 29. Diameter of the nozzle 9.55 mm Others SO2 & NOx 31. Thimble Number 5827	16. Working Fuel consumption (Kg or 1/hr)		100000 Nm ³ /hr.		
19.Flue gas velocity (m/s) 21.Corrected flue gas volume (Nm³) 22.Percentage of CO ₂ & O ₂ 23.To be compensated at (% if required) 24.Initial wt of thimble (gm) 26.Wt. of PM (mg) 28.Barometric Pressure Head (mm of Hg) 12.70 20.Volume of Flue gas drawn in lit (m³) 1.008 22.Percentage of CO ₂ & O ₂ CO ₂ =12.4% O ₂ =7.2% 25.Final wt of thimble (gm) 1.6035 27.Particulate matter (mg/Nm³) 7.08 at 6% O ₂ 28.Barometric Pressure Head (mm of Hg) 29.Diameter of the nozzle 9.55 mm 1 Others SO ₂ & NO ₈ 31. Thimble Number 5827	17. Nature of furnace/boiler		Boiler No01		
21. Corrected flue gas volume (Nm³) 0.9671 22. Percentage of $CO_2 \& O_2$ $CO_2=12.4\%$ $O_2=7.2\%$ 23. To be compensated at (% if required) 6% O_2 24. Initial wt of thimble (gm) 1.5972 25. Final wt of thimble (gm) 1.6035 26. Wt. of PM (mg) 6.30 27. Particulate matter (mg/Nm³) 7.08 at 6% O_2 28. Barometric Pressure Head (mm of Hg) 759 29. Diameter of the nozzle 9.55 mm 1.0 thers $SO_2 \& NO_X$ 31. Thimble Number 5827	18.Flue Gas Temp (°C)		144.42		
21.Corrected flue gas volume (Nm³) 0.9671 22.Percentage of $CO_2 \& O_2$ $CO_2=12.4\%$ 23. To be compensated at (% if required) 6% O_2 24.Initial wt of thimble (gm) 1.5972 25.Final wt of thimble (gm) 1.6035 26.Wt. of PM (mg) 6.30 27.Particulate matter (mg/Nm³) 7.08 at 6% O_2 28.Barometric Pressure Head (mm of Hg) 759 29.Diameter of the nozzle 9.55 mm 1 Others $SO_2 \& NO_X$ 31. Thimble Number 5827	19.Flue gas velocity (m/s)	12.70	20. Volume of Flue gas drawn in	lit (m ³)	1.008
23. To be compensated at (% if required) 24. Initial wt of thimble (gm) 26. Wt. of PM (mg) 28. Barometric Pressure Head (mm of Hg) Others SO ₂ & NO _x 6% O ₂ 25. Final wt of thimble (gm) 1.6035 27. Particulate matter (mg/Nm³) 7.08 at 6% O ₂ 29. Diameter of the nozzle 9.55 mm 31. Thimble Number 5827	21. Corrected flue gas volume (Nm3)	0.9671			CO2=12.4%
24.Initial wt of thimble (gm) 1.5972 25.Final wt of thimble (gm) 1.6035 26.Wt. of PM (mg) 6.30 27.Particulate matter (mg/Nm³) 7.08 at 6% O ₂ 28.Barometric Pressure Head (mm of Hg) 759 29.Diameter of the nozzle 9.55 mm 1.5972 31. Thimble Number 5827					O2=7.2%
26.Wt. of PM (mg) 28.Barometric Pressure Head (mm of Hg) 29.Diameter of the nozzle 29.Diameter of the nozzle 31. Thimble Number 5827	23. To be compensated at (% if required)		6% O ₂		
28.Barometric Pressure Head (mm of Hg) 759 29.Diameter of the nozzle 9.55 mm Others SO ₂ & NO _x 31. Thimble Number 5827	24.Initial wt of thimble (gm)	1.5972	25. Final wt of thimble (gm)	1.6035	
Others SO ₂ & NO _x 31. Thimble Number 5827		6.30	27.Particulate matter (mg/Nm3)	7.08 at	6% O2
	28.Barometric Pressure Head (mm of Hg)	759	29. Diameter of the nozzle	9.55 mi	m
32 Sampled by Mr A Rarman AFF				5827	
Mi. A. Darman, ALL.	32. Sampled by		Mr. A. Barman, AEE		

04/03/25 Date of Reporting Prepared by

04/03/25

Checked by

Signature of In-Charge, DRL

Copy to:

- OSD Operation & Execution, WBPCB
- Chief Scientist, WBPCB
- 3. Env. Engineer (DRO) / Env. Engineer (ARO), WBPCB
- Industry

29/1 महाप्रविधक (पर्यावरण प्रबधन AGM (Environ, Mgmt.) सैल-आई. एस. पी., बर्नपुर SAIL-ISP BURNPUR

Identification Code: 2 1 0 2 2 0 2 5 1 0 3 4 5

WEST BENGAL POLLUTION CONTROL BOARD

Durgapur Regional Laboratory, Paribesh Bhawan, City Centre, Durgapur- 713 216

Anal	veis	done	at:
TARREST.	CALCO I	MANAGE	44.4

Analysis done at:			
1.Name of Industry		M/s. SAIL-ISP (Burnpur)	
2.Address		Burnpur, Paschim Bardhaman	
3.Category & Type		Red, Steel Plant	
4. Sampling Date		21.02.2025	
5. Duration of Sampling		36 min	
6. Name of Laboratory		M/s. Envirocheck	
7. Height of Stack from ground (m)		85.0 m	
8. Cross section of Stack at sampling point ((m^2)	25.50 m ²	
9.Stack connected to	N. V. C. S. C.	Sinter Plant-01	
1º Emission due to (Furnace / Boiler)		Combustion of Coke Oven Gas	
1 Average operational hours of boiler/furr	ace (per month)	720 hrs/month	
12.APC System (if any)		ESP	
13. Working load of source (MT/hr)		5886 MT/hr.	
14. Fuel used		Coke Oven Gas	
15.Rated Fuel consumption (Kg or 1/hr)			
16. Working Fuel consumption (Kg or 1/hr)		6000 m ³ /hr.	
17. Nature of furnace/boiler		Sinter Plant01	
18.Flue Gas Temp (°C)		106.60	
19.Flue gas velocity (m/s)	17.84	20. Volume of Flue gas drawn in	lit (m ³) 1.008
21.Corrected flue gas volume (Nm ³)	0.9409	22.Percentage of CO ₂ & O ₂	CO ₂ =7.2% O ₂ =12.6%
23. To be compensated at (% if required)			
24.Initial wt of thimble (gm)	1.6507	25. Final wt of thimble (gm)	1.6807
26.Wt. of PM (mg)	30.0	27.Particulate matter (mg/Nm3)	31.88
28.Barometric Pressure Head (mm of Hg)	759	29.Diameter of the nozzle	6.35 mm
? Others -		31. Thimble Number	5828
32. Sampled by		Mr. A. Barman, AEE	
The second of the second secon			. (

04/03/25

Date of Reporting

Prepared by

Checked by

Signature of In-Charge, DRL

Copy to:

- OSD Operation & Execution, WBPCB
- Chief Scientist, WBPCB
- Env. Engineer (DRO) / Env. Engineer (ARO), WBPCB 3.
- 4. Industry

सहायक महाप्रवेधक (प्रवादरण प्रवध-AGM (Environ, Mgmt.) सल-आई. एस. पी., बर्नपुर SAIL-ISP. BURNPUR



- Eco Care

Phone: (0341) 2252011

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Manoj Talkies Basement, Kumarpur Asansol - 713304

Dist. Paschim Bardhaman (W.B.)

Specialised House on Environmental Monitoring, Analysis, Assessment & Management ISO 9001:2015 Certified, OHSAS 45001:2018 Certified

TEST REPORT

Report Release Date	: 28.10.2024	Sample Ref. No.(ARF)	: EC/ARF/29/241009
Test Report No	: EC/TR/42/10009	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 25.10.2024
Sample Collected by	: Mr. Sisir Kr. Roy & Team	Sample Registration Date	: 26.10.2024
Sample Details	: Stack Emission	Period of Analysis	: 26.10.2024
Customer Name &	: SAIL - IISCO Steel Plant	Sampling Location	: Bag Filter Stack
Address	P.O. – Burnpur	Sample Condition	: Sealed
	Dist - Paschim Barddhaman	Sample Stamped as	: TH - 80
	West Bengal	Sample Drawn By	: ECO CARE
	11 341 2 31 811	Sampling Procedure	: EC/SOP/03/01
		Remarks	:
		Deviation if any	: None

TENERAL INFORMATION TROVIDED DI COSTONIE	DRMATION PROVIDED BY CUSTON	IER
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1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Process Activity
3	Stack Connected to	: Lime Dolomite Calcinations Unit No. 1 (LDCP - 1)
4	Material of Construction	: M.S
5	Stack Height from G.L.	: 31.00 m
6	Height of Sampling Port from G.L.	: 20.00 m
7	Height of Sampling Port from L.D.Z.	(
8	Dimension of Stack at Sampling Port	: 1.0 m
9	Shape of the Stack	: Circular Ø
10	Working Load	(· · · · · · · · · · · · · · · · · · ·

FUEL CHARACTERISTIC REPORT

1	Source of Energy	1
2	Energy Consumption	
2	Calorific Value (K-Cal/Ko)	

	RESULTS OF SAMPLING GASEOUS EMISS	SION ANALYSIS	UNIT	METHOD
1	Flue Gas Temperature	67	°C	IS 11255 : Part 3
2	Barometric Pressure	753	mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	7.60	m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	18674	NM ³ /hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	38.55	mg/NM ³	IS 11255 : Part 1

1. Test values are reported based on the samples received.

Sample(s) will be destroyed after 30 days from date of issues of the Test Report subject to nature of Preservation. Sample will be preserved as per the standard method.

3. The Test report shall not be reproduced, without the written approval of laboratory

End of Test Report

Authorised Signatory

Dr. Mousumi Pal Ph.D.(Env.); Scientist Authorised Signatory

i Pal selentist (L. Pa) महायक महायक प्रवाधक (पर्यावरण प्रवधक

AGM (Environ, Mgmt.) मैल-आई. एस. पी., बर्नपुर SAIL-ISP, BURNPUR





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Manoj Talkies Basement, Kumarpur Asansol - 713304

Dist. Paschim Bardhaman (W.B.)

Specialised House on Environmental Monitoring, Analysis, Assessment & Management ISO 9001:2015 Certified, OHSAS 45001:2018 Certified

TEST REPORT

Report Release Date	: 28.10.2024	Sample Ref. No.(ARF)	: EC/ARF/29/241009
Test Report No	: EC/TR/42/10011	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 25.10.2024
Sample Collected by	: Mr. Sisir Kr. Roy & Team	Sample Registration Date	: 26.10.2024
Sample Details	: Stack Emission	Period of Analysis	: 26.10.2024
Customer Name &	: SAIL - IISCO Steel Plant	Sampling Location	: Bag Filter Stack
Address	P.O. – Burnpur	Sample Condition	: Sealed
	Dist - Paschim Barddhaman	Sample Stamped as	: TH - 82
	West Bengal	Sample Drawn By	: ECO CARE
	7	Sampling Procedure	: EC/SOP/03/01
		Remarks	
		Deviation if any	: None

1	Particular of the Plant	; Integrated Steel Plant
2	Emission Due to	: Process Activity
3	Stack Connected to	: Lime Dolomite Calcinations Unit No. 3 (LDCP - 3
4	Material of Construction	: M.S
5	Stack Height from G.L.	: 31.00 m
6	Height of Sampling Port from G.L.	: 20.00 m
7	Height of Sampling Port from L.D.Z.	·
8	Dimension of Stack at Sampling Port	: 1.0 m
9	Shape of the Stack	: Circular Ø
10	Working Load]
FU	EL CHARACTERISTIC REPORT	The state of the s
1	Source of Energy	1. www
2	Energy Consumption	\$ mana
3	Calorific Value (K-Cal/Kg)	**************************************

	RESULTS OF SAMPLING GASEOUS EMISS	SION ANALYSIS	UNIT	METHOD
1	Flue Gas Temperature	72	°C	IS 11255 : Part 3
2	Barometric Pressure	753	mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	7.98	m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	19327	NM ³ /hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	45.72	mg/NM ³	IS 11255 : Part 1

1. Test values are reported based on the samples received.

Sample(s) will be destroyed after 30 days from date of issues of the Test Report subject to nature of Preservation. Sample will be preserved as per the standard method.

3. The Test report shall not be reproduced, without the written approval of laboratory

End of Test Report

Authorised Signatory

Dr. Mousumi Pal Ph.D.(Env.), Scientist Authorised Signatory Affin (A. (R. Pa)

सहायक महाप्रवेधक (पर्यावरण प्रवधन

AGM (Environ: Mgmt.) सैल-आई. एन. पी., कर्नपुर SAIL-JSP, BURNPUR





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Manoj Talkies Basement, Kumarpur Asansol - 713304

Dist. Paschim Bardhaman (W.B.)

Specialised House on Environmental Monitoring, Analysis, Assessment & Management ISO 9001:2015 Certified, OHSAS 45001:2018 Certified

TEST REPORT

Report Release Date	: 28.10.2024	Sample Ref. No.(ARF)	: EC/ARF/29/241009
Test Report No	: EC/TR/42/10012	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 25.10.2024
Sample Collected by	: Mr. Sisir Kr. Roy & Team	Sample Registration Date	: 26.10.2024
Sample Details	: Stack Emission	Period of Analysis	: 26.10.2024
Customer Name &	: SAIL - IISCO Steel Plant	Sampling Location	: Bag Filter Stack
Address	P.O. – Burnpur	Sample Condition	: Sealed
	Dist - Paschim Barddhaman	Sample Stamped as	: TH - 83
	West Bengal	Sample Drawn By	: ECO CARE
		Sampling Procedure	: EC/SOP/03/01
		Remarks	****
		Deviation if any	: None

1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Process Activity
3	Stack Connected to	: Lime Dolomite Calcinations Unit No. 4 (LDCP - 4)
4	Material of Construction	: M.S
5	Stack Height from G.L.	: 31.00 m
6	Height of Sampling Port from G.L.	: 20.00 m
7	Height of Sampling Port from L.D.Z.	
8	Dimension of Stack at Sampling Port	: 1.0 m
9	Shape of the Stack	: Circular Ø
10	Working Load	
FU	EL CHARACTERISTIC REPORT	
1	Source of Energy	- Comment
2	Energy Consumption	4

	RESULTS OF SAMPLING GASEOUS EMISS	SION ANALYSIS	UNIT	METHOD
1	Flue Gas Temperature	70	°C	IS 11255 : Part 3
2	Barometric Pressure	753	mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	7.78	m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	18966	NM ³ / hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	47.08	mg/NM ³	IS 11255 : Part 1

1. Test values are reported based on the samples received.

Calorific Value (K-Cal/Kg)

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End of Test Report

Authorised Signatory

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TEST REPORT

Report Release Date	: 29.10.2024	Sample Ref. No.(ARF)	: EC/ARF/29/241010
Test Report No	: EC/TR/42/10013	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 26.10.2024
Sample Collected by	: Mr. Sisir Kr. Roy & Team	Sample Registration Date	: 28.10.2024
Sample Details	: Stack Emission	Period of Analysis	: 28.10.2024
Customer Name &	: SAIL - IISCO Steel Plant	Sampling Location	: Furnace Stack
Address	P.O. – Burnpur	Sample Condition	: Sealed & Preserved
	Dist - Paschim Barddhaman	Sample Stamped as	: TH - 84
	West Bengal	Sample Drawn By	: ECO CARE
		Sampling Procedure	: EC/SOP/03/01
		Remarks	†
		Deviation if any	: None

GENERAL INFORMATION PROVIDED BY CUSTOMER

1	Particular of the Plant	: Integrated Steel Plant	
2	Emission Due to	: Burning of Mixed Gas	
3	Stack Connected to	: Reheating Furnace (Bar Mill)	
4	Material of Construction	: M.S	
5	Stack Height from G.L.	: 65.00 m	
6	Height of Sampling Port from G.L.		
7	Height of Sampling Port from L.D.Z.	The state of the s	
8	Dimension of Stack at Sampling Port	: 3.02 m	
9	Shape of the Stack	: Circular Ó	
10	Working Load	: 88.84 MT/hr	

FUEL CHARACTERISTIC REPORT

1	Source of Energy	: CBM & BF Gas	
2	Energy Consumption	: 10.754 M ³ /hr	
3	Calorific Value (K-Cal/Kg)	;	

	RESULTS OF SAMPLING GASEOUS EMISS	SION ANALYSIS	UNIT	-METHOD
1	Flue Gas Temperature	392	°C	IS 11255 : Part 3
2	Barometric Pressure	755	mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	10.56	m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	120855	NM ³ /hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	12.27	mg/NM3	IS 11255 : Part 1
6	Concentration of SO ₂	64.38	mg/NM ³	IS 11255 : Part 2

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End of Test Report

Authorised Signatory

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TEST REPORT

Report Release Date	: 29.10.2024	Sample Ref. No (ARF)	: EC/ARF/29/241010
Test Report No	: EC/TR/42/10014	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 26.10.2024
Sample Collected by	: Mr. Sisir Kr. Roy & Team	Sample Registration Date	: 28.10.2024
Sample Details	: Stack Emission	Period of Analysis	: 28.10.2024
Customer Name &	: SAIL - IISCO Steel Plant	Sampling Location	: Furnace Stack
Address	P.O. – Burnpur	Sample Condition	: Sealed & Preserved
	Dist - Paschim Barddhaman	Sample Stamped as	: TH - 85-
	West Bengal	Sample Drawn By	: ECO CARE
		Sampling Procedure	: EC/SOP/03/01
		Remarks	
		Deviation if any	: None

GENERAL INFORMATION PROVIDED BY CUSTOMER

1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Burning of Mixed Gas
3	Stack Connected to	: Reheating Furnace (W.R.M)
4	Material of Construction	: M.S
5	Stack Height from G.L.	: 65.00 m
6	Height of Sampling Port from G.L.	4
7	Height of Sampling Port from L.D.Z.	COLUMN TO THE RESIDENCE OF THE PARTY OF THE
8	Dimension of Stack at Sampling Port	: 3.02 m
9	Shape of the Stack	: Circular Ø
10	Working Load	: 49.53 MT/hr

FUEL CHARACTERISTIC REPORT

1	Source of Energy	: CBM & BF Gas
2	Energy Consumption	: 10.754 M³/hr
3	Calorific Value (K-Cal/Kg)	

	RESULTS OF SAMPLING GASEOUS EMISS	SION ANALYSIS	UNIT .	METHOD
1	Flue Gas Temperature	296	°C	IS 11255 : Part 3
2	Barometric Pressure	755	mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	7.22	m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	92672	NM ³ /hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	9.58	mg/NM ³	IS 11255 : Part 1
6	Concentration of SO ₂	78.54	mg/NM ³	IS 11255 : Part 2

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End of Test Report

Authorised Signatory

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TEST REPORT

Report Release Date Test Report No Type of Sample Sample Collected by Sample Details Customer Name & Address	: 29.10.2024 : EC/TR/42/10015 : Dust & Gaseous Emission : Mr. Sisir Kr. Roy & Team : Stack Emission : SAIL - IISCO Steel Plant P.O Burnpur Dist - Paschim Barddhaman West Bengal	Sample Ref. No.(ARF) Source of Sample Sampling Date Sample Registration Date Period of Analysis Sampling Location Sample Condition Sample Stamped as Sample Drawn By Sampling Procedure Remarks	: EC/ARF/29/241010 : Integrated Steel Plant : 26.10.2024 : 28.10.2024 : 28.10.2024 : Furnace Stack : Sealed & Preserved : TH – 86 : ECO CARE : EC/SOP/03/01

GENERAL	INFORMATI	ON PRO	VIDED	BY	CUSTOMER
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1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Burning of Mixed Gas
3	Stack Connected to	: Reheating Furnace (USM)
4	Material of Construction	: M.S
5	Stack Height from G.L.	: 65.00 m
6	Height of Sampling Port from G.L.	:
7	Height of Sampling Port from L.D.Z.	
8	Dimension of Stack at Sampling Port	: 3.02 m
9	Shape of the Stack	: Circular Ø
10	Working Load	: 23.79 MT/hr

FUEL CHARACTERISTIC REPORT

1	Source of Energy	: CBM & BF Gas	
2	Energy Consumption	: 10.754 M³/hr	
3	Calorific Value (K-Cal/Kg)	, 10.754 W /III	
1000	(it Can (5)	A STATE OF THE STA	12

1	RESULTS OF SAMPLING GASEOUS EMIS	SION ANALYSIS	UNIT	METHOD
2	Flue Gas Temperature	176	°C	IS 11255 : Part 3
2	Barometric Pressure	755	mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	10.46	m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	177356	NM³/hr	
5	Concentration of Particulate Matter	11.25		IS 11255 : Part 3
6	Concentration of SO ₂	45.50	mg/NM ³ mg/NM ³	IS 11255 : Part 1 IS 11255 : Part 2

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End of Test Report

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TEST REPORT

st Report No pe of Sample mple Collected by mple Details stomer Name & dress : EC/TR/42/10016 : Dust & Gaseous Emission : Mr. Sisir Kr. Roy & Team : Stack Emission : SAIL - IISCO Steel Plant P.O Burnpur Dist - Paschim Barddhaman West Bengal	Sample Ref. No.(ARF) Source of Sample Sampling Date Sample Registration Date Period of Analysis Sampling Location Sample Condition Sample Stamped as Sample Drawn By Sampling Procedure Remarks Deviation if any	: EC/ARF/29/241010 : Integrated Steel Plant : 26.10.2024 : 28.10.2024 : 28.10.2024 : Coke Oven Stack : Sealed & Preserved : TH – 87 : ECO CARE : EC/SOP/03/01
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GENERAL INFORMATION	PROVIDED BY CUSTOMER
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1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Process Activity
3	Stack Connected to	: Coke Oven Battery No. # 10
4	Material of Construction	:R.C.C
5	Stack Height from G.L.	: 110.0 m
6	Height of Sampling Port from G.L.	: 28.0 m
7	Height of Sampling Port from L.D.Z.	- Manage
8	Dimension of Stack at Sampling Port	: 3.5 m
9	Shape of the Stack	: Circular Ø
10	Working Load	: 35 MT/hr
FII	EL CHARACTERISTIC DEPORT	and the second s

FUEL CHARACTERISTIC REPORT

1	Source of Energy	: Coke Oven Gas
2	Energy Consumption	: 9500 M ³ /hr
3	Calorific Value (K-Cal/Kg)	:

4	RESULTS OF SAMPLING GASEOUS EMIS	SION ANALYSIS	UNIT	METHOD
1	Flue Gas Temperature	156	°C	IS 11255 : Part 3
2	Barometric Pressure	755	mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	8.99	m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	215272	NM ³ /hr	
5	Concentration of Particulate Matter	37.18		IS 11255 : Part 3
6	Concentration of SO ₂		mg/NM ³	IS 11255 : Part 1
7	Concentration of NO _x	126.31	mg/NM ³	IS 11255 : Part 2
•	Concentration of NOx	87.63	mg/NM ³	IS 11255 : Part 7

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End of Test Report

Authorised Signatory

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TEST REPORT

Report Release Date	: 04.11.2024	Sample Ref. No.(ARF)	: EC/ARF/29/241101
Test Report No	: EC/TR/42/11001	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 30.10.2024
Sample Collected by	: Mr. Sisir Kr. Roy & Team	Sample Registration Date	: 02.11.2024
Sample Details	: Stack Emission	Period of Analysis	: 02.11.2024
Customer Name &	: SAIL - IISCO Steel Plant	Sampling Location	: ESP Stack
Address	P.O Burnpur	Sample Condition	: Sealed
	Dist - Paschim Barddhaman	Sample Stamped as	:TH-88
	West Bengal	Sample Drawn By	: ECO CARE
		Sampling Procedure	
		Remarks	: EC/SOP/03/01
		Deviation if any	:
			: None

GENERAL INFORMATION PROVIDED BY CUSTOMER

GE	MERAL INFORMATION I ROVIDED	DI COSTONIER
1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Process Activity
3	Stack Connected to	: BF # 05 (Cast House No. 01)
4	Material of Construction	: M.S
5	Stack Height from G.L.	; 31.00 m
6	Height of Sampling Port from G.L.	: 20.00 m
7	Height of Sampling Port from L.D.Z.	
8	Dimension of Stack at Sampling Port	: 3.85 m
9	Shape of the Stack	: Circular Ø
10	Working Load	: 720 MT/hr

FUEL CHARACTERISTIC REPORT

1	Source of Energy			
2	Energy Consumption			
3	Calorific Value (K-Cal/Kg)	3	1	

	RESULTS OF SAMPLING GASEOUS EMIS	SION ANALYSIS	UNIT	METHOD
1	Flue Gas Temperature	77	°C	IS 11255 : Part 3
2	Barometric Pressure	755	mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	12.66	m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	449348	NM ³ /hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	43.17	mg/NM ³	IS 11255 : Part I

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TEST REPORT

Report Release Date	: 04.11.2024	Sample Ref. No.(ARF)	: EC/ARF/29/241101
Test Report No	: EC/TR/42/11002	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 30.10.2024
Sample Collected by	: Mr. Sisir Kr. Roy & Team	Sample Registration Date	: 02.11.2024
Sample Details	: Stack Emission	Period of Analysis	: 02.11.2024
Customer Name &	: SAIL - IISCO Steel Plant	Sampling Location	: ESP Stack
Address	P.O. – Burnpur	Sample Condition	: Sealed
	Dist - Paschim Barddhaman	Sample Stamped as	: TH - 89
	West Bengal	Sample Drawn By	: ECO CARE
		Sampling Procedure	
		Remarks	: EC/SOP/03/01
		Deviation if any	;
			: None

GENERAL INFORMATION PROVIDED BY CUSTOMER

1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Process Activity
3	Stack Connected to	: BF # 05 (Cast House No. 02)
4	Material of Construction	: M.S
5	Stack Height from G.L.	: 31.00 m
6	Height of Sampling Port from G.L.	: 20.00 m
7	Height of Sampling Port from L.D.Z.	;
8	Dimension of Stack at Sampling Port	: 3.85 m
9	Shape of the Stack	: Circular Ø
10	Working Load	: 720 MT/hr

FUEL CHARACTERISTIC REPORT

1	Source of Energy	ţ	
2	Energy Consumption	2	
3	Calorific Value (K-Cal/Kg)	· · · · · · · · · · · · · · · · · · ·	

	RESULTS OF SAMPLING GASEOUS EMIS	SION ANALYSIS	UNIT	METHOD
1	Flue Gas Temperature	82	°C	IS 11255 : Part 3
2	Barometric Pressure	755	mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	13.47	m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	471175	NM ³ /hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	36.62	mg/NM ³	IS 11255 : Part 1

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End of Test Report

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TEST REPORT

Report Release Date Test Report No Type of Sample Sample Collected by Sample Details Customer Name & Address	: 04.11.2024 : EC/TR/42/11003 : Dust & Gaseous Emission : Mr. Sisir Kr. Roy & Team : Stack Emission : SAIL - IISCO Steel Plant P.O Burnpur Dist - Paschim Barddhaman West Bengal	Sample Ref. No.(ARF) Source of Sample Sampling Date Sample Registration Date Period of Analysis Sampling Location Sample Condition Sample Stamped as Sample Drawn By Sampling Procedure Remarks Deviation if any	: EC/ARF/29/241101 : Integrated Steel Plant : 30.10.2024 : 02.11.2024 : 02.11.2024 : ESP Stack : Sealed : TH – 90 : ECO CARE : EC/SOP/03/01 : : None
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GENERAL INFORMATION PROVIDED BY CUSTOMER

1	Particular of the Plant	: Integrated Steel Plant	
2	Emission Due to	: Process Activity	
3	Stack Connected to	: BF # 05 (Stove)	
4	Material of Construction	: M.S	A CONTRACTOR OF THE CONTRACTOR
5	Stack Height from G.L.	: 70.00 m	
6	Height of Sampling Port from G.L.	*****	The second of
7	Height of Sampling Port from L.D.Z.	1	
8	Dimension of Stack at Sampling Port	: 5.7 m	
9	Shape of the Stack	: Circular Ø	
10	Working Load	: 720 hrs/month	

FUEL CHARACTERISTIC REPORT

THE PARTY OF		
1 2	Source of Energy Energy Consumption	: BF Gas : 200000 M³/hr
3	Calorific Value (K-Cal/Kg)	V

METHOD		
IS 11255 : Part 3		
IS 11255 : Part 3		
IS 11255 : Part 3		
IS 11255 : Part 3		
IS 11255 : Part 1		
IS		

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TEST REPORT

Report Release Date	: 04.11.2024	Sample Ref. No.(ARF)	: EC/ARF/29/241101
Test Report No	: EC/TR/42/11004	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 30.10.2024
Sample Collected by	: Mr. Sisir Kr. Roy & Team	Sample Registration Date	: 02.11.2024
Sample Details	: Stack Emission	Period of Analysis	: 02.11.2024
Customer Name &	: SAIL - IISCO Steel Plant	Sampling Location	: ESP Stack
Address	P.O. – Burnpur	Sample Condition	: Sealed
	Dist - Paschim Barddhaman	Sample Stamped as	: TH - 91
	West Bengal	Sample Drawn By	: ECO CARE
		Sampling Procedure	
		Remarks	: EC/SOP/03/01
		Deviation if any	7
			: None

GENERAL INFORMATION PROVIDED BY CUSTOMER

1	Particular of the Plant	: Integrated Steel Plant			
2	Emission Due to	: Process Activity			
3	Stack Connected to	: BF # 05 (Stock House)			
4	Material of Construction	: M.S			
5	Stack Height from G.L.	: 31.0 m			
6	Height of Sampling Port from G.L.	: 20.0 m			
7	Height of Sampling Port from L.D.Z.				
8	Dimension of Stack at Sampling Port	: 3.85 m			
9	Shape of the Stack	: Circular Ø			
10	Working Load	: 720 hrs/month			

FUEL CHARACTERISTIC REPORT

1	Source of Energy	1 ****	
2	Energy Consumption		
3	Calorific Value (K-Cal/Kg)	· · · · ·	

2	RESULTS OF SAMPLING GASEOUS EMIS	SION ANALYSIS	UNIT	METHOD
1	Flue Gas Temperature	66	°C	IS 11255 : Part 3
2	Barometric Pressure	755	mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	11.22	m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	411165	NM ³ / hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	34,48	mg/NM ³	IS 11255 : Part 1

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TEST REPORT

Report Release Date	: 13.11.2024	Sample Ref. No.(ARF)	: EC/ARF/29/241105
Test Report No	: EC/TR/42/11015	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 11.11.2024
Sample Collected by	: Mr. Sisir Kr. Roy & Team	Sample Registration Date	: 12.11.2024
Sample Details	: Stack Emission	Period of Analysis	: 12.11.2024
Customer Name &	: SAIL - HSCO Steel Plant	Sampling Location	: Oven Stack
Address	P.O. – Burnpur	Sample Condition	: Sealed
Address	Dist - Paschim Barddhaman	Sample Drawn By : ECO CARE	: TH - 94
	West Bengal		: ECO CARE
	West Dongar		: EC/SOP/03/01
		Remarks	5
		Deviation if any	: None

1 2	Particular of the Plant Emission Due to	: Integrated Steel Plant : Process Activity	
3	Stack Connected to Material of Construction	: Coke Oven Battery No. #11(PEC) : M.S	
5	Stack Height from G.L.	: 30.00 m	
6	Height of Sampling Port from G.L.	INTEREST	
7	Height of Sampling Port from L.D.Z.		A CALLEY
8	Dimension of Stack at Sampling Port	: 2.1 m	
9	Shape of the Stack	: Circular Ø	
10	Working Load	: 720 MT/hr	
FU	EL CHARACTERISTIC REPORT		
1	Source of Energy	· when	

	RESULTS OF SAMPLING GASEOUS EMISSION	ON ANALYSIS	UNIT	METHOD
1	Flue Gas Temperature	62	°C	IS 11255 : Part 3
2	Barometric Pressure Velocity of Flue Gas	755 5.77	mm Hg m/sec	IS 11255 : Part 3 IS 11255 : Part 3
4	Flue Gas Quantity	63656	NM³/hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	13.43	mg/NM³	IS 11255 : Part I

Test values are reported based on the samples received.

Energy Consumption Calorific Value (K-Cal/Kg)

2. Sample(s) will be destroyed after 30 days from date of issues of the Test Report subject to nature of Preservation. Sample will be preserved as per the standard method.

3. The Test report shall not be reproduced, without the written approval of laboratory

Authorised Sign .. ory

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TEST REPORT

Report Release Date : 13.11.2024 Test Report No : EC/TR/42/11016 Type of Sample : Dust & Gaseous Emission : Mr. Sisir Kr. Roy & Team : Stack Emission : SAIL - IISCO Steel Plant P.O Burnpur Dist - Paschim Barddhamar West Bengal	Sample Ref. No.(ARF) Source of Sample Sampling Date Sample Registration Date Period of Analysis Sampling Location Sample Condition Sample Stamped as Sample Drawn By Sampling Procedure Remarks Deviation if any	: EC/ARF/29/241105 : Integrated Steel Plant : 11.11.2024 : 12.11.2024 : 12.11.2024 : Oven Stack : Sealed & Preserved : TH – 95 : ECO CARE : EC/SOP/03/01
--	--	---

1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Process Activity
3	Stack Connected to	: Coke Oven Battery No. #11
4	Material of Construction	: M.S
5	Stack Height from G.L.	: 120.00 m
6	Height of Sampling Port from G.L.	: 36.00 m
7	Height of Sampling Port from L.D.Z.	2
Q	Dimension of Carely as County D	

6 Height of Sampling Port from G.L. : 36.00 m
7 Height of Sampling Port from L.D.Z. :--8 Dimension of Stack at Sampling Port : 5.80 m
9 Shape of the Stack : Circular ∅
10 Working Load : 2150 MT/hr

GENERAL INFORMATION PROVIDED BY CUSTOMER

FUEL CHARACTERISTIC REPORT

1	Source of Energy	: Coke Oven Gas
2	Energy Consumption	: 2005000 M ³ /hr
3	Calorific Value (K-Cal/Ka)	

	RESULTS OF SAMPLING GASEOUS EMISS	ION ANALYSIS	UNIT	METHOD
1	Flue Gas Temperature .	152	°C	IS 11255 : Part 3
2	Barometric Pressure	755	mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	8.62	m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	571804	NM³/ hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	39.74	mg/NM ³	IS 11255 : Part 1
6	Concentration of Carbon Dioxide		%	IS 13270
7	Concentration of SO ₂	137.43	mg/NM ³	IS 11255 : Part 2
8	Concentration of NO _x	92.90	mg/NM³	IS 11255 : Part 7

1. Test values are reported based on the samples received.

 Sample(s) will be destroyed after 30 days from date of issues of the Test Report subject to nature of Preservation. Sample will be preserved as per the standard method.

3. The Test report shall not be reproduced, without the written approval of laboratory

Authorised Signatory

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TEST REPORT

Report Release Date Test Report No Type of Sample Sample Collected by Sample Details Customer Name & Address	: 13.11.2024 : EC/TR/42/11017 : Dust & Gaseous Emission : Mr. Sisir Kr. Roy & Team : Stack Emission : SAIL - IISCO Steel Plant P.O. – Burnpur Dist – Paschim Barddhaman West Bengal	Sample Ref. No.(ARF) Source of Sample Sampling Date Sample Registration Date Period of Analysis Sampling Location Sample Condition Sample Stamped as Sample Drawn By Sampling Procedure Remarks Deviation if any	: EC/ARF/29/241105 : Integrated Steel Plant : 11.11.2024 : 12.11.2024 : 12.11.2024 : Bag Filter Stack : Sealed : TH – 96 : ECO CARE : EC/SOP/03/01 : : None
--	---	--	---

Particular of the Plant Emission Due to Stack Connected to Material of Construction Stack Height from G.L. Height of Sampling Port from G.L. Height of Sampling Port from L.D.Z. Dimension of Stack at Sampling Port Shape of the Stack Working Load	: Integrated Steel Plant : Process Activity : CDCP Outlet : M.S : 50.00 m : 20.00 m : : 1.60 m : Circular Ø : 720 MT/hr
FUEL CHARACTERISTIC REPORT	
1 Source of Energy 2 Energy Consumption	

PROVINCE OF CAMPILING CASEOUS EMISSION	NANALYSIS	UNIT	METHOD
RESULTS OF SAMPLING GASEOUS EMISSION Flue Gas Temperature Barometric Pressure Velocity of Flue Gas Flue Gas Quantity	81 755 12.79 77474 34.47	mm Hg m/sec NM ³ / hr mg/NM ³	IS 11255 : Part 3 IS 11255 : Part 1

1. Test values are reported based on the samples received.

Calorific Value (K-Cal/Kg)

2. Sample(s) will be destroyed after 30 days from date of issues of the Test Report subject to nature of Preservation. Sample will be preserved as per the standard method.

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Authorised Signatory

End of Test Report

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TEST REPORT

Report Release Date	: 13.11.2024	Sample Ref. No.(ARF)	: EC/ARF/29/241105
Test Report No	: EC/TR/42/11018	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 11.11.2024
Sample Collected by	: Mr. Sisir Kr. Roy & Team	Sample Registration Date	: 12.11.2024
Sample Details	: Stack Emission	Period of Analysis	: 12.11.2024
Customer Name &	: SAIL - IISCO Steel Plant	Sampling Location	: Bag Filter Stack
Address	P.O. – Burnpur	Sample Condition	: Sealed
	Dist - Paschim Barddhaman	Sample Stamped as	: TH - 97
	West Bengal	Sample Drawn By	: ECO CARE
		Sampling Procedure	: EC/SOP/03/01
		Remarks	7
	×.	Deviation if any	: None

1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Process Activity
3	Stack Connected to	: CDU
4	Material of Construction	: M.S
5	Stack Height from G.L.	: 40.00 m
6	Height of Sampling Port from G.L.	: 27.00 m
7	Height of Sampling Port from L.D.Z.	1
8	Dimension of Stack at Sampling Port	: 1,60 m
9	Shape of the Stack	: Circular Ø
10	Working Load	: 720 MT/hr
FU	EL CHARACTERISTIC REPORT	
1	Source of Energy	:
2	Energy Consumption	
3	Calorific Value (K-Cal/Kg)	- I was

H	RESULTS OF SAMPLING GASEOUS EMIS	SION ANALYSIS	UNIT	METHOD
1	Flue Gas Temperature	57	°C	IS 11255 : Part 3
2	Barometric Pressure	755	mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	8.97	m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	58281	NM ³ /hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	30.22	mg/NM³	IS 11255 : Part 1

1. Test values are reported based on the samples received.

Sample(s) will be destroyed after 30 days from date of issues of the Test Report subject to nature of Preservation. Sample will be preserved as per the standard method.

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TEST REPORT

	TEST REP		- CIA DE 100/041106
Report Release Date Test Report No Type of Sample Sample Collected by Sample Details Customer Name & Address	: 14.11.2024 : EC/TR/42/11019 : Dust & Gaseous Emission : Mr. Sisir Kr. Roy & Team : Stack Emission : SAIL - IISCO Steel Plant P.O. – Burnpur Dist – Paschim Barddhaman West Bengal	Sample Ref. No (ARF) Source of Sample Sampling Date Sample Registration Date Period of Analysis Sampling Location Sample Condition Sample Stamped as Sample Drawn By Sampling Procedure Remarks Deviation if any	: EC/ARF/29/241106 : Integrated Steel Plant : 12.11.2024 : 13.11.2024 : Boiler Stack : Sealed & Preserved : TH – 98 : ECO CARE : EC/SOP/03/01 : : None

GENERAL INFORMATION PROVIDED BY CUSTOMER

Part El Si	articular of the Plant mission Due to tack Connected to Material of Construction ttack Height from G.L. Height of Sampling Port from G.L. Jumension of Stack at Sampling Port	: Integrated Steel Plant : Burning of Coal : Boiler – A : M.S : 31.00 m : 24.0 m : : 2.6 m	
9 5	Shape of the Stack Working Load	: Circular Ø : 18 TPH	

FUEL CHARACTERISTIC REPORT

FUEL CHARACTERS	0 1 C+ Cox
1 Source of Energy 2 Energy Consumption	: Coal, Co. Gas : Coal – 50 MT/hr, Co. Gas – 2250 MT/hr
3 Calorific Value (K-Cal/Kg)	

anous emission	NANALVSIS .	UNIT	· METHOD
RESULTS OF SAMPLING GASEOUS EMISSION Flue Gas Temperature Barometric Pressure Velocity of Flue Gas Flue Gas Quantity Concentration of Particulate Matter Concentration of SO ₂ Concentration of NO _x	182 755 7.57 94249 73.59 152.92 108.96	oC mm Hg m/sec NM³/ hr mg/NM³ mg/NM³ mg/NM³	IS 11255 : Part 3 IS 11255 : Part 1 IS 11255 : Part 1 IS 11255 : Part 2 IS 11255 : Part 7

 Test values are reported based on the samples received. 2. Sample(s) will be destroyed after 30 days from date of issues of the Test Report subject to nature of Preservation. Sample will be preserved as per the standard method.

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TEST REPORT

Report Release Date	: 14.11.2024	Sample Ref. No.(ARF)	: EC/ARF/29/241106
Test Report No	: EC/TR/42/11020	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 12.11.2024
Sample Collected by	: Mr. Sisir Kr. Roy & Team	Sample Registration Date	: 13.11.2024
Sample Details	: Stack Emission	Period of Analysis	: 13.11.2024
Customer Name &	: SAIL - IISCO Steel Plant	Sampling Location	: Boiler Stack
Address	P.O. – Burnpur	Sample Condition	: Sealed
	Dist - Paschim Barddhaman	Sample Stamped as	: TH - 99
	West Bengal	Sample Drawn By	: ECO CARE
		Sampling Procedure	: EC/SOP/03/01
		Remarks	
		Deviation if any	: None

1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Combustion of BF Gas
3	Stack Connected to	: Boiler # 2
4	Material of Construction	: M.S
5	Stack Height from G.L.	: 0.9144 m
6	Height of Sampling Port from G.L.	: 2.4384 m
7	Height of Sampling Port from L.D.Z.	
8	Dimension of Stack at Sampling Port	: 2.5m x 2.0m
9	Shape of the Stack	: Rectangle
10	Working Load	: 170 MT/hr
FU	EL CHARACTERISTIC REPORT	X X X X X X X X X X X X X X X X X X X
1	Source of Energy	: Mixed Gas, Co Gas
2	Energy Consumption	: 11,72,000 M ³ /hr
3	Calorific Value (K-Cal/Kg)	

145 755	°C mm Hg	IS 11255 : Part 3 IS 11255 : Part 3
755	mm Hg	
12.41	PARALOS MANOS	IS 11255 : Part 3
G 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
	The second secon	IS 11255 : Part 3 IS 11255 : Part 1
	12.41 159233 16.28	159233 NM³/ hr

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End of Test Report

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TEST REPORT

Report Release Date	: 14.11.2024	Sample Ref. No.(ARF)	: EC/ARF/29/241106
Test Report No	: EC/TR/42/11021	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 12.11.2024
Sample Collected by	: Mr. Sisir Kr. Roy & Team	Sample Registration Date	: 13.11.2024
Sample Details	: Stack Emission	Period of Analysis	: 13.11.2024
Customer Name &	: SAIL - IISCO Steel Plant	Sampling Location	: Boiler Stack
Address	P.O. – Burnpur	Sample Condition	: Sealed
	Dist - Paschim Barddhaman	Sample Stamped as	: TH - 100
	West Bengal	Sample Drawn By	: ECO CARE
		Sampling Procedure	: EC/SOP/03/01
		Remarks	:
		Deviation if any	: None

GENERAL INFORMATION PROVIDE) BY	CUSTOMER
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1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Combustion of BF Gas
3	Stack Connected to	: Boiler # 3
4	Material of Construction	: M.S
5	Stack Height from G.L.	: 0.9144 m
6	Height of Sampling Port from G.L.	: 2.4384 m
7	Height of Sampling Port from L.D.Z.	
8	Dimension of Stack at Sampling Port	: 2.5m x 2.0m
9	Shape of the Stack	: Rectangle
10	Working Load	: 150 MT/hr

FUEL CHARACTERISTIC REPORT

1	Source of Energy	: Mixed Gas, Co Gas
2	Energy Consumption	: 11,72,000 M ³ /hr
3	Calorific Value (K-Cal/Kg)	:

	RESULTS OF SAMPLING GASEOUS EMISS	SION ANALYSIS	UNIT	METHOD
1	Flue Gas Temperature	152	°C	IS 11255 : Part 3
2	Barometric Pressure	755	mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	13.59	m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	171527	NM ³ /hr -	IS 11255 : Part 3
5	Concentration of Particulate Matter	12.37	mg/NM ³	IS 11255 : Part 1

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End of Test Report

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TEST REPORT

Report Release Date Test Report No Type of Sample Sample Collected by Sample Details Customer Name & Address	: 14.11.2024 : EC/TR/42/11022 : Dust & Gaseous Emission : Mr. Sisir Kr. Roy & Team : Stack Emission : SAIL - IISCO Steel Plant P.O Burnpur Dist - Paschim Barddhaman West Bengal	Sample Ref. No.(ARF) Source of Sample Sampling Date Sample Registration Date Period of Analysis Sampling Location Sample Condition Sample Stamped as Sample Drawn By Sampling Procedure	: EC/ARF/29/241106 : Integrated Steel Plant : 12.11.2024 : 13.11.2024 : 13.11.2024 : Coke Oven Stack : Sealed & Preserved : TH – 101 : ECO CARE : EC/SOP/03/01
	T. Miles	Remarks Deviation if any	: : None

GENERAL INFORMATION PROVIDED BY CUSTOMER

1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Process Activity
3	Stack Connected to	: Coke Oven Battery No. # 10
4	Material of Construction	: R.C.C
5	Stack Height from G.L.	: 110.0 m
6	Height of Sampling Port from G.L.	: 28.0 m
7	Height of Sampling Port from L.D.Z.	*****
8	Dimension of Stack at Sampling Port	: 3.5 m
9	Shape of the Stack	: Circular Ø
10	Working Load	: 35 MT/hr

FUEL CHARACTERISTIC REPORT

1	Source of Energy	: Coke Oven Gas
2	Energy Consumption	: 9500 M ³ /hr
3	Calorific Value (K-Cal/Kg)	*

1	RESULTS OF SAMPLING GASEOUS EMIS	SION ANALYSIS	- UNIT	METHOD
2	Flue Gas Temperature Barometric Pressure Velocity of Flue Gas	156 755	°C mm Hg	IS 11255 : Part 3 IS 11255 : Part 3
4	Flue Gas Quantity Concentration of Particulate Matter	8.54 204736	m/sec NM³/ hr	IS 11255 : Part 3 IS 11255 : Part 3
6	Concentration of SO ₂ Concentration of NO _x	33.16 133.07 99.12	mg/NM ³ mg/NM ³ mg/NM ³	IS 11255 : Part 1 IS 11255 : Part 2 IS 11255 : Part 7

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End of Test Report

Authorised Signatory

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EC/ADE/20/2/1202

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TEST REPORT

Report Release Date Test Report No Type of Sample Sample Collected by Sample Details Customer Name & Address 1 04.12.2024 EC/TR/42/12004 Dust & Gaseous Emission Mr. Sumit Sarkar & Team Stack Emission SAIL - IISCO Steel Plant P.O. – Burnpur Dist – Paschim Barddhaman West Bengal	Sample Ref. No.(ARF) Source of Sample Sampling Date Sample Registration Date Period of Analysis Sampling Location Sample Condition Sample Stamped as Sample Drawn By Sampling Procedure Remarks Deviation if any	: EC/ARP/29/241202 : Integrated Steel Plant : 02.12.2024 : 03.12.2024 : 03.12.2024 : Bag Filter Stack : Sealed : TH – 103 : ECO CARE : EC/SOP/03/01
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GENERAL INFORMATION PROVIDED BY CUSTOMER

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NAME AND ADDRESS OF THE PARTY O
: 2.10 m
: Circular Ø
: 720 hrs/month
** ** **

FU	EL CHARACTERIBITE ILL	6-07/7-6	
1	Source of Energy	1	
2	Energy Consumption	;	
3	Calorific Value (K-Cal/Kg)	:	

_	RESULTS OF SAMPLING GASEOUS EMISS	TON ANALYSIS	UNIT	METHOD
1	Flue Gas Temperature	59	°C	IS 11255 : Part 3 IS 11255 : Part 3
2	Barometric Pressure Velocity of Flue Gas	755 5.07	mm Hg m/sec	IS 11255 : Part 3
4 5	Flue Gas Quantity Concentration of Particulate Matter	56401 12.43	NM ³ / hr mg/NM ³	IS 11255 : Part 3 IS 11255 : Part 1

1. Test values are reported based on the samples received.

2. Sample(s) will be destroyed after 30 days from date of issues of the Test Report subject to nature of Preservation. Sample will be preserved as per the standard method.

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TEST REPORT

Report Release Date	: 04.12.2024	Sample Ref. No.(ARF)	: EC/ARF/29/241202
Test Report No	: EC/TR/42/12005	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 02.12.2024
Sample Collected by	: Mr. Sumit Sarkar & Team	Sample Registration Date	: 03.12.2024
Sample Details	: Stack Emission	Period of Analysis	: 03.12.2024
Customer Name &	: SAIL - IISCO Steel Plant	Sampling Location	: Bag Filter Stack
Address	P.O. – Burnpur	Sample Condition	: Sealed
	Dist - Paschim Barddhaman	Sample Stamped as	: TH - 104
	West Bengal	Sample Drawn By	: ECO CARE
		Sampling Procedure	: EC/SOP/03/01
		Remarks	
		Deviation if any	: None

1	Particular of the Plant	: Integrated Steel Plant	
2	Emission Due to	: Process Activity	
3	Stack Connected to	: CDCP Outlet	
4	Material of Construction	: M:S	
5	Stack Height from G.L.	: 50.00 m	
6	Height of Sampling Port from G.L.	: 20.00 m	
7	Height of Sampling Port from L.D.Z.	* manual **	
8	Dimension of Stack at Sampling Port	: 1.60 m	
9	Shape of the Stack	: Circular Ø	
10	Working Load	\$	
FU	EL CHARACTERISTIC REPORT		
1	Source of Energy		_
2	Energy Consumption		
3	Calorific Value (K-Cal/Kg)	\$	

RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS		UNIT	METHOD	
1	Flue Gas Temperature	69	0C	IS 11255 : Part 3
2	Barometric Pressure	755	mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	12.76	m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	78905	NM ³ /hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	31.71	mg/NM ³	IS 11255 : Part 1

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End of Test Report*

Dr. Mousumi Pal

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TEST REPORT

	I EST IVET		DOVA DE/20/241202
Report Release Date Test Report No Type of Sample Sample Collected by Sample Details Customer Name & Address	: 04.12.2024 : EC/TR/42/12006 : Dust & Gaseous Emission : Mr. Sumit Sarkar & Team : Stack Emission : SAIL - IISCO Steel Plant P.O. – Burnpur Dist – Paschim Barddhaman West Bengal	Sample Ref. No (ARF) Source of Sample Sampling Date Sample Registration Date Period of Analysis Sampling Location Sample Condition Sample Stamped as Sample Drawn By Sampling Procedure Remarks Deviation if any	: EC/ARF/29/241202 : Integrated Steel Plant : 02.12.2024 : 03.12.2024 : 03.12.2024 : Bag Filter Stack : Sealed : TH – 105 : ECO CARE : EC/SOP/03/01

1 2 3 3 4 5 6 7 8 9	Particular of the Plant Emission Due to Stack Connected to Material of Construction Stack Height from G.L. Height of Sampling Port from G.L. Height of Sampling Port from L.D.Z. Dimension of Stack at Sampling Port Shape of the Stack Working Load	: Integrated Steel Plant : Process Activity : CDU : M.S : 40.00 m : 27.00 m : : 1.60 m : Circular Ø
FU	UEL CHARACTERISTIC REPORT	
2 3	Source of Energy Energy Consumption Calorific Value (K-Cal/Kg)	1 1

	THE CASEOUS EMIS	SION ANALYSIS	UNIT	METHOD
1 F 2 E 3 V	CSULTS OF SAMPLING GASEOUS EMISS The Gas Temperature Barometric Pressure Velocity of Flue Gas Flue Gas Quantity	755 6.50 42338	oC mm Hg m/sec NM³/ hr	IS 11255: Part 3 IS 11255: Part 3 IS 11255: Part 3 IS 11255: Part 3 IS 11255: Part 1
	Concentration of Particulate Matter	26.57	mg	/NM³

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End of Test Report

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TEST REPORT

Report Release Date	: 06.12.2024	Sample Ref. No.(ARF)	: EC/ARF/29/241203
Test Report No	: EC/TR/42/12007	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 04.12.2024
Sample Collected by	: Mr. Sumit Sarkar & Team	Sample Registration Date	: 05.12.2024
Sample Details	: Stack Emission	Period of Analysis	: 05.12.2024
Customer Name &	: SAIL - IISCO Steel Plant	Sampling Location	: ESP Stack
Address	P.O Burnpur	Sample Condition	: Sealed
	Dist - Paschim Barddhaman	Sample Stamped as	: TH - 106
	West Bengal	Sample Drawn By	: ECO CARE
		Sampling Procedure	A CONTRACTOR OF THE PARTY OF TH
		Remarks	: EC/SOP/03/01
		Deviation if any]
	The second secon		: None

GENERAL INFORMATION PROVIDED BY CUSTOMER

1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Process Activity
3	Stack Connected to	: BF # 05 (Stock House)
4	Material of Construction	: M.S
5	Stack Height from G.L.	: 31.0 m
6	Height of Sampling Port from G.L.	: 20.0 m
7	Height of Sampling Port from L.D.Z.	
8	Dimension of Stack at Sampling Port	: 3.85 m
9	Shape of the Stack	: Circular Ø
10	Working Load	- Table to remain the second

FUEL CHARACTERISTIC REPORT

1	Source of Energy	
2	Energy Consumption	
3	Calorific Value (K-Cal/Kg)	

_	RESULTS OF SAMPLING GASEOUS EMISS	SION ANALYSIS	UNIT	METHOD
1	Flue Gas Temperature	65	°C	IS 11255 : Part 3
2	Barometric Pressure	755	mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	11.23	m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	412548	NM ³ / hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	37.13	mg/NM³	IS 11255 : Part 1

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TEST REPORT

Type of Sample : Dust & Sample Collected by : Mr. Su Sample Details : Stack Customer Name & : SAIL Address P.O	2/42/12008 2 Gaseous Emission umit Sarkar & Team Emission - IISCO Steel Plant Burnpur Paschim Barddhaman Bengal	Sample Ref. No.(ARF) Source of Sample Sampling Date Sample Registration Date Period of Analysis Sampling Location Sample Condition Sample Stamped as Sample Drawn By Sampling Procedure Remarks Deviation if any	: EC/ARF/29/241203 : Integrated Steel Plant : 04.12.2024 : 05.12.2024 : 05.12.2024 : ESP Stack : Sealed : TH – 107 : ECO CARE : EC/SOP/03/01
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GENERAL INFORMATION PROVIDED BY CUET

1 2 3 4 5 6 7	Particular of the Plant Emission Due to Stack Connected to Material of Construction Stack Height from G.L. Height of Sampling Port from G.L. Height of Sampling Port from L.D.Z.	: Integrated Steel Plant : Process Activity : BF # 05 (Cast House No. 02) : M.S : 31.00 m : 20.00 m
8	Dimension of Stack at Sampling Port Shape of the Stack	: 3.85 m
0	Working Load	: Circular Ø : 720 MT/hr

FUEL CHARACTERISTIC REPORT

1 Source of Energy 2 Energy Consumption		
3 Calorific Value (K-Cal/Kg)	1	

RESULTS OF SAMPLING GASEOUS EM 1 Flue Gas Temperature	ISSION ANALYSIS	· UNIT	METHOD
2 Barometric Pressure 3 Velocity of Flue Gas 4 Flue Gas Quantity 5 Concentration of Particulate Matter	76 755 13.10 466138 39.70	mm Hg m/sec NM³/ hr mg/NM³	IS 11255: Part 3 IS 11255: Part 3 IS 11255: Part 3 IS 11255: Part 3 IS 11255: Part 1

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moral **Authorised Signatory**

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TEST REPORT

			: None
		Deviation if any	
	The second second	Remarks	: EC/SOP/03/01
		Sampling Procedure	
	West Bengal	Sample Drawn By	: ECO CARE
	Dist - Paschim Barddhaman	Sample Stamped as	: TH - 109
Address	P.O. – Burnpur	Sample Condition	: Sealed
Customer Name &	: SAIL - IISCO Steel Plant	Sampling Location	: ESP Stack
Sample Details	: Stack Emission	Period of Analysis	: 05.12.2024
Sample Collected by	: Mr. Sumit Sarkar & Team	Sample Registration Date	: 05.12.2024
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 04.12.2024
Test Report No	: EC/TR/42/12010	Source of Sample	: Integrated Steel Plant
Report Release Date	: 06.12.2024	Sample Ref. No.(ARF)	: EC/ARF/29/241203

GENERAL INFORMATION PROVIDED BY CUSTOMER

1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Process Activity
3	Stack Connected to	: BF # 05 (Stove)
4	Material of Construction	: M.S
5	Stack Height from G.L.	: 70.00 m
6	Height of Sampling Port from G.L.	: ***
7	Height of Sampling Port from L.D.Z.	:
8	Dimension of Stack at Sampling Port	: 5.7 m
9	Shape of the Stack	: Circular Ø
10	Working Load	: 200000 M³/br

FUEL CHARACTERISTIC REPORT

1 Source of Energy	: BF Gas	
2 Energy Consumption	: 200000 M³/hr	
3	Calorific Value (K-Cal/Kg)	

-	RESULTS OF SAMPLING GASEOUS EMIS	SION ANALYSIS	UNIT	METHOD
1	Flue Gas Temperature	162	°C	IS 11255 : Part 3
2	Barometric Pressure	755	mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	12.79	m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	800159	NM ³ /hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	25.36	mg/NM³	IS 11255 : Part 1

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ULR NO - TC1513625000000033F

TEST REPORT

Report Release Date Test Report No Type of Sample Sample Collected by Sample Details Customer Name & Address Customer Name & Address	Sample Ref. No.(ARF) Source of Sample Sampling Date Sample Registration Date Period of Analysis Sampling Location Sample Condition Sample Stamped as Sample Drawn By Sampling Procedure Remarks Deviation if any	: EC/ARF/29/250103 : Integrated Steel Plant : 02.01.2025 : 04.01.2025 : 04.01.2025 : ESP Stack : Sealed : TH – 115 : ECO CARE : EC/SOP/03/01 : : None
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GENERAL INFORMATION PROVIDED BY CUSTOMER

1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Process Activity
3	Stack Connected to	: Cast House No. 01
4	Material of Construction	: M.S
5	Stack Height from G.L.	: 31.00 m
6	Height of Sampling Port from G.L	: 20.00 m
7	Height of Sampling Port from L.D.Z.	
8	Dimension of Stack at Sampling Port	: 3.85 m
9	Shape of the Stack	: Circular Ó
10	Working Load	: 720 MT/hr

FUEL CHARACTERISTIC REPORT

1	Source of Energy	1	
2	Energy Consumption	to the second se	- 1
3	Calorific Value (K-Cal/Kg)		

	RESULTS OF SAMPLING GASEOUS EMIS	SION ANALYSIS	. UNIT	METHOD
1	Flue Gas Temperature	79	°C	IS 11255 : Part 3
2	Barometric Pressure	750	mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	13.55	m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	475157	NM ³ /hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	47.53	mg/NM³	IS 11255 : Part 1

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ULR NO - TC1513625000000034F

TEST REPORT

Sample Collected by Sample Details Stack I Customer Name & SAIL Address P.O. –	2/42/01009 E Gaseous Emission mit Sarkar & Team Emission IISCO Steel Plant Burnpur Paschim Barddhaman engal	Sample Ref. No.(ARF) Source of Sample Sampling Date Sample Registration Date Period of Analysis Sampling Location Sample Condition Sample Stamped as Sample Drawn By Sampling Procedure Lemarks Deviation if any	: EC/ARF/29/250103 : Integrated Steel Plant : 02.01.2025 : 04.01.2025 : 04.01.2025 : ESP Stack : Sealed : TH – 116 : ECO CARE : EC/SOP/03/01
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GENERAL INFORMATION PROVIDED

1 2 3 4 5 6 7 8 9	Particular of the Plant Emission Due to Stack Connected to Material of Construction Stack Height from G.L. Height of Sampling Port from G.L. Height of Sampling Port from L.D.Z. Dimension of Stack at Sampling Port Shape of the Stack Working Load	: Integrated Steel Plant : Process Activity : Stock House : M.S : 31.0 m : 20.0 m : : 3.85 m : Circular Ø
	Working Load	- Transa

FUEL CHARACTERISTIC REPORT

1 Source of Energy		
2 Energy Consumption	į 	
3 Calorific Value (K-Cal/Kg)	I was	
- value (K-Cal/Kg)		

RESULTS OF SAMPLING GASEOUS I Flue Gas Temperature	EMISSION ANALYSIS	UNIT	METHOD
2 Barometric Pressure 3 Velocity of Flue Gas 4 Flue Gas Quantity 5 Concentration of Particulate Matter	68	°C	IS 11255 : Part 3
	750	mm Hg	IS 11255 : Part 3
	11.89	m/sec	IS 11255 : Part 3
	430277	NM³/ hr	IS 11255 : Part 3

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ULR NO - TC1513625000000035F

TEST REPORT

Report Release Date	: 06.01.2025	Sample Ref. No.(ARF)	: EC/ARF/29/250103
Test Report No	: EC/TR/42/01010	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 02.01.2025
Sample Collected by	: Mr. Sumit Sarkar & Team	Sample Registration Date	: 04.01.2025
Sample Details	: Stack Emission	Period of Analysis	: 04.01.2025
Customer Name &	: SAIL - IISCO Steel Plant	Sampling Location	: ESP Stack
Address	P.O Burnpur	Sample Condition	: Sealed
	Dist - Paschim Barddhaman	Sample Stamped as	: TH-117
	West Bengal	Sample Drawn By	: ECO CARE
		Sampling Procedure	
		Remarks	: EC/SOP/03/01
		Deviation if any	:
			: None

GENERAL INFORMATION PROVIDED BY CUSTOMER

1	Particular of the Plant	: Integrated Steel Plant	
2	Emission Due to	: Process Activity	
3	Stack Connected to	: BF # 05 (Stove)	
4	Material of Construction	: M.S	
5	Stack Height from G.L.	: 70.00 m	
6	Height of Sampling Port from G.L.	(
7	Height of Sampling Port from L.D.Z.	0.01	
8	Dimension of Stack at Sampling Port	: 5.7 m	
9	Shape of the Stack	: Circular Ó	
10	Working Load	test to the second product and the later of	

FUEL CHARACTERISTIC REPORT

1	Source of Energy	: BF Gas	
2	Energy Consumption	: 200000 M ³ /hr	
3	Calorific Value (K-Cal/Kg)	· · · · · · · · · · · · · · · · · · ·	

	RESULTS OF SAMPLING GASEOUS EMISS	SION ANALYSIS	UNIT	METHOD
1	Flue Gas Temperature	173	°C	IS 11255 : Part 3
2	Barometric Pressure	750	mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	12.96	m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	786209	NM ³ /hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	17.94	mg/NM3	IS 11255 : Part 1

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End of Test Report

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TEST REPORT

Report Release Date Test Report No Type of Sample Sample Collected by Sample Details Customer Name & Address	: 07.01.2025 : EC/TR/42/01011 : Dust & Gaseous Emission : Mr. Sumit Sarkar & Team : Stack Emission : SAIL - IISCO Steel Plant P.O Burnpur Dist - Paschim Barddhaman West Bengal	Sample Ref. No.(ARF) Source of Sample Sampling Date Sample Registration Date Period of Analysis Sampling Location Sample Condition Sample Stamped as Sample Drawn By Sampling Procedure Remarks Deviation if any	: EC/ARF/29/250104 : Integrated Steel Plant : 04.01.2025 : 06.01.2025 : 06.01.2025 : Oven Stack : Sealed & Preserved : TH – 118 : ECO CARE : EC/SOP/03/01
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OEMERAL INFORMATION PROVIDED BY	CUSTOMER
I Description of the control of the	CANDELOW DESIGNATION OF THE PARTY OF THE PAR

Particular of the Plant Emission Due to Stack Connected to Material of Construction Stack Height from G.L. Height of Sampling Port from G.L. Height of Sampling Port from L.D.Z. Dimension of Stack at Sampling Port Shape of the Stack Working Load FUEL CHARACTERISTIC REPORT	: Integrated Steel Plant : Process Activity : Coke Oven Battery No. #10 : R.C.C : 110.00 m : 28.00 m : : 3.50 m : Circular Ø : 35 MT/hr
---	---

GENERAL INCORAL TOTAL

1	Source of Energy	7
2	Energy Consumption	: Coke Oyen Gas
	Calorific Value (K-Cal/Kg)	: 9500 M³/hr
-	raido (it-Cal/kg)	2 ****

1	RESULTS OF SAMPLING GASEOUS EMISSI Flue Gas Temperature		UNIT	METHOD
2	Barometric Pressure	156	· °C	IS 11255 : Part 3
3	Velocity of Flue Gas	750	mm Hg	IS 11255 : Part 3
4	Flue Gas Quantity	8.65	m/sec	IS 11255 : Part 3
5	Concentration of Particulate Matter	205659	NM ³ /hr	IS 11255 : Part 3
6	Concentration of Carbon Dioxide	32.65	mg/NM ³	IS 11255 : Part 1
7	Concentration of SO ₂		%	IS 13270
8	Concentration of NO _x	124.06	mg/NM ³	IS 11255 : Part 2
	Test values are reported beautiful	88.93	mg/NM ³	IS 11255 - Part 7

ues are reported based on the samples received.

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ULR NO - TC1513625000000037F

TEST REPORT

Report Release Date	: 07.01.2025	Sample Ref. No.(ARF)	: EC/ARF/29/250104
Test Report No	: EC/TR/42/01012	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 04.01.2025
Sample Collected by	: Mr. Sumit Sarkar & Team	Sample Registration Date	: 06.01.2025
Sample Details	: Stack Emission	Period of Analysis	: 06.01.2025
Customer Name &	: SAIL - IISCO Steel Plant	Sampling Location	: Bag Filter Stack
Address	P.O. – Burnpur	Sample Condition	: Sealed
	Dist - Paschim Barddhaman	Sample Stamped as	:TH-119
	West Bengal	Sample Drawn By	: ECO CARE
		Sampling Procedure	: EC/SOP/03/01
		Remarks	;
		Deviation if any	: None

1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Process Activity
3	Stack Connected to	: Lime Dolomite Calcinations Unit No. 4 (LDCP - 4)
4	Material of Construction	: M.S
5	Stack Height from G.L.	: 31.00 m
6	Height of Sampling Port from G.L.	: 20.00 m
7	Height of Sampling Port from L.D.Z.	1
8	Dimension of Stack at Sampling Port	: 1.0 m
9	Shape of the Stack	: Circular Ø
10	Working Load	
FU	EL CHARACTERISTIC REPORT	
1	Source of Energy	:
2	Energy Consumption	: ever
3	Calorific Value (K-Cal/Kg)	(Table)

	RESULTS OF SAMPLING GASEOUS EMISS	SION ANALYSIS	· UNIT	METHOD
1	Flue Gas Temperature	76	°C	IS 11255 : Part 3
2	Barometric Pressure	750	mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	7.95	m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	18963	NM ³ /hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	43.59	mg/NM ³	IS 11255 : Part 1

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Authorised Signatory

(A.15. Ro)

End of Test Report

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ULR NO - TC1513625000000038F

TEST REPORT

Report Release Date Test Report No Type of Sample Sample Collected by Sample Details Customer Name & Address	: 07.01.2025 : EC/TR/42/01013 : Dust & Gaseous Emission : Mr. Sumit Sarkar & Team : Stack Emission : SAIL - IISCO Steel Plant P.O Burnpur Dist - Paschim Barddhaman West Bengal	Sample Ref. No (ARF) Source of Sample Sampling Date Sample Registration Date Period of Analysis Sampling Location Sample Condition Sample Stamped as Sample Drawn By Sampling Procedure Remarks Deviation if any	: EC/ARF/29/250104 : Integrated Steel Plant : 04.01.2025 : 06.01.2025 : 06.01.2025 : Bag Filter Stack : Sealed : TH – 120 : ECO CARE : EC/SOP/03/01
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1 2 3 4 5 6 7 8 9	Particular of the Plant Emission Due to Stack Connected to Material of Construction Stack Height from G.L. Height of Sampling Port from G.L. Height of Sampling Port from L.D.Z. Dimension of Stack at Sampling Port Shape of the Stack Working Load	: Integrated Steel Plant : Process Activity : CDCP Outlet : M.S : 50.00 m : 20.00 m : : 1.60 m : Circular Ø
FU	EL CHARACTERISTIC REPORT	
1 2 3	Source of Energy Energy Consumption Calorific Value (K-Cal/Kg)	1 1

RESULTS OF SAMPLING GASEO 1 Flue Gas Temperature	05 EM1331	ON ANALYSIS	UNIT	METHOD
2 Barometric Pressure		69 750	°C	IS 11255 : Part 3
Velocity of Flue Gas Flue Gas Quantity		13.08	mm Hg m/sec	IS 11255 : Part 3 IS 11255 : Part 3
Concentration of Particulate Matter		81455 43.29	NM ³ / hr mg/NM ³	IS 11255 : Part 3

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ULR NO - TC1513625000000039F

TEST REPORT

Report Release Date	: 07.01.2025	Sample Ref. No.(ARF)	: EC/ARF/29/250104
Test Report No	: EC/TR/42/01014	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 04.01.2025
Sample Collected by	: Mr. Sumit Sarkar & Team	Sample Registration Date	: 06.01.2025
Sample Details	Stack Emission	Period of Analysis	: 06.01.2025
Customer Name &	: SAIL - IISCO Steel Plant	Sampling Location	: ESP Stack
Address	P.O. – Burnpur	Sample Condition	: Sealed
Addition	Dist – Paschim Barddhaman	Sample Stamped as	: TH - 121
	West Bengal	Sample Drawn By	: ECO CARE
	West Beligai	Sampling Procedure	: EC/SOP/03/01
		Remarks	****
		Deviation if any	: None

1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Process Activity
3	Stack Connected to	: Basic Oxygen Furnace (BOF)
4	Material of Construction	; M.S
5	Stack Height from G.L.	: 79.10 m
6	Height of Sampling Port from G.L.	: 35.0 m
7	Height of Sampling Port from L.D.Z.	;
8	Dimension of Stack at Sampling Port	: 4.52 m
9	Shape of the Stack	: Circular Ó
10	Working Load	: 150 MT/hr
FU	EL CHARACTERISTIC REPORT	
1	Source of Energy	
2	Energy Consumption	· · · · · · · · · · · · · · · · · · ·

	RESULTS OF SAMPLING GASEOUS EMIS	SION ANALYSIS	UNIT	METHOD
1	Flue Gas Temperature	62	°C	IS 11255 : Part 3
2	Barometric Pressure	750	mm Hg	IS 11255: Part 3
3	Velocity of Flue Gas	11.36	m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	576813	NM ³ /hr	IS 11255: Part 3
5	Concentration of Particulate Matter	47.18	mg/NM³	IS 11255 : Part 1
6	Concentration of SO ₂	114.18	mg/NM³	IS 11255 : Part 2

1. Test values are reported based on the samples received.

Calorific Value (K-Cal/Kg)

Sample(s) will be destroyed after 30 days from date of issues of the Test Report subject to nature of Preservation. Sample will be preserved as per the standard method.

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Contal

End of Test Report

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Specialised House on Environmental Monitoring, Analysis, Assessment & Management ISO 9001:2015 Certified, OHSAS 45001:2018 Certified

ULR NO - TC1513625000000040F .

TEST REPORT

Report Release Date Test Report No Type of Sample Sample Collected by Sample Details Customer Name & Address	: 08.01.2025 : EC/TR/42/01015 : Dust & Gaseous Emission : Mr. Sumit Sarkar & Team : Stack Emission : SAIL - IISCO Steel Plant P.O Burnpur Dist - Paschim Barddhaman West Bengal	Sample Ref. No.(ARF) Source of Sample Sampling Date Sample Registration Date Period of Analysis Sampling Location Sample Condition Sample Stamped as Sample Drawn By Sampling Procedure Remarks	: EC/ARF/29/250105 : Integrated Steel Plant : 06.01.2025 : 07.01.2025 : 07.01.2025 : Boiler Stack : Sealed & Preserved : TH – 122 : ECO CARE : EC/SOP/03/01
		Deviation if any	: None

: Integrated Steel Plant : Burning of Coal : Boiler – B : M.S : 31.00 m : 24.0 m : : 2.6 m : Circular Ø
: Coal, Co. Gas : Coal – 50 MT/hr, Co. Gas – 2250 MT/hr

1	RESULTS OF SAMPLING GASEO Flue Gas Temperature	703 EM118816	JN ANALYSIS	- UNIT	METHOD
2	Barometric Pressure	*	189 752	°C mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas Flue Gas Quantity		7.70	m/sec	IS 11255 : Part 3 IS 11255 : Part 3
5	Concentration of Particulate Matter		93750 57.91	NM³/ hr mg/NM³	IS 11255 : Part 3 IS 11255 : Part 1

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ULR NO - TC1513625000000041F

TEST REPORT

Report Release Date	: 08.01.2025	Sample Ref. No.(ARF)	: EC/ARF/29/250105
Test Report No	: EC/TR/42/01016	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 06.01.2025
Sample Collected by	: Mr. Sumit Sarkar & Team	Sample Registration Date	: 07.01.2025
Sample Details	: Stack Emission .	Period of Analysis	: 07.01.2025
Customer Name &	: SAIL - IISCO Steel Plant	Sampling Location	: Furnace Stack
Address	P.O Burnpur	Sample Condition	: Sealed & Preserved
	Dist - Paschim Barddhaman	Sample Stamped as	: TH - 123
	West Bengal	Sample Drawn By	: ECO CARE
		Sampling Procedure	: EC/SOP/03/01
		Remarks	-
		Deviation if any	: None

1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Burning of Mixed Gas
3	Stack Connected to	: Reheating Furnace (Bar Mill)
4	Material of Construction	: M.S
5	Stack Height from G.L.	: 65.00 m
6	Height of Sampling Port from G.L.	(
7	Height of Sampling Port from L.D.Z.	
8	Dimension of Stack at Sampling Port	: 3.02 m
9	Shape of the Stack	: Circular Ø
10	Working Load	: 88.84 MT/hr

FUEL CHARACTERISTIC REPORT

2	Source of Energy Energy Consumption	: CBM & BF Gas : 10.754 M³/hr	
3	Calorific Value (K-Cal/Kg)	ţ	

	RESULTS OF SAMPLING GASEOUS EMIS	SION ANALYSIS	UNIT	METHOD
1	Flue Gas Temperature	386	- °C	IS f1255 : Part 3
2	Barometric Pressure	752	mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	10.71	m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	123719	NM ³ / hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	14.39	mg/NM ³	IS 11255 : Part 1
6	Concentration of SO ₂	70.23	mg/NM ³	IS 11255 : Part 2

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3. The Test report shall not be reproduced, without the written approval of laboratory

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ULR NO - TC15136250000000042F

TEST REPORT

	PROPERTY AND ADDRESS OF THE PARTY OF THE PAR	I ARTH MEDITAL	
Report Release Date Test Report No Type of Sample Sample Collected by Sample Details Customer Name & Address	: 08.01.2025 : EC/TR/42/01017 : Dust & Gaseous Emission : Mr. Sumit Sarkar & Team : Stack Emission : SAIL - IISCO Steel Plant P.O Burnpur Dist - Paschim Barddhaman West Bengal	Sample Ref. No.(ARF) Source of Sample Sampling Date Sample Registration Date Period of Analysis Sampling Location Sample Condition Sample Stamped as Sample Drawn By Sampling Procedure Remarks Deviation if any	: EC/ARF/29/250105 : Integrated Steel Plant : 06.01.2025 : 07.01.2025 : 07.01.2025 : Furnace Stack : Sealed & Preserved : TH – 124 : ECO CARE : EC/SOP/03/01

GENERAL INFORMATION PROVIDED BY CUSTOMER

1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Burning of Mixed Gas
3	Stack Connected to	: Reheating Furnace (WRM)
4	Material of Construction	: M.S
5	Stack Height from G.L.	: 65.00 m
6	Height of Sampling Port from G.L.	
7	Height of Sampling Port from L.D.Z.	1
8	Dimension of Stack at Sampling Port	: 3.02 m
9	Shape of the Stack	: Circular Ó
10	Working Load	; 49.53 MT/hr

1	Source of Energy		: CBM & BF Gas
2	Energy Consumption	2	: 10.754 M ³ /hr
3	Calorific Value (K-Cal/Kg)		

	RESULTS OF SAMPLING GASEOUS EMIS	SION ANALYSIS	UNIT	METHOD
1	Flue Gas Temperature	311	°C	IS 11255 : Part 3
2	Barometric Pressure	752	mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	7.64	m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	99526	NM ³ /hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	11.72	mg/NM³	IS 11255 : Part 1
6	Concentration of SO ₂	76.59	mg/NM ³	IS 11255 : Part 2

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End of Test Report

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ULR NO - TC1513625000000043F

TEST REPORT

Report Release Date	: 08.01.2025	Sample Ref. No.(ARF)	: EC/ARF/29/250105
Test Report No	: EC/TR/42/01018	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 06.01.2025
Sample Collected by	: Mr. Sumit Sarkar & Team	Sample Registration Date	: 07.01.2025
Sample Details	: Stack Emission	Period of Analysis	: 07.01.2025
Customer Name &	: SAIL - IISCO Steel Plant	Sampling Location	: Furnace Stack
Address	P.O. – Burnpur	Sample Condition	: Sealed & Preserved
i della secto	Dist - Paschim Barddhaman	Sample Stamped as	: TH - 125
	West Bengal	Sample Drawn By	: ECO CARE
		Sampling Procedure	: EC/SOP/03/01
		Remarks	:
		Deviation if any	: None

1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Burning of Mixed Gas
3	Stack Connected to	: Reheating Furnace (USM)
4	Material of Construction	: M.S
5	Stack Height from G.L.	: 65.00 m
6	Height of Sampling Port from G.L.	1
7	Height of Sampling Port from L.D.Z.	
8	Dimension of Stack at Sampling Port	: 3.02 m
9	Shape of the Stack	: Circular Ø
10	Working Load	: 23.79 MT/hr
FU	EL CHARACTERISTIC REPORT	The second is seen to be a second in
1	Source of Energy	: CBM & BF Gas
2	Energy Consumption	: 10.754 M ³ /hr
3	Calorific Value (K-Cal/Kg)	

	RESULTS OF SAMPLING GASEOUS EMISSI	ON ANALYSIS	UNIT	METHOD
1	Flue Gas Temperature	185	°C	IS 11255 : Part 3
2	Barometric Pressure	752	mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	10.60	m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	176176	NM ³ /hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	13.19	mg/NM3	IS 11255 : Part 1
6	Concentration of SO ₂	51.81	mg/NM ³	IS 11255 : Part 2

1. Test válues are reported based on the samples received.

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ULR NO - TC1513625000000418F

TEST REPORT

Report Release Date Test Report No Type of Sample Sample Collected by Sample Details Customer Name & Address	: 27.02.2025 : EC/TR/42/02020 : Dust & Gaseous Emission : Mr. Sumit Sarkar & Team : Stack Emission : SAIL - IISCO Steel Plant P.O. – Burnpur Dist – Paschim Barddhaman West Bengal	Sample Ref. No.(ARF) Source of Sample Sampling Date Sample Registration Date Period of Analysis Sampling Location Sample Condition Sample Stamped as Sample Drawn By Sampling Procedure Remarks Deviation if any	: EC/ARF/29/250207 : Integrated Steel Plant : 25.02.2025 : 26.02.2025 : 26.02.2025 : Bag Filter Stack : Sealed : TH – 127 : ECO CARE : EC/SOP/03/01
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GENERAL INFORMATION PROVIDED BY CUSTOMER

1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Process Activity
3	Stack Connected to	: Lime Dolomite Calcinations Unit No# 4 (LDCP # 4)
4	Material of Construction	: M.S
5	Stack Height from G.L.	: 31.00 m
6	Height of Sampling Port from G.L.	: 20.00 m
7	Height of Sampling Port from L.D.Z.	
8	Dimension of Stack at Sampling Port	: 1.0 m
9	Shape of the Stack	: Circular Ø
10	Working Load	

FUEL CHARACTERISTIC REPORT

1	Source of Energy	
2	Energy Consumption	1 222
3 Calorific Value (K-Cal/Kg)	-	
	College Manager (College College Colle	

RESULTS OF SAMPLING GASEOUS	S EMISSION ANALYSIS	UNIT	METHOD
1 Flue Gas Temperature	71	°C	IS 11255 : Part 3
2 Barometric Pressure	752	mm Hg	IS 11255 : Part 3
Welocity of Flue Gas	8.05	m/sec	IS 11255 : Part 3
4 Flue Gas Quantity	19530	NM ³ /hr	IS 11255 : Part 3
Concentration of Particulate Matter	44.14	mg/NM ³	IS 11255 : Part 1

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ULR NO - TC1513625000000419F

TEST REPORT

Report Release Date Test Report No Type of Sample Sample Collected by Sample Details Customer Name & Address	: 27.02.2025 : EC/TR/42/02021 : Dust & Gaseous Emission : Mr. Sumit Sarkar & Team : Stack Emission : SAIL - IISCO Steel Plant P.O Burnpur Dist - Paschim Barddhaman West Bengal	Sample Ref. No.(ARF) Source of Sample Sampling Date Sample Registration Date Period of Analysis Sampling Location Sample Condition Sample Stamped as Sample Drawn By Sampling Procedure Remarks Deviation if any	: EC/ARF/29/250207 : Integrated Steel Plant : 25.02.2025 : 26.02.2025 : 26.02.2025 : Bag Filter Stack : Sealed : TH – 128 : ECO CARE : EC/SOP/03/01 :
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GENERAL INFORMATION PROVIDED BY CUSTOMER

		 t Court Diest
1 2 3 4	Particular of the Plant Emission Due to Stack Connected to Material of Construction Stack Height from G.L.	: Integrated Steel Plant : Process Activity : Lime Dolomite Calcinations Unit No#1 (LDCP # 1) : M.S : 31.00 m
6	Height of Sampling Port from G.L.	: 20.00 m
7 8 9	Height of Sampling Port from L.D.Z. Dimension of Stack at Sampling Port Shape of the Stack	: : 1.0 m : Circular Ø
10-	Working Load	\$

FUEL CHARACTERISTIC REPORT

1	Source of Energy	;
2	Energy Consumption	:
3	Calorific Value (K-Cal/Kg)	1 222

THE CLEROUS PMISSI	ON ANALYSIS	UNIT	METHOD
RESULTS OF SAMPLING GASEOUS EMISSION 1 Flue Gas Temperature 2 Barometric Pressure 3 Velocity of Flue Gas 4 Flue Gas Quantity 5 Concentration of Particulate Matter	74 752 7.65 18397 46.23	mm Hg m/sec NM ³ / hr mg/NM ³	IS 11255 : Part 3 IS 11255 : Part 3 IS 11255 : Part 3 IS 11255 : Part 3 IS 11255 : Part 3

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ULR NO - TC1513625000000420F

TEST REPORT

Report Release Date Test Report No Type of Sample Sample Collected by Sample Details Customer Name & Address 27.02,2025 : EC/TR/42/02022 : Dust & Gaseous Emission : Mr. Sumit Sarkar & Team : Stack Emission : SAIL - IISCO Steel Plant P.O Burnpur Dist - Paschim Barddhaman West Bengal	Sample Ref. No.(ARF) Source of Sample Sampling Date Sample Registration Date Period of Analysis Sampling Location Sample Condition Sample Stamped as Sample Drawn By Sampling Procedure Remarks Deviation if any	: EC/ARF/29/250207 : Integrated Steel Plant : 25.02.2025 : 26.02.2025 : 26.02.2025 : ESP Stack : Sealed : TH – 129 : ECO CARE : EC/SOP/03/01
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GENERAL INFORMATION PROVIDED BY CUSTOMER

1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Process Activity
3	Stack Connected to	: BF # 05 (Stove)
4	Material of Construction	: M.S
5	Stack Height from G.L.	: 70.00 m
6	Height of Sampling Port from G.L.	1
7	Height of Sampling Port from L.D.Z.	* was
8	Dimension of Stack at Sampling Port	: 5.7 m
9	Shape of the Stack	: Circular Ø
10	. Working Load	: 200000 M ³ /hr

FUEL CHARACTERISTIC REPORT

1	Source of Energy	: BF Gas
2	Energy Consumption	: 200000 M ³ /hr
3	Calorific Value (K-Cal/Kg)	

	RESULTS OF SAMPLING GASEOUS EMIS	SION ANALYSIS	UNIT	METHOD
1	Flue Gas Temperature	169	°C	IS 11255 : Part 3
2	Barometric Pressure	752	mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	13.18	m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	808378	NM ³ / hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	12.11	mg/NM ³	IS 11255 : Part 1

1. Test values are reported based on the samples received.

2. Sample(s) will be destroyed after 7 days from date of issues of the Test Report subject to nature of Preservation. Sample will be preserved as per the standard method.

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TEST REPORT

Report Release Date	: 28.02.2025	Sample Ref. No.(ARF)	: EC/ARF/29/250208
Test Report No	: EC/TR/42/02023	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 26.02.2025
Sample Collected by	: Mr. Sumit Sarkar & Team	Sample Registration Date	: 27.02.2025
Sample Details	: Stack Emission	Period of Analysis	: 27.02.2025
Customer Name &	: SAIL - IISCO Steel Plant	Sampling Location	: Oven Stack
Address	P.O. – Burnpur	Sample Condition	: Sealed & Preserved
	Dist - Paschim Barddhaman	Sample Stamped as	: TH - 130
	West Bengal	Sample Drawn By	: ECO CARE
		Sampling Procedure	: EC/SOP/03/01
		Remarks	: mann
		Deviation if any	: None

GENERAL INFORMATION PROVIDED BY CUSTOMER

1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Process Activity
3	Stack Connected to	: Coke Oven Battery No. #10
4	Material of Construction	: R.C.C
5	Stack Height from G.L.	: 110.00 m
6	Height of Sampling Port from G.L.	: 28.00 m
7	Height of Sampling Port from L.D.Z.	:
8	Dimension of Stack at Sampling Port	: 3.5 m
9	Shape of the Stack	: Circular Ó
10	Working Load	: 35 MT/hr

FUEL CHARACTERISTIC REPORT

1	Source of Energy	: Coke Oven Gas
2	Energy Consumption	: 9500 M ³ /hr
3	Calorific Value (K-Cal/Kg)	

	RESULTS OF SAMPLING GASEOUS EMISS	SION ANALYSIS	UNIT	METHOD
1	Flue Gas Temperature	146	°C	IS 11255 : Part 3
2	Barometric Pressure	752	mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	8.22	m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	200580	NM ³ /hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	29.12	mg/NM ³	IS 11255 : Part 1
6	Concentration of Carbon Dioxide	8.8	%	IS 13270
7	Concentration of SO ₂	126.26	mg/NM ³	IS 11255 : Part 2
8	Concentration of NO _x	85.98	mg/NM3	IS 11255 : Part 7

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ULR NO - TC1513625000000422F

TEST REPORT

Report Release Date	: 28.02.2025	Sample Ref. No.(ARF)	: EC/ARF/29/250208
Test Report No	: EC/TR/42/02024	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 26.02.2025
Sample Collected by	: Mr. Sumit Sarkar & Team	Sample Registration Date	: 27.02.2025
Sample Details	: Stack Emission	Period of Analysis	: 27.02.2025
Customer Name &	: SAIL - IISCO Steel Plant	Sampling Location	: Oven Stack
Address	P.O. – Burnpur	Sample Condition	: Sealed & Preserved
	Dist - Paschim Barddhaman	Sample Stamped as	: TH - 131
	West Bengal	Sample Drawn By	: ECO CARE
		Sampling Procedure	: EC/SOP/03/01
		Remarks	* ***
		Deviation if any	: None

GENERAL INFORMATION PROVIDED BY CUSTOMER

1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Process Activity
3	Stack Connected to	: Coke Oven Battery No. #11
4	Material of Construction	: R.C.C
5	Stack Height from G.L.	: 120.00 m
6	Height of Sampling Port from G.L.	: 36.00 m
7	Height of Sampling Port from L.D.Z.	A Section of the Control of the Cont
8	Dimension of Stack at Sampling Port	: 5.80 m
9	Shape of the Stack	: Circular Ø
10	Working Load	: 2150 MT/hr
	PART TO STATE OF THE STATE OF T	

FUEL CHARACTERISTIC REPORT

1	Source of Energy	: Coke Oven Gas
2	Energy Consumption	: 2005000 M ³ /hr
3	Calorific Value (K-Cal/Kg)	1

	RESULTS OF SAMPLING GASEOUS EMIS	SION ANALYSIS	UNIT	METHOD
1	Flue Gas Temperature	192	°C	IS 11255 : Part 3
2	Barometric Pressure	752	mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	9.53	m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	575395	NM ³ /hr	IS 11255 : Part 3
5	. Concentration of Particulate Matter	43.62	mg/NM ³	IS 11255 : Part 1
5	Concentration of Carbon Dioxide	8.8	%	IS 13270
7	Concentration of SO ₂	147.88	mg/NM3	IS 11255 : Part 2
8	Concentration of NO _x	92.48	mg/NM³	IS 11255 : Part 7

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ULR NO - TC1513625000000424F

TEST REPORT

Report Release Date Test Report No Type of Sample Sample Collected by Sample Details Customer Name & Address	: 28.02.2025 : EC/TR/42/02026 : Dust & Gaseous Emission : Mr. Sumit Sarkar & Team : Stack Emission : SAIL - IISCO Steel Plant P.O. – Burnpur Dist – Paschim Barddhaman West Bengal	Sample Ref. No.(ARF) Source of Sample Sampling Date Sample Registration Date Period of Analysis Sampling Location Sample Condition Sample Stamped as Sample Drawn By Sampling Procedure Remarks	: EC/ARF/29/250208 : Integrated Steel Plant : 26.02.2025 : 27.02.2025 : 27.02.2025 : Boiler Stack : Sealed & Preserved : TH – 133 : ECO CARE : EC/SOP/03/01
		Deviation if any	: None

GENERAL INFORMATION PROVIDED BY CUSTOMER

1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Burning of Coal
3	Stack Connected to	: Boiler – B
4	Material of Construction	; M.S
5	Stack Height from G.L.	: 31.00 m
6	Height of Sampling Port from G.L.	: 24.0 m
7	Height of Sampling Port from L.D.Z.	4
8	Dimension of Stack at Sampling Port	: 2.6 m
9	Shape of the Stack	: Circular Ø
10.	Working Load	: 18 TPH

FUEL CHARACTERISTIC REPORT

1	Source of Energy	: Coal, Co. Gas
2	Energy Consumption	: Coal - 50 MT/hr, Co. Gas - 2250 MT/hr
3	Calorific Value (K-Cal/Kg)	Same a

RESULTS OF SAMPLING GASEOUS	EMISSION ANALYSIS	UNIT	METHOD
Flue Gas Temperature	168	"C	IS 11255 : Part 3
2 Barometric Pressure	752	mm Hg	IS 11255 : Part 3
3 Velocity of Flue Gas	8.12	m/sec	IS 11255 : Part 3
	103879	NM ³ /hr	IS 11255 : Part 3
5 Concentration of Particulate Matter	48.15	mg/NM3	IS 11255 : Part

1. Test values are reported based on the samples received.

Sample(s) will be destroyed after 30 days from date of issues of the Test Report subject to nature of Preservation. Sample will be preserved as per the standard method.

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SAIL ISP BURNPUR





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ULR NO - TC1513625000000425F

TEST REPORT

Report Release Date	: 03.03.2025	Comple Def Messes	
Test Report No	: EC/TR/42/02027	Sample Ref. No.(ARF)	: EC/ARF/29/250209
Type of Sample		Source of Sample	: Integrated Steel Plant
	: Dust & Gaseous Emission	Sampling Date	: 28.02.2025
Sample Collected by	: Mr. Sumit Sarkar & Team	Sample Registration Date	: 01.03.2025
Sample Details	: Stack Emission	Period of Analysis	: 01.03.2025
Customer Name &	: SAIL - IISCO Steel Plant	Sampling Location	: Furnace Stack
Address	P.O. – Burnpur	Sample Condition	: Sealed & Preserved
	Dist - Paschim Barddhaman	Sample Stamped as	: TH – 134
West Benga	West Bengal	Sample Drawn By	: ECO CARE
		Sampling Procedure	: EC/SOP/03/01
		Remarks	2
		Deviation if any	: None

GENERAL INFORMATION PROVIDED BY CUSTOMER

1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Burning of Mixed Gas
3	Stack Connected to	: Reheating Furnace (WRM)
4	Material of Construction	: M.S
5	Stack Height from G.L.	: 65.00 m
6	Height of Sampling Port from G.L.	·
7	Height of Sampling Port from L.D.Z.	2000
8	Dimension of Stack at Sampling Port	; 3.02 m
9	Shape of the Stack	: Circular Ó
10	Working Load	: 49.53 MT/hr

FUEL CHARACTERISTIC REPORT

1	Source of Energy	: CBM & BF Gas
2	Energy Consumption	: 10.754 M ³ /hr
3	Calorific Value (K-Cal/Kg)	E

	RESULTS OF SAMPLING GASEOUS EMIS	SION ANALYSIS	UNIT	METHOD
1	Flue Gas Temperature	298	°C	IS 11255 : Part 3
2	Barometric Pressure	750	mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	7.76	m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	103152	NM ³ /hr	IS 11255 : Part 3
5	. Concentration of Particulate Matter	15.62	mg/NM ³	IS 11255 : Part 1
6	Concentration of SO ₂	80.27	mg/NM ³	IS 11255 : Part 2

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ULR NO - TC1513625000000426F

TEST REPORT

Report Release Date Test Report No Type of Sample Sample Collected by Sample Details Customer Name & Address	: 03.03.2025 : EC/TR/42/02028 : Dust & Gaseous Emission : Mr. Sumit Sarkar & Team : Stack Emission : SAIL - IISCO Steel Plant P.O Burnpur Dist - Paschim Barddhaman West Bengal	Sample Ref. No.(ARF) Source of Sample Sampling Date Sample Registration Date Period of Analysis Sampling Location Sample Condition Sample Stamped as Sample Drawn By Sampling Procedure Remarks Deviation if any	: EC/ARF/29/250209 : Integrated Steel Plant : 28.02.2025 : 01.03.2025 : 01.03.2025 : Furnace Stack : Sealed & Preserved : TH – 135 : ECO CARE : EC/SOP/03/01 : : None
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GENERAL INFORMATION PROVIDED BY CUSTOMER

Particular of the Plant Emission Due to Stack Connected to Material of Construction Stack Height from G.L. Height of Sampling Port from G.L. Height of Sampling Port from L.D.Z. Dimension of Stack at Sampling Port Shape of the Stack Working Load	: Integrated Steel Plant : Burning of Mixed Gas : Reheating Furnace (USM) : M.S : 65.00 m : : 3.02 m : Circular Ø : 23.79 MT/hr
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FUEL CHARACTERISTIC REPORT

	CDAL & DE Cas
1 Source of Energy	: CBM & BF Gas : 10.754 M³/hr
2 Energy Consumption	, 10.754 141 /111
3 Calorific Value (K-Cal/Kg)	[

S - SPOVE EMISSI	ON ANALYSIS	UNIT	METHOD
RESULTS OF SAMPLING GASEOUS EMISSION Flue Gas Temperature Barometric Pressure Velocity of Flue Gas Flue Gas Quantity Concentration of Particulate Matter Concentration of SO ₂	179 752 10.35 173857 14.29 49.62	mm Hg m/sec NM³/ hr mg/NM³ mg/NM³	IS 11255 : Part 3 IS 11255 : Part 3 IS 11255 : Part 3 IS 11255 : Part 3 IS 11255 : Part 1 IS 11255 : Part 2

1. Test values are reported based on the samples received.

2. Sample(s) will be destroyed after 30 days from date of issues of the Test Report subject to nature of Preservation. Sample will be preserved as per the standard method.

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ULR NO - TC1513625000000427F

TEST REPORT

Report Release Date Test Report No Type of Sample Sample Collected by Sample Details Customer Name & Address	: 03.03.2025 : EC/TR/42/02029 : Dust & Gaseous Emission : Mr. Sumit Sarkar & Team : Stack Emission : SAIL - HSCO Steel Plant P.O. – Burnpur Dist – Paschim Barddhaman West Bengal	Sample Ref. No (ARF) Source of Sample Sampling Date Sample Registration Date Period of Analysis Sampling Location Sample Condition Sample Stamped as Sample Drawn By Sampling Procedure Remarks Deviation if any	: EC/ARF/29/250209 : Integrated Steel Plant : 28.02.2025 : 01.03.2025 : 01.03.2025 : ESP Stack : Sealed & Preserved : TH – 136 : ECO CARE : EC/SOP/03/01
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GENERAL INFORMATION	PROVIDED	BY	CUSTOMER

1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Combustion of CO gas
3	Stack Connected to	: Sinter Plant # 01
4	Material of Construction	· : R.C.C
5	Stack Height from G.L.	: 85.00 m
6	Height of Sampling Port from G.L.	: 50.00 m
7	Height of Sampling Port from L.D.Z.	1 marine
8	Dimension of Stack at Sampling Port	: 5.7 m
9	Shape of the Stack	: Circular Ó
10	Working Load	: 5880MT /hr

FUEL CHARACTERISTIC REPORT

1	Source of Energy	: CO Gas
2	Energy Consumption	: CO Gas 2250 M ³ / hr
3	Calorific Value (K-Cal/Kg)	

	RESULTS OF SAMPLING GASEOUS EMIS	SION ANALYSIS	UNIT	METHOD
1	Flue Gas Temperature	139	°C	IS 11255 : Part 3
2	Barometric Pressure	750	mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	13.02	m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	854446	NM ³ /hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	45.65	mg/NM ³	IS 11255 : Part 1
6	Concentration of Carbon Dioxide	8.4	%	IS 13270
7	Concentration of SO ₂	134.14	mg/NM ³	IS 11255 : Part 2
8	Concentration of NO _x	95.27	mg/NM ³	IS 11255 : Part 7

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ULR NO-TC1513625000000428F

TEST REPORT

Report Release Date	: 03.03.2025	Sample Ref. No.(ARF)	: EC/ARF/29/250209
Test Report No	: EC/TR/42/02030	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 28.02.2025
Sample Collected by	: Mr. Sumit Sarkar & Team	Sample Registration Date	: 01.03.2025
Sample Details	: Stack Emission	Period of Analysis	: 01.03.2025
Customer Name &	: SAIL - IISCO Steel Plant	Sampling Location	: ESP Stack
Address	P.O. – Burnpur	Sample Condition	: Sealed & Preserved
	Dist - Paschim Barddhaman	Sample Stamped as	: TH - 137
	West Bengal	Sample Drawn By	: ECO CARE
		Sampling Procedure	: EC/SOP/03/01
		Remarks	;
		Deviation if any	: None

CENEDAL	INFORMATION	PROVIDED BY	CUSTOMER
TENTRAL	INFORMATION	LICOVIDED DI	COSTONIEN

1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Combustion of CO gas
3	Stack Connected to	: Sinter Plant # 02
4	Material of Construction	: R.C.C
5	Stack Height from G.L.	: 85.00 m
6	Height of Sampling Port from G.L.	: 50.00 m
7	Height of Sampling Port from L.D.Z.	·
8	Dimension of Stack at Sampling Port	: 5.7 m
9	Shape of the Stack	: Circular Ø
10	Working Load	: 10422 MT /hr

FUEL CHARACTERISTIC REPORT

Calorific Value (K-Cal/Kg)

	Source of Energy	1
M³/hr	Energy Consumption	2
	Energy Consumption	2

_	RESULTS OF SAMPLING GASEOUS EMIS	SION ANALYSIS	UNIT	METHOD
1	Flue Gas Temperature	132	°C	IS 11255 : Part 3
2	Barometric Pressure	750	mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	13.12	m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	877411	NM ³ /hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	41.99	mg/NM ³	IS 11255 : Part 1
6	Concentration of Carbon Dioxide	8.6	%	IS 13270
7	Concentration of SO ₂	149.13	mg/NM ³	IS 11255 : Part 2
8	Concentration of NO _x	95.71	mg/NM3	IS 11255: Part 7

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रहाप्रवधक (पर्यावरण प्रवधन Ph.D.(Env.), Solem (SM (Environ, Mgmt.) Authorised Signatory जार ता. वर्तपुर SAIL-ISP, BURNPUR



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ULR NO - TC1513625000000566F

TEST REPORT

Report Release Date Test Report No Type of Sample Sample Collected by Sample Details Customer Name & Address	: 21.03.2025 : EC/TR/42/03018 : Dust & Gaseous Emission : Mr. Sumit Sarkar & Team : Stack Emission : SAIL - HSCO Steel Plant P.O Burnpur Dist - Paschim Barddhaman	Sample Ref. No.(ARF) Source of Sample Sampling Date Sample Registration Date Period of Analysis Sampling Location Sample Condition	: EC/ARF/29/250313 Integrated Steel Plant : 19.03.2025 : 20.03.2025 : 20.03.2025 : ESP Stack : Sealed
			: ESP Stack

GENERAL INFORMATION	PROVIDED BY	CUSTOMER
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1 2 3 4 5 6 7	Particular of the Plant Emission Due to Stack Connected to Material of Construction Stack Height from G.L. Height of Sampling Port from G.L. Height of Sampling Port from L.D.Z.	: Integrated Steel Plant : Process Activity : BF # 5 (Cast House No. 01) : M.S : 31.00 m : 20.00 m	- 18
9	Dimension of Stack at Sampling Port Shape of the Stack Working Load	: 3.85 m : Circular Ø	

FUEL CHARACTERISTIC REPORT

1	Source of Energy	
2	Energy Consumption	The state of the s
	Calorific Value (K-Cal/Kg)	Anne
Mr.	calornic value (K-Cal/Kg)	****

RESULTS OF SAMPLING GASEOUS EMIS Flue Gas Temperature	SION ANALYSIS	UNIT	METHOD
Barometric Pressure Velocity of Flue Gas Flue Gas Quantity Concentration of Particulate Matter	76 752 13.26 469966 45.94	mm Hg m/sec NM³/ hr mg/NM³	IS 11255: Part 3 IS 11255: Part 3 IS 11255: Part 3 IS 11255: Part 3 IS 11255: Part 1

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ULR NO - TC1513625000000567F

TEST REPORT

Report Release Date Test Report No Type of Sample Sample Collected by Sample Details Customer Name & Address	: 21.03.2025 : EC/TR/42/03019 : Dust & Gaseous Emission : Mr. Sumit Sarkar & Team : Stack Emission .: SAIL - HSCO Steel Plant P.O. – Burnpur Dist – Paschim Barddhaman West Bengal	Sample Ref. No.(ARF) Source of Sample Sampling Date Sample Registration Date Period of Analysis Sampling Location Sample Condition Sample Stamped as Sample Drawn By Sampling Procedure Remarks Deviation if any	: EC/ARF/29/250313 : Integrated Steel Plant : 19.03.2025 : 20.03.2025 : 20.03.2025 : ESP Stack : Sealed : TH – 139 : ECO CARE : EC/SOP/03/01
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GENERAL INFORMATION PROVIDED BY CUSTOMER

1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to Stack Connected to	: Process Activity : BF # 5 (Cast House No. 02)
4	Material of Construction	: M.S
5	Stack Height from G.L.	: 31,00 m
6	Height of Sampling Port from G.L.	; 20.00 m
7	Height of Sampling Port from L.D.Z.	[
8	Dimension of Stack at Sampling Port	: 3.85 m
9	Shape of the Stack	: Circular Ø
10	Working Load	Canan

FUEL CHARACTERISTIC REPORT

1	Source of Energy		
2	Energy Consumption		
3	Calorific Value (K-Cal/Kg)	:	

	RESULTS OF SAMPLING GASEOUS EMISS	SION ANALYSIS	UNIT	METHOD
1 2	Flue Gas Temperature Barometric Pressure	72 752	°C mm Hg	IS 11255 : Part 3 IS 11255 : Part 3
3	Velocity of Flue Gas	13.43 481610	m/sec NM ³ / hr	IS 11255 : Part 3 IS 11255 : Part 3
5	Flue Gas Quantity Concentration of Particulate Matter	43.57	mg/NM ³	IS 11255 : Part 1

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Dr. Mousumi Pal Ph.D.(Env.), Scientist Authorised Signatory

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ULR NO - TC1513625000000568F

TEST REPORT

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Report Release Date Test Report No Type of Sample Sample Collected by Sample Details Customer Name & Address	: 21.03.2025 : EC/TR/42/03020 : Dust & Gaseous Emission : Mr. Sumit Sarkar & Team : Stack Emission : SAIL - IISCO Steel Plant P.O Burnpur Dist - Paschim Barddhaman West Bengal	Sample Ref. No.(ARF) Source of Sample Sampling Date Sample Registration Date Period of Analysis Sampling Location Sample Condition Sample Stamped as Sample Drawn By Sampling Procedure Remarks Deviation if any	: EC/ARF/29/250313 : Integrated Steel Plant : 19.03.2025 : 20.03.2025 : 20.03.2025 : ESP Stack : Sealed : TH – 140 : ECO CARE	
	Dist - Paschim Barddhaman	Sample Stamped as Sample Drawn By Sampling Procedure Remarks	: TH – 140 : ECO CARE : EC/SOP/03/01	

GENERAL INFORMATION PROVIDED BY CUSTOMER

1 2 3 4 5 6 7 8	Particular of the Plant Emission Due to Stack Connected to Material of Construction Stack Height from G.L. Height of Sampling Port from G.L. Height of Sampling Port from L.D.Z.	: Integrated Steel Plant : Process Activity : BF # 5 (Stock House) : M.S : 31.00 m : 20.00 m
9	Dimension of Stack at Sampling Port Shape of the Stack	: 3.85 m : Circular Ø
10	Working Load	:

FUEL CHARACTERISTIC REPORT

1 Source of Energy	1
2 Energy Consumption	Meson .
3 Calorific Value (K-Cal/Kg)	

	DECLITE OF CAMPITAL CHORSE		IVO	_	*
1	RESULTS OF SAMPLING GASEOUS E	MISSION	ANALYSIS	UNIT	METHOD
4.	Flue Gas Temperature		67	°C	IS 11255 : Part 3
2	Barometric Pressure		752	mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas		13.00	m/sec	
4	Flue Gas Quantity				IS 11255 : Part 3
5			473256	NM / hr	IS 11255 : Part 3
9	Concentration of Particulate Matter		41.38	mg/NM	IS 11255 : Part 1

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Authorised Signatory

End of Test Report

Dr. Mousumi Pal Ph.D.(Env.), Scientist Authorised Signatury

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ULR NO - TC1513625000000569F

TEST REPORT

Report Release Date	: 22.03.2025	Sample Ref. No.(ARF)	: EC/ARF/29/250314
Test Report No	: EC/TR/42/03021	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 20.03.2025
Sample Collected by	: Mr. Sumit Sarkar & Team	Sample Registration Date	: 21.03.2025
Sample Details	: Stack Emission	Period of Analysis	: 21.03.2025
Customer Name &	: SAIL - IISCO Steel Plant	Sampling Location	: E.S.P Stack
Address	P.O Burnpur	Sample Condition	: Sealed & Preserved
	Dist - Paschim Barddhaman	Sample Stamped as	: TH - 141
	West Bengal	Sample Drawn By	: ECO CARE
	9	Sampling Procedure	: EC/SOP/03/01
		Remarks	1
		Deviation if any	: None

GENERAL INFORMATION PROVIDED BY CUSTO	MER	R
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1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Combustion of Coke Oven Gas
3	Stack Connected to	: Sinter Plant No. # 01
4	Material of Construction	; R.C.C
5	Stack Height from G.L.	: 85.0 m
6	Height of Sampling Port from G.L.	: 50.0 m
7	Height of Sampling Port from L.D.Z.	;
8	Dimension of Stack at Sampling Port	: 5.7 m
9	Shape of the Stack	: Circular Ø
10	Working Load	: 5880 MT/day

FUEL CHARACTERISTIC REPORT

rt	TUEL CHARACTERISTIC REPORT			
1	Source of Energy	: Coke Oven Gas		
2	Energy Consumption	: 6002 M hr		
3	Calorific Value (K-Cal/Kg)	(Inter-		

	RESULTS OF SAMPLING GASEOUS EMIS	SION ANALYSIS	UNIT	METHOD
1	Flue Gas Temperature	149	°C	IS 11255 : Part 3
2	Barometric Pressure	754	mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	13.41	m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	864090	NM ³ /hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	45.82	mg/NM ³	IS 11255 : Part 1
6	Concentration of SO	129.29	mg/NM ³	IS 11255 : Part 2
7	Concentration of NOs	84.60	mg/NM3	IS 11255 : Part 7

1. Test values are reported based on the samples received.

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Authorised Signatory

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Dr. Mousumi Pal Ph.D.(Env.), Scientist Authorised Signatory

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ULR NO - TC1513625000000570F

TEST REPORT

Report Release Date	: 22.03.2025	Sample Ref. No.(ARF)	: EC/ARF/29/250314
Test Report No	: EC/TR/42/03022	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 20.03.2025
Sample Collected by	: Mr. Sumit Sarkar & Team	Sample Registration Date	: 21.03.2025
Sample Details	: Stack Emission	Period of Analysis	: 21.03.2025
Customer Name &	: SAIL - IISCO Steel Plant	Sampling Location	: E.S.P Stack
Address	P.O Burnpur	Sample Condition	: Sealed & Preserved
	Dist - Paschim Barddhaman	Sample Stamped as	: TH - 142
	West Bengal	Sample Drawn By	: ECO CARE
		Sampling Procedure	: EC/SOP/03/01
		Remarks	*
		Deviation if any	: None

GENERAL INFORMATION PROVIDED BY CUSTOMER

1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Combustion of Coke Oven Gas
3	Stack Connected to	: Sinter Plant No. # 02
4	Material of Construction	: R.C.C
5	Stack Height from G.L.	: 85.0 m
6	Height of Sampling Port from G.L.	: 50.0 m
7	Height of Sampling Port from L.D.Z.	
8	Dimension of Stack at Sampling Port	: 5.7 m
9	Shape of the Stack	: Circular Ø
10	Working Load	: 10422 MT/day

ru	FUEL CHARACTERISTIC REPORT					
1	Source of Energy	: Coke Oven Gas				
2	Energy Consumption	: 7000 M³/hr				
)	Calorific Value (K-Cal/Kg)	1				

	RESULTS OF SAMPLING GASEOUS EMIS	SION ANALYSIS	UNIT	METHOD
1	Flue Gas Temperature	156	^D C	1S 11255 : Part 3
2	Barometric Pressure	754	mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	13.62	m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	862902	NM³/hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	48.16	mg/NM ³	IS 11255 : Part 1
6	Concentration of SO ₂	140.93	mg/NM ³	IS 11255 : Part 2
7	Concentration of NO _x	91.09	mg/NM ³	IS 11255 : Part 7

1. Test values are reported based on the samples received.

2. Sample(s) will be destroyed after 30 days from date of issues of the Test Report subject to nature of Preservation. Sample will be preserved as per the standard method.

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Authorised Signatory

Dr. Mousumi Pal Ph.D.(Env.), Scientist Authorised Signator

महत्त्वक महाप्रवर्गक (प्रयोगस्य) प्रवर्गः AGM (Environ, Mgmt.) AUM LEIWING MATTER





Email: ecocareasansol@rediffmail.com Manoj Talkies Basement, Kumarpur Asansol - 713304 Dist. Paschim Bardhaman (W.B.)

Specialised House on Environmental Monitoring, Analysis, Assessment & Management ISO 9001:2015 Certified, OHSAS 45001:2018 Certified

ULR NO - TC1513625000000571F

TEST REPORT

Report Release Date Test Report No Type of Sample Sample Collected by Sample Details Customer Name & Address	: 22.03.2025 : EC/TR/42/03023 : Dust & Gaseous Emission : Mr. Sumit Sarkar & Team : Stack Emission : SAIL - IISCO Steel Plant P.O Burnpur Dist - Paschim Barddhaman West Bengal	Sample Ref. No.(ARF) Source of Sample Sampling Date Sample Registration Date Period of Analysis Sampling Location Sample Condition Sample Stamped as Sample Drawn By Sampling Procedure Remarks Deviation if any	: EC/ARF/29/250314 : Integrated Steel Plant : 20.03.2025 : 21.03.2025 : 21.03.2025 : Bag Filter Stack : Sealed : TH – 143 : ECO GARE : EC/SOP/03/01
--	---	--	--

1 2 3 4 5 6 7 8 9	Particular of the Plant Emission Due to Stack Connected to Material of Construction Stack Height from G.L. Height of Sampling Port from G.L. Height of Sampling Port from L.D.Z. Dimension of Stack at Sampling Port Shape of the Stack Working Load	: Integrated Steel Plant : Process Activity : Lime Dolomite Calcinations Unit No. 4 (LDCP – 4 : M.S : 31.00 m : 20.00 m : : 1.0 m : Circular Ø
FU	EL CHARACTERISTIC REPORT	
1	Source of Energy	7,000
2	Energy Consumption	Taran
2	Calorific Value (K-Cal/Kg)	(consection)

	UNIT	· METHOD
	⁰ C mm Hg	IS 11255 : Part 3 IS 11255 : Part 3
2	m/sec NM ³ / hr mg/NM ³	IS 11255 : Part 3 IS 11255 : Part 3 IS 11255 : Part 1
2		mg/NM ³

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End of Test Report

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ULR NO - TC1513625000000572F

TEST REPORT

Report Release Date Test Report No Type of Sample Sample Collected by Sample Details Customer Name & Address	: 22,03,2025 : EC/TR/42/03024 : Dust & Gaseous Emission : Mr. Sumit Sarkar & Team : Stack Emission : SAIL - IISCO Steel Plant P.O. – Burnpur Dist – Paschim Barddhaman West Bengal	Sample Ref. No (ARF) Source of Sample Sampling Date Sample Registration Date Period of Analysis Sampling Location Sample Condition Sample Stamped as Sample Drawn By Sampling Procedure Remarks Deviation if any	: EC/ARF/29/250314 : Integrated Steel Plant : 20.03.2025 : 21.03.2025 : 21.03.2025 : Bag Filter Stack : Sealed : TH – 144 : ECO CARE : EC/SOP/03/01
--	--	--	--

1 2 3 4 5 6 7 8 9	Particular of the Plant Emission Due to Stack Connected to Material of Construction Stack Height from G.L. Height of Sampling Port from G.L. Height of Sampling Port from L.D.Z. Dimension of Stack at Sampling Port Shape of the Stack Working Load	: Integrated Steel Plant : Process Activity : Lime Dolomite Calcinations Unit No. 1 (LDCP - 1) : M.S : 31.00 m : 20.00 m : : 1.0 m : Circular Ø
FU	EL CHARACTERISTIC REPORT	
1 2 3	Source of Energy Energy Consumption Calorific Value (K-Cal/Kg)	;

1	RESULTS OF SAMPLING GASEOUS EMIS	SION ANALYSIS	UNIT	METHOD
A.	Flue Gas Temperature	71	n _C	IS 11255 : Part 3
2	Barometric Pressure	754	mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	7.50	m/sec	
1	Flue Gas Quantity	18257	1200272	IS 11255 : Part 3
	Concentration of Particulate Matter	2000	NM'/hr	IS 11255 : Part 3
_	Concentration of Particulate Matter	40.78	mg/NM ³	IS 11255 : Part 1

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Dr. Mousum! Pal Ph.D.(Env.), Scientist Authorised Signstory

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AGM (Environ, Mgmt.)







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ULR NO - TC1513625000000574F

TEST REPORT

	I LUI INC	· On ·	
Report Release Date Test Report No Type of Sample Sample Collected by Sample Details Customer Name & Address	: 23.03.2025 : EC/TR/42/03026 : Dust & Gaseous Emission : Mr. Sumit Sarkar & Team : Stack Emission : SAIL - IISCO Steel Plant P.O. – Burnpur Dist – Paschim Barddhaman West Bengal	Sample Ref. No.(ARF) Source of Sample Sampling Date Sample Registration Date Period of Analysis Sampling Location Sample Condition Sample Stamped as Sample Drawn By Sampling Procedure Remarks Deviation if any	: EC/ARF/29/250315 : Integrated Steel Plant : 21.03.2025 : 22.03.2025 : 22.03.2025 : Boiler Stack : Sealed & Preserved : TH – 146 : ECO CARE : EC/SOP/03/01

-		Charles and the Control of the Contr
1	Particular of the Plant	: Integrated Steel Plant
1	Paris in Post to	· Compustion of RF Gas

2 Emission Due to : Combustion of BF Gas 3 Stack Connected to : Boiler No. # 03

4 Material of Construction ; M.S
5 Duct Height from G.L. : 0.9144 m
6 Height of Sampling Port from G.L. : 2.4384 m
7 Height of Sampling Port from L.D.Z. :----

GENERAL INFORMATION PROVIDED BY CUSTOMER

8 Dimension of Duct at Sampling Port : 2.5m x 2.0m 9 Shape of the Duct : Rectangular 10 Working Load : 150 TPH

FUEL CHARACTERISTIC REPORT

1 Source of Energy : Mixed Gas & Co. Gas 2 Energy Consumption : 11,7,2000 M³/day

Calorific Value (K-Cal/Kg)

RESULTS OF SAMPLING GASEOUS EMIS	SION ANALYSIS	UNIT	METHOD
Flue Gas Temperature Barometric Pressure Velocity of Flue Gas Flue Gas Quantity Concentration of Particulate Matter Concentration of Carbon Dioxide	138 755 12.67 165258 19.08 7.4	mm Hg m/sec NM ³ / hr mg/NM ³ %	IS 11255 : Part 3 IS 11255 : Part 3 IS 11255 : Part 3 IS 11255 : Part 3 IS 11255 : Part 1 IS 13270

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Authorised Signatory

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Dr. Mousumi Pal Ph.D.(Env.), Scientist Authorised Signatory

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ULR NO - TC1513625000000575F

TEST REPORT

Report Release Date	: 23.03.2025	Sample Ref. No.(ARF)	: EC/ARF/29/250315
Test Report No	: EC/TR/42/03027	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 21.03.2025
Sample Collected by	: Mr. Sumit Sarkar & Team	Sample Registration Date	: 22.03.2025
Sample Details	: Stack Emission	Period of Analysis	: 22.03.2025
Customer Name &	: SAIL - IISCO Steel Plant	Sampling Location	: Bag Filter Stack
Address	P.O. – Burnpur	Sample Condition	: Sealed
	Dist - Paschim Barddhaman	Sample Stamped as	: TH – 147
	West Bengal	Sample Drawn By	: ECO CARE
		Sampling Procedure	: EC/SOP/03/01
		Remarks	Para
		Deviation if any	: None

1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Process Activity
3	Stack Connected to	: CDCP Outlet
4	Material of Construction	: M.S
5	Stack Height from G.L.	: 50.00 m
6	Height of Sampling Port from G.L.	: 20.00 m
7	Height of Sampling Port from L.D.Z.	2
8	Dimension of Stack at Sampling Port	: 1.60 m
9	Shape of the Stack	: Circular Ø
10	Working Load	
FU	EL CHARACTERISTIC REPORT	
1	Source of Energy	\$ man
2	Energy Consumption	MANA

	RESULTS OF SAMPLING GASEOUS EMIS	SION ANALYSIS	UNIT	METHOD
1	Flue Gas Temperature	74	n _C	IS 11255 : Part 3
2	Barometric Pressure	755	mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	12.90	m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	79776	NM³/hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	48.76	mg/NM ³	IS 11255 : Part 1

1. Test values are reported based on the samples received.

Calorific Value (K-Cal/Kg)

Sample(s) will be destroyed after 30 days from date of issues of the Test Report subject to nature of Preservation. Sample will be preserved as per the standard method.

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ULR NO - TC1513625000000576F

TEST REPORT

Report Release Date Test Report No Type of Sample Sample Collected by Sample Details Customer Name & Address	: 23.03.2025 : EC/TR/42/03028 : Dust & Gaseous Emission : Mr. Sumit Sarkar & Team : Stack Emission : SAIL - HSCO Steel Plant P.O Burnpur Dist - Paschim Barddhaman West Bengal	Sample Ref. No.(ARF) Source of Sample Sampling Date Sample Registration Date Period of Analysis Sampling Location Sample Condition Sample Stamped as Sample Drawn By Sampling Procedure Remarks Deviation if any	: EC/ARF/29/250315 : Integrated Steel Plant : 21.03.2025 : 22.03.2025 : 22.03.2025 : Furnace Stack : Sealed & Preserved : TH – 148 : ECO CARE : EC/SØP/03/01
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GENERAL INFORMATION PROVIDED BY CUSTOM	CENERAL	INFORMATION	PROVIDED BY	CUSTOMER
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1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Combustion of Mixed Gas
3	Stack Connected to	: Reheating Furnace (Bar Mill)
4	Material of Construction	: M.S
5	Stack Height from G.L.	: 65.00 m
6	Height of Sampling Port from G.L.	;
7	Height of Sampling Port from L.D.Z.	3
8	Dimension of Stack at Sampling Port	: 3.02 m
9	Shape of the Stack	: Circular Ø
10	Working Load	: 88.84 MT/hr

FUEL CHARACTERISTIC REPORT

1	Source of Energy	; CBM & BF Gas
2	Energy Consumption	: 10.754 M /hr
3	Calorific Value (K-Cal/Kg)	

	RESULTS OF SAMPLING GASEOUS EMISS	SION ANALYSIS	UNIT	METHOD
1	Flue Gas Temperature Barometric Pressure	396	°C mm Hg	IS 11255 : Part 3 IS 11255 : Part 3
3	Velocity of Flue Gas	10.28	m/sec NM ³ / hr	IS 11255 : Part 3 IS 11255 : Part 3
4	Flue Gas Quantity Concentration of Particulate Matter	16.24	mg/NM ³	IS 11255 : Part 1
6	Concentration of SO ₂	85.70	mg/NM ³	IS 11255 : Part 2

Test values are reported based on the samples received.

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Authorised Signatory

End of Test Report

Ph.D.(Env.), Scientist
Authorised Signatory (author)
Authorised Signatory (author)
Authorised Signatory (author)
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 https://www.anaconlaboratories.com

Test Report

Waste Water	Sample Details As Provided By Client Not Mentioned Sampling By	Sample Locati Damra Outle	on I	Quantity Received
Sample Particulars	Reference Date	09.10.2024		
M/s IISCO Steel Plant -SAIL Environment Management Division Burnpur-713325 (West Bengal).	Reference	W.O.1400003051		
	Inward Date	15.11.2024	Analysis End	18.11.2024
Issued To:	Sample Inward No.	ALPL/15112024/EW- 3/5-1	Analysis Star	Page 1 of 1

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	pH			
2	Cyanide (as CN')	•	APHA Method 23rd Edition	7.89 at 30°C
3	Ammonical Nitrogen (as N)	mg/l	APHA Method 23rd Edition	0.019
4	Phenolic compounds (as C ₆ H ₅ OH)	mg/l	APHA Method 23rd Edition	
5	Chemical oxygen demand	g/l	APHA Method 23rd Edition	5.90
6	Biochemical oxygen demand	mg/l	APHA Method 23rd Edition	<0.1
U	(at 27°C for 3 days)	mg/l	APHA Method 23rd Edition	.50
7	Total Suspended solids (TSS)		ENAT/SAC	5.0
8	Oil & grease	mg/l	APHA Method 23 rd Edition	9.0
TENENCY AND A	1 Section	mg/l	APHA Method 23rd Edition	51.0

NOTES: Please see watermark "Original Test Report" to confirm the authenticity of this report. Results shall be referred to tested sample(s) and applicable to tested parameters only perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise. Implication of the sequence of the client, samples were tested for above parameters only.

Verified By

Snehal Raut Technical Manager Authorized Signatory

Dr. (Mrs.) S.D. Garway Quality Manager

----END OF REPORT----

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Test Report

Test Report No.: ALPL/19112024/13	-2 dated 19.11.2024		P	age I of I
rest report (day)	Sample Inward No.	ALPL/15112024/EW- 3/5-2	Analysis Start	15.11.2024
Issued To: M/s IISCO Steel Plant -SAIL	Inward Date	15,11,2024	Analysis End	18.11.2024
Environment Management Division, Burnpur-713325 (West Bengal).	Reference	W.O.1400003051		
	Reference Date	09.10.2024		
Sample Particulars Waste Water	Sample Details As Provided By Client Not Mentioned	Sample Locat Dihika Out	ALCOHOLD II	Quantity Received
Sampling By Joint Sampling Of PCB And Environment Department Tests Required: pH, Cyanide, Ammonical Nitrogen, Phenolic compounds, Chemical oxygen			Sampling Date:	2007

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	PH		APHA Method 23rd Edition	7.94 at 30 °C
2	Cyanide (as CN')	mg/l	APHA Method 23rd Edition	0.024
2	Ammonical Nitrogen (as N)	mg/l	APHA Method 23rd Edition	6.10
A	Phenolic compounds (as C ₆ H ₅ OH)	g/I	APHA Method 23rd Edition	<0.1
5	Chemical oxygen demand	mg/l	APHA Method 23 rd Edition	40
6	Biochemical oxygen demand (at 27°C for 3 days)	mg/l	APHA Method 23 rd Edition	6.0
7	Total Suspended solids (TSS)	mg/l	APHA Method 23rd Edition	11.0
8	Oil & grease	mg/l	APHA Method 23rd Edition	<1.0

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Verified By

Snehal Raut Technical Manager **Authorized Signatory**

Dr. (Mrs.) S.D. Garway Quality Manager

END OF REPORT

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Thank you for instilling your trust and faith in our services. We cherish our relationship with you, and we put in a lot of hard work in making sure that you get a seamless experience at every stage of your interaction with us. In our constant endeavor towards ensuring that your next experience will be significantly better than the current one, we welcome your feedback on feedback anacon, in.



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Test Report

W.O.1400003051 ate	Analysis End	Quantity Received
W.O.1400003051 ate 09.10.2024		
W.O.1400003051	Analysis End	18.11.2024
13.11.2024	Analysis End	18.11.2024
15.11.2024	Analysis End	18.11.2024
16112021		
ard No. ALPL/15112024/E 3/5-3	Analysis Star	t 15.11.2024
Sample Inward No. ALPL/15112024/EW-3/5-3		3/5-3 Analysis Star

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	pH		APHA Method 23 rd Edition	7.00 20.00
2	Cyanide (as CN')	mg/l	APHA Method 23 rd Edition	7.96 at 30°C
3	Ammonical Nitrogen (as N)	mg/l	APHA Method 23 Edition	0.027
4	Phenolic compounds (as C ₆ H ₅ OH)	g/l	APHA Method 23 rd Edition	5.40
5	Chemical oxygen demand			<0.1
nrae -	Biochemical oxygen demand	mg/l	APHA Method 23rd Edition	32
6 (at 27°C for 3 days)	mg/l	APHA Method 23rd Edition	4.0	
7	Total Suspended solids (TSS)	mg/l	APHA Method 23 rd Edition	
8	Oil & grease			14.0
	The sea by sense	mg/l	APHA Method 23rd Edition	<1.0

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Verified By

Snehal Raut Technical Manager Authorized Signatory

Dr. (Mrs.) S.D. Garway Quality Manager

----END OF REPORT----

सहायक महाप्रवेधक (पर्यावरण प्रवध AGM (Environ. Mgmt.)

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Test Report

-4 dated 19.11.2024		P	age 1 of 1
Sample Inward No.	ALPL/15112024/EW- 3/5-4	Analysis Start	15.11.2024
Inward Date	15.11.2024	Analysis End	18.11.2024
Reference	W.O.1400003051		
Reference Date	09.10.2024		
Sample Details As Provided By Client Not Mentioned	2000 Mary 100 Mary 10	Service Control of the Control of th	Quantity Received
Sampling By CB And Environment Department		The contract of the contract of	
	Sample Inward No. Inward Date Reference Reference Date Sample Details As Provided By Client Not Mentioned Sampling By CB And Environment Department	Sample Inward No. Inward Date Inward Date Reference Reference Date Sample Details As Provided By Client Not Mentioned Sampling By CB And Environment Department	Sample Inward No. ALPL/15112024/EW- 3/5-4 Inward Date 15.11.2024 Reference Reference Reference Date Sample Details As Provided By Client Not Mentioned Sampling By Analysis Start Analysis End Sample Location 4 BOD Plant 10 Outlet Sampling Date:

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1:	pH		APHA Method 23rd Edition	8.22 at 30 °C
2	Cyanide (as CN')	mg/l	APHA Method 23rd Edition	0.031
3	Ammonical Nitrogen (as N)	mg/l	APHA Method 23 rd Edition	6.60
4	Phenolic compounds (as C ₆ H ₅ OH)	g/l	APHA Method 23rd Edition	<0.1
5	Chemical oxygen demand	mg/l	APHA Method 23rd Edition	72
6	Biochemical oxygen demand (at 27°C for 3 days)	mg/l	APHA Method 23rd Edition	11.0
7	Total Suspended solids (TSS)	mg/l	APHA Method 23 rd Edition	24.0
8	Oil & grease	mg/l	APHA Method 23rd Edition	<1.0

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Verified By

Snehal Raut Technical Manager **Authorized Signatory**

Dr. (Mrs.) S.D. Garway Quality Manager

END OF REPORT-

AGM (Environ, Mgmt.)

सैल-आई. एस. वी., बर्नपुर

Thank you for instilling your trust and faith in our services. We cherish our relationship with you and we put in a lot of herd work in making sure that you get a seamless experience at every stage of your interaction with us. In our constant endeavor towards ensuring that your next experience will be significantly better than the current one, we welcome your feedback anacon.in.



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Test Report

ample Details As Provided By Client Not Mentioned	Sample Locati BOD Plant 11 (Quantity Received
mula Dataila A. D	Control of the control of the control of		
Reference Date	09.10.2024		
Reference	W.O.1400003051		
Inward Date	15.11.2024	Analysis End	18.11.2024
Sample Inward No.	ALPL/15112024/EW- 3/5-5	Analysis Start	15.11.2024
	Inward Date Reference Reference Date	Sample Inward No. ALPL/15112024/EW-3/5-5 Inward Date 15.11.2024 Reference W.O.1400003051 Reference Date 09.10.2024	Sample Inward No. ALPL/15112024/EW- 3/5-5 Analysis Start

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	Flq		APHA Method 23 rd Edition	
2	Cyanide (as CN ⁻)	I I I		8.07 at 30 °C
3	Ammonical Nitrogen (as N)	mg/l	APHA Method 23rd Edition	0.036
4	Phonelis and A G H G H	mg/l	APHA Method 23rd Edition	8.30
7	Phenolic compounds (as C ₆ H ₅ OH)	g/1	APHA Method 23rd Edition	< 0.1
2	Chemical oxygen demand	mg/I	APHA Method 23 rd Edition	68
6	Biochemical oxygen demand (at 27°C for 3 days)	mg/l	APHA Method 23 rd Edition	10.0
7	Total Suspended solids (TSS)	mg/l	ADULA MANUAL A SOURCE	4
8	Oil & grease		APHA Method 23rd Edition	27.0
- O'ELE	The state of the s	mg/l	APHA Method 23rd Edition	<1.0

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Snehal Raut Technical Manager Authorized Signatory

Dr. (Mrs.) S.D. Garway Quality Manager

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सहायक महाप्रवंधक पर्यावरण प्रवधार

AGM (Environ, Mgmt.) सैल-आई. एस. पी., बर्नपृई

SAIL-ISP, BURNPUR





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Test Report

Test Report No.: ALPL/2	5122024/08-1	dated 25.	12.2024		Page 1 of 1
Issued To: M/s HSCO Steel Plant -SAIL Environment Management Division, Burnpur-713325 (West Bengal).		Sample Inward No.	ALPL/20122024/EW-8/	6-1 Analysis S	tart 20.12.2024
		Inward Date	Date 20.12.2024		and 24.12.2024
		Reference	W.O.1400003051		
		Reference Date			Ougstite Dessived
Sample Description Waste Water	Sample De	tails As Provided By Client Not Mentioned	Sample Lo Damra		Quantity Received
Mr. Saniih Da	wand Mr. Moh	Anacon Representative it Mondal (Anacon Representa	tive).	CONTROL TO SERVICE STATE OF THE SERVICE STATE OF TH	ate: 20.12.2024
Tests Required : pH, Cyr Suspended solids, Oil & g	anide, Ammoni	cal Nitrogen, Phenolic compou	nds, Chemical oxygen den	nand, Biochemical o	xygen demand, Total

TEST RESULTS

S.N.	Test Parameter	Test Parameter Measurement Unit		Test Result	
	pH		APHA Method 23rd Edition	7.62 at 26°C	
2	Cvanide (as CN*)	mg/l	APHA Method 23rd Edition	0.021	
2	Ammonical Nitrogen (as N)	mg/l	APHA Method 23rd Edition	17	
3	Phenolic compounds (as C ₆ H ₅ OH)	g/l	APHA Method 23rd Edition	0.16	
5	Chemical oxygen demand	mg/l	APHA Method 23rd Edition	64	
6	Biochemical oxygen demand (at 27°C for 3 days)	mg/l	APHA Method 23rd Edition	14	
7	Oil & grease	mg/l	APHA Method 23rd Edition	<1.0	
8	Total Suspended solids (TSS)	mg/l	APHA Method 23rd Edition	12	

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REMARKS: As requested by the client, samples were tested for above parameters only.

Verified By

Snehal Raut Technical Manager **Authorized Signatory**

Chinmay Garway uty Quality Manager

----END OF REPORT-

महायक महाप्रयंथक (पर्यावरण प्रवधः AGM (Environ, Mgmt.) सैल-आई. एस. पी., बर्नपुर SAIL-ISP, BURNPUP

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Test Report

Test Report No.: ALPL/2	5122024/08-2	dated 25.1	2.2024	· F	age 1 of 1
		Sample Inward No.	ALPL/20122024/EW-8/6-2	Analysis Start	20.12.2024
Issued To: M/s IISCO Steel Plant -SAIL Environment Management Division, Burnpur-713325 (West Bengal).		Inward Date	20.12.2024	Analysis End	24.12.2024
		Reference	W.O.1400003051		
		Reference Date	09.10.2024		
Sample Description Waste Water	Sample D	etails As Provided By Client Not Mentioned	Sample Location Dihika Outlet		Quantity Received
Mr. Sanjib Roy	and Mr. Moh	Anacon Representative iit Mondal (Anacon Representativ	(2)	Sampling Date:	20.12.2024
Fests Required: pH, Cyar Suspended solids, Oil & gr	nide, Ammoni	cal Nitrogen, Phenolic compound	s, Chemical oxygen demand, B	iochemical oxyge	n demand, Total

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	pH		APHA Method 23 rd Edition	
2	Cyanide (as CN')	mg/l	APHA Method 23 rd Edition	7.81 at 26°C
3	Ammonical Nitrogen (as N)			0.033
4	Phenolic compounds (as C ₆ H ₅ OH)	mg/l	APHA Method 23rd Edition	19
5	Chemical oxygen demand	g/l	APHA Method 23 rd Edition	0.18
	Discharging 1	mg/l	APHA Method 23rd Edition	68
6	Biochemical oxygen demand (at 27°C for 3 days)	mg/l	APHA Method 23 rd Edition	15
7	Oil & grease	mg/l	ADUA MAN LOSSICE CO.	
8	Total Suspended solids (TSS)		APHA Method 23rd Edition	<1.0
Marine San		mg/l	APHA Method 23rd Edition	15

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Verified By

Snehal Raut Technical Manager **Authorized Signatory**

Chinmay Garlyay Deputy Quality Manager

---END OF REPORT-

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Test Report

Test Deport No : ALPL	est Report No.: ALPL/25122024/08-3 dated 2:		5.12.2024		Page 1 of 1	
i ese nepore 1300. Alsi la	as I was a Tivo	Sample Inward No.	ALPL/201220	024/EW-8/6-3	Analysis Start	20.12.2024
Issued To: M/s IISCO Steel Plant -SAIL Environment Management Division, Burnpur-713325 (West Bengal).		Inward Date	20.12.2024 W.O.1400003051		Analysis End	24.12.2024
		Reference				
		Reference Date	09.10.2024 Sample Location Reservoir			
Sample Description Waste Water	Sample Det	ails As Provided By Client Not Mentioned			13	Quantity Received 11.
Mar Coulds D	ow and Mr Mah	nacon Representative it Mondal (Anacon Representati	ve).		Sampling Date:	
Tests Required : pH, Cy Suspended solids, Oil &	anide, Ammonio grease	cal Nitrogen, Phenolic compoun	ds, Chemical oxy	gen demand, B	iocnemical oxyge	n demand, Fotal

TEST RESULTS

S.N. Test Parameter	Test Parameter	Test Parameter Measurement Unit		Test Result
			APHA Method 23 rd Edition	8.04 at 26°C
1	pH	mg/l	APHA Method 23rd Edition	0.109
2	Cyanide (as CN') Ammonical Nitrogen (as N)	mg/l	APHA Method 23rd Edition	36
5	Phenolic compounds (as C ₆ H ₅ OH)	g/l	APHA Method 23rd Edition	0.38
4	Chemical oxygen demand	mg/l	APHA Method 23rd Edition	72
6	Biochemical oxygen demand (at 27°C for 3 days)	mg/l	APHA Method 23rd Edition	16
7	Oil & grease	mg/l	APHA Method 23rd Edition	1.4
Q	Total Suspended solids (TSS)	mg/l	APHA Method 23rd Edition	29

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REMARKS: As requested by the client, samples were tested for above parameters only.

Verified By

Snehal Raut Technical Manager **Authorized Signatory**

hinmay Gary ay

Quality Manager

---END OF REPORT-----

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Test Report

Test Report No.: ALPL	/25122024/08-4	dated	25.12,2024		Page 1 of 1
		Sample Inward No.	ALPL/20122024/EW-8/6-4	Analysis Star	t 20.12.2024
Issued To: M/s IISCO Steel Plant -SAIL Environment Management Division, Burnpur-713325 (West Bengal).		Inward Date	20.12.2024	Analysis End	24.12.2024
		Reference	W.O.1400003051		
		Reference Date	09.10.2024		
Sample Description Waste Water		Is As Provided By Client of Mentioned	Sample Location BOD Plant 10 O		Quantity Received
Mr. Sanjib R	loy and Mr. Moh	Anacon Representative it Mondal (Anacon Representation	ntative).	Sampling Date:	
Tests Required: pH, C; Suspended solids, Oil &	yanide, Ammonio	eal Nitrogen, Phenolic comp	ounds, Chemical oxygen demand	d, Biochemical oxygo	en demand, Total

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	pH		APHA Method 23rd Edition	8.40 at 26°C
2 -	Cyanide (as CN')	mg/l	APHA Method 23rd Edition	0.084
3	Ammonical Nitrogen (as N)	mg/l	APHA Method 23rd Edition	24.6
4	Phenolic compounds (as C ₆ H ₅ OH)	g/l	APHA Method 23rd Edition	0.22
5	Chemical oxygen demand	mg/l	APHA Method 23rd Edition	104
6	Biochemical oxygen demand (at 27°C for 3 days)	mg/l	APHA Method 23 rd Edition	18
7	Oil & grease	mg/l	APHA Method 23rd Edition	1
8	Total Suspended solids (TSS)	mg/l	APHA Method 23rd Edition	19

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Verified By

Snehal Raut Technical Manager Authorized Signatory

Chimnay Gar

uty Quality Manager

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AGM (Environ) Mgml.)

AGM (Environ) Mgml.)

AGM SAIL-ISP BURNAUP



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Test Report

Test Report No.: ALPL/251	22024/08-5	dated 25.12	.2024		P	age 1 of 1
lest Report No.: ALFEE251	22024/00-3	Sample Inward No.	ALPL/201220)24/EW-8/6-5	Analysis Start	20.12.2024
Issued To: M/s HSCO Steel Plant -SAIL Environment Management Division, Burnpur-713325 (West Bengal).		Inward Date	20.12.2024 Analysis End W.O.1400003051		Analysis End	24.12.2024
		Reference				
		Reference Date	09.10,2024			
Sample Description Waste Water	Sample	Details As Provided By Client Not Mentioned	S Be	on Plant 11 Ou	n 5 itlet	Quantity Received IL
Sa	111 111	Anacon Representative hit Mondal (Anacon Representativ	(e).		Sampling Date:	
Tests Required: pH, Cyani Suspended solids, Oil & gre	ide, Ammoni ase	ical Nitrogen, Phenolic compound	s, Chemical oxy	gen demand, B	поспеннеаг бхуде	ar demand, Total

TEST RESULTS

S.N.	Test Parameter	Measurement Unit Test Method		Test Result
			APHA Method 23rd Edition	8.27 at 26°C
	pH	mg/l	APHA Method 23rd Edition	0.104
2	Cyanide (as CN')		APHA Method 23rd Edition	32.4
3	Ammonical Nitrogen (as N)	mg/l	APHA Method 23rd Edition	0.34
4	Phenolic compounds (as C ₆ H ₅ OH)	g/l	APHA Method 23 rd Edition	112
5	Chemical oxygen demand	mg/l*		
6	Biochemical oxygen demand (at 27°C for 3 days)	mg/l	APHA Method 23 rd Edition	20
	A Company of the Comp	mg/l	APHA Method 23rd Edition	1.2
7	Oil & grease Total Suspended solids (TSS)	mg/l	APHA Method 23rd Edition	24

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REMARKS: As requested by the client, samples were tested for above parameters only.

Verified By

Technical Manager

Authorized Signatory

himnay Garw ity Quality Manager

END OF REPORT----

महायक महाप्रवंधक (पर्यावरण प्रवधन AGM (Environ, Mgmt.) सैल-आई, एस, पी., हुनी SAIL-ISP, BURNEL



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Test Report

Test Report No.: ALPL/25012025/		lated 25.01.2025		_	Page 1 of 1
ssued To :	Sample Inward No.	ALPL/21012025/	EW-10/5-1	Analysis Start	21.01.2025
W/s IISCO Steel Plant -SAIL Burnpur- (West Bengal). Pincode:713325	Inward Date	21.01.2025		Analysis End	25.01 2025
andde. 715325	Reference	Work Order Number 1400003051 Date: 09.10.2024			
Sample Description	Sample Details as Provide	d By Client			
Waste Water	Damra Outlet	d by Client	Purpose of	Analysis	Quantity Received
- Company of the Comp	Sampling By		Quality		1Ltr
Anacon representative- Sanjib Roy & Mohit Mandal ests Required : pH, Cyanide (as CN), Ammonical Nitrogen (as N), Phenolic compounds, Cotal Suspended solids, Oil & grease			Physical Condition/Packaging Sample in Bottle / Satisfactory		

TEST RESULTS S.N. Test Parameter Measurement Unit

1	Chemical Testing	out of the other	lest Method	Test Result
1	pH value at 26°C		4.7	
	pri value al 20 C	-	APHA Method 23rd Edition	7.70
2	Cyanide (as CN')	mg/l	APHA Method 23 rd Edition	
3	Ammonical Nitrogen (as N)			0.034
4		mg/l	APHA Method 23 rd Edition	21.00
4	Phenolic compounds	mg/l	APHA Method 23rd Edition	0.18
5 .	Chemical oxygen demand (COD)	mg/l	APHA Method 23 rd Edition	
6	Biochemical oxygen demand (3 days at 27°C)	mg/l		72
7	Total Suspended Solids	and the second second	APHA Method 23 rd Edition	16
8		mg/l	APHA Method 23 rd Edition	17.0
0	Oil & Grease	mg/l	APHA Method 23 rd Edition	<1.0

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Non-perishable and perishable sample(s) along the BLQ-Limit of Quantification.

REMARKS: As requested by the client, sample was tested for above parameters only

Verified By

Snehal Raut **Technical Manager** **Authorized Signatory**

Chinmay Garwa uty Quality Mariager

END OF REPORT

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Test Report

Test Report No.: ALPL/25012025/14-2		dated 25.01.2025		Page 1 of 1
	Sample Inward No.	ALPL/21012025/EW-10/5-2	Analysis Start	21.01.2025
Issued To : M/s IISCO Steel Plant -SAIL	Inward Date	21.01.2025	Analysis End	25.01.2025
Burnpur- (West Bengal). Pincode:713325	Reference	Work Order Number 1400003051 Date: 09.10.2024		
Sample Description Waste Water	Sample D	Details as Provided By Client Dihika Outlet		Quantity Received 1Ltr
Sampling By Anacon representative- Sanjib Roy & Mohit Mandal			Physical Condition Sample in Bottle /	

Suspended solids, Oil & grease

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	Chemical Testing			
1	pH value at 26°C		APHA Method 23 rd Edition	7.92
2	Cyanide (as CN')	mg/l	APHA Method 23 rd Edition	0.047
3	Ammonical Nitrogen (as N)	mg/l	APHA Method 23 rd Edition	25.00
4	Phenolic compounds	mg/l	APHA Method 23 rd Edition	0.21
5	Chemical oxygen demand (COD)	mg/l	APHA Method 23 rd Edition	80
6	Biochemical oxygen demand (3 days at 27°C)	mg/l	APHA Method 23 rd Edition	17
7	Total Suspended Solids	mg/l	APHA Method 23 rd Edition	18.0
8	Oil & Grease	mg/l	APHA Method 23 rd Edition	<1.0

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• BLQ- Below Limit of Quantification • LOQ- Limit Of Quantification.

REMARKS: As requested by the client, sample was tested for above parameters only

Verified By

Technical Manager

Authorized Signatory

hinmay Garway yty Quality Manager

END OF REPORT

महायक महाप्रवधक (प्यावरण प्रवध-AGM (Environ, Mgmt.) AM-SITE OH. 41. SAIL-ISP, BURNS

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Test Report

Sampling By Anacon representative- Sanjib Roy & Mohit Mandal			Physical Condition/Packaging Sample in Bottle / Satisfactory	
Sample Description Waste Water		etails as Provided By Client Reservior		Quantity Received
	Reference	Work Order Number 1400003051 Date: 09.10.2024		
W/s IISCO Steel Plant -SAIL Burnpur- (West Bengal). Pincode:713325	Inward Date	21.01.2025	Analysis End	25.01.2025
Issued To :	Sample Inward No.	ALPL/21012025/EW-10/5-3	Analysis Start	21.01.2025
Test Report No.: ALPL/25012025/14		dated 25.01.2025		Page 1 of 1

O. 14.		TEST RESULTS		
S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	Chemical Testing		192	Tool Noadil
1	pH value at 26°C		APHA Method 23 rd Edition	8.18
2	Cyanide (as CN')	mg/l	APHA Method 23 rd Edition	0.122
3	Ammonical Nitrogen (as N)	mg/l	APHA Method 23 rd Edition	41.00
4	Phenolic compounds	mg/l	APHA Method 23 rd Edition	0.40
5	Chemical oxygen demand (COD)	mg/l	APHA Method 23 rd Edition	184
6	Biochemical oxygen demand (3 days at 27°C)	mg/l	APHA Method 23 rd Edition	26
7	Total Suspended Solids	mg/l	APHA Method 23 rd Edition	35.0
8	Oil & Grease	mg/l	APHA Method 23rd Edition	1.60

NOTES:

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Non-perishable and perishable sample(s)

BLQ-Below Limit of Quantification.

CEMARKS: As requested by the client, sample was tested for above parameters only

Verified By

Snehal Raut **Technical Manager** **Authorized Signatory**

hinmay Gary eputy Quality Manager

END OF REPORT

महत्यक महाप्रवधक (पर्यावरण प्रवध-

AGM (Environ MRHM सैल-आई. एस अप SAIL-ISP.

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Test Report

Sampling By Anacon representative- Sanjib Roy & Mohit Mandal			Physical Condition/Packaging Sample in Bottle / Satisfactory	
Sample Description Waste Water		Details as Provided By Client BOD 10 Outlet		Quantity Received 1Ltr
Burnpur- (West Bengal). Pincode:713325	Reference	Work Order Number 1400003051 Date: 09.10.2024		
ssued To ; M/s IISCO Steel Plant -SAIL	Inward Date	21.01.2025	Analysis End	25.01.2025
	Sample Inward No.	ALPL/21012025/EW-10/5-4	Analysis Start	21.01.2025
Test Report No.: ALPL/25012025/14-	4	dated 25.01.2025		Page 1 of 1

TEST DESIN TS

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	Chemical Testing			
1	pH value at 26°C		APHA Method 23 rd Edition	8.12
2	Cyanide (as CN')	mg/l	APHA Method 23 rd Edition	0.091
3	Ammonical Nitrogen (as N)	mg/l	APHA Method 23 rd Edition	30.80
4	Phenolic compounds	mg/l	APHA Method 23 rd Edition	0.25
5	Chemical oxygen demand (COD)	mg/I	APHA Method 23 rd Edition	168
6	Biochemical oxygen demand (3 days at 27°C)	mg/l	APHA Method 23rd Edition	24
7	Total Suspended Solids	mg/l	APHA Method 23 rd Edition	15.0
8	Oil & Grease	mg/l	APHA Method 23 rd Edition	1.40

NOTES:
Please see watermark 'Original Test Report' to confirm the authenticity of this report.
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Test report shall not be reproduced except in full without prior written approval of Anacon Labs.
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Non-perishable and perishable sample(s) shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise.
"mg/l" is equivalent to 'ppm'.

BLQ- Below Limit of Quantification
LOQ- Limit Of Quantification.

REMARKS: As requested by the client, sample was tested for above parameters only

Verified By

Snehal Raut Technical Manager **Authorized Signatory**

hinmay Garwa ty Quality Manager

END OF REPORT

महायक महाप्रवधक (पर्यावरण प्रबध

स्त-आई. एस. पी., बर्नपूर्ण SAIL-ISP BUD. AGM (Environ, Mgmt.)

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 https://www.anaconlaboratories.com

Test Report

Anacon representative- Sanjib Roy & Mohit Mandal ests Required : pH, Cyanide (as CN'), Ammonical Nitrogen, Phenolic compounds, Chemical oxygen demonstrated solids, Oil & grease			Physical Condition/Packaging Sample in Bottle / Satisfactory	
Waste Water Sample Details as Provided By Client BOD 11 Outlet Sampling By			Quantity Received 1Ltr	
Sample Description	Camela D			
	Reference	Work Order Number 1400003051 Date: 09.10.2024		
M/s IISCO Steel Plant -SAIL Burnpur- (West Bengal). Pincode:713325	Inward Date	21.01.2025	Analysis End	25.01.2025
Issued To :	Sample Inward No.	ALPL/21012025/EW-10/5-5	Analysis Start	21.01.2025
Test Report No.: ALPL/25012025/1	4-5	dated 25.01.2025		Page 1 of 1

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	Chemical Testing		1 SST MOUTOU	lest Resul
1	pH value at 26°C		APHA Method 23 rd Edition	8.32
2	Cyanide (as CN')	mg/l	APHA Method 23 ^{rtt} Edition	0.128
3	Ammonical Nitrogen (as N)	mg/l	APHA Method 23 rd Edition	38.60
4	Phenolic compounds	mg/l	APHA Method 23 rd Edition	0.34
5	Chemical oxygen demand (COD)	mg/l	APHA Method 23 rd Edition	176
6	Biochemical oxygen demand (3 days at 27°C)	mg/l	APHA Method 23 rd Edition	25
7	Total Suspended Solids	mg/l	APHA Method 23 rd Edition	10.0
8	Oil & Grease	mg/l	APHA Method 23 rd Edition	1.0

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Non-perishable and perishable sample(s)

ELQ- Below Limit of Quantification.

LOQ- Limit of Quantification.

REMARKS: As requested by the client, sample was tested for above parameters only.

Verified By

Snehal Raut Technical Manager **Authorized Signatory**

Chinmay Garway Deputy Quality Manager

----END OF REPORT----

महायक महाप्रवंधक (पर्यावरण प्रवधन AGM (Environ. Mgmt.) सैल-आई. एस. पी., बर्नपूर

SAIL-ISP, BURNPUR

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Test Report

Joint Sampling of PCB and Environment Department USCO			Physical Condition Sample in Bottle		
	Sampling By			1Ltr	
Sample Description Waste Water	Sample D	etails as Provided By Client Dihika Outlet		Quantity Received	
	Reference	Work Order Number 140000305 Date: 09.10.2024	1		
Ms IISCO Steel Plant -SAIL Burnpur- (West Bengal). Pincode:713325	Inward Date	21.02.2025	Analysis End	25.02.2025	
ssued To :	Sample Inward No.	ALPL/21022025/EW-8/5-2	Analysis Start	21.02.2025	
Test Report No.: ALPL/ 26022025/	date date	d 26.02.2025		Page 1 of 1	

TEST DECIN TO

Test Parameter	Measurement Unit	Test Method	
Chemical Testing	ATTEMPT TO THE TOTAL OF THE TOT	TOST METHOD	Test Result
pH value at 27°C		ADUA Markad 22° E 1''	
Cyanide (as CN)			7.74
- And the second	mg/l	APHA Method 23" Edition	0.060
Ammonical Nitrogen (as N)	mg/l	APHA Method 23 rd Edition	19.0
Phenolic compounds	mg/l	APHA Method 23 rd Edition	<0.1
Chemical oxygen demand (COD)	mg/l	APHA Method 23 rd Edition	52
Biochemical oxygen demand (3 days at 27°C)	mg/l	APHA Method 23 rd Edition	7.0
Total Suspended Solids	mg/l	APHA Method 23 rd Edition	6.0
Oil & Grease	mg/l	APHA Method 23 rd Edition	<1.0
	pH value at 27°C Cyanide (as CN') Ammonical Nitrogen (as N) Phenolic compounds Chemical oxygen demand (COD) Biochemical oxygen demand (3 days at 27°C) Total Suspended Solids	Chemical Testing pH value at 27°C Cyanide (as CN') Ammonical Nitrogen (as N) Phenolic compounds Chemical oxygen demand (COD) Biochemical oxygen demand (3 days at 27°C) Total Suspended Solids mg/l	Chemical Testing pH value at 27°C APHA Method 23 rd Edition Cyanide (as CN') mg/I APHA Method 23 rd Edition Ammonical Nitrogen (as N) mg/I APHA Method 23 rd Edition APHA Method 23 rd Edition Phenolic compounds mg/I APHA Method 23 rd Edition Chemical oxygen demand (COD) mg/I Biochemical oxygen demand (3 days at 27°C) mg/I APHA Method 23 rd Edition Total Suspended Solids mg/I APHA Method 23 rd Edition

NOTES:

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Results shall be referred to tested sample(s) and applicable to tested parameters only shall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise.

REMARKS: As requested by the client, sample was tested for above parameters only

Technical Manager

Authorized Signatory

hinmay Gapway Seputy Quality Manager

END OF REPORT

महायक महाप्रवंधक (पर्यावरण प्रबधन

AGM (Environ, Mgmt.) मैल-आई. एस. पी., वुर्नपुरश्

SAIL-ISP, BURNE





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Test Report

Test Report No.: ALPL/ 26022025/06-3	date	d 26.02.2025		Page 1 of 1
	Sample Inward No.	ALPL/21022025/EW-8/5-3	Analysis Start	21.02.2025
Issued To : M/s IISCO Steel Plant -SAIL Burnpur- (West Bengal).	Inward Date	21.02.2025	Analysis End	25.02.2025
Pincode:713325	Reference	Work Order Number 1400003051 Date: 09.10.2024		
Sample Description Waste Water	Sample D	etalls as Provided By Client Reservior		Quantity Received 1Ltr
	ampling By nd Environment Departmen	nt IISCO	Physical Condition	

Tests Required: pH, Cyanide (as CN), Ammonical Nitrogen, Phenolic compounds, Chemical oxygen demand, Biochemical oxygen demand, Tota Suspended solids, Oll & grease

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	Chemical Testing			
1	pH value at 27°C		APHA Method 23 rd Edition	7.60
2	Cyanide (as CN')	mg/l	APHA Method 23 rd Edition	0.040
3	Ammonical Nitrogen (as N)	mg/l	APHA Method 23 rd Edition	17.0
4	Phenolic compounds	mg/l	APHA Method 23 rd Edition	<0.1
5	Chemical oxygen demand (COD)	mg/l	APHA Method 23 rd Edition	48
6	Biochemical oxygen demand (3 days at 27°C)	mg/l	APHA Method 23 rd Edition	6.0
7	Total Suspended Solids	mg/l	APHA Method 23 rd Edition	9.0
8	Oil & Grease	mg/l	APHA Method 23 rd Edition	<1.0

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BLQ- Below Limit of Quantification.

REMARKS: As requested by the client, sample was tested for above parameters only

Verified By

Snehal Raut Technical Manager Authorized Signatory

eninmay Garway eputy Quality Manager

----END OF REPORT-

महायक महाप्रवंधक (पर्यावरण प्रवंधन AGM (Environ, Manusoraro

मेल-आई. एस. पी.

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Test Report

Joint Sampling of PCB and Environment Department USCO			Physical Condition Sample in Bottle	Satisfactory
Waste Water	Sampling By	etails as Provided By Client BOD 10 Outlet		Quantity Received
Sample Description	Sample D	etalle as Broulded B. Clit		
110008.713323	Reference	Work Order Number 1400003051 Date: 09.10.2024		
M/s IISCO Steel Plant -SAIL Burnpur- (West Bengal). Pincode 713325	Inward Date	21.02.2025 Analysis i		25.02.2025
Issued To :	Sample Inward No.	ALPL/21022025/EW-8/5-4	Analysis Start	21.02,2025
Test Report No.: ALPL/ 26022025/	U6-4 date	ed 26.02,2025		Page 1 of 1

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	Chemical Testing			, rest neson
1	pH value at 27°C		APHA Method 23 rd Edition	8.39
2	Cyanide (as CN')	mg/l	APHA Method 23 rd Edition	0.010
3	Ammonical Nitrogen (as N)	mg/l	APHA Method 23 rd Edition	5.70
4	Phenolic compounds	mg/l	APHA Method 23 rd Edition	<0.1
5	Chemical oxygen demand (COD)	mg/l	APHA Method 23 rd Edition	100
6	Biochemical oxygen demand (3 days at 27°C)	mg/l	APHA Method 23 rd Edition	14.0
7	Total Suspended Solids	mg/l	APHA Method 23 rd Edition	20.0
8	Oil & Grease	mg/l	APHA Method 23 rd Edition	<1.0

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Non-perishable and perishable sample(s)
SEQ. Below Limit of Quantification.

REMARKS: As requested by the client, sample was tested for above parameters only

Verified By

Snehal Raut Technical Manager **Authorized Signatory**

Chipmay Garway ny Quality Manager

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Test Report

Test Report No.: ALPL/ 26022025/06	-5 date	d 26.02.2025	*	Page 1 of 1
Issued To :	Sample Inward No.	ALPL/21022025/EW-8/5-5	Analysis Start	21.02.2025
M/s IISCO Steel Plant -SAIL Burnpur- (West Bengal) Pincode:713325	Inward Date	21.02.2025	Analysis End	25.02.2025
FillCode, F13325	Reference	Work Order Number 1400003051 Date: 09.10.2024		
Sample Description Waste Water	Sample D	etails as Provided By Client BOD 11 Outlet		Quantity Received
Sampling By Joint Sampling of PCB and Environment Department IISCO			Physical Condition	on/Packaging

TEST DECLII TO

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	Chemical Testing			
1	pH value at 27°C	74	APHA Method 23 rd Edition	7.90
2	Cyanide (as CN')	mg/l	APHA Method 23 rd Edition	0.090
3	Ammonical Nitrogen (as N)	mg/l	APHA Method 23 rd Edition	7.70
4	Phenolic compounds	mg/l	APHA Method 23 rd Edition	<0.1
5	Chemical oxygen demand (COD)	mg/l	APHA Method 23rd Edition	64
6	Biochemical oxygen demand (3 days at 27°C)	mg/l	APHA Method 23 rd Edition	9.0
7	Total Suspended Solids	mg/l	APHA Method 23 rd Edition	12.0
8	Oil & Grease	mg/l	APHA Method 23 rd Edition	<1.0

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"mg/l" is equivalent to "ppm".

REMARKS: As requested by the client, sample was tested for above parameters only

Verified By

Snehal Raut Technical Manager

Authorized Signatory

eninmay Garway Seputy Quality Manager

END OF REPORT

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Test Report

Test Report No.: ALPL/15032025/	05-1 dated	15.03.2025		Pag	e 1 of 1
Issued To :	Sample Inward No.	ALPL/12032025/EW-4/4-1		Analysis Start	
Ms IISCO Steel Plant -SAIL Burnpur- (West Bengal). Pincode:713325	Inward Date	12.03.2025		Analysis End	15.03,2025
milcode.713325	Reference	Work Order Numb Date: 09.10.2024	er 1400003051		
Sample Description Waste Water	Sample Details as Provide Damra Outlet	ed By Client	Purpose of	Analysis	Quantity Received
Sampling By & Date Sampling by Anacon Representative Sanjib Roy and Mohit Mondal. & 12.03.25 ests Required: pH, Cyanide (as CN'), Ammonical Nitrogen (as N), Phenolic compounds, Cotal Suspended solids, Oil & grease			P	Physical Condition/Packaging Sample in Bottle / Satisfactory	

TEST DESILITE

S.N.	Test Parameter	Measurement Unit	Test Method	Tool Decute
1	Chemical Testing			Test Result
1	pH value	-	APHA Method 23 rd Edition	2.00
2	Cyanide (as CN')	mg/l	APHA Method 23 rd Edition	6.90 at 30°C
3	Ammonical Nitrogen (as N)	mg/l	APHA Method 23 rd Edition	0.163
4	Phenolic compounds	mg/l	APHA Method 23 rd Edition	24.7
5	Chemical oxygen demand (COD)	mg/l	APHA Method 23 rd Edition	0.19
6	Biochemical oxygen demand (3 days at 27°C)	mg/l	APHA Method 23 rd Edition	56
7	Oil & Grease	mg/l	APHA Method 23 rd Edition	7
8	Total Suspended Solids	mg/l	APHA Method 23 rd Edition	<1.0
				15

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REMARKS: As requested by the client, sample was tested for above parameters only

Verified By

our Snehal Raut Technical Manager **Authorized Signatory**

Chinmay Ganvay uty Quality Manager

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महायक महाप्रवधक (पर्यावरण प्रबधन AGM (Environ, Mgmt.)

सैल-आई. एस. पी., वर्जप SAIL-ISP, BURNP



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Test Report

Test Report No.: ALPL/15032025/05-2 dated 15.03.2025 Sample Inward No. ALPL/12032025/EW-4/4-2 **Analysis Start** 12.03.2025 Issued To: M/s IISCO Steel Plant -SAIL **Inward Date** Burnpur- (West Bengal). 12.03.2025 Analysis End 15.03.2025 Pincode:713325 Work Order Number 1400003051 Reference Date: 09.10.2024 Sample Description Sample Details as Provided By Client Purpose of Analysis **Quantity Received** Waste Water Dihika Outlet Quality Check 1Ltr Sampling By & Date Physical Condition/Packaging Sampling by Anacon Representative Sanjib Roy and Mohit Mondal. & 12.03.25 Sample in Bottle / Satisfactory Tests Required : pH, Cyanide (as CN'), Ammonical Nitrogen, Phenolic compounds, Chemical oxygen demand, Biochemical oxygen demand, Total Suspended solids, Oil & grease

S.N.	Test Parameter	TEST RESULTS Measurement Unit	Test Method	Test Result
1	Chemical Testing			Test Nesult
1	pH value	*	APHA Method 23 rd Edition	7.88 at 30°C
2	Cyanide (as CN')	mg/l	APHA Method 23 rd Edition	0.156
3	Ammonical Nitrogen (as N)	mg/l	APHA Method 23 rd Edition	13.2
4	Phenolic compounds	mg/l	APHA Method 23 rd Edition	0.16
5	Chemical oxygen demand (COD)	mg/l	APHA Method 23 rd Edition	48
6	Biochemical oxygen demand (3 days at 27°C)	mg/l	APHA Method 23 rd Edition	6
7	Oil & Grease	mg/l	APHA Method 23 rd Edition	<1.0
8	Total Suspended Solids	mg/l	APHA Method 23 rd Edition	11

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BLQ- Below Limit of Quantification LOQ- Limit Of Quantification.

REMARKS: As requested by the client, sample was tested for above parameters only

Verified By

Snehal Raut Technical Manager **Authorized Signatory**

Chinmay Garway ty Quality Mahager

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Test Report

dated 1	15.03.2025		Page	e 1 of 1
Sample Inward No.	ALPL/12032025/E	W-4/4-3	Analysis Start	12.03.2025
Inward Date	12.03.2025 Work Order Number 1400003051 Date: 09.10.2024		Analysis End	15.03.2025
Reference				
	ed By Client			Quantity Received
Sampling By & Date				1Ltr
sentative Sanjib Roy and Mohit Mon	ndal. & 12.03.25			
	Sample Inward No. Inward Date Reference Sample Details as Provide Reservior Sampling By & Date sentative Sanjib Roy and Mohit More	Sample Inward No. ALPL/12032025/E Inward Date 12.03.2025 Reference Work Order Numb Date: 09.10.2024 Sample Details as Provided By Client Reservior Sampling By & Date sentative Sanjib Roy and Mobit Mondal, & 12.03.25	Inward Date 12.03.2025 Reference Work Order Number 1400003051 Date: 09.10.2024 Sample Details as Provided By Client Purpose o Quality Sampling By & Date Sentative Sanjib Roy and Mobit Mondal & 12.03.25	Sample Inward No. ALPL/12032025/EW-4/4-3 Analysis Start Inward Date 12.03.2025 Analysis End Reference Work Order Number 1400003051 Date: 09.10.2024 Sample Details as Provided By Client Reservior Purpose of Analysis Quality Check Sampling By & Date

S.N.	Test Parameter	TEST RESULTS Measurement Unit	Test Method	Test Result
1	Chemical Testing			rest Result
1	pH value		APHA Method 23 rd Edition	8.17 at 30°C
2	Cyanide (as CN') mg/l		APHA Method 23 rd Edition	0.189
3	Ammonical Nitrogen (as N) mg/l	mg/l	APHA Method 23 rd Edition	37.4 0.4 88
4	Phenolic compounds	mg/l	APHA Method 23 rd Edition	
5	Chemical oxygen demand (COD)	mg/l	APHA Method 23 rd Edition	
6	Biochemical oxygen demand (3 days at 27°C)	mg/l	APHA Method 23 rd Edition	12
7	Oil & Grease	mg/l	APHA Method 23 rd Edition	1.4
8	Total Suspended Solids	mg/l	APHA Method 23 rd Edition	19

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Verified By

Snehal Raut Technical Manager **Authorized Signatory**

Chinmay Garway Pouty Quality Manager

-END OF REPORT-

महःयक महाप्रवंधक (पर्यावरण प्रवधन

पहायक महाप्रवधक (प्रवादर्ग प्रव AGM (Environ, Mgmt.) सेल-आई, एस. पी., बर्नपुर SAIL-ISP, E_HIRNEL





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Test Report

Test Report No.: ALPL/18032025/05-1 dated 18.03.2025 Page 1 of 1 Sample Inward No. ALPL/15032025/EW-3/2-1 Issued To: **Analysis Start** 15.03.2025 M/s IISCO Steel Plant -SAIL Burnpur- (West Bengal). Pincode:713325 **Inward Date** 15.03.2025 Analysis End 18.03.2025 Work Order Number 1400003051 Reference Date: 09.10.2024 Sample Description Sample Details as Provided By Client Purpose of Analysis Waste Water Quantity Received **BOD 10 Outlet** Quality Check Sampling By & Date 1Ltr Sampling by Anacon Representative Sanjib Roy and Mohit Mondal, & 15.03.25 Physical Condition/Packaging Tests Required: pH, Cyanide (as CN), Ammonical Nitrogen, Phenolic compounds, Chemical oxygen demand, Biochemical oxygen demand, Total

S.N.	Test Parameter	TEST RESULTS Measurement Unit	Test Method	
1	Chemical Testing	73.2.7.3.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4	Test Method	Test Result
1	pH value		1000.00	
2	Cyanide (as CN')		APHA Method 23 rd Edition	8.07 at 30°C
		mg/l	APHA Method 23 rd Edition	0.042
3	Ammonical Nitrogen (as N)	mg/l	APHA Method 23 rd Edition	
4	Phenolic compounds	mg/l	APHA Method 23 rd Edition	37.9
5	Chemical oxygen demand (COD)		The state of the s	0.36
_		mg/l	APHA Method 23 rd Edition	184
6	Biochemical oxygen demand (3 days at 27°C)	mg/l	APHA Method 23 rd Edition	26
7	Oil & Grease	mg/l	APHA Method 23 rd Edition	4-2-2-2
8	Total Suspended Solids			1.4
-	Total Suspended Solids	mg/l	APHA Method 23 rd Edition	37

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REMARKS: As requested by the client, sample was tested for above parameters only

Verified By

Snehal Raut Technical Manager **Authorized Signatory**

hinmay Garwa uty Quality Marager

END OF REPORT

महायक महाप्रवधक (पर्यावस्था प्रवध-

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Test Report

	nber 1400003051	Analysis Start Analysis End	15.03.2025 18.03.2025
Work Order Num		Analysis End	18.03.2025
Date: 09.10.2024	4		
Provided By Client	Durnoss of	Amelia	
1 Outlet			Quantity Received
ohit Mondal. & 15.03.25	P	hysical Condition	
1	phit Mondal & 15 03 25	Outlet Quality (Outlet Quality Check

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	Chemical Testing	Law Fred Script State B. F. Vill		Test Result
1	pH value	-	APHA Method 23 rd Edition	8.37 at 30°C
2	Cyanide (as CN)	mg/l	APHA Method 23 rd Edition	0.028 15 0.18
3	Ammonical Nitrogen (as N)	mg/l	APHA Method 23 rd Edition	
4	Phenolic compounds	mg/l	APHA Method 23 rd Edition	
5	Chemical oxygen demand (COD)	mg/l	APHA Method 23 rd Edition	
6	Biochemical oxygen demand (3 days at 27°C)	mg/I	APHA Method 23 rd Edition	24
7	Oil & Grease	mg/l	APHA Method 23 rd Edition	1
8	Total Suspended Solids	mg/l	APHA Method 23 rd Edition	24

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Non-perishable and perishable sample(s) ahall be disposed off after 30 days and 15 days respectively from the date of issue of Test Report, unless specified otherwise.

"mg/l" is equivalent to "ppm".

REMARKS: As requested by the client, sample was tested for above parameters only.

Verified By

Snehal Raut Technical Manager **Authorized Signatory**

hinmay Garway Seputy Quality Ma nager

END OF REPORT

महायक महाप्रवधक (पर्यावरण प्रवधनः

AGM (Environ, Mgmt.) मैल-आई. एस. पी., वर्नपुर SAIL-ISP, BURMPUR



Annexure 2 Monitoring Results

Stack Monitoring Data

Month	Unit	Stack	PM (mg/Nm³)	SO ₂ (mg/Nm ³)	NOx (mg/Nm³)
	Blast	Bf-5 Cast	43		
	Furnace	house-1			
	1.01110.00	Bf-5 Cast	37		
		house-2			
		Bf-5 Stock	34	alone)	
		house			
		Bf-5 (Stove)	25	17	46
		COB #10	37	126	88
		COB #11	40	104	131
October 2024	Coke Oven	PEC	15	-	
		CDU	40		
		CDCP	40		
		Dolomite Plant	38		
	LDCP	Lime Plant-1	50		
	2001	Lime Plant-2	46		
		Lime Plant-3	47		
		WRM	10		-
. *	Mills	Bar Mill	12		
	IVIIIIO	USM	11		
	Sinter Plant	Sinter Plant # 1	19) bears
	Sinter Flant	Sinter Plant # 2	34	***	
	PBS	Boiler - 1	14	105	107
	PBS	Boiler - 3	10	98	106
	BOF	SMS	16		
	Blast	Bf-5 Cast	10	***	
	The state of the s	house-1	10		
	Furnace	Bf-5 Cast	10		
		house-2	10	1	
		Bf-5 Stock	12		***
		house	12	1	
		Bf-5 (Stove)	6	78	51
November 2024		COB #10	33	133	99
NOVELLIDE: EUZ-		COB #10	40	137	93
	Coke Oven	PEC PEC	13		
	Coke Over	CDU	30		
		CDCP	35	1	
	LDOD			(<u>222</u>)	
	LDCP	Dolomite Plant Lime Plant-1			
			1 ***		
		Lime Plant-2			-
	A #100-	Lime Plant-3	18	100000	100
	Mills	WRM	5		200
		Bar Mill		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Ciatas Diagram	USM	10		
7.89	Sinter Plant	Sinter Plant # 1	18		
	550	Sinter Plant # 2	14	- A 10 20 FL	109
	PBS	Boiler -A	74	153	
		Boiler -2	16	110	118
	BOF	SMS	14		

महायक महाप्रवंधक (पर्यावरण प्रबंधन में के) AGM (Environ. Mgmt.) सैल-आई. एस. पी., बर्नपुर SAIL-ISP BURNPUS

Month	Unit	Stack	PM (mg/Nm³)	SO ₂ (mg/Nm ³)	NOx (mg/Nm ³
	Blast Furnace	Bf-5 Cast house-1	40	. Terms	
December 2024	Tunidoo	Bf-5 Cast house-2	40		
		Bf-5 Stock house	37	(400)	
		Bf-5 (Stove)	25	55	35
		COB #10	44	185	172
		COB #10	45	101	196
	Coke Oven	PEC PEC	12	101	130
	COKE OVEI	CDU	27		
		CDCP	32	****	
				***	***
	1000	Dolomite Plant	17		
	LDCP	Lime Plant-2	50	0.000	
		Lime Plant-3	46		
		Lime Plant-4	47		
		WRM	13	- Congress	
	Mills	Bar Mill	6		
		USM	10		
	Sinter Plant	Sinter Plant # 1	24	722	
		Sinter Plant # 2	30	V-12	
	PBS	Boiler -1	11	95	103
		Boiler -2	15	90	97
	BOF	SMS	32		
	Blast Furnace	Bf-5 Cast house-1	47	1 PART 1 P	
		Bf-5 Cast house-2	35		
		Bf-5 Stock house	48		
		Bf-5 (Stove)	18	59	42
		COB #10	33	124	89
240		COB #10	35	99	153
	Coke Oven		10		100
January 2025	Coke Over	PEC			
oundary zozo		CDU	25		
	1000	CDCP	43		
	LDCP	Dolomite Plant	15		
		Lime Plant-1	45 -		
		Lime Plant-2	45		
		Lime Plant-3	44		
	Mills	WRM	12		
		Bar Mill	14		
		USM	13		
	Sinter Plant	Sinter Plant # 1	30		1
181		Sinter Plant # 2	25		700
	PBS	Boiler -1	11	99	109
		Boiler -2	16	94	102
		Boiler -B	58	137	113
	BOF	SMS	47		

महायक महाप्रवंधक (पर्यावरण प्रवंधः । किर्म) AGM (Environ, Mgnft.) A - 14 . किर्म) सैल-आई. एस. पी., बनपुर SAIL-ISP, BURNPUR

Month	Unit	Stack	PM (mg/Nm³)	SO ₂ (mg/Nm ³)	NOx (mg/Nm³)
	Blast	Bf-5 Cast	15		
	Furnace	house-1			
	W. SERVERSE	Bf-5 Cast	16		
		house-2			
		Bf-5 Stock	48		-
February 2025		house			
		Bf-5 (Stove)	12	46	41
		COB #10	29	126	86
		COB #11	34	148	92
	Coke Oven	PEC	10		7-4-4
		CDU	15	-	V V
		CDCP	20	1 444	
	LDCP	Dolomite Plant	46		
		Lime Plant-1	20	-	
		Lime Plant-2	15		
		Lime Plant-3	43		
		WRM	18	and not the	
	Mills	Bar Mill	11		
	0,000	USM	10		
-	Sinter Plant	Sinter Plant # 1	48	***	
	Onited Ident	Sinter Plant # 2	47		
	PBS	Boiler -1	12	108	118
	1 00	Boiler -3	12	104	112
		Boiler -B	48	145	107
	BOF	SMS	21	-	
	DOI	Bf-5 Cast	46	****	
		house-1			
	Blast	Bf-5 Cast	44	1000	
	Furnace	house-2			
	1 dillaco	Bf-5 Stock	41		
		house	53.5		
		Bf-5 (Stove)	13	41	36
		COB #10	15	187	165
780		COB #11	13	90	145
	Coke Oven	PEC	10		The second Co
	00110 01011	CDU	15		
March 2025		CDCP	49	Photos.	
	LDCP	Dolomite Plant	41	202	
	EDOI	Lime Plant-1	20		
		Lime Plant-2	15		
		Lime Plant-3	47		No. of the
	Mills	WRM	18		
	IVIIIIO	Bar Mill	16	1	
		USM	10		-
	Sinter Plant	Sinter Plant # 1	46		100
7.80	Sinter Flant	Sinter Plant # 2	48		
	PBS	Boiler -1	13	113	125
	F 50	Boiler -3	19	118	121
1.7.	BOF	SMS .	22		

Arans (A. K. Pas)

सहायक महाप्रवंधक (पर्यायरण प्रवधन AGM (Environ, Mgmt.) बैल-आई एम पी., वर्नपुर See ASP, BURNPUP

Ambient Air Quality Monitoring Data

Month	Location of Station		P	arameters	$(\mu g/m^3)$	
			PM ₁₀	PM _{2.5}	SO ₂	NO
		Norm	100	60	80	80
	Town Department		91	53	12	14
	Chhotodighari		93	56	10	13
October 2024	Rangapara		92	50	13	16
	Kuilapur		91	50	14	15
	Nakrasota		94	54	10	16
	Dharampur		96	52	15	15
	Central Town		93	54	13	16
	Chhotodighari		95	55	12	15
November 2024	Rangapara	>	94	52	14	17
	Kuilapur		93	51	15	17
	Nakrasota		92	53	11	15
	Dharampur		94	55	14	16
	Central Town		95	55	14	17
	Chhotodighari		93	54	13	16
	Rangapara		92	53	15	18
December 2024	Kuilapur	92	53	16	18	
	Nakrasota		91	52	12	16
	Dharampur		93	54	15	15
	Central Town		94	54	15	16
	Chhotodighari		95	53	14	17
January 2025	Rangapara		93	52	13	16
SOMETHALES ALVERDAN	Kuilapur		91	52	14	17
	Nakrasota		90	53	13	15
	Dharampur		92	52	14	16
	Central Town		92	55	17	17
	Chhotodighari		93	51	16	19
February 2025	Rangapara		91	53	15	18
	Kuilapur		90	54	18	19
	Nakrasota		91	55	15	17
	Dharampur		94	56	16	18
	Central Town		87	49	11	14
	Chhotodighari		92	55	11 *	12
	Rangapara		89	50	16	17
March 2025	Kuilapur		91	51	16	22
	Nakrasota		93	52	13	25
	Dharampur		95	55	14	19

A. (c. Pai)

Work Environment

onth	Unit	Location		Param		
TOTAL TOTAL			SPM (µg/m³)	PM ₁₀ (µg/m³)	SO ₂ (μg/m ³)	NOx (µg/m³)
	Coke Oven #10	Ram Side	1021	711	56	61
	Coke Oven #11	Ram Side	1291	782	49	77
	BF-5	Cast House	1708	889	55	79
October 2024	Sinter Plant	Floor Area	1589	1361	33	63
0010001 2021	BOF	Converter	1117	712	41	56
	Bar Mill	Floor Area	421	207	28	40
	RMHP	Floor Area	1575	784	32	59
	LDCP	Floor Area	1579	615	32	45
	Oxygen Plant	Floor Area	534	191	26	38
	PBS	Floor Area	683	287	29	37
	Coke Oven #10	Coke Side	1231	807	51	57
	Coke Oven #11	Coke Side	1369	919	54	72
	BF-5	Cast House	1514	771	50	69
	Sinter Plant	Floor Area	1418	1203	36	56
November	BOF	Converter	1042	424	49	51
2024	USM	Floor Area	362	132	25	36
2024	RMHP	Floor Area	1435	701	28	55
	LDCP	Floor Area	1021	581	37	49
		Floor Area	346	126	29	34
	Oxygen Plant	Floor Area	411	162	31	33
	PBS Coke Oven #10	Ram side	1359	862	48	54
		Ram side	1411	945	56	70
	Coke Oven #11	Cast House	1804	912	57	75
	BF-5	Floor Area	1608	1276	38	59
December	Sinter Plant	Converter	1279	619	43	49
2024	BOF	Floor Area	448	217	30	38
2024	WRM	Floor Area	1621	747	30	57
	RMHP	Floor Area	1617	728	34	46
(4)		Floor Area	428	182	28	36
	Oxygen Plant	Floor Area	668	243	30	35
	PBS Coke Oven #10	Coke side	1240	781	46	49
	Coke Oven #10	Coke side	1325	869	53	65
	BF-5	Cast House	1718	886	54.	71
	Sinter Plant	Floor Area	1541	1121	43	56
January 2025	BOF	Converter	1164	588	45	47
Juliudi y 2020		Floor Area	428	225	32	40
	Bar Mill RMHP	Floor Area	1478	712	32	48
	LDCP	Floor Area	1511	667	31	44
	Oxygen Plant	Floor Area	402	196	29	38
	1 1	Floor Area	719	319	32	37
789	PBS	Ploof Alea	, 10			

महायक महाप्रवंधक (प्यावरण स्वयंग AGM (Environ, Mgmt.) मैल-आई एम जी, वर्जपुर इस्ट अस्ट हार्डिश्याव

Month	Unit	Location		Param	eters	
			SPM (µg/m³)	PM ₁₀ (µg/m ³)	SO ₂ (μg/m ³)	NOx (µg/m³)
	Coke Oven #10	Ram side	1312	892	.51	55
	Coke Oven #11	Ram side	1419	919	56	62
	BF-5	Cast House	1779	971	50	65
	Sinter Plant	Floor Area	1415	1018	42	54
February 2025	BOF	Converter	1205	725	47	50
15 EAGUE-10.E	USM	Floor Area	476	288	36	42
	RMHP	Floor Area	1561	793	34	50
	LDCP	Floor Area	1641	786	35	47
	Oxygen Plant	Floor Area	439	218	32	36
	PBS	Floor Area	808	296	30	35
	Coke Oven #10	Coke side	1268	700	51	60
	Coke Oven #11	Coke side	1320	760	46	68
	BF-5	Cast House	1603	1080	53	76
March 2025	Sinter Plant	Floor Area	1588	1270	51	73
	BOF	Converter	1256	860	39	59
	WRM	Floor Area	471	239	32	35
	RMHP	Floor Area	1458	910	43	66
	LDCP	Floor Area	1521	730	39	47
	Oxygen Plant	Floor Area	461	247	34	38
	PBS	Floor Area	752	326	32	37

Work Environment Noise Monitoring

Month		otodig	100	OB		nicle ate	The state of	nnel ate	Dha	rampur	Kı	ilapur	Nak	rasota
	D	N	D	N	D	N	D	N	D	N	D	N	D	N
Oct- 2024	60	51	58	50	59	48	58	51	57	50	58	49	56	49
Nov-2024	58	50	59	52	57	46	55	49	55	51	56	48	57	47
Dec-2024	- 58	47	57	49	59	45	59	47	56	48	52	45	55	46
Jan-2025	59	49	64	53	63	53	64	54	61	52	57	49	58	50
Feb-2025	61	51	63	52	64	54	63	53	62	53	59	51	60	52
Mar-2025	60	52	62	53	63	52	62	52	60	51	62	52	61	53

D - During Day Time, N - During Night Time

A-12. Pm)

सहायक महाप्रवंधक (पर्यावरण प्रवधन AGM (Environ, Mgmt.) सैल-आई. एस. पी., वर्नपुर SAIL-ISP BURNPUP

Coke Oven Fugitive Emission

Month	Parameters	Norm	Battery 10 (Rebuilt Batt.)	Battery 11 (New Batt.)
	PLD	10 % (COB#10)	0.77	2.12
	PLU	5 % (COB #11)		
	DLI	1 %	0.08	0.22
	PLL	4%	0.30	0.84
October 2024	PLO	50 Sec/ Charge	10	11
October 2024	Charging	(COB #10)	2005	
	Emissions	16 Sec/ Charge		
		(COB #11)		
	PLD	10 % (COB#10)	0.83	1.99
	PLD	5 % (COB #11)		
	DU	1 %	0.14	0.31
	PLL	4%	0.42	1.33
lovember 2024	PLO	50 Sec/ Charge	14	14
	Charging	(COB #10)	15 12	
	Emissions	16 Sec/ Charge		
		(COB #11)		
	51.5	10 % (COB#10)	0.74	1.58
	PLD	5 % (COB #11)		
		1 %	0.08	0.26
	PLL	4%	0.40	1.60
December 2024	PLO	50 Sec/ Charge	12	12
	Charging	(COB #10)	12	
	Emissions	16 Sec/ Charge	-	
		(COB #11)		
	DI D	10 % (COB#10)	0.60	1.33
	PLD	5 % (COB #11)		
	DUI	1 %	0.08	0.11
	PLL	4%	0.32	1.20
January 2025	PLO	50 Sec/ Charge	12	11
	Charging	(COB #10)		
	Emissions	16 Sec/ Charge		
949		(COB #11)		
	DID	10 % (COB#10)	0.58	1.51
74	PLD	5 % (COB #11)		
	DUI	1 %	0.08	0.14
Esharam, 2025	PLL	4%	0.40	1.17
February 2025	PLO	50 Sec/ Charge	10 .	12 *
	Charging	(COB #10)	(2.87.6.	
	Emissions	16 Sec/ Charge		
		(COB #11)		
	DLD	10 % (COB#10)	0.77	1.81
	PLD	5 % (COB #11)		
M	DUI	1 %	0.08	0.15
March 2025	PLL	4%	0.48	1.24
0.65	PLO	50 Sec/ Charge	11	12
	Charging	(COB #10)		
	Emissions	16 Sec/ Charge		
		(COB #11)		

महायक महाप्रवंधक (पर्यावरण प्रवध्यः AGM (Environ, Mgmt.) मैल-आई. एस. पी., नजपुर SAIL JSP, BURNIUM

Annexure 3

Pollution Control Equipment Installed

IISCO Steel Plant Pollution Control Equipment Installed

SI. No.	Shop	Pollution Control System	Nos.
1.	Coke	HPLA System	2
	Oven	BOD Plant	2
		Bag Filter	5
		RO Plant	1
		Gravel filter	2
		Pressure filter	1
		ESP	5
		Chimney	5
2.	Blast Furnac e	Dust Catcher	1
		Ventury Scrubber	1
		Clarifier	2
		ESP	3
		Drum filter	2
		Chimney	6
3	SMS (BOF)	Dog House (Including ducting)	3
		ESP (Dry type attached with chimney)	2
		ESP (Wet type attached with Gas holder)	3
		Gas Holder	1
		Bag House at Transfer Points	3
		Thickener	4
		Belt press filter for sludge	4
		Chimney	4
4	Sinter Plant	Bag Filter	4
		ESP	4
		RO Plant	1
		Chimney	4
5	LDCP	Bag filter	8
		Chimney	8
6.	Power Plant	Ash Handling System	1
		RO Plant	1
		Chimney	5
7.	Rolling Mills	Fce water treatment plant	- 1
		Mill water treatment plant	2
		RO Plant .	2
		Chimney	3

A. M. Pa)

Annexure 4 CSR Activities

CSR Activities Carried out during 2024-25

SN	CSR Activities			
1	Free Coaching Centre (FCC) for school dropouts & scholarship to the meritorious students & pool students from underprivileged class			
2	Financial aid to Bharati Bhavan for "Sishu Utsav"			
3	Distribution of School Uniform, School Accessories to the students of Dhemomain Colliery School and Bari Vidyalaya Primary Section			
4	Providing Tiffin, educational kits & accessories (school bag, water bottle, Tiffin box, pencil box, raincoat), uniform including shoes and socks, honorarium for teachers and celebration of important events to Kishalaya Preparatory School			
5	Construction of new building for Burnpur Girl's High School (Approx. 98% Non-SAIL BPL)			
6	Repair /renovation/ extension of class rooms and infrastructure development at Dhemomain colliery Hindi Primary school			
7	Financial assistance to The Ekalavya Initiative (TEI) To sharply improve the quality of student development Amongst schoolchildren from the lowest socio-economic classes in IISCO Model Steel Village School			
8	Vocational Training (Tailoring & AC-Refrigeration) for Village Youths at RKM Vocational training center & Sponsorship of BPL category students in courses viz. Computer operation & programming assistant, Welder, Fitter, Electrician from peripheral villages of ITI, RKM, Asansol			
9	Skill development training on General Duty Assistant & Phlebotomy course			
10	Skill development training in peripheral villages under Recognition of Prior Learning program			
11	Additional Grant for Accreditation and Enrolment Fees for NSDC Certification for Vocational Training course run by RKM, Asansol			
12	Training on Mushroom Cultivation and production to villagers			
13	Financial aid to Lakchar Semlet for setting up CSR Outlet like furniture's, refrigerator, publicit etc. for selling handicrafts etc. made by CSR beneficiaries			
14	Regular Extended OPD with help of mobile medical van, enhancement of outreach camp, Preventive action against Malaria, Dengue etc. to 35 peripheral villages/ Aarogya Mitra			
15	Supplying Assistive living devices to PwDs at Burnpur, Asansol, Bankura & Purulia			
16	"Stop Malnutrition" for the under privileged children and regular educational coaching to "Stop school dropout" in Chobka red light area & Bhuiapara			
17	Providing tiffin to the students of Burnpur Ambagan Volunteers Social Welfare Organisation			
18	Providing Cooked nutritious meal to school children (1571 nos.) of different schools in and around Burnpur through community kitchen			
19	Improving Nutrition & Health of the School children (1901 children) of different schools in and around Burnpur through Gift milk programme (to be booked in capacity building)			
20	AIDS awareness project cum medical camp for sex workers of Lachipur& Chobka Red-light Area			
21	Organizing camp for Health & Nutrition of Mother & Pregnant ladies among underprivileged women at peripheral villages			
22	Financial aid to Sri Aurobindo Yoga & Knowledge Foundation for Sharing happiness for feet, eye & smile for 1000 children in peripheral villages			
23	Development/lighting of community parks/community sports grounds/fields etc.			
24	Financial aid to Burnpur Mahila Voluntary Samity for stitching, knitting training & Infrastructure development at BMVS centre (Nivedita Enclave) for showcasing products made by beneficiaries			
25	Providing Sanitary napkin to village women/girl			
26	Financial assistance to Burnpur Mahila Voluntary Samiti for Industrial gloves making training			

सहायक महाप्रवधक (प्रयोवरण प्रवधः क्रिक्टिंग) क्रिक्ट AGM (Environ, Mgmt.) सैल-आई. एस. पी., बर्नपुर SAIL-ISP, BURNPUR AGM (Environ, Mgmt.) सैल-आई. एस. पी., बर्नपुर SAIL-ISP, BURNPUP

27	Skill development training for village women at BMVS centre (Stitching, embroidery, advanced		
-	beautician course) End to end service Up skilling of women on Kantha stitch, zardozi, Zari, batik print, fabric, applique, patch work,		
28	advanced stiching, school dress and knitting – End to end service		
29	Financial assistance to BMVS for advanced Computer Training Course		
30	Diduchi conchine 0 to interest of the first		
31	Ten Pink E-vehicle (Toto) to be driven by women drivers from CSR peripheral villages		
32	Setting up solar submersible pump set in peripheral village & laying pipeline to provide poir from pump set in different villages		
33	Maintenance of Tube Wells with Hand Pump already installed in different villages		
34	Maintenance and repair of existing sanitations already installed in different villages		
35	Construction of toilet for Burnpur Girl's school		
36	Providing Community toilet in 5 (five) peripheral villages under "Swacha Bharat Mission" including maintenance		
37	Providing training to the villagers(Boys & Girls) for Football & Kabaddi throughout the year		
38	Organizing Inter village Football & Kabaddi tournament		
39	Financial aid to village students for Physical education & yoga centers		
40	Financial assistance to RKM, Asansol for promotion of sports activity (SAIL-KHEL)		
41	Financial assistance for illumination of Burnpur Cricket Club field by installing High Mast Towers		
42	Organizing Hool Divas and Sohrai Festival		
43	Celebration of Dr. B. R. Ambedkar Jayanti and other events		
44	Tribal Cultural functions & Dance Competition		
45	Restoring the cultural heritage of IISCO Steel Plant, Burnpur (Also CSR initiatives by erstwhile IISCO & SAIL-ISP)		
46	Financial aid for running Cheshire Home, Burnpur (Security, food, clothing, education, maintenance and upkeep, special trainers, warden, celebration of important days etc.)		
47	Financial assistance to Asansol Anandam for providing tiffin to divyang students, honorarium for teachers, raw material for training, stationary etc. & repair & maintenance of Jacuzzi for hydrotherapy installed earlier under CSR		
48	Distribution of Blanket, Clothes, Sweater, Shoes, Sandal etc. to economically poor people		
49	Construction of Community centers with toilet and repairing/renovation of community centers in peripheral villages of Burnpur		
50	Repair/Construction of roads/Infrastructure development in peripheral villages		
51	Repair & Renovation of Peripheral market/Daily market of Burnour		
52	Afforestation & Environment development / development of parks in peripheral villages		
53	Plastic waste management (Collection & Processing) (Preventive healthcare)		
54	Solid waste management at Burnpur (Solid Waste to Compost and Dry Leaf to Brickets)		
5	Publicity of ISP CSR Projects/activities		
6	Enabling access to government schemes and documents for poor masses of peripheral villages		
7	Hiring a 7 seater AC Vehicle exclusively for CSR Dept. for 1 year (for monitoring/inspeciton and visit of CSR projects sites in remote areas of peripheral villages surrounding Burnpur/Asansol		

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