

स्टील अथॉरिटी ऑफ इण्डिया लिमिटेड

(भारत सरकार का उपक्रम)

इस्को स्टील प्लांट

बर्नपुर - 713 325 पश्चिम बंगाल

टेलिफोन नं० : 0341-2240441

फैक्स नं० : 0341-2240018, 2240032

: 0341-2240704 (Works)



ओ एवं एम/सा०/33 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)

संदर्भ सं०/Ref. No. : EMD/MoEF/2024/11

दिनांक / Date : June 01, 2024

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 2023 to March 2024.

Thanking you,

Yours faithfully,

(Sunil Singal)

CGM (Safety, Fire Services & Environment)

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 2023 to March 2024

Condition of MoEFCC	Status / Compliance
A. Specific Conditions :	
i) The gaseous emissions from various process units 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 beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.	These features are taken care of in Design & Engineering. Efforts are made considering necessary factor of safety that at no time, the emission level shall go beyond the prescribed standards. However, due to technological limitation and safety & hazards requirements of different units of the plant interlock facilities cannot be provided for automatically stopping. Test Reports of monitoring and analysis carried out by WBPCB and other recognized laboratories during October 2023 to March 2024 are placed at Annexure 1.
ii) 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/Nm ³ and reports submitted to the WBPCB & CPCB.	These features are taken care of in Design & Engineering. Emission is maintained within norm. Stack, Ambient Air, Work Environment, Ambient Noise and Coke oven Fugitive Emissions monitoring report from October 2023 to March 2024 is placed at Annexure 2.
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.	Monitoring stations already exist. Calibration being done regularly. Five (5) Nos. of Continuous Ambient Air Quality Stations (CAAQMS) are set up at Township (1 No.) & Plant (4 Nos.).
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 areas and material transfer points shall be provided. A fume extraction system comprising suction hood, associated duct, cyclone/scrubber shall be provided to control dust generated during secondary refining. De-dusting system shall be provided at different material transfer points. Tar, NH ₃ shall be cleaned in the process and H ₂ S recovery from the coke oven shall be ensured. By-product fuel gases shall be used for steam and power generation.	The stipulated control measures have been considered in Design & Engineering and installed. List of Pollution Control equipment installed in various units are provided in Annexure 3. Tar, NH ₃ is being cleaned and H ₂ S recovery from Coke Oven is being done.

महानगर महानगर
AGM (Environment)
सेल आई. एम. पी., बर्नपुर
SAIL ISP, BURNPUR

Condition of MoEFCC	Status / Compliance
v) Dry fog dust suppression system shall be provided to control fugitive emissions. Further, specific measures like water sprinkling around the coal stockpiles and asphaltting or concreting of the roads shall be done to control fugitive emissions. Secondary fugitive emissions shall be controlled within the prescribed limits, regularly monitored and records maintained. Guidelines/Code of Practice issued by the CPCB in this regard shall be followed.	Dry fog dust suppression system and water sprinkling systems installed. Secondary fugitive emissions are being controlled by deploying sprinklers and mist canons.
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 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 treated in sewage treatment plant (STP).	These features are taken care of in Design & Engineering. Process water is recycled. Septic Tank has been made for domestic effluent ZLD plants are commissioned.
vii) All the BF slag shall be either sold or used for road construction. BF sludge and BOF sludge shall be partly used in sinter plant and partly dumped. BOF slag shall 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 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, 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.	BF slags are being sold regularly and Hazardous wastes are being disposed as per Hazardous & Other Wastes (Management And Trans-boundary Movement) Rules, 2016.
viii) The prescribed emission standards for coke oven plants as notified vide notification no. GSR 46 (E) dated 3 rd February, 2006 shall be complied with.	Complied
ix) All the environment management measures given in the EIA/EMP shall be implemented and complied with.	Complied
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 more than 305 Ha.
B. 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 or modification of the plant shall be carried out without prior approval of this Ministry.	Agreed

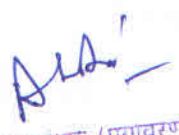

 सहायक महासचिव (पर्यावरण प्रबंधन)
 AGM (Environ. Mgmt.)
 सैल-आई-एस-पी, बर्नपुर
 SAIL-ISP, BURNPUR

Condition of MoEFCC	Status / Compliance
iii) 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 noise generation. The ambient noise levels shall conform to the standards prescribed under Environmental (Protection) Act, 1986 Rules, 1989 viz. 75 dB(A) (day time) and 70 dB(A) (night time).	Complied
iv) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Complied.
v) All the recommendations mentioned in the Corporate Responsibility for Environmental Protection (CREP) of CPCB issued for the steel plants shall be implemented.	Implemented
vi) 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 April 2023 to March 2024 is placed at Annexure 4.
vii) The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	WBPCB in its Consent to Establish for expansion of ISP directed SAIL-ISP not to discharge rain water into the ground. Roof top rainwater harvesting system is installed and commissioned at Refractory storage shed area.
viii) Proper housekeeping and adequate occupational health programmes shall be taken up.	Being done on regular basis
ix) 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 CGM (Safety, Fire Services & Environment), GM (Safety & Environment), 3 officers & 5 non-executives.
x) 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 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 diverted for any other purpose.	Allocated amount being utilized for environmental measures.
xi) 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 interpretation shall be submitted to them regularly.	Monitoring Reports along with statistical interpretation are being submitted regularly to MoEFCC.
xii) 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 development work.	Land development work is done since November, 2007. Status report submitted on six monthly basis.
xiii) The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the 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.	Complied.


 अधिकारी महाराष्ट्र (पर्यावरण प्रबंधन)
 AGM (Environ. Mgmt.)
 एन.आई.एस. पी., बर्नपुर
 SAIL-ISP, BURNPUR

Annexure 1

Test Reports


महायक महाप्रबंधक (परावरण प्रबंधन)
AGM (Environ. Mgmt.)
सेल-आई. एस. पी., बर्नपुर
SAIL-ISP, BURNPUR

Analysis Reports of Gaseous Emission

Identification Code: 2 8 1 1 2 0 2 3 9 5 4 5



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-ISP
2. Address	Burnpur, Paschim Bardhaman, 713325
3. Category & Type	Red & Steel Palnt
4. Sampling Date	28.11.2023
5. Duration of Sampling	38 min
6. Name of Laboratory	M/s. Indicative Consultant India
7. Height of Stack from ground (m)	65.0
8. Cross section of Stack at sampling point (m ²)	8.045
Stack connected to	WRM
10. Emission due to (Furnace / Boiler)	Burning of Mixed Gas
11. Average operational hours of boiler/furnace (per month)	720 hrs/month
12. APC System (if any)	-
13. Working load of source (MT/hr)	150 MT/hr.
14. Fuel used	Mixed Gas
15. Rated Fuel consumption (Kg or l /hr)	-
16. Working Fuel consumption (Kg or l /hr)	7,10,588 m ³ /hr.
17. Nature of furnace/boiler	WRM
18. Flue Gas Temp (°C)	195.0
19. Flue gas velocity (m/s)	12.20
20. Volume of Flue gas drawn in lit (m ³)	1.33
21. Corrected flue gas volume (Nm ³)	1.235
22. Percentage of CO ₂ & O ₂	CO ₂ =4.6% O ₂ =14.8%
23. To be compensated at (% if required)	-
24. Initial wt of thimble (gm)	1.4819
25. Final wt of thimble (gm)	1.4901
26. Wt. of PM (mg)	8.20
27. Particulate matter (mg/Nm ³)	6.64
28. Barometric Pressure Head (mm of Hg)	752
29. Diameter of the nozzle	9.525 mm
30. Others -	31. Thimble Number
32. Sampled by	Mr. A. Barman, AEE

08.12.2023

Date of Reporting

Junior Scientist, DRL

Scientist, DRL

Copy to:

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

महायक महाप्रबन्धक (पर्यावरण प्रबन्धन)
 AGM (Environ. Mgmt.)
 सेल-आई. एस. पी., बर्नपुर
 SAIL-ISP, BURNPUR

Analysis Reports of Gaseous Emission

Identification Code: 2 8 1 1 2 0 2 3 9 5 4 4



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-ISP
2. Address	Burnpur, Paschim Bardhaman, 713325
3. Category & Type	Red & Steel Palnt
4. Sampling Date	28.11.2023
5. Duration of Sampling	40 min
6. Name of Laboratory	M/s. Indicative Consultant India
7. Height of Stack from ground (m)	79.1
8. Cross section of Stack at sampling point (m ²)	15.91
Stack connected to	BOF (Basic Oxygen Furnace)
10. Emission due to (Furnace / Boiler)	Process Activity
11. Average operational hours of boiler/furnace (per month)	720 hrs/month
12. APC System (if any)	ESP
13. Working load of source (MT/hr)	150 MT/hr.
14. Fuel used	-
15. Rated Fuel consumption (Kg or l/hr)	-
16. Working Fuel consumption (Kg or l/hr)	-
17. Nature of furnace/boiler	Basic Oxygen Furnace
18. Flue Gas Temp (°C)	41.0
19. Flue gas velocity (m/s)	12.90
20. Volume of Flue gas drawn in lit (m ³)	1.0
21. Corrected flue gas volume (Nm ³)	0.9123
22. Percentage of CO ₂ & O ₂	CO ₂ =2.8% O ₂ =17.2%
23. To be compensated at (% if required)	-
24. Initial wt of thimble (gm)	1.6517
25. Final wt of thimble (gm)	1.6641
26. Wt. of PM (mg)	12.40
27. Particulate matter (mg/Nm ³)	13.59
28. Barometric Pressure Head (mm of Hg)	752
29. Diameter of the nozzle	6.35 mm
30. Others -	
31. Thimble Number	5003
32. Sampled by	Mr. A. Barman, AEE

08.12.2023

Date of Reporting

[Signature]
08/12/23
Junior Scientist, DRL

[Signature] 08/12/2023
Scientist, DRL

Copy to:

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

[Signature]
महायक महाप्रबधक (पर्यावरण प्रबधक)

AGM (Environ. Mgmt.)
सेल-आई. एम. पी., बर्नपुर
SAIL-ISP, BURNPUR

Analysis Reports of Gaseous Emission

Identification Code: 2 8 1 1 2 0 2 3 9 5 4 3



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-ISP
2. Address	Burnpur, Paschim Bardhaman, 713325
3. Category & Type	Red & Steel Paint
4. Sampling Date	28.11.2023
5. Duration of Sampling	38 min
6. Name of Laboratory	M/s. Indicative Consultant India
7. Height of Stack from ground (m)	120.0
8. Cross section of Stack at sampling point (m ²)	26.431
9. Stack connected to	Coke Oven Battery (No.-11)
10. Emission due to (Furnace / Boiler)	Combustion of CO Gas & Conversion of Coal
11. Average operational hours of boiler/furnace (per month)	720 hrs/month
12. APC System (if any)	-
13. Working load of source (MT/hr)	-
14. Fuel used	CO Gas
15. Rated Fuel consumption (Kg or l/hr)	-
16. Working Fuel consumption (Kg or l/hr)	21,62,600 m ³ /Day
17. Nature of furnace/boiler	Coke Oven
18. Flue Gas Temp (°C)	208.0
19. Flue gas velocity (m/s)	6.87
20. Volume of Flue gas drawn in lit (m ³)	1.292
21. Corrected flue gas volume (Nm ³)	1.187
22. Percentage of CO ₂ & O ₂	CO ₂ =5.2% O ₂ =13.0%
23. To be compensated at (% if required)	-
24. Initial wt of thimble (gm)	1.4145
25. Final wt of thimble (gm)	1.4223
26. Wt. of PM (mg)	7.80
27. Particulate matter (mg/Nm ³)	6.57
28. Barometric Pressure Head (mm of Hg)	752
29. Diameter of the nozzle	12.7 mm.
30. Others SO ₂ & NO _x	-
31. Thimble Number	4999
32. Sampled by	Mr. A. Barman, AEE

08.12.2023

Date of Reporting

 08/12/23
 Junior Scientist, DRL

 08/12/2023
 Scientist, DRL

Copy to:

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

महायक महाप्रबंधक (पर्यावरण प्रबंधन)
 AGM (Environ. Mgmt.)
 सेल-आई. एस. पी., बर्नपुर
 SAIL-ISP, BURNPUR

Analysis Reports of Gaseous Emission

Identification Code: 2 9 1 1 2 0 2 3 9 5 2 9



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-ISP
2. Address	Burnpur, Paschim Bardhaman, 713325
3. Category & Type	Red & Steel Palnt
4. Sampling Date	29.11.2023
5. Duration of Sampling	38 min
6. Name of Laboratory	M/s. Indicative Consultant India
7. Height of Stack from ground (m)	85.0
8. Cross section of Stack at sampling point (m ²)	25.5279
Stack connected to	Sinter Plant-I
10. Emission due to (Furnace / Boiler)	Combustion of Coke Oven Gas
11. Average operational hours of boiler/furnace (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 l /hr)	-
16. Working Fuel consumption (Kg or l /hr)	6000 m ³ /hr.
17. Nature of furnace/boiler	Sinter Plant
18. Flue Gas Temp (°C)	127.0
19. Flue gas velocity (m/s)	8.57
21. Corrected flue gas volume (Nm ³)	1.038
20. Volume of Flue gas drawn in lit (m ³)	1.14
22. Percentage of CO ₂ & O ₂	CO ₂ =7.2% O ₂ =12.0%
23. To be compensated at (% if required)	-
24. Initial wt of thimble (gm)	1.5260
25. Final wt of thimble (gm)	1.5743
26. Wt. of PM (mg)	48.30
27. Particulate matter (mg/Nm ³)	46.53
28. Barometric Pressure Head (mm of Hg)	751
29. Diameter of the nozzle	9.525 mm
Others -	
31. Thimble Number	5020
32. Sampled by	Mr. P. Mondal, JEE

08.12.2023.

Date of Reporting

 08/12/23
 Junior Scientist, DRL

 08/12/23
 Scientist, DRL

Copy to:

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

 महायक महाप्रबधक (पयावरण प्रबधक)
 AGM (Environ. Mgmt.)
 सेल-आई: एम. पी., बर्नपुर
 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	M/s. Sail-ISP (Burnpur)
2.Address	Burnpur, Paschim Bardhaman, Pin- 713325
3.Category & Type	Red
4.Sampling Date	06.03.2024
5.Duration of Sampling	37 min
6.Name of Laboratory	S.M. Scientific Science
7.Height of Stack from ground (m)	31.0
8.Cross section of Stack at sampling point (m ²)	11.6463
9.Stack connected to	Cost House-1 of Blast Furnace-5
10.Emission due to (Furnace / Boiler)	Process Activity
11. Average operational hours of boiler/furnace (per month)	-
12.APC System (if any)	ESP
13.Working load of source (MT/hr)	-
14. Fuel used	-
15.Rated Fuel consumption (Kg or l /hr)	-
16.Working Fuel consumption (Kg or l /hr)	-
17.Nature of furnace/boiler	-
18.Flue Gas Temp (°C)	48.0
19.Flue gas velocity (m/s)	14.53
20.Volume of Flue gas drawn in lit (m ³)	1.020
21.Corrected flue gas volume (Nm ³)	0.907
22.Percentage of CO ₂ & O ₂	-
23.To be compensated at (% if required)	
24.Initial wt of thimble (gm)	1.7014
25.Final wt of thimble (gm)	1.7074
26.Wt. of PM (mg)	6.00
27.Particulate matter (mg/Nm ³)	6.62
28.Barometric Pressure Head (mm of Hg)	755
29.Diameter of the nozzle	6.35 mm
30. Others SO ₂ & NO _x	
31. Thimble Number	5184
32. Sampled by	Mr. A. Barman, AEE

04/04/2024

Date of Reporting

Subhjit Das
4/4/2024

Prepared by

A. Barman
04/04/2024

Checked by

B. Barman
04/04/2024

Signature of In-Charge, DRL

Copy to:

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

Analysis Reports of Gaseous Emission

Identification Code: 0 6 0 3 2 0 2 4 9 7 0 7



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-ISP (Burnpur)		
2. Address	Burnpur, Paschim Bardhaman, Pin- 713325		
3. Category & Type	Red		
4. Sampling Date	06.03.2024		
5. Duration of Sampling	38 min		
6. Name of Laboratory	S.M. Scientific Science		
7. Height of Stack from ground (m)	110.0		
8. Cross section of Stack at sampling point (m ²)	9.625		
Stack connected to	Coke Oven Battery No.-10		
9. Emission due to (Furnace / Boiler)	Combustion of CO Gas		
11. Average operational hours of boiler/furnace (per month)	-		
12. APC System (if any)	None		
13. Working load of source (MT/hr)	1653 MT/Day		
14. Fuel used	CO Gas		
15. Rated Fuel consumption (Kg or l /hr)	-		
16. Working Fuel consumption (Kg or l /hr)	11800 M ³ / hr		
17. Nature of furnace/boiler			
18. Flue Gas Temp (°C)	133.0		
19. Flue gas velocity (m/s)	7.82	20. Volume of Flue gas drawn in lit (m ³)	1.011
21. Corrected flue gas volume (Nm ³)	0.889	22. Percentage of CO ₂ & O ₂	CO ₂ =5.4 % O ₂ =13.2 %
23. To be compensated at (% if required)			
24. Initial wt of thimble (gm)	1.7283	25. Final wt of thimble (gm)	1.7435
26. Wt. of PM (mg)	15.20	27. Particulate matter (mg/Nm ³)	17.10
28. Barometric Pressure Head (mm of Hg)	755	29. Diameter of the nozzle	9.523 mm
Others SO ₂ & NO _x		31. Thimble Number	5183
32. Sampled by	Mr. A. Barman, AEE		

06/03/2024
Date of Reporting

Subhajit Das
11/3/2024
Prepared by

06/03/24
Checked by

Banaji
04/03/2024
Signature of In-Charge, DRL

Copy to:

1. Chief Engineer - Operation & Execution, WBPCB
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06/03/24
महायुक्त महाप्रबंधक (पर्यावरण प्रबंधन)
AGM (Environ. Mgmt.)
सह-आई. एस. पी., बर्नपुर
SAIL-ISP BURNPUR

Analysis Reports of Gaseous Emission

Identification Code: 0 7 0 3 2 0 2 4 9 7 1 2



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-ISP (Burnpur)
2.Address	Burnpur, Paschim Bardhaman
3.Category & Type	Red
4.Sampling Date	07.03.2024
5.Duration of Sampling	45 min
6.Name of Laboratory	S.M. Scientific Science
7.Height of Stack from ground (m)	65.0
8.Cross section of Stack at sampling point (m ²)	8.0457
Stack connected to	WRM
10.Emission due to (Furnace / Boiler)	Burning of Mixed Gas
11.Average operational hours of boiler/furnace (per month)	720 Hrs/Month
12.APC System (if any)	None
13.Working load of source (MT/hr)	150 MT/hr
14. Fuel used	Mixed Gas
15.Rated Fuel consumption (Kg or l /hr)	-
16.Working Fuel consumption (Kg or l /hr)	7,10,588 m ³ / Day.
17.Nature of furnace/boiler	-
18.Flue Gas Temp (°C)	125.0
19.Flue gas velocity (m/s)	14.36
20.Volume of Flue gas drawn in lit (m ³)	1.019
21.Corrected flue gas volume (Nm ³)	0.878
22.Percentage of CO ₂ & O ₂	CO ₂ =5.8 % O ₂ =14.0 %
23.To be compensated at (% if required)	
24.Initial wt of thimble (gm)	1.6140
25.Final wt of thimble (gm)	1.6254
26.Wt. of PM (mg)	11.40
27.Particulate matter (mg/Nm ³)	12.98
28.Barometric Pressure Head (mm of Hg)	754
29.Diameter of the nozzle	6.35 mm.
30. Others -	
31. Thimble Number	5188
32. Sampled by	Mr. S. Bhattacharya, EE & Mr. R. Chakrabarty, AEE

07/04/2024

Date of Reporting

Subhjit Das
4/4/2024

Prepared by

A. B. Das
04/04/24

Checked by

Bansi
04/04/24

Signature of In-Charge, DRL

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

Analysis Reports of Gaseous Emission

Identification Code: 070320249714



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-ISP (Burnpur)
2.Address	Burnpur, Paschim Bardhaman, 713325
3.Category & Type	Red
4.Sampling Date	07.03.2024
5.Duration of Sampling	41 min
6.Name of Laboratory	M/s. S.M. Scientific Science
7.Height of Stack from ground (m)	70.0
8.Cross section of Stack at sampling point (m ²)	12.5714
9.Stack connected to	Blast Furnace-5 (Stove)
10.Emission due to (Furnace / Boiler)	Burning of Mixed Gas
11.Average operational hours of boiler/furnace (per month)	-
12.APC System (if any)	Dust Catcher & Venturi Scrubber
13.Working load of source (MT/hr)	7700 MT/Day
14. Fuel used	Mixed Gas
15.Rated Fuel consumption (Kg or l/hr)	-
16.Working Fuel consumption (Kg or l/hr)	33,14,800 m ³ /Day.
17.Nature of furnace/boiler	-
18.Flue Gas Temp (°C)	83.0
19.Flue gas velocity (m/s)	13.64
20.Volume of Flue gas drawn in lit (m ³)	1.009
21.Corrected flue gas volume (Nm ³)	0.854
22.Percentage of CO ₂ & O ₂	CO ₂ = 4.2 % O ₂ = 15.2 %
23.To be compensated at (% if required)	-
24.Initial wt of thimble (gm)	1.7790
25.Final wt of thimble (gm)	1.7878
26.Wt. of PM (mg)	8.80
27.Particulate matter (mg/Nm ³)	10.28
28.Barometric Pressure Head (mm of Hg)	754
29.Diameter of the nozzle	6.35 mm.
30.Others SO ₂ & NO _x	31. Thimble Number 5190
32. Sampled by	Mr. S. Bhattacharya, EE & Mr. R. Chakrabarty, AEE

04/04/2024

Date of Reporting

Subhajit Das
4/4/2024

Prepared by

A. K. Das
04/04/24

Checked by

Banga
04/04/2024

Signature of In-Charge, DRL

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AGM (Environ. Mgmt.)
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Analysis Reports of Gaseous Emission

Identification Code: 0 7 0 3 2 0 2 4 9 7 1 3



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-ISP (Burnpur)
2. Address	Burnpur, Paschim Bardhaman, Pin-713325
3. Category & Type	Red
4. Sampling Date	07.03.2024
5. Duration of Sampling	30 min
6. Name of Laboratory	M/s. S.M. Scientific Science
7. Height of Stack from ground (m)	70.0
8. Cross section of Stack at sampling point (m ²)	6.25
Stack connected to	PBS-2 (Boiler No-2)
10. Emission due to (Furnace / Boiler)	Combustion of Mixed Gas
11. Average operational hours of boiler/furnace (per month)	720 hrs/month.
12. APC System (if any)	-
13. Working load of source (MT/hr)	150 MT/hr
14. Fuel used	Mixed Gas
15. Rated Fuel consumption (Kg or l/hr)	-
16. Working Fuel consumption (Kg or l/hr)	11,72,000 m ³ /Day.
17. Nature of furnace/boiler	-
18. Flue Gas Temp (°C)	139.0
19. Flue gas velocity (m/s)	22.96
20. Volume of Flue gas drawn in lit (m ³)	1.007
21. Corrected flue gas volume (Nm ³)	0.901
22. Percentage of CO ₂ & O ₂	CO ₂ = 7.2 % O ₂ = 13.0 %
23. To be compensated at (% if required)	-
24. Initial wt of thimble (gm)	1.7231
25. Final wt of thimble (gm)	1.7330
26. Wt. of PM (mg)	9.90
27. Particulate matter (mg/Nm ³)	10.99
28. Barometric Pressure Head (mm of Hg)	754
29. Diameter of the nozzle	6.35 mm.
30. Others -	31. Thimble Number
31. Thimble Number	5189
32. Sampled by	Mr. S. Bhattacharya, EE & Mr. R. Chakrabarty, AEE

04/04/2024
Date of Reporting

Subhajit Das
4/4/2024
Prepared by

Asstt
04/04/24
Checked by

Banji
04/04/2024
Signature of In-Charge, DRL

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Dist. Paschim Bardhaman (W.B.)

Specialised House on Environmental Monitoring, Analysis, Assessment & Management

ISO 9001:2015 Certified, OHSAS 45001:2018 Certified

ULR NO - TC510923000001706F

TEST REPORT

Report Release Date	: 26.12.2023	Sample Ref. No.(ARF)	: EC/ARF/29/2312106
Test Report No	: EC/TR/42/12361	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 20.12.2023
Sample Collected by	: Mr. Sisir Kr. Roy & Team	Period of Analysis	: 22.12.2023
Sample Details	: Stack Emission	Sampling Location	: E.S.P Stack
Name & Address	: SAIL - IISCO Steel Plant	Sample Condition	: Sealed & Preserved
	P.O. - Burnpur	Sample Stamped as	: TH - 177
	Dist - Paschim Bardhaman	Sample Drawn By	: ECO CARE
	West Bengal	Sampling Plan & Procedure	: EC/SOP/03/01
		Remarks	: ----
		Deviation if any	: None

GENERAL INFORMATION

1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Combustion of BF Gas
3	Stack Connected to	: Boiler # 02
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 2.5m
9	Shape of the Stack	: Rectangle
10	Working Load	: ----

FUEL CHARACTERISTIC REPORT

1	Source of Energy	: Coal, CO Gas
2	Energy Consumption	: 4 MT/hr
3	Calorific Value (K-Cal/Kg)	: ----

RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

		Method
1	Flue Gas Temperature	141 ⁰ C
2	Barometric Pressure	754 mm Hg
3	Velocity of Flue Gas	12.37 m/sec
4	Flue Gas Quantity	198894 NM ³ / hr
5	Concentration of Particulate Matter	14.32 mg/NM ³
6	Concentration of Carbon Dioxide	----
7	Concentration of SO ₂	----
8	Concentration of NO _x	----
		IS 11255 : Part 3
		IS 11255 : Part 3
		IS 11255 : Part 3
		IS 11255 : Part 3
		IS 11255 : Part 1
		IS 13270
		IS 11255 : Part 2
		IS 11255 : Part 7

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

Dr. Mousumi Pal

Authorised Signatory

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ULR NO - TC510923000001707F

TEST REPORT

Report Release Date	: 26.12.2023	Sample Ref. No.(ARF)	: EC/ARF/29/2312106
Test Report No	: EC/TR/42/12362	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 20.12.2023
Sample Collected by	: Mr. Sisir Kr. Roy & Team	Period of Analysis	: 22.12.2023
Sample Details	: Stack Emission	Sampling Location	: ESP Stack
Name & Address	: SAIL - IISCO Steel Plant	Sample Condition	: Sealed
	P.O. - Burnpur	Sample Stamped as	: TH - 178
	Dist - Paschim Bardhaman	Sample Drawn By	: ECO CARE
	West Bengal	Sampling Plan & Procedure	: EC/SOP/03/01
		Remarks	: ----
		Deviation if any	: None

GENERAL INFORMATION

1 Particular of the Plant	: Integrated Steel Plant
2 Emission Due to	: Combustion of BF Gas
3 Stack Connected to	: BF # 5 (Stove)
4 Material of Construction	: M.S
5 Stack Height from G.L.	: 70.0 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	: ----

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 EMISSION ANALYSIS

		Method
1 Flue Gas Temperature	150 °C	IS 11255 : Part 3
2 Barometric Pressure	754 mm Hg	IS 11255 : Part 3
3 Velocity of Flue Gas	13.43 m/sec	IS 11255 : Part 3
4 Flue Gas Quantity	863244 NM ³ /hr	IS 11255 : Part 3
5 Concentration of Particulate Matter	10.71 mg/NM ³	IS 11255 : Part 1
6 Concentration of Carbon Dioxide	----	IS 13270
7 Concentration of SO ₂	146.56 mg/NM ³	IS 11255 : Part 2
8 Concentration of NO _x	89.32 mg/NM ³	IS 11255 : Part 7

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(Signature)

Authorised Signatory

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ULR NO - TC510923000001708F

TEST REPORT

Report Release Date	: 26.12.2023	Sample Ref. No.(ARF)	: EC/ARF/29/2312106
Test Report No	: EC/TR/42/12363	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 20.12.2023
Sample Collected by	: Mr. Sisir Kr. Roy & Team	Period of Analysis	: 22.12.2023
Sample Details	: Stack Emission	Sampling Location	: E.S.P Stack
Name & Address	: SAIL - IISCO Steel Plant	Sample Condition	: Sealed
	P.O. - Burnpur	Sample Stamped as	: TH - 179
	Dist - Paschim Bardhaman	Sample Drawn By	: ECO CARE
	West Bengal	Sampling Plan & Procedure	: EC/SOP/03/01
		Remarks	: ----
		Deviation if any	: None

GENERAL INFORMATION

1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Combustion of BF Gas
3	Stack Connected to	: Boiler # 1
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	: ----

FUEL CHARACTERISTIC REPORT

1	Source of Energy	: Coal, CO Gas
2	Energy Consumption	: 4 MT/hr
3	Calorific Value (K-Cal/Kg)	: ----

RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

Method

1	Flue Gas Temperature	145°C	IS 11255 : Part 3
2	Barometric Pressure	754 mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	11.78 m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	152163 NM ³ / hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	12.80 mg/NM ³	IS 11255 : Part 1
6	Concentration of Carbon Dioxide	----	IS 13270
7	Concentration of SO ₂	----	IS 11255 : Part 2
8	Concentration of NO _x	----	IS 11255 : Part 7

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ULR NO – TC510923000001710F

TEST REPORT

Report Release Date	: 26.12.2023	Sample Ref. No.(ARF)	: EC/ARF/29/2312106
Test Report No	: EC/TR/42/12365	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 20.12.2023
Sample Collected by	: Mr. Sisir Kr. Roy & Team	Period of Analysis	: 22.12.2023
Sample Details	: Stack Emission	Sampling Location	: Bag Filter Stack
Name & Address	: SAIL - IISCO Steel Plant	Sample Condition	: Sealed
	P.O. – Burnpur	Sample Stamped as	: TH – 181
	Dist – Paschim Bardhaman	Sample Drawn By	: ECO CARE
	West Bengal	Sampling Plan & Procedure	: EC/SOP/03/01
		Remarks	: ----
		Deviation if any	: None

GENERAL INFORMATION

1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Process Activity
3	Stack Connected to	: Bag Filter at CDU
4	Material of Construction	: M.S
5	Stack Height from G.L.	: 40.0 m
6	Height of Sampling Port from G.L.	: 27.0 m
7	Height of Sampling Port from L.D.Z.	: ----
8	Dimension of Stack at Sampling Port	: 1.6 m
9	Shape of the Stack	: Circular Ø
10	Working Load	: ----

FUEL CHARACTERISTIC REPORT

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

RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

Method

1	Flue Gas Temperature	57°C	IS 11255 : Part 3
2	Barometric Pressure	754 mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	6.51 m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	42229 NM ³ / hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	23.18 mg/NM ³	IS 11255 : Part 1
6	Concentration of Carbon Dioxide	----	IS 13270
7	Concentration of SO ₂	----	IS 11255 : Part 2
8	Concentration of NO _x	----	IS 11255 : Part 7

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ULR NO - TC510923000001711F

TEST REPORT

Report Release Date	: 26.12.2023	Sample Ref. No.(ARF)	: EC/ARF/29/2312106
Test Report No	: EC/TR/42/12366	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 21.12.2023
Sample Collected by	: Mr. Sisir Kr. Roy & Team	Period of Analysis	: 22.12.2023
Sample Details	: Stack Emission	Sampling Location	: Furnace Stack
Name & Address	: SAIL - IISCO Steel Plant	Sample Condition	: Sealed & Preserved
	P.O. - Burnpur	Sample Stamped as	: TH - 182
	Dist - Paschim Bardhaman	Sample Drawn By	: ECO CARE
	West Bengal	Sampling Plan & Procedure	: EC/SOP/03/01
		Remarks	: ---
		Deviation if any	: None

GENERAL INFORMATION

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

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 EMISSION ANALYSIS

		Method
1	Flue Gas Temperature	340°C
2	Barometric Pressure	754 mm Hg
3	Velocity of Flue Gas	14.11 m/sec
4	Flue Gas Quantity	175679 NM ³ /hr
5	Concentration of Particulate Matter	19.59 mg/NM ³
6	Concentration of Carbon Dioxide	---
7	Concentration of SO ₂	---
8	Concentration of NO _x	---
		IS 11255 : Part 3
		IS 11255 : Part 3
		IS 11255 : Part 3
		IS 11255 : Part 3
		IS 11255 : Part 1
		IS 13270
		IS 11255 : Part 2
		IS 11255 : Part 7

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Mousumi Pal

Authorised Signatory

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Manoj Talkies Basement, Kumarpur
Asansol - 713304
Dist. Paschim Bardhaman (W.B.)

ULR NO – TC510923000001712F

TEST REPORT

Report Release Date	: 26.12.2023	Sample Ref. No.(ARF)	: EC/ARF/29/2312106
Test Report No	: EC/TR/42/12367	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 21.12.2023
Sample Collected by	: Mr. Sisir Kr. Roy & Team	Period of Analysis	: 22.12.2023
Sample Details	: Stack Emission	Sampling Location	: Furnace Stack
Name & Address	: SAIL - IISCO Steel Plant	Sample Condition	: Sealed & Preserved
	P.O. – Burnpur	Sample Stamped as	: TH – 183
	Dist – Paschim Bardhaman	Sample Drawn By	: ECO CARE
	West Bengal	Sampling Plan & Procedure	: EC/SOP/03/01
		Remarks	: ----
		Deviation if any	: None

GENERAL INFORMATION

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.	: ----
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	: 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)	: ----

RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

		Method
1	Flue Gas Temperature	240°C
2	Barometric Pressure	754 mm Hg
3	Velocity of Flue Gas	12.74 m/sec
4	Flue Gas Quantity	189594 NM ³ / hr
5	Concentration of Particulate Matter	15.64 mg/NM ³
6	Concentration of Carbon Dioxide	----
7	Concentration of SO ₂	----
8	Concentration of NO _x	----
		IS 11255 : Part 3
		IS 11255 : Part 3
		IS 11255 : Part 3
		IS 11255 : Part 3
		IS 11255 : Part 1
		IS 13270
		IS 11255 : Part 2
		IS 11255 : Part 7

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ULR NO - TC510923000001713F

TEST REPORT

Report Release Date	: 26.12.2023	Sample Ref. No.(ARF)	: EC/ARF/29/2312106
Test Report No	: EC/TR/42/12368	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 12.12.2023
Sample Collected by	: Mr. Sisir Kr. Roy & Team	Period of Analysis	: 22.12.2023
Sample Details	: Stack Emission	Sampling Location	: Furnace Stack
Name & Address	: SAIL - IISCO Steel Plant	Sample Condition	: Sealed & Preserved
	P.O. - Burnpur	Sample Stamped as	: TH - 184
	Dist - Paschim Bardhaman	Sample Drawn By	: ECO CARE
	West Bengal	Sampling Plan &	
		Procedure	: EC/SOP/03/01
		Remarks	: ---
		Deviation if any	: None

GENERAL INFORMATION

1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Burning of Mixed Gas
3	Stack Connected to	: Re-Heating 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 M ³ /hr
3	Calorific Value (K-Cal/Kg)	: ---

RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

		Method
1	Flue Gas Temperature	172 ⁰ C
2	Barometric Pressure	754 mm Hg
3	Velocity of Flue Gas	14.05 m/sec
4	Flue Gas Quantity	241120 NM ³ / hr
5	Concentration of Particulate Matter	10.54 mg/NM ³
6	Concentration of Carbon Dioxide	---
7	Concentration of SO ₂	---
8	Concentration of NO _x	---
		IS 11255 : Part 3
		IS 11255 : Part 3
		IS 11255 : Part 3
		IS 11255 : Part 3
		IS 11255 : Part 1
		IS 13270
		IS 11255 : Part 2
		IS 11255 : Part 7

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URL NO - TC510923000001714F

TEST REPORT

Report Release Date	: 26.12.2023	Sample Ref. No.(ARF)	: EC/ARF/29/2312106
Test Report No	: EC/TR/42/12369	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 21.12.2023
Sample Collected by	: Mr. Sisir Kr. Roy & Team	Period of Analysis	: 22.12.2023
Sample Details	: Stack Emission	Sampling Location	: Bag Filter Stack
Name & Address	: SAIL - IISCO Steel Plant	Sample Condition	: Sealed & Preserved
	P.O. - Burnpur	Sample Stamped as	: TH - 185
	Dist- Paschim Bardhaman	Sample Drawn By	: ECO CARE
	West Bengal	Sampling Plan & Procedure	: EC/SOP/03/01
		Remarks	: ----
		Deviation if any	: None

GENERAL INFORMATION

1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Process Activity
3	Stack Connected to	: Bag Filter at CDCP Outlet
4	Material of Construction	: M.S
5	Stack Height from G.L.	: 50.0 m
6	Height of Sampling Port from G.L.	: 20.0 m
7	Height of Sampling Port from L.D.Z.	: ----
8	Dimension of Duct at Sampling Port	: 1.6 m
9	Shape of the Duct	: Circular Ø
10	Working Load	: ----

FUEL CHARACTERISTIC REPORT

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

RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

Method

1	Flue Gas Temperature	65°C	IS 11255 : Part 3
2	Barometric Pressure	754 mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	12.25 m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	77657 NM ³ /hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	27.42 mg/NM ³	IS 11255 : Part 1
6	Concentration of Carbon Dioxide	----	IS 13270
7	Concentration of SO ₂	----	IS 11255 : Part 2
8	Concentration of NO _x	----	IS 11255 : Part 7

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ULR NO - TC510923000001715F

TEST REPORT

Report Release Date	: 26.12.2023	Sample Ref. No.(ARF)	: EC/ARF/29/2312106
Test Report No	: EC/TR/42/12370	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 21.12.2023
Sample Collected by	: Mr. Sisir Kr. Roy & Team	Period of Analysis	: 22.12.2023
Sample Details	: Stack Emission	Sampling Location	: Coke Oven Stack
Name & Address	: SAIL - IISCO Steel Plant	Sample Condition	: Sealed & Preserved
	P.O. - Burnpur	Sample Stamped as	: TH - 186
	Dist - Paschim Bardhaman	Sample Drawn By	: ECO CARE
	West Bengal	Sampling Plan & Procedure	: EC/SOP/03/01
		Remarks	: ---
		Deviation if any	: None

GENERAL INFORMATION

1 Particular of the Plant	: Integrated Steel Plant
2 Emission Due to	: Process Activity
3 Stack Connected to	: Coke Oven Battery No. # 11 (PEC)
4 Material of Construction	: M.S
5 Stack Height from G.L.	: 30.00 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	: 2.1 m
9 Shape of the Stack	: Circular Ø
10 Working Load	: ---

FUEL CHARACTERISTIC REPORT

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

RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

		Method
1 Flue Gas Temperature	57°C	IS 11255 : Part 3
2 Barometric Pressure	754 mm Hg	IS 11255 : Part 3
3 Velocity of Flue Gas	4.94 m/sec	IS 11255 : Part 3
4 Flue Gas Quantity	55248 NM ³ / hr	IS 11255 : Part 3
5 Concentration of Particulate Matter	10.15 mg/NM ³	IS 11255 : Part 1
6 Concentration of Carbon Dioxide	---	IS 13270
7 Concentration of SO ₂	---	IS 11255 : Part 2
8 Concentration of NO _x	---	IS 11255 : Part 7

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ULR NO – TC510924000000200F

TEST REPORT

Report Release Date	: 17.02.2024	Sample Ref. No.(ARF)	: EC/ARF/29/240209
Test Report No	: EC/TR/42/02022	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 09.02.2024
Sample Collected by	: Mr. Sisir Kr. Roy & Team	Period of Analysis	: 10.02.2024
Sample Details	: Stack Emission	Sampling Location	: ESP Stack
Name & Address	: SAIL - IISCO Steel Plant	Sample Condition	: Sealed & Preserved
	P.O. – Burnpur	Sample Stamped as	: TH – 84
	Dist – Paschim Bardhaman	Sample Drawn By	: ECO CARE
	West Bengal	Sampling Plan & Procedure	: EC/SOP/03/01
		Remarks	: ---
		Deviation if any	: None

GENERAL INFORMATION

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	: ---

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 EMISSION ANALYSIS

		Method
1	Flue Gas Temperature	156 °C
2	Barometric Pressure	755 mm Hg
3	Velocity of Flue Gas	13.47 m/sec
4	Flue Gas Quantity	849284 NM ³ / hr
5	Concentration of Particulate Matter	16.51 mg/NM ³
6	Concentration of Carbon Dioxide	---
7	Concentration of SO ₂	127.19 mg/NM ³
8	Concentration of NO _x	67.77 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
		IS 11255 : Part 2
		IS 11255 : Part 7

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ULR NO – TC510924000000201F

TEST REPORT

Report Release Date	: 17.02.2024	Sample Ref. No.(ARF)	: EC/ARF/29/240209
Test Report No	: EC/TR/42/02023	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 09.02.2024
Sample Collected by	: Mr. Sisir Kr. Roy & Team	Period of Analysis	: 10.02.2024
Sample Details	: Stack Emission	Sampling Location	: ESP Stack
Name & Address	: SAIL - IISCO Steel Plant	Sample Condition	: Sealed & Preserved
	P.O. – Burnpur	Sample Stamped as	: TH – 85
	Dist – Paschim Bardhaman	Sample Drawn By	: ECO CARE
	West Bengal	Sampling Plan &	
		Procedure	: EC/SOP/03/01
		Remarks	: ----
		Deviation if any	: None

GENERAL INFORMATION

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	: ----

FUEL CHARACTERISTIC REPORT

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

RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

		Method
1	Flue Gas Temperature	69 °C
2	Barometric Pressure	755 mm Hg
3	Velocity of Flue Gas	13.71 m/sec
4	Flue Gas Quantity	497871 NM ³ /hr
5	Concentration of Particulate Matter	42.43 mg/NM ³
		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 - TC510924000000202F

TEST REPORT

Report Release Date	: 17.02.2024	Sample Ref. No.(ARF)	: EC/ARF/29/240209
Test Report No	: EC/TR/42/02024	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 09.02.2024
Sample Collected by	: Mr. Sisir Kr. Roy & Team	Period of Analysis	: 10.02.2024
Sample Details	: Stack Emission	Sampling Location	: ESP Stack
Name & Address	: SAIL - IISCO Steel Plant	Sample Condition	: Sealed & Preserved
	P.O. - Burnpur	Sample Stamped as	: TH - 86
	Dist - Paschim Bardhaman	Sample Drawn By	: ECO CARE
	West Bengal	Sampling Plan & Procedure	: EC/SOP/03/01
		Remarks	: ----
		Deviation if any	: None

GENERAL INFORMATION

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	: ----

FUEL CHARACTERISTIC REPORT

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

RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

		Method
1	Flue Gas Temperature	72 °C
2	Barometric Pressure	755 mm Hg
3	Velocity of Flue Gas	13.87 m/sec
4	Flue Gas Quantity	499377 NM ³ / hr
5	Concentration of Particulate Matter	37.44 mg/NM ³
		IS 11255 : Part 3
		IS 11255 : Part 3
		IS 11255 : Part 3
		IS 11255 : Part 3
		IS 11255 : Part 1

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TEST REPORT

Report Release Date	: 17.02.2024	Sample Ref. No.(ARF)	: EC/ARF/29/240210
Test Report No	: EC/TR/42/02025	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 10.02.2024
Sample Collected by	: Mr. Sisir Kr. Roy & Team	Period of Analysis	: 12.02.2024
Sample Details	: Stack Emission	Sampling Location	: Coke Oven Stack
Name & Address	: SAIL - IISCO Steel Plant	Sample Condition	: Sealed & Preserved
	P.O. - Burnpur	Sample Stamped as	: TH - 87
	Dist - Paschim Bardhaman	Sample Drawn By	: ECO CARE
	West Bengal	Sampling Plan & Procedure	: EC/SOP/03/01
		Remarks	: ----
		Deviation if any	: None

GENERAL INFORMATION

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.	: 120.0 m
6	Height of Sampling Port from G.L.	: 36.0 m
7	Height of Sampling Port from L.D.Z.	: ----
8	Dimension of Stack at Sampling Port	: 5.8 m
9	Shape of the Stack	: Circular Ø
10	Working Load	: 2150 MT/hr

FUEL CHARACTERISTIC REPORT

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

RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

		Method
1	Flue Gas Temperature	152 °C
2	Barometric Pressure	745 mm Hg
3	Velocity of Flue Gas	8.42 m/sec
4	Flue Gas Quantity	555079 NM ³ / hr
5	Concentration of Particulate Matter	43.08 mg/NM ³
6	Concentration of Carbon Dioxide	----
7	Concentration of SO ₂	111.65 mg/NM ³
8	Concentration of NO _x	151.99 mg/NM ³

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ULR NO - TC510924000000204F

TEST REPORT

Report Release Date	: 17.02.2024	Sample Ref. No.(ARF)	: EC/ARF/29/240210
Test Report No	: EC/TR/42/02026	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 10.02.2024
Sample Collected by	: Mr. Sisir Kr. Roy & Team	Period of Analysis	: 12.02.2024
Sample Details	: Stack Emission	Sampling Location	: Coke Oven Stack
Name & Address	: SAIL - IISCO Steel Plant	Sample Condition	: Sealed & Preserved
	P.O. - Burnpur	Sample Stamped as	: TH - 88
	Dist - Paschim Bardhaman	Sample Drawn By	: ECO CARE
	West Bengal	Sampling Plan & Procedure	: EC/SOP/03/01
		Remarks	: ---
		Deviation if any	: None

GENERAL INFORMATION

1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Process Activity
3	Stack Connected to	: Coke Oven Battery No. # 11 (PEC)
4	Material of Construction	: M.S
5	Stack Height from G.L.	: 30.0 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	: 2.1 m
9	Shape of the Stack	: Circular Ø
10	Working Load	: ---


FUEL CHARACTERISTIC REPORT

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

RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

		Method
1	Flue Gas Temperature	59 °C
2	Barometric Pressure	755 mm Hg
3	Velocity of Flue Gas	4.79 m/sec
4	Flue Gas Quantity	53263 NM ³ / hr
5	Concentration of Particulate Matter	10.23mg/NM ³

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TEST REPORT

Report Release Date	: 17.02.2024	Sample Ref. No.(ARF)	: EC/ARF/29/240210
Test Report No	: EC/TR/42/02027	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 10.02.2024
Sample Collected by	: Mr. Sisir Kr. Roy & Team	Period of Analysis	: 12.02.2024
Sample Details	: Stack Emission	Sampling Location	: Bag Filter Stack
Name & Address	: SAIL - IISCO Steel Plant	Sample Condition	: Sealed & Preserved
	P.O. - Burnpur	Sample Stamped as	: TH - 89
	Dist - Paschim Bardhaman	Sample Drawn By	: ECO CARE
	West Bengal	Sampling Plan & Procedure	: EC/SOP/03/01
		Remarks	: ----
		Deviation if any	: None

GENERAL INFORMATION

1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Process Activity
3	Stack Connected to	: Bag Filter at CDCP Outlet
4	Material of Construction	: M.S
5	Stack Height from G.L.	: 50.0 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	: 1.60 m
9	Shape of the Stack	: Circular Ø
10	Working Load	: ----

FUEL CHARACTERISTIC REPORT

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

RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

		Method
1	Flue Gas Temperature	68 °C
2	Barometric Pressure	755 mm Hg
3	Velocity of Flue Gas	12.54 m/sec
4	Flue Gas Quantity	78850 NM ³ /hr
5	Concentration of Particulate Matter	46.58 mg/NM ³
		IS 11255 : Part 3
		IS 11255 : Part 3
		IS 11255 : Part 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 7 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

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

महाप्रबंधक (पर्यावरण प्रबंधन)

AGM (Environ. Mgmt.)

सेल-आई. एस. पी., बर्नपुर

SAIL-ISP, BURNPUR



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ISO 9001:2015 Certified, OHSA 45001:2018 Certified

Manoj Talkies Basement, Kumarpur

Asansol - 713304

Dist. Paschim Bardhaman (W.B.)

ULR NO – TC510924000000206F

TEST REPORT

Report Release Date	: 17.02.2024	Sample Ref. No.(ARF)	: EC/ARF/29/240210
Test Report No	: EC/TR/42/02028	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 10.02.2024
Sample Collected by	: Mr. Sisir Kr. Roy & Team	Period of Analysis	: 12.02.2024
Sample Details	: Stack Emission	Sampling Location	: Bag Filter Stack
Name & Address	: SAIL - IISCO Steel Plant	Sample Condition	: Sealed & Preserved
	P.O. – Burnpur	Sample Stamped as	: TH – 90
	Dist – Paschim Bardhaman	Sample Drawn By	: ECO CARE
	West Bengal	Sampling Plan & Procedure	: EC/SOP/03/01
		Remarks	: ----
		Deviation if any	: None

GENERAL INFORMATION

1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Process Activity
3	Stack Connected to	: Bag Filter at CDU
4	Material of Construction	: M.S
5	Stack Height from G.L.	: 40.0 m
6	Height of Sampling Port from G.L.	: 27.0 m
7	Height of Sampling Port from L.D.Z.	: ----
8	Dimension of Stack at Sampling Port	: 1.60 m
9	Shape of the Stack	: Circular Ø
10	Working Load	: ----

FUEL CHARACTERISTIC REPORT

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

RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

		Method
1	Flue Gas Temperature	51 °C
2	Barometric Pressure	755 mm Hg
3	Velocity of Flue Gas	7.13 m/sec
4	Flue Gas Quantity	47211 NM ³ /hr
5	Concentration of Particulate Matter	29.18 mg/NM ³
		IS 11255 : Part 3
		IS 11255 : Part 3
		IS 11255 : Part 3
		IS 11255 : Part 3
		IS 11255 : Part 1

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Authorised Signatory

Dr. Mousumi Pal
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महावक महामा
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Test Report

Test Report No.: ALPL/30102023/24-1

dated 30.10.2023

Page 1 of 1

Issued To : M/s IISCO Steel Plant -SAIL Environment Management Division, Burnpur-713325 (West Bengal).		Sample Inward No.	ALPL/27102023/EW-1/5-1	Analysis Start	27.10.2023
		Inward Date	27.10.2023	Analysis End	30.10.2023
		Reference	W.O. 3000000580	Sample Category	Waste Water
		Reference Date	21.05.2022		
Sample Name Waste Water	Sample Location 1 Damra Outlet				Quantity Received 1L
Sample Collection Details Sample Collection By Anacon Representative- Mohit Mandal and Sanjib Roy				Sampling Date 27.10.2023	
Tests Required : pH, Cyanide, Ammoniacal Nitrogen (as N), Phenolic compounds, Chemical oxygen demand, Biochemical oxygen demand, Total Suspended solids, Oil & grease					

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	pH	-	IS 3025 (Part 11) : 2022	7.23 at 34°C
2	Cyanide (as CN ⁻)	mg/l	IS 3025 (Part 27) : 1986	0.084
3	Ammoniacal Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	16.70
4	Phenolic compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 43) : 2022	0.16
5	Chemical oxygen demand	mg/l	IS 3025 (Part 58) :2006	108
6	Biochemical oxygen demand (at 27°C for 3 days)	mg/l	IS 3025 (Part 44) :1993	14.80
7	Total Suspended solids (TSS)	mg/l	IS 3025 (Part 17) : 2022	18.0
8	Oil & grease	mg/l	IS 3025 (Part 39) :2021	< 1.0

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. • Test report shall not be reproduced except in full without prior written approval of Anacon Labs. • Liability of Anacon Labs is limited to invoiced amount only. • 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'.

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

Verified By

Snehal Raut
Deputy Technical Manager

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

-----END OF REPORT-----

महाप्रबंधक (पर्यावरण प्रबंधन)
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सेल-आई. एस. पी., बर्नपुर
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Test Report

Test Report No.: ALPL/30102023/24-2

dated 30.10.2023

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Issued To : M/s IISCO Steel Plant -SAIL Environment Management Division, Burnpur-713325 (West Bengal),	Sample Inward No. ALPL/27102023/EW-1/5-2	Analysis Start 27.10.2023
	Inward Date 27.10.2023	Analysis End 30.10.2023
	Reference W.O. 3000000580	
	Reference Date 21.05.2022	Sample Category Waste Water
Sample Name Waste Water	Sample Location 2 Dihika Outlet	Quantity Received 1L
Sample Collection Details Sample Collection By Anacon Representative- Mohit Mandal and Sanjib Roy		Sampling Date 18.05.2023
Tests Required : pH, Cyanide, Ammoniacal Nitrogen (as N), Phenolic compounds, Chemical oxygen demand, Biochemical oxygen demand, Total Suspended solids, Oil & grease		

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	pH	-	IS 3025 (Part 11) : 2022	7.85 at 34°C
2	Cyanide (as CN ⁻)	mg/l	IS 3025 (Part 27) : 1986	0.072
3	Ammoniacal Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	23.40
4	Phenolic compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 43) : 2022	0.19
5	Chemical oxygen demand	mg/l	IS 3025 (Part 58) :2006	116
6	Biochemical oxygen demand (at 27°C for 3 days)	mg/l	IS 3025 (Part 44) :1993	16.00
7	Total Suspended solids (TSS)	mg/l	IS 3025 (Part 17) : 2022	23.0
8	Oil & grease	mg/l	IS 3025 (Part 39) : 2021	<1.0

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

Verified By

Snehal Raut
 Snehal Raut
 Deputy Technical Manager

Authorized Signatory

Chinmay Garway
 Chinmay Garway
 Deputy Quality Manager

-----END OF REPORT-----

महानगर महाराष्ट्र (पर्यावरण प्रबंधन)
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Test Report

Test Report No.: ALPL/30102023/24-3

dated 30.10.2023

Page 1 of 1

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Issued To : M/s IISCO Steel Plant -SAIL Environment Management Division, Burnpur-713325 (West Bengal).	Sample Inward No.	ALPL/27102023/EW-1/5-3	Analysis Start	27.10.2023
	Inward Date	27.10.2023	Analysis End	30.10.2023
	Reference	W.O. 3000000580	Sample Category	Waste Water
	Reference Date	21.05.2022		
Sample Name Waste Water	Sample Location 3 Reservoir			Quantity Received 1L
Sample Collection Details Sample Collection By Anacon Representative- Mohit Mandal and Sanjib Roy			Sampling Date 18.05.2023	
Tests Required : pH, Cyanide, Ammoniacal Nitrogen (as N), Phenolic compounds, Chemical oxygen demand, Biochemical oxygen demand, Total Suspended solids, Oil & grease				

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	pH	-	IS 3025 (Part 11) : 2022	8.09 at 34°C
2	Cyanide (as CN ⁻)	mg/l	IS 3025 (Part 27) : 1986	0.106
3	Ammoniacal Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	39.80
4	Phenolic compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 43) : 2022	0.28
5	Chemical oxygen demand	mg/l	IS 3025 (Part 58) : 2006	136
6	Biochemical oxygen demand (at 27°C for 3 days)	mg/l	IS 3025 (Part 44) : 1993	18.80
7	Total Suspended solids (TSS)	mg/l	IS 3025 (Part 17) : 2022	32.0
8	Oil & grease	mg/l	IS 3025 (Part 39) : 2021	1.40

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

Verified By

Snchal Raut
 Deputy Technical Manager

Authorized Signatory

Chinmay Garway
 Deputy Quality Manager

-----END OF REPORT-----

महायक महाप्रबंधक (पर्यावरण प्रबंधन)

AGM (Environ. Mgmt.)

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Test Report

Test Report No.: ALPL/30102023/24-4

dated 30.10.2023

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Issued To : M/s IISCO Steel Plant -SAIL Environment Management Division, Bumpur-713325 (West Bengal).	Sample Inward No. ALPL/27102023/EW-1/5-4	Analysis Start 27.10.2023
	Inward Date 27.10.2023	Analysis End 30.10.2023
	Reference W.O. 3000000580	Sample Category Waste Water
	Reference Date 21.05.2022	
Sample Name Waste Water	Sample Location 4 BOD 10 Outlet	
Sample Collection Details Sample Collection By Anacon Representative- Mohit Mandal and Sanjib Roy		Quantity Received 1L
Tests Required : pH, Cyanide, Ammoniacal Nitrogen (as N), Phenolic compounds, Chemical oxygen demand, Biochemical oxygen demand, Total Suspended solids, Oil & grease		Sampling Date 18.05.2023

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	pH	-	IS 3025 (Part 11) : 2022	8.27 at 34°C
2	Cyanide (as CN ⁻)	mg/l	IS 3025 (Part 27) : 1986	0.157
3	Ammoniacal Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	43.90
4	Phenolic compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 43) : 2022	0.38
5	Chemical oxygen demand	mg/l	IS 3025 (Part 58) :2006	192
6	Biochemical oxygen demand (at 27°C for 3 days)	mg/l	IS 3025 (Part 44) :1993	26.50
7	Total Suspended solids (TSS)	mg/l	IS 3025 (Part 17) : 2022	24.0
8	Oil & grease	mg/l	IS 3025 (Part 39) : 2021	1.60

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

Verified By

Snehal Raut
 Snehal Raut
 Deputy Technical Manager

Authorized Signatory

Chinmay Garway
 Chinmay Garway
 Deputy Quality Manager

-----END OF REPORT-----

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Test Report

Test Report No.: ALPL/30102023/24-5

dated 30.10.2023

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Issued To : M/s IISCO Steel Plant -SAIL Environment Management Division, Burnpur-713325 (West Bengal).		Sample Inward No. ALPL/27102023/EW-1/5-5 Inward Date 27.10.2023 Reference W.O. 3000000580 Reference Date 21.05.2022	Analysis Start 27.10.2023 Analysis End 30.10.2023 Sample Category Waste Water
Sample Name Waste Water	Sample Location 5 BOD 11 Outlet		Quantity Received 1L
Sample Collection Details Sample Collection By Anacon Representative- Mohit Mandal and Sanjib Roy			Sampling Date 18.05.2023
Tests Required : pH, Cyanide, Ammoniacal Nitrogen (as N), Phenolic compounds, Chemical oxygen demand, Biochemical oxygen demand, Total Suspended solids, Oil & grease			

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	pH	-		
2	Cyanide (as CN ⁻)	mg/l	IS 3025 (Part 11) : 2022	8.36 at 34°C
3	Ammoniacal Nitrogen (as N)	mg/l	IS 3025 (Part 27) : 1986	0.166
4	Phenolic compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 34) : 1988	45.60
5	Chemical oxygen demand	mg/l	IS 3025 (Part 43) : 2022	0.64
6	Biochemical oxygen demand (at 27°C for 3 days)	mg/l	IS 3025 (Part 58) :2006	200
7	Total Suspended solids (TSS)	mg/l	IS 3025 (Part 44) :1993	27.50
8	Oil & grease	mg/l	IS 3025 (Part 17) : 2022	31.0
			IS 3025 (Part 39) : 2021	1.80

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 • '<' indicates detection limit of instrument/method and shall be considered as 'absent'.

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

Verified By

[Signature]
 Snehal Raut
 Deputy Technical Manager

Authorized Signatory

[Signature]
 Chinmay Garway
 Deputy Quality Manager

-----END OF REPORT-----

[Signature]
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Test Report

Test Report No.: ALPL/05122023/06-2

dated 05.12.2023

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Issued To : M/s IISCO Steel Plant -SAIL Environment Management Division, Burnpur-713325 (West Bengal).	Sample Inward No.	ALPL/28112023/EW-3/5-2	Analysis Start	28.11.2023
	Inward Date	28.11.2023	Analysis End	04.12.2023
	Reference	W.O. 3000000580	Sample Category	Waste Water
	Reference Date	21.05.2022		
Sample Name Waste Water	Sample Location 2 Dihika Outlet			Quantity Received 1L
Sample Collection Details Joint sampling of PCB and Environment department.			Sampling Date 28.11.2023	
Tests Required : pH, Cyanide, Ammoniacal Nitrogen (as N), Phenolic compounds, Chemical oxygen demand, Biochemical oxygen demand, Total Suspended solids, Oil & grease				

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	pH	-	IS 3025 (Part 11) : 2022	7.72 at 28°C
2	Cyanide (as CN ⁻)	mg/l	IS 3025 (Part 27) : 1986	0.023
3	Ammoniacal Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	3.90
4	Phenolic compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 43) : 2022	<0.1
5	Chemical oxygen demand	mg/l	IS 3025 (Part 58) :2006	36
6	Biochemical oxygen demand (at 27°C for 3 days)	mg/l	IS 3025 (Part 44) :1993	5.0
7	Total Suspended solids (TSS)	mg/l	IS 3025 (Part 17) : 2022	8.0
8	Oil & grease	mg/l	IS 3025 (Part 39) : 2021	<1.0

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

Verified By

Snehal Raut
Deputy Technical Manager

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

-----END OF REPORT-----

महायक महाप्रबंधक (पर्यावरण प्रबंधन)
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Test Report

Test Report No.: ALPL/05122023/06-3

dated 05.12.2023

Page 1 of 1

Issued To : M/s IISCO Steel Plant -SAIL Environment Management Division, Burnpur-713325 (West Bengal).	Sample Inward No.	ALPL/28112023/EW-3/5-3	Analysis Start	28.11.2023
	Inward Date	28.11.2023	Analysis End	04.12.2023
	Reference	W.O. 3000000580	Sample Category	Waste Water
	Reference Date	21.05.2022		
Sample Name Waste Water	Sample Location 3 Reservoir			Quantity Received 1L
Sample Collection Details Joint sampling of PCB and Environment department.			Sampling Date 28.11.2023	
Tests Required : pH, Cyanide, Ammoniacal Nitrogen (as N), Phenolic compounds, Chemical oxygen demand, Biochemical oxygen demand, Total Suspended solids, Oil & grease				

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	pH	-	IS 3025 (Part 11) : 2022	7.73 at 28°C
2	Cyanide (as CN ⁻)	mg/l	IS 3025 (Part 27) : 1986	0.027
3	Ammoniacal Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	3.50
4	Phenolic compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 43) : 2022	<0.1
5	Chemical oxygen demand	mg/l	IS 3025 (Part 58) :2006	32
6	Biochemical oxygen demand (at 27°C for 3 days)	mg/l	IS 3025 (Part 44) :1993	4.0
7	Total Suspended solids (TSS)	mg/l	IS 3025 (Part 17) : 2022	9.0
8	Oil & grease	mg/l	IS 3025 (Part 39) : 2021	<1.0

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

Verified By

Snehal Raut
 Snehal Raut
 Deputy Technical Manager

Authorized Signatory

Chinmay Garway
 Chinmay Garway
 Deputy Quality Manager

-----END OF REPORT-----

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Test Report

Test Report No: ALPL/05122023/06 -4

dated 05.12.2023

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Issued To : M/s IISCO Steel Plant -SAIL Environment Management Division, Burnpur-713325 (West Bengal).	Sample Inward No. ALPL/28112023/EW-3/5-4	Analysis Start 28.11.2023
	Inward Date 28.11.2023	Analysis End 04.12.2023
	Reference W.O. 3000000580	Sample Category Waste Water
	Reference Date 21.05.2022	
Sample Name Waste Water	Sample Location 4 BOD 10 Outlet	Quantity Received 1L
Sample Collection Details Joint sampling of PCB and Environment department.		Sampling Date 28.11.2023
Tests Required : pH, Cyanide, Ammoniacal Nitrogen (as N), Phenolic compounds, Chemical oxygen demand, Biochemical oxygen demand, Total Suspended solids, Oil & grease		

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	pH	-		
2	Cyanide (as CN ⁻)	mg/l	IS 3025 (Part 11) : 2022	7.84 at 28°C
3	Ammoniacal Nitrogen (as N)	mg/l	IS 3025 (Part 27) : 1986	0.011
4	Phenolic compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 34) : 1988	3.6
5	Chemical oxygen demand	mg/l	IS 3025 (Part 43) : 2022	<0.1
6	Biochemical oxygen demand (at 27°C for 3 days)	mg/l	IS 3025 (Part 58) :2006	60
7	Total Suspended solids (TSS)	mg/l	IS 3025 (Part 44) :1993	10.0
8	Oil & grease	mg/l	IS 3025 (Part 17) : 2022	23.0
			IS 3025 (Part 39) : 2021	<1.0

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

Verified By

 Snehal Raut
 Deputy Technical Manager

Authorized Signatory

 Chinmay Garway
 Deputy Quality Manager

-----END OF REPORT-----

महायक महाप्रबंधक (पर्यावरण प्रबंधन)
 AGM (Environ. Mgmt.)
 सेल-आई. एस. पी., बर्नपुर
 SAIL ISP, BURNPUR



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Test Report

Test Report No: ALPL/05122023/05 -5

dated 05.12.2023

Page 1 of 1

Report No. ALPL/28112023/EW-3		dated 05.12.2023		Page 1 of 1	
Issued To : M/s IISCO Steel Plant -SAIL Environment Management Division, Burnpur-713325 (West Bengal).		Sample Inward No.	ALPL/28112023/EW-3/5-5	Analysis Start	28.11.2023
		Inward Date	28.11.2023	Analysis End	04.12.2023
		Reference	W.O. 3000000580	Sample Category	Waste Water
		Reference Date	21.05.2022		
Sample Name Waste Water	Sample Location 5 BOD II Outlet			Quantity Received 1L	
Sample Collection Details Joint sampling of PCB and Environment department.			Sampling Date 28.11.2023		
Tests Required : pH, Cyanide, Ammoniacal Nitrogen (as N), Phenolic compounds, Chemical oxygen demand, Biochemical oxygen demand, Total Suspended solids, Oil & grease					

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	pH	-		
2	Cyanide (as CN ⁻)	mg/l	IS 3025 (Part 11) : 2022	7.65at 28°C
3	Ammoniacal Nitrogen (as N)	mg/l	IS 3025 (Part 27) : 1986	0.035
4	Phenolic compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 34) : 1988	8.70
5	Chemical oxygen demand	mg/l	IS 3025 (Part 43) : 2022	<0.1
6	Biochemical oxygen demand (at 27°C for 3 days)	mg/l	IS 3025 (Part 58) :2006	72
7	Total Suspended solids (TSS)	mg/l	IS 3025 (Part 44) :1993	12.0
8	Oil & grease	mg/l	IS 3025 (Part 17) : 2022	31.0
			IS 3025 (Part 39) : 2021	<1.0

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 • '<' indicates detection limit of instrument/method and shall be considered as 'absent'.

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

Verified By

Snehal Raut
 Deputy Technical Manager

Authorized Signatory

Chinmay Garway
 Deputy Quality Manager

-----END OF REPORT-----

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अनाकॉन लैबोराटरीज (प्रा. लि.)
 ए.जी.एम. (पर्यावरण. प्रबन्धन.)
 एम.डी.ए. ई.पी. - बर्नपुर
 SAIL-ISP, BURNPUR





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Test Report

Test Report No.: ALPL/26122023/05-1

dated 26.12.2023

Page 1 of 1

Issued To : M/s IISCO Steel Plant -SAIL Environment Management Division, Burnpur-713325 (West Bengal).	Sample Inward No. ALPL/21122023/EW-7/5-1	Analysis Start 21.12.2023
	Inward Date 21.12.2023	Analysis End 25.12.2023
	Reference W.O. 3000000580	Sample Category Waste Water
	Reference Date 21.05.2022	
Sample Name Waste Water	Sample Location 1 Damra Outlet	Quantity Received IL
Sample Collection Details Sample Collection By Anacon Representative- Mohit Mandal and Sanjib Roy		Sampling Date 21.12.2023
Tests Required : pH, Cyanide, Ammoniacal Nitrogen (as N), Phenolic compounds, Chemical oxygen demand, Biochemical oxygen demand, Total Suspended solids, Oil & grease		

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	pH	-	IS 3025 (Part 11) : 2022	7.68 at 26°C
2	Cyanide (as CN ⁻)	mg/l	IS 3025 (Part 27) : 1986	0.085
3	Ammoniacal Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	17.00
4	Phenolic compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 43) : 2022	0.18
5	Chemical oxygen demand	mg/l	IS 3025 (Part 58) :2006	96
6	Biochemical oxygen demand (at 27°C for 3 days)	mg/l	IS 3025 (Part 44) :1993	13.40
7	Total Suspended solids (TSS)	mg/l	IS 3025 (Part 17) : 2022	20.0
8	Oil & grease	mg/l	IS 3025 (Part 39) :2021	< 1.0

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

Verified By

Snehal Raut

Snehal Raut
Deputy Technical Manager

Authorized Signatory

Chinmay Garway

Chinmay Garway
Deputy Quality Manager

-----END OF REPORT-----

महायक महाप्रबधक (पर्यावरण प्रबधन)
 AGM (Environ. Mgmt.)
 सेल-आई. एस. पी., बर्नपुर
 SAIL-ISP, BURNPUR



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Test Report

Test Report No.: ALPL/26122023/05-2

dated 26.12.2023

Page 1 of 1

Issued To : M/s IISCO Steel Plant -SAIL Environment Management Division, Burnpur-713325 (West Bengal).		Sample Inward No.	ALPL/21122023/EW-7/5-2	Analysis Start	21.12.2023
		Inward Date	21.12.2023	Analysis End	25.12.2023
		Reference	W.O. 3000000580	Sample Category	Waste Water
		Reference Date	21.05.2022		
Sample Name Waste Water	Sample Location 2 Dihika Outlet				Quantity Received 1L
Sample Collection Details Sample Collection By Anacon Representative- Mohit Mandal and Sanjib Roy				Sampling Date 21.12.2023	
Tests Required : pH, Cyanide, Ammoniacal Nitrogen (as N), Phenolic compounds, Chemical oxygen demand, Biochemical oxygen demand, Total Suspended solids, Oil & grease					

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	pH	-	IS 3025 (Part 11) : 2022	7.96 at 26°C
2	Cyanide (as CN ⁻)	mg/l	IS 3025 (Part 27) : 1986	0.123
3	Ammoniacal Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	24.00
4	Phenolic compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 43) : 2022	0.26
5	Chemical oxygen demand	mg/l	IS 3025 (Part 58) :2006	120
6	Biochemical oxygen demand (at 27°C for 3 days)	mg/l	IS 3025 (Part 44) :1993	16.70
7	Total Suspended solids (TSS)	mg/l	IS 3025 (Part 17) : 2022	31.0
8	Oil & grease	mg/l	IS 3025 (Part 39) : 2021	<1.0

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

Verified By

Snehal Raut
 Deputy Technical Manager

Authorized Signatory

Chinmay Garway
 Deputy Quality Manager

-----END OF REPORT-----

AGM (Environ. Mgmt.)
 SAIL-ISP, BURNPUR



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Test Report

Test Report No.: ALPL/26122023/05-3

dated 26.12.2023

Page 1 of 1

Issued To : M/s IISCO Steel Plant -SAIL Environment Management Division, Burnpur-713325 (West Bengal).	Sample Inward No.	ALPL/21122023/EW-7/5-3	Analysis Start	27.10.2023
	Inward Date	27.10.2023	Analysis End	30.10.2023
	Reference	W.O. 3000000580	Sample Category	Waste Water
	Reference Date	21.05.2022		
Sample Name Waste Water	Sample Location 3 Reservoir			Quantity Received 1L
Sample Collection Details Sample Collection By Anacon Representative- Mohit Mandal and Sanjib Roy			Sampling Date 21.12.2023	
Tests Required : pH, Cyanide, Ammoniacal Nitrogen (as N), Phenolic compounds, Chemical oxygen demand, Biochemical oxygen demand, Total Suspended solids, Oil & grease				

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	pH	-	IS 3025 (Part 11) : 2022	8.22 at 26°C
2	Cyanide (as CN ⁻)	mg/l	IS 3025 (Part 27) : 1986	0.143
3	Ammoniacal Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	41.00
4	Phenolic compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 43) : 2022	0.40
5	Chemical oxygen demand	mg/l	IS 3025 (Part 58) :2006	144
6	Biochemical oxygen demand (at 27°C for 3 days)	mg/l	IS 3025 (Part 44) :1993	20.0
7	Total Suspended solids (TSS)	mg/l	IS 3025 (Part 17) : 2022	42.0
8	Oil & grease	mg/l	IS 3025 (Part 39) : 2021	1.60

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

Verified By

Snehal Raut

Snehal Raut

Deputy Technical Manager

Authorized Signatory

Chinmay Garway

Chinmay Garway

Deputy Quality Manager

-----END OF REPORT-----

Handwritten signature

महायक महाप्रबंधक (पयावरण प्रबंधन)

AGM (Environ. Mgmt.)

सेल-आई. एस. पी., बर्नपुर

SAIL-ISP, BURNPUR



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Test Report

Test Report No.: ALPL/26122023/05-4

dated 26.12.2023

Page 1 of 1

Issued To : M/s IISCO Steel Plant -SAIL Environment Management Division, Burnpur-713325 (West Bengal).	Sample Inward No.	ALPL/21122023/EW-7/5-4	Analysis Start	21.12.2023
	Inward Date	21.12.2023	Analysis End	25.12.2023
	Reference	W.O. 3000000580	Sample Category	Waste Water
	Reference Date	21.05.2022		
Sample Name Waste Water	Sample Location 4 BOD 10 Outlet			Quantity Received 1L
Sample Collection Details Sample Collection By Anacon Representative- Mohit Mandal and Sanjib Roy				Sampling Date 21.12.2023
Tests Required : pH, Cyanide, Ammoniacal Nitrogen (as N), Phenolic compounds, Chemical oxygen demand, Biochemical oxygen demand, Total Suspended solids, Oil & grease				

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	pH	-	IS 3025 (Part 11) : 2022	8.39 at 26°C
2	Cyanide (as CN ⁻)	mg/l	IS 3025 (Part 27) : 1986	0.095
3	Ammoniacal Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	37.60
4	Phenolic compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 43) : 2022	0.28
5	Chemical oxygen demand	mg/l	IS 3025 (Part 58) :2006	176
6	Biochemical oxygen demand (at 27°C for 3 days)	mg/l	IS 3025 (Part 44) :1993	24.50
7	Total Suspended solids (TSS)	mg/l	IS 3025 (Part 17) : 2022	27.0
8	Oil & grease	mg/l	IS 3025 (Part 39) : 2021	1.40

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

Verified By

Snehal Raut
Deputy Technical Manager

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

-----END OF REPORT-----

हस्ताक्षरित (प्रमाणित) है
AGM (Environ. Mgmt.)
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Test Report

Test Report No.: ALPL/26122023/05-5

dated 26.12.2023

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Issued To : M/s IISCO Steel Plant -SAIL Environment Management Division, Burnpur-713325 (West Bengal).	Sample Inward No. ALPL/21122023/EW-7/5-5	Analysis Start 21.12.2023
	Inward Date 21.12.2023	Analysis End 25.12.2023
	Reference W.O. 3000000580	Sample Category Waste Water
	Reference Date 21.05.2022	
Sample Name Waste Water	Sample Location 5 BOD II Outlet	Quantity Received 1L
Sample Collection Details Sample Collection By Anacon Representative- Mohit Mandal and Sanjib Roy		Sampling Date 21.12.2023
Tests Required : pH, Cyanide, Ammoniacal Nitrogen (as N), Phenolic compounds, Chemical oxygen demand, Biochemical oxygen demand, Total Suspended solids, Oil & grease		

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	pH	-	IS 3025 (Part 11) : 2022	8.42 at 26°C
2	Cyanide (as CN ⁻)	mg/l	IS 3025 (Part 27) : 1986	0.115
3	Ammoniacal Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	40.00
4	Phenolic compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 43) : 2022	0.36
5	Chemical oxygen demand	mg/l	IS 3025 (Part 58) :2006	184
6	Biochemical oxygen demand (at 27°C for 3 days)	mg/l	IS 3025 (Part 44) :1993	25.50
7	Total Suspended solids (TSS)	mg/l	IS 3025 (Part 17) : 2022	34.0
8	Oil & grease	mg/l	IS 3025 (Part 39) : 2021	1.20

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

Verified By

Snehal Raut
 Deputy Technical Manager

Authorized Signatory

Chinmay Garway
 Deputy Quality Manager

-----END OF REPORT-----

महायक महाप्रबधक (पर्यावरण प्रबधन)
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Test Report

Test Report No.: ALPL/29012024/20-1

dated 29.01.2024

Page 1 of 1

Issued To : M/s IISCO Steel Plant -SAIL Environment Management Division, Burnpur-713325 (West Bengal).	Sample Inward No.	ALPL/23012024/EW-7/5-1	Analysis Start	23.01.2024
	Inward Date	23.01.2024	Analysis End	27.01.2024
	Reference	W.O. 3000000580	Sample Category	Waste Water
	Reference Date	21.05.2022		
Sample Name Waste Water	Sample Location 1 Damra Outlet			Quantity Received 1L
Sample Collected By Anacon representative- Mohit Mondal and Sanjib Roy			Sampling Date: 23.01.2024	
Tests Required : pH, Cyanide, Ammonical Nitrogen, Phenolic compounds, Chemical oxygen demand, Biochemical oxygen demand, Total Suspended solids, Oil & grease				

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	pH	-	IS 3025 (Part 11) : 2022	7.52 at 25°C
2	Cyanide (as CN ⁻)	mg/l	IS 3025 (Part 27) : 1986	0.077
3	Ammonical Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	14.60
4	Phenolic compounds (as C ₆ H ₅ OH)	g/l	IS 3025 (Part 43) : 1992	0.16
5	Chemical oxygen demand	mg/l	IS 3025 (Part 58) :2022	80
6	Biochemical oxygen demand (at 27°C for 3 days)	mg/l	IS 3025 (Part 44) :2023	11.20
7	Total Suspended solids (TSS)	mg/l	IS 3025 (Part 17) : 2022	24.0
8	Oil & grease	mg/l	IS 3025 (Part 39) :2021	< 1.0

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

Verified By

Snehal Raut
Deputy Technical Manager

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

—————END OF REPORT—————

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Test Report

Test Report No.: ALPL/29012024/20-2

dated 29.01.2024

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Issued To : M/s IISCO Steel Plant -SAIL Environment Management Division, Burnpur-713325 (West Bengal).	Sample Inward No.	ALPL/23012024/EW-7/5-2	Analysis Start	23.01.2024
	Inward Date	23.01.2024	Analysis End	27.01.2024
	Reference	W.O. 3000000580	Sample Category	Waste Water
	Reference Date	21.05.2022		
Sample Name Waste Water	Sample Location 2 Dihika Outlet			Quantity Received 1L
Sample Collected By Anacon representative- Mohit Mondal and Sanjib Roy			Sampling Date	23.01.2024
Tests Required : pH, Cyanide, Ammonical Nitrogen, Phenolic compounds, Chemical oxygen demand, Biochemical oxygen demand, Total Suspended solids, Oil & grease				

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	pH	-	IS 3025 (Part 11) : 2022	7.78 at 25°C
2	Cyanide (as CN ⁻)	mg/l	IS 3025 (Part 27) : 1986	0.096
3	Ammonical Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	19.00
4	Phenolic compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 43) : 1992	0.20
5	Chemical oxygen demand	mg/l	IS 3025 (Part 58) : 2022	100
6	Biochemical oxygen demand (at 27°C for 3 days)	mg/l	IS 3025 (Part 44) : 2023	14.00
7	Total Suspended solids (TSS)	mg/l	IS 3025 (Part 17) : 2022	35.0
8	Oil & grease	mg/l	IS 3025 (Part 39) : 2021	<1.0

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

Verified By

Snehal Raut
 Deputy Technical Manager

Authorized Signatory

Chinmay Garway
 Deputy Quality Manager

-----END OF REPORT-----

महायुक्त महाप्रबंधक (परावरण प्रबन्धन)
 AGM (Environ. Mgmt.)
 सेल-आई. एस. पी., बर्नपुर
 SAIL-ISP, BURNPUR



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Test Report

Test Report No.: ALPL/29012024/20-3

dated 29.01.2024

Page 1 of 1

Issued To : M/s IISCO Steel Plant -SAIL Environment Management Division, Burnpur-713325 (West Bengal).		Sample Inward No.	ALPL/23012024/EW-7/5-3	Analysis Start	23.01.2024
		Inward Date	23.01.2024	Analysis End	27.01.2024
		Reference	W.O. 3000000580	Sample Category	Waste Water
		Reference Date	21.05.2022		
Sample Name Waste Water	Sample Location 3 Reservoir			Quantity Received 1L	
Sample Collected By Anacon representative- Mohit Mondal and Sanjib Roy			Sampling Date 23.01.2024		
Tests Required : pH, Cyanide, Ammonical Nitrogen, Phenolic compounds, Chemical oxygen demand, Biochemical oxygen demand, Total Suspended solids, Oil & grease					

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	pH	-	IS 3025 (Part 11) : 2022	8.19 at 25°C
2	Cyanide (as CN ⁻)	mg/l	IS 3025 (Part 27) : 1986	0.135
3	Ammonical Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	35.30
4	Phenolic compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 43) : 1992	0.30
5	Chemical oxygen demand	mg/l	IS 3025 (Part 58) : 2022	136
6	Biochemical oxygen demand (at 27°C for 3 days)	mg/l	IS 3025 (Part 44) : 2023	18.90
7	Total Suspended solids (TSS)	mg/l	IS 3025 (Part 17) : 2022	45.0
8	Oil & grease	mg/l	IS 3025 (Part 39) : 2021	1.80

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

Verified By

Snchal Raut

Deputy Technical Manager

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

-----END OF REPORT-----

महानिरीक्षक (पर्यावरण प्रबंधन)
AGM (Environ. Mgmt.)
सेल-आई. एस. पी., बर्नपुर
SAIL-ISP, BURNPUR



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Test Report

Test Report No.: ALPL/29012024/20-4

dated 29.01.2024

Page 1 of 1

Issued To : M/s IISCO Steel Plant -SAIL Environment Management Division, Burnpur-713325 (West Bengal).	Sample Inward No.	ALPL/23012024/EW-7/5-1	Analysis Start	23.01.2024
	Inward Date	23.01.2024	Analysis End	27.01.2024
	Reference	W.O. 3000000580	Sample Category	Waste Water
	Reference Date	21.05.2022		
Sample Name Waste Water	Sample Location 4 BOD Plant 10 Outlet			Quantity Received 1L
Sample Collected By Anacon representative- Mohit Mondal and Sanjib Roy			Sampling Date 23.01.2024	
Tests Required : pH, Cyanide, Ammonical Nitrogen, Phenolic compounds, Chemical oxygen demand, Biochemical oxygen demand, Total Suspended solids, Oil & grease				

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	pH	-	IS 3025 (Part 11) : 2022	8.35 at 25°C
2	Cyanide (as CN ⁻)	mg/l	IS 3025 (Part 27) : 1986	0.066
3	Ammonical Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	39.40
4	Phenolic compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 43) : 1992	0.32
5	Chemical oxygen demand	mg/l	IS 3025 (Part 58) :2022	184
6	Biochemical oxygen demand (at 27°C for 3 days)	mg/l	IS 3025 (Part 44) :2023	25.00
7	Total Suspended solids (TSS)	mg/l	IS 3025 (Part 17) : 2022	33.0
8	Oil & grease	mg/l	IS 3025 (Part 39) :2021	1.80

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

Verified By

[Signature]

Shehal Raut

Deputy Technical Manager

Authorized Signatory

[Signature]

Chinmay Garway

Deputy Quality Manager

-----END OF REPORT-----

[Signature]
महायक महाप्रबन्धक (पर्यावरण प्रबंधन)
AGM (Environ. Mgmt.)
सेल-आई. एस. पी., बर्नपुर
SAIL ISP, BURNPUR



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Test Report

Test Report No.: ALPL/29012024/20-05

dated 29.01.2024

Page 1 of 1

Issued To : M/s IISCO Steel Plant -SAIL Environment Management Division, Burnpur-713325 (West Bengal).	Sample Inward No.	ALPL/23012024/EW-7/5-5	Analysis Start	23.01.2024
	Inward Date	23.01.2024	Analysis End	27.01.2024
	Reference	W.O. 3000000580	Sample Category	Waste Water
	Reference Date	21.05.2022		
Sample Name Waste Water	Sample Location 5 BOD Plant II Outlet			Quantity Received 1L
Sample Collected By Anacon representative- Mohit Mondal and Sanjib Roy			Sampling Date 23.01.2024	
Tests Required : pH, Cyanide, Ammonical Nitrogen, Phenolic compounds, Chemical oxygen demand, Biochemical oxygen demand, Total Suspended solids, Oil & grease				

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	pH	-	IS 3025 (Part 11) : 2022	8.39 at 25°C
2	Cyanide (as CN ⁻)	mg/l	IS 3025 (Part 27) : 1986	0.148
3	Ammonical Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	41.60
4	Phenolic compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 43) : 1992	0.38
5	Chemical oxygen demand	mg/l	IS 3025 (Part 58) : 2022	192
6	Biochemical oxygen demand (at 27°C for 3 days)	mg/l	IS 3025 (Part 44) : 2023	26.00
7	Total Suspended solids (TSS)	mg/l	IS 3025 (Part 17) : 2022	41.0
8	Oil & grease	mg/l	IS 3025 (Part 39) : 2021	1.40

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● '<' indicates detection limit of instrument/method and shall be considered as 'absent'.

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

Verified By

Sachal Raut

Deputy Technical Manager

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

-----END OF REPORT-----

46
हस्ताक्षर महाप्रबन्धक (पर्यावरण प्रशासन)
AGM (Environ. Mgmt.)
रेल-आर्. एम. पी., बर्नपुर
SAIL-ISP, BURNPUR



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Test Report

Test Report No.: ALPL/04032024/34-1

dated 04.03.2024

Page 1 of 1

Issued To : M/s IISCO Steel Plant -SAIL Environment Management Division, Burnpur-713325 (West Bengal).	Sample Inward No.	ALPL/28022024/EW-5/5-1	Analysis Start	28.02.2024
	Inward Date	28.02.2024	Analysis End	02.03.2024
	Reference	W.O. 3000000580	Sample Category	Waste Water
	Reference Date	21.05.2022		
Sample Name Waste Water	Sample Location 1 Damra Outlet			Quantity Received 1L
Sample Collected By Anacon representative- Mohit Mondal and Sanjib Roy			Sampling Date: 28.02.2024	
Tests Required : pH, Cyanide, Ammonical Nitrogen, Phenolic compounds, Chemical oxygen demand, Biochemical oxygen demand, Total Suspended solids, Oil & grease				

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	pH	-	IS 3025 (Part 11) : 2022	7.66 at 28°C
2	Cyanide (as CN ⁻)	mg/l	IS 3025 (Part-27) : 1986	0.084
3	Ammonical Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	17.40
4	Phenolic compounds (as C ₆ H ₅ OH)	g/l	IS 3025 (Part 43) : 1992	0.19
5	Chemical oxygen demand	mg/l	IS 3025 (Part 58) :2022	96
6	Biochemical oxygen demand (at 27°C for 3 days)	mg/l	IS 3025 (Part 44) :2023	13.40
7	Total Suspended solids (TSS)	mg/l	IS 3025 (Part 17) : 2022	20.0
8	Oil & grease	mg/l	IS 3025 (Part 39) :2021	< 1.0

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

Verified By

Snehal Raut
Deputy Technical Manager

Authorized Signatory

✓ Chinmay Garway
Deputy Quality Manager

-----END OF REPORT-----

महायक महाप्रबन्धक (परावरण प्रबंधन)
AGM (Environ. Mgmt.)
सेल-आई. एस. पी., बर्नपुर
SAIL-ISP, BURNPUR



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Test Report

Test Report No.: ALPL/04032024/34-2

dated 04.03.2024

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Page 1 of 1

Issued To : M/s IISCO Steel Plant -SAIL Environment Management Division, Burnpur-713325 (West Bengal).	Sample Inward No.	ALPL/28022024/EW-5/5-2	Analysis Start	28.02.2024
	Inward Date	28.02.2024	Analysis End	02.03.2024
	Reference	W.O. 3000000580	Sample Category	Waste Water
	Reference Date	21.05.2022		
Sample Name Waste Water	Sample Location 2 Dihika Outlet			Quantity Received 1L
Sample Collected By Anacon representative- Mohit Mondal and Sanjib Roy			Sampling Date 28.02.2024	
Tests Required : pH, Cyanide, Ammonical Nitrogen, Phenolic compounds, Chemical oxygen demand, Biochemical oxygen demand, Total Suspended solids, Oil & grease				

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	pH	-	IS 3025 (Part 11) : 2022	7.84 at 28°C
2	Cyanide (as CN ⁻)	mg/l	IS 3025 (Part 27) : 1986	0.077
3	Ammonical Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	22.80
4	Phenolic compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 43) : 1992	0.24
5	Chemical oxygen demand	mg/l	IS 3025 (Part 58) : 2022	108
6	Biochemical oxygen demand (at 27°C for 3 days)	mg/l	IS 3025 (Part 44) : 2023	15.00
7	Total Suspended solids (TSS)	mg/l	IS 3025 (Part 17) : 2022	27.0
8	Oil & grease	mg/l	IS 3025 (Part 39) : 2021	<1.0

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

Verified By

Snehal Raut
Deputy Technical Manager

Authorized Signatory

✓ Chinmay Garway
Deputy Quality Manager

-----END OF REPORT-----

AGM (Environ. Mgmt.)
महानगर नगरपालिका (सुदूरपश्चिम प्रदेश)
पोस्टा-कोड: १४. ०१. १०१४
SAIL-ISP, BURNPUR



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Test Report

Test Report No.: ALPL/04032024/34-3

dated 04.03.2024

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Issued To : M/s IISCO Steel Plant -SAIL Environment Management Division, Burnpur-713325 (West Bengal).	Sample Inward No.	ALPL/28022024/EW-5/5-3	Analysis Start	28.02.2024
	Inward Date	28.02.2024	Analysis End	02.03.2024
	Reference	W.O. 3000000580	Sample Category	Waste Water
	Reference Date	21.05.2022		
Sample Name Waste Water	Sample Location 3 Reservoir			Quantity Received 1L
Sample Collected By Anacon representative- Mohit Mondal and Sanjib Roy			Sampling Date 28.02.2024	
Tests Required : pH, Cyanide, Ammonical Nitrogen, Phenolic compounds, Chemical oxygen demand, Biochemical oxygen demand, Total Suspended solids, Oil & grease				

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	pH	-	IS 3025 (Part 11) : 2022	8.24 at 28°C
2	Cyanide (as CN ⁻)	mg/l	IS 3025 (Part 27) : 1986	0.123
3	Ammonical Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	37.00
4	Phenolic compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 43) : 1992	0.34
5	Chemical oxygen demand	mg/l	IS 3025 (Part 58) : 2022	148
6	Biochemical oxygen demand (at 27°C for 3 days)	mg/l	IS 3025 (Part 44) : 2023	20.40
7	Total Suspended solids (TSS)	mg/l	IS 3025 (Part 17) : 2022	37.0
8	Oil & grease	mg/l	IS 3025 (Part 39) : 2021	1.60

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

Verified By

Snehal Raut
Deputy Technical Manager

Authorized Signatory

✓ Chinmay Garway
Deputy Quality Manager

-----END OF REPORT-----

महायक महाप्रबन्धक (पर्यावरण प्रबंधन)
AGM (Environ. Mgmt.)
सेल-आई. एस. पी., बर्नपुर
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Test Report

Test Report No.: ALPL/04032024/34-4

dated 04.03.2024

Page 1 of 1

Issued To : M/s IISCO Steel Plant -SAIL Environment Management Division, Burnpur-713325 (West Bengal).	Sample Inward No.	ALPL/28022024/EW-5/5-4	Analysis Start	28.02.2024
	Inward Date	28.02.2024	Analysis End	02.03.2024
	Reference	W.O. 3000000580	Sample Category	Waste Water
	Reference Date	21.05.2022		
Sample Name Waste Water	Sample Location 4 BOD Plant 10 Outlet			Quantity Received 1L
Sample Collected By Anacon representative- Mohit Mondal and Sanjib Roy			Sampling Date	28.02.2024
Tests Required : pH, Cyanide, Ammonical Nitrogen, Phenolic compounds, Chemical oxygen demand, Biochemical oxygen demand, Total Suspended solids, Oil & grease				

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	pH	-	IS 3025 (Part 11) : 2022	8.19 at 28°C
2	Cyanide (as CN ⁻)	mg/l	IS 3025 (Part 27) : 1986	0.090
3	Ammonical Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	40.70
4	Phenolic compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 43) : 1992	0.38
5	Chemical oxygen demand	mg/l	IS 3025 (Part 58) :2022	200
6	Biochemical oxygen demand (at 27°C for 3 days)	mg/l	IS 3025 (Part 44) :2023	28.00
7	Total Suspended solids (TSS)	mg/l	IS 3025 (Part 17) : 2022	30.0
8	Oil & grease	mg/l	IS 3025 (Part 39) :2021	2.20

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

Verified By

Snehal Raut
Deputy Technical Manager

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

-----END OF REPORT-----

AGM (Environ. Mgmt.)
हेतु-आ. र. प्र. वि. बर्नपुर
SAIL-ISP, BURNPUR



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Test Report

Test Report No.: ALPL/04032024/34-05

dated 04.03.2024

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Issued To : M/s IISCO Steel Plant -SAIL Environment Management Division, Burnpur-713325 (West Bengal).	Sample Inward No. ALPL/28022024/EW-5/5-5	Analysis Start 28.02.2024
	Inward Date 28.02.2024	Analysis End 02.03.2024
	Reference W.O. 3000000580	Sample Category Waste Water
	Reference Date 21.05.2022	
Sample Name Waste Water	Sample Location 5 BOD Plant 11 Outlet	Quantity Received 28.02.2024
Sample Collected By Anacon representative- Mohit Mondal and Sanjib Roy		Sampling Date 23.01.2024
Tests Required : pH, Cyanide, Ammonical Nitrogen, Phenolic compounds, Chemical oxygen demand, Biochemical oxygen demand, Total Suspended solids, Oil & grease		

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	pH	-	IS 3025 (Part 11) : 2022	8.42 at 28°C
2	Cyanide (as CN ⁻)	mg/l	IS 3025 (Part 27) : 1986	0.168
3	Ammonical Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	42.30
4	Phenolic compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 43) : 1992	0.44
5	Chemical oxygen demand	mg/l	IS 3025 (Part 58) : 2022	208
6	Biochemical oxygen demand (at 27°C for 3 days)	mg/l	IS 3025 (Part 44) : 2023	28.50
7	Total Suspended solids (TSS)	mg/l	IS 3025 (Part 17) : 2022	36.0
8	Oil & grease	mg/l	IS 3025 (Part 39) : 2021	1.40

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

Verified By

Snehal Raut
 Deputy Technical Manager

Authorized Signatory

✓ Chinmay Garway
 Deputy Quality Manager

-----END OF REPORT-----

महायक महाप्रबधक (प्रबधरण प्रबध)
 AGM (Environ. Mgmt.)
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Test Report

Test Report No.: ALPL/12032024/33-1

dated 12.03.2024

Page 1 of 1

Issued To : M/s IISCO Steel Plant -SAIL Environment Management Division, Burnpur-713325 (West Bengal).	Sample Inward No. ALPL/07032024/EW-5/5-1	Analysis Start 07.03.2024
	Inward Date 07.03.2024	Analysis End 11.03.2024
	Reference W.O. 3000000580	Sample Category Waste Water
	Reference Date 21.05.2022	
Sample Name Waste Water	Sample Location 1 Damra Outlet	Quantity Received 1L
Sample Collected By Joint Sampling of PCB and Environment Department of IISCO Steel Plant		Sampling Date: 07.03.2024
Tests Required : pH, Cyanide, Ammonical Nitrogen, Phenolic compounds, Chemical oxygen demand, Biochemical oxygen demand, Total Suspended solids, Oil & grease		

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	pH	-	IS 3025 (Part 11) : 2022	7.71 at 28°C
2	Cyanide (as CN ⁻)	mg/l	IS 3025 (Part 27) : 1986	0.013
3	Ammonical Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	5.20
4	Phenolic compounds (as C ₆ H ₅ OH)	g/l	IS 3025 (Part 43) : 1992	<0.10
5	Chemical oxygen demand	mg/l	IS 3025 (Part 58) :2022	40
6	Biochemical oxygen demand (at 27°C for 3 days)	mg/l	IS 3025 (Part 44) :2023	6.0
7	Total Suspended solids (TSS)	mg/l	IS 3025 (Part 17) : 2022	8.0
8	Oil & grease	mg/l	IS 3025 (Part 39) :2021	< 1.0

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

Verified By

Snehal Raut
Snehal Raut
Deputy Technical Manager

Authorized Signatory

Chinmay Garway
Chinmay Garway
Deputy Quality Manager

-----END OF REPORT-----

अनाकॉन लैबोराटरीज (प्रा.) लि., बर्नपुर
AGM (Environ. Mgmt.)
संस्थापक: एम. जी. बर्नपुर
SAIL-ISP, BURNPUR



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Test Report

Test Report No.: ALPL/12032024/33-2

dated 12.03.2024

Page 1 of 1

Issued To : M/s IISCO Steel Plant -SAIL Environment Management Division, Burnpur-713325 (West Bengal).	Sample Inward No.	ALPL/07032024/EW-5/5-2	Analysis Start	07.03.2024
	Inward Date	07.03.2024	Analysis End	11.03.2024
	Reference	W.O. 3000000580	Sample Category	Waste Water
	Reference Date	21.05.2022		
Sample Name Waste Water	Sample Location 2 Dihika Outlet			Quantity Received IL
Sample Collected By Joint Sampling of PCB and Environment Department of IISCO Steel Plant			Sampling Date: 07.03.2024	
Tests Required : pH, Cyanide, Ammonical Nitrogen, Phenolic compounds, Chemical oxygen demand, Biochemical oxygen demand, Total Suspended solids, Oil & grease				

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	pH	-	IS 3025 (Part 11) : 2022	7.74 at 28°C
2	Cyanide (as CN ⁻)	mg/l	IS 3025 (Part 27) : 1986	0.021
3	Ammonical Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	4.30
4	Phenolic compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 43) : 1992	<0.10
5	Chemical oxygen demand	mg/l	IS 3025 (Part 58) : 2022	36
6	Biochemical oxygen demand (at 27°C for 3 days)	mg/l	IS 3025 (Part 44) : 2023	5.0
7	Total Suspended solids (TSS)	mg/l	IS 3025 (Part 17) : 2022	9.0
8	Oil & grease	mg/l	IS 3025 (Part 39) : 2021	<1.0

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

Verified By

Snchal Raut
 Deputy Technical Manager

Authorized Signatory

Chinmay Garway
 Deputy Quality Manager

-----END OF REPORT-----

सहायक महाप्रबंधक (प्रवावरण प्रबंधक)
 AGM (Environ. Mgmt.)
 सेल-आई. एस. पी., बर्नपुर
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Test Report

Test Report No.: ALPL/12032024/33-3

dated 12.03.2024

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Issued To : M/s IISCO Steel Plant -SAIL Environment Management Division, Burnpur-713325 (West Bengal).	Sample Inward No.	ALPL/07032024/EW-5/5-3	Analysis Start	07.03.2024
	Inward Date	07.03.2024	Analysis End	11.03.2024
	Reference	W.O. 3000000580	Sample Category	Waste Water
	Reference Date	21.05.2022		
Sample Name Waste Water	Sample Location 3 Reservoir			Quantity Received 1L
Sample Collected By Joint Sampling of PCB and Environment Department of IISCO Steel Plant			Sampling Date: 07.03.2024	
Tests Required : pH, Cyanide, Ammonical Nitrogen, Phenolic compounds, Chemical oxygen demand, Biochemical oxygen demand, Total Suspended solids, Oil & grease				

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	pH	-	IS 3025 (Part 11) : 2022	7.80 at 28°C
2	Cyanide (as CN ⁻)	mg/l	IS 3025 (Part 27) : 1986	0.019
3	Ammonical Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	4.10
4	Phenolic compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 43) : 1992	<0.10
5	Chemical oxygen demand	mg/l	IS 3025 (Part 58) :2022	44
6	Biochemical oxygen demand (at 27°C for 3 days)	mg/l	IS 3025 (Part 44) :2023	8.0
7	Total Suspended solids (TSS)	mg/l	IS 3025 (Part 17) : 2022	10.0
8	Oil & grease	mg/l	IS 3025 (Part 39) :2021	<1.0

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

Verified By

Snehal Raut
Deputy Technical Manager

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

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AGM (Environ. Mgmt.)
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Test Report

Test Report No.: ALPL/12032024/33-4

dated 12.03.2024

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Issued To : M/s IISCO Steel Plant -SAIL Environment Management Division, Burnpur-713325 (West Bengal).	Sample Inward No.	ALPL/07032024/EW-5/5-4	Analysis Start	07.03.2024
	Inward Date	07.03.2024	Analysis End	11.03.2024
	Reference	W.O. 3000000580	Sample Category	Waste Water
	Reference Date	21.05.2022		
Sample Name Waste Water	Sample Location 4 BOD Plant 10 Outlet			Quantity Received 1L
Sample Collected By Joint Sampling of PCB and Environment Department of IISCO Steel Plant			Sampling Date: 07.03.2024	
Tests Required : pH, Cyanide, Ammonical Nitrogen, Phenolic compounds, Chemical oxygen demand, Biochemical oxygen demand, Total Suspended solids, Oil & grease				

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	pH	-	IS 3025 (Part 11) : 2022	7.83 at 28°C
2	Cyanide (as CN ⁻)	mg/l	IS 3025 (Part 27) : 1986	0.048
3	Ammonical Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	7.70
4	Phenolic compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 43) : 1992	<0.10
5	Chemical oxygen demand	mg/l	IS 3025 (Part 58) :2022	64
6	Biochemical oxygen demand (at 27°C for 3 days)	mg/l	IS 3025 (Part 44) :2023	10.0
7	Total Suspended solids (TSS)	mg/l	IS 3025 (Part 17) : 2022	29.0
8	Oil & grease	mg/l	IS 3025 (Part 39) :2021	<1.0

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

Verified By

Snehal Raut
Deputy Technical Manager

Authorized Signatory

Chinmay Garway
Deputy Quality Manager

-----END OF REPORT-----

महायुक्त महाप्रबंधक (पर्यावरण प्रबंधन)
AGM (Environ. Mgmt.)
सेल-आई. एस. पी., बर्नपुर
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Test Report

Test Report No.: ALPL/12032024/33-5

dated 12.03.2024

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Issued To : M/s IISCO Steel Plant -SAIL Environment Management Division, Burnpur-713325 (West Bengal).	Sample Inward No.	ALPL/07032024/EW-5/5-5	Analysis Start	07.03.2024
	Inward Date	07.03.2024	Analysis End	11.03.2024
	Reference	W.O. 3000000580	Sample Category Waste Water	
	Reference Date	21.05.2022		
Sample Name Waste Water	Sample Location 5 BOD Plant 11 Outlet			Quantity Received 1 L
Sample Collected By Joint Sampling of PCB and Environment Department of IISCO Steel Plant			Sampling Date: 07.03.2024	
Tests Required : pH, Cyanide, Ammonical Nitrogen, Phenolic compounds, Chemical oxygen demand, Biochemical oxygen demand, Total Suspended solids, Oil & grease				

TEST RESULTS

S.N.	Test Parameter	Measurement Unit	Test Method	Test Result
1	pH	-	IS 3025 (Part 11) : 2022	7.71 at 28°C
2	Cyanide (as CN ⁻)	mg/l	IS 3025 (Part 27) : 1986	0.034
3	Ammonical Nitrogen (as N)	mg/l	IS 3025 (Part 34) : 1988	8.60
4	Phenolic compounds (as C ₆ H ₅ OH)	mg/l	IS 3025 (Part 43) : 1992	<0.10
5	Chemical oxygen demand	mg/l	IS 3025 (Part 58) :2022	76
6	Biochemical oxygen demand (at 27°C for 3 days)	mg/l	IS 3025 (Part 44) :2023	12.0
7	Total Suspended solids (TSS)	mg/l	IS 3025 (Part 17) : 2022	34.0
8	Oil & grease	mg/l	IS 3025 (Part 39) :2021	<1.0

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 • '<' indicates detection limit of instrument/method and shall be considered as 'absent'.

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

Verified By

Snehal Raut
 Deputy Technical Manager

Authorized Signatory

Chinmay Garway
 Deputy Quality Manager

-----END OF REPORT-----


महायक महाप्रबंधक (पर्यावरण प्रबंधन)
 AGM (Environ. Mgmt.)
 सेल-आई. एस. पी., बर्नपुर
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Annexure 2

Monitoring Results


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Stack Monitoring Data


Month	Unit	Stack	PM (mg/Nm ³)	SO ₂ (mg/Nm ³)	NOx (mg/Nm ³)
October 2023	Blast Furnace	Bf-5 Cast House-1	40	---	---
		Bf-5 Cast House-2	40	---	---
		Bf-5 Stock House	36	---	---
		Bf-5 (Stove)	10	65	46
	Coke Oven	COB #10	30	76	45
		COB #11	32	64	76
	LDCP	Dolomite Plant	40	---	---
		Lime Plant-1	41	---	---
		Lime Plant-2	45	---	---
		Lime Plant-3	46	---	---
	Mills	WRM	17	---	---
		Bar Mill	25	---	---
		USM	22	---	---
	Sinter Plant	Sinter Plant # 1	38	---	---
		Sinter Plant # 2	33	---	---
	PBS	Boiler -1	10	132	101
	BOF	SMS	30	---	---
November 2023	Blast Furnace	Bf-5 Cast house-1	43	---	---
		Bf-5 Cast house-2	47	---	---
		Bf-5 Stock house	40	---	---
		Bf-5 (Stove)	9	142	88
	Coke Oven	COB #10	35	258	72
		COB #11	36	107	106
	LDCP	Dolomite Plant	40	---	---
		Lime Plant-1	43	---	---
		Lime Plant-2	46	---	---
		Lime Plant-3	38	---	---
	Mills	WRM	9	---	---
		Bar Mill	10	---	---
		USM	12	---	---
	Sinter Plant	Sinter Plant # 1	39	---	---
		Sinter Plant # 2	43	---	---
	BOF	SMS	25	---	---
December 2023	Blast Furnace	Bf-5 Cast house-1	40	---	---
		Bf-5 Cast house-2	40	---	---
		Bf-5 Stock house	40	---	---
		Bf-5 (Stove)	11	146	89
	Coke Oven	COB #10	30	61	56
		COB #11	34	100	101
	LDCP	Dolomite Plant	---	---	---
		Lime Plant-2	35	---	---


 महाप्रबधक (पर्यावरण प्रबधन)
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 सेल-आई. एस. पी., वर्नपुर
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Month	Unit	Stack	PM (mg/Nm ³)	SO ₂ (mg/Nm ³)	NO _x (mg/Nm ³)
	Mills	Lime Plant-3	40	---	---
		Lime Plant-4	40	---	---
		WRM	16	---	---
		Bar Mill	19	---	---
		USM	11	---	---
	Sinter Plant	Sinter Plant # 1	39	---	---
		Sinter Plant # 2	36	---	---
	PBS	Boiler - 2	14	143	121
January 2024	Blast Furnace	Bf-5 Cast house-1	40	---	---
		Bf-5 Cast house-2	40	---	---
		Bf-5 Stock house	40	---	---
		Bf-5 (Stove)	16	74	31
	Coke Oven	COB #10	24	87	48
		COB #11	35	89	94
		Lime Plant-1	35	---	---
		Lime Plant-2	41	---	---
		Lime Plant-3	37	---	---
	Mills	WRM	18	---	---
		Bar Mill	23	---	---
		USM	19	---	---
	Sinter Plant	Sinter Plant # 1	38	---	---
		Sinter Plant # 2	27	---	---
	PBS	Boiler -1	12	114	98
	BOF	SMS	22	---	---
February 2024	Blast Furnace	Bf-5 Cast house-1	42	---	---
		Bf-5 Cast house-2	37	---	---
		Bf-5 Stock house	40	---	---
		Bf-5 (Stove)	16	127	68
	Coke Oven	COB #10	28	57	53
		COB #11	43	112	151
		Lime Plant-1	38	---	---
		Lime Plant-2	42	---	---
		Lime Plant-3	38	---	---
	Mills	WRM	20	---	---
		Bar Mill	14	---	---
		USM	16	---	---
	Sinter Plant	Sinter Plant # 1	29	---	---
		Sinter Plant # 2	20	---	---
	PBS	Boiler -2	11	127	113
	BOF	SMS	29	---	---
	Blast Furnace	Bf-5 Cast house-1	39	---	---
		Bf-5 Cast house-2	43	---	---
		Bf-5 Stock	34	---	---



 महेश प्रसाद (पर्यावरण प्रबंधक)
 AGM (Environ. Mgmt.)
 सेल-आई. एस. सी., बर्नपुर
 SAIL-ISP, BURNPUR

Month	Unit	Stack	PM (mg/Nm ³)	SO ₂ (mg/Nm ³)	NO _x (mg/Nm ³)
March 2024	Coke Oven	house			
		Bf-5 (Stove)	18	98	38
		COB #10	26	80	75
		COB #11	42	72	69
	LDCP	Dolomite Plant	40	---	---
		Lime Plant-1	47	---	---
		Lime Plant-2	42	---	---
		Lime Plant-3	45	---	---
	Mills	WRM	9	---	---
		Bar Mill	11	---	---
		USM	11	---	---
	Sinter Plant	Sinter Plant # 1	38	---	---
		Sinter Plant # 2	32	---	---
	PBS	Boiler -1	11	115	9
	BOF	SMS	22	---	---


 महायक महाप्रबंधक (पर्यावरण प्रबंधन)
 AGM (Environ. Mgmt.)
 सेल-आई. एस. पी., बर्नपुर
 SAIL-ISP, BURNPUR


Ambient Air Quality Monitoring Data

Month	Location of Station	Norm	Parameters ($\mu\text{g}/\text{m}^3$)			
			PM ₁₀	PM _{2.5}	SO ₂	NOx
			100	60	80	80
October 2023	Town Department		95	58	11	13
	Chhotodighari		94	56	12	14
	Rangapara		87	49	9	12
	Kuilapur		92	54	10	13
	Nakrasota		98	55	12	16
	Dharampur		93	57	10	14
November 2023	Central Town		98	59	12	14
	Chhotodighari		96	58	11	15
	Rangapara		93	52	10	13
	Kuilapur		95	55	9	14
	Nakrasota		92	56	11	15
	Dharampur		97	58	12	13
December 2023	Central Town		99	56	11	13
	Chhotodighari		97	52	13	16
	Rangapara		93	58	9	12
	Kuilapur		91	58	12	14
	Nakrasota		95	55	12	14
	Dharampur		92	52	13	15
January 2024	Central Town		97	54	12	14
	Chhotodighari		96	56	11	15
	Rangapara		98	57	10	13
	Kuilapur		96	56	9	13
	Nakrasota		94	58	11	13
	Dharampur		95	53	12	16
February 2024	Central Town		96	56	13	17
	Chhotodighari		99	58	12	16
	Rangapara		97	52	11	14
	Kuilapur		99	54	10	13
	Nakrasota		98	55	13	18
	Dharampur		95	51	12	17
March 2024	Central Town		94	57	14	18
	Chhotodighari		95	55	10	15
	Rangapara		96	51	11	13
	Kuilapur		97	54	12	14
	Nakrasota		99	56	13	16
	Dharampur		93	53	12	16


 महायुक्त, महाप्रबन्धक
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 SAIL-ISP, BURNPUR

Work Environment

Month	Unit	Location	Parameters			
			SPM ($\mu\text{g}/\text{m}^3$)	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NOx ($\mu\text{g}/\text{m}^3$)
October 2023	Coke Oven #10	Ram Side	1531	519	60	72
	Coke Oven #11	Ram Side	1725	536	64	73
	BF-5	Cast House	3794	1034	61	78
	Sinter Plant	Floor Area	2841	1532	28	56
	BOF	Converter	2499	718	44	59
	Bar Mill	Floor Area	1014	372	26	39
	RMHP	Floor Area	1722	774	32	46
	LDCP	Floor Area	1836	749	31	45
	Oxygen Plant	Floor Area	469	245	34	49
	PBS	Floor Area	446	245	27	38
November 2023	Coke Oven #10	Coke Side	1649	631	58	71
	Coke Oven #11	Coke Side	1691	572	62	69
	BF-5	Cast House	3276	993	63	77
	Sinter Plant	Floor Area	2771	1413	26	54
	BOF	Converter	2233	644	34	49
	USM	Floor Area	319	198	19	35
	RMHP	Floor Area	1882	799	31	48
	LDCP	Floor Area	1917	688	29	44
	Oxygen Plant	Floor Area	389	104	27	42
	PBS	Floor Area	418	219	29	41
December 2023	Coke Oven #10	Ram side	1771	712	57	66
	Coke Oven #11	Ram side	1732	628	64	74
	BF-5	Cast House	2956	814	57	68
	Sinter Plant	Floor Area	2994	1519	24	59
	BOF	Converter	4013	2061	49	71
	WRM	Floor Area	422	272	18	32
	RMHP	Floor Area	1772	714	29	45
	LDCP	Floor Area	1833	746	27	42
	Oxygen Plant	Floor Area	454	126	24	39
	PBS	Floor Area	528	262	28	40
January 2024	Coke Oven #10	Coke side	1681	693	54	67
	Coke Oven #11	Coke side	1774	722	62	71
	BF-5	Cast House	2744	798	56	69
	Sinter Plant	Floor Area	2795	1472	22	56
	BOF	Converter	1834	552	27	44
	Bar Mill	Floor Area	394	288	17	29
	RMHP	Floor Area	1630	688	26	42
	LDCP	Floor Area	1775	781	24	32
	Oxygen Plant	Floor Area	399	139	23	27
	PBS	Floor Area	517	289	25	47
February 2024	Coke Oven #10	Ram side	1782	712	56	55
	Coke Oven #11	Ram side	1695	681	58	74
	BF-5	Cast House	2592	713	54	72
	Sinter Plant	Floor Area	2613	1219	21	47
	BOF	Converter	1784	619	25	42
	USM	Floor Area	368	272	16	28
	RMHP	Floor Area	1829	723	24	39
	LDCP	Floor Area	1801	763	22	34
	Oxygen Plant	Floor Area	371	148	19	28


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Month	Unit	Location	Parameters			
			SPM ($\mu\text{g}/\text{m}^3$)	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NOx ($\mu\text{g}/\text{m}^3$)
	PBS	Floor Area	498	266	23	41
March 2024	Coke Oven #10	Coke side	1588	642	54	62
	Coke Oven #11	Coke side	1481	598	56	71
	BF-5	Cast House	2492	623	52	76
	Sinter Plant	Floor Area	2722	1134	22	46
	BOF	Converter	1499	537	23	41
	WRM	Floor Area	348	244	18	29
	RMHP	Floor Area	1938	788	26	42
	LDCP	Floor Area	1911	714	21	35
	Oxygen Plant	Floor Area	387	141	24	32
	PBS	Floor Area	485	272	25	42

Work Environment Noise Monitoring


Month	Chhotodig hari		SCOB Gate		Vehicle Gate		Tunnel Gate		Dharampur		Kuilapur		Nakrasota	
	D	N	D	N	D	N	D	N	D	N	D	N	D	N
Oct 2023	62	51	61	52	64	54	62	53	61	51	61	50	62	53
Nov 2023	61	52	62	54	62	53	61	51	59	50	60	51	63	52
Dec-2023	63	53	60	52	61	50	63	52	60	52	62	53	64	54
Jan-2024	60	51	62	53	63	52	62	53	61	54	63	52	62	51
Feb-2024	57	50	63	52	62	53	63	54	59	53	60	54	63	52
Mar-2024	61	52	64	52	63	51	61	53	60	52	61	53	62	52

D – During Day Time, N – During Night Time


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Coke Oven Fugitive Emission

Month	Parameters	Norm	Battery 10 (Rebuilt Batt.)	Battery 11 (New Batt.)
October 2023	PLD	10 % (COB#10)	1.2	4.1
		5 % (COB #11)		
	PLL	1 %	0.28	0.53
	PLO	4%	0.82	1.4
	Charging Emissions	50 Sec/ Charge (COB #10) 16 Sec/ Charge (COB #11)	12	14
November 2023	PLD	10 % (COB#10)	1.2	4.2
		5 % (COB #11)		
	PLL	1 %	0.28	0.51
	PLO	4%	0.84	1.9
	Charging Emissions	50 Sec/ Charge (COB #10) 16 Sec/ Charge (COB #11)	12	13
December 2023	PLD	10 % (COB#10)	1.1	4.0
		5 % (COB #11)		
	PLL	1 %	0.27	0.58
	PLO	4%	0.84	1.6
	Charging Emissions	50 Sec/ Charge (COB #10) 16 Sec/ Charge (COB #11)	14	14
January 2024	PLD	10 % (COB#10)	1.2	3.8
		5 % (COB #11)		
	PLL	1 %	0.26	0.56
	PLO	4%	1.1	1.5
	Charging Emissions	50 Sec/ Charge (COB #10) 16 Sec/ Charge (COB #11)	13	14
February 2024	PLD	10 % (COB#10)	1.1	3.9
		5 % (COB #11)		
	PLL	1 %	0.24	0.48
	PLO	4%	0.72	1.6
	Charging Emissions	50 Sec/ Charge (COB #10) 16 Sec/ Charge (COB #11)	13	14
March - 2024	PLD	10 % (COB#10)	1.0	3.4
		5 % (COB #11)		
	PLL	1 %	0.19	0.52
	PLO	4%	0.58	1.5
	Charging Emissions	50 Sec/ Charge (COB #10) 16 Sec/ Charge (COB #11)	12	14


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Annexure 3

Pollution Control Equipment Installed


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**IISCO Steel Plant
Pollution Control Equipment Installed**

Sl. No.	Shop	Pollution Control System	Nos.
1.	Coke Oven	HPLA System	2
		BOD Plant	2
		Bag Filter	5
		RO Plant	1
		Gravel filter	2
		Pressure filter	1
		ESP	5
		Chimney	5
2.	Blast Furnace	Dust Catcher	1
		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	LDCEP	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


 महायक महाप्रबधक (पयोवरण प्रबधन)
 AGM (Environ. Mgmt.)
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Annexure 4

CSR Activities

महायक म... प्रबंधन
AGM (... Mgmt.)
सेल-अ... ति., बर्नपुर
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Peripheral/Community Development Program conducted during FY: 2023-24


Sl. No.	Details of program	Approved Budget/Work Order value (Rs. In Lakh)
1.	Free Coaching Centre (FCC) for school dropouts & scholarship to the meritorious students & poor students from underprivileged class	53.50
2.	Repair/Renovation/Extension of Class rooms etc. at Dhemomain school	10.00
3.	Financial aid to Bharati Bhavan for "Sishu Utsav"	3.00
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 & Scholarship to the meritorious students & poor students from underprivileged class	28.00
5.	Construction of new building for Burnpur Girl's High School (Approx. 98% Non-SAIL BPL)	300.00
6.	Distribution of School Uniform, School Accessories to the students of Dhemomain Colliery School and Bari Vidyalaya Primary Section	5.00
7.	Construction of four additional class rooms, toilet, teachers room and office of Swami Vivekananda Ashrama, Shyamdihi	5.00
8.	Infrastructure development of Kishalaya Preparatory School	40.00
9.	Scholarship to SC & ST Students	0.51
10.	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	20.00
11.	Skill development training on General Duty Assistant & Phlebotomy course	15.00
12.	Skill development training in peripheral villages under Recognition of Prior Learning program	18.00
13.	Skill development training in peripheral villages under Recognition of Prior Learning program	5.00
14.	Regular Extended OPD with help of mobile medical van, enhancement of outreach camp, Preventive action against Malaria, Dengue etc. to 20 peripheral villages	22.00
15.	Regular Extended OPD with help of mobile medical van, enhancement of outreach camp, Preventive action against Malaria, Dengue etc. to 10 peripheral villages	11.00
16.	Regular Extended OPD with help of mobile medical van, enhancement of outreach camp, Preventive action against Malaria, Dengue etc. to 10 peripheral villages	11.00
17.	Providing tiffin to the students of Burnpur Ambagan Volunteers Social Welfare Organisation	3.00
18.	Supplying Assistive living devices to PwDs at Burnpur, Asansol, Bankura & Purulia	50.00
19.	"Stop Malnutrition" for the under privileged children and regular educational coaching to "Stop school dropout" in Chobka red light area & Bhuiapara	15.71
20.	Organizing camp for Health & Nutrition of Mother & Pregnant ladies among underprivileged women at peripheral villages	4.26


 महानगर प्रशासन (पर्यावरण प्रबंधन)
 AGM (Environ. Mgmt.)
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Sl. No.	Details of program	Approved Budget/Work Order value (Rs. In Lakh)
21.	Regular additional health camps, Mobile Medical Units, free/subsidised treatment at Burnpur Hospital for peripheral communities	40.00
22.	Providing Cooked nutritious meal to school children (1571 nos.) of different schools in and around Burnpur through community kitchen for 120 days	39.75
23.	Improving Nutrition & Health of the School children (1901 children) of different schools in and around Burnpur through Gift milk programme for 175 days	76.85
24.	AIDS awareness project cum medical camp for sex workers of Lachipur & Chobka Red-light Area	10.00
25.	Financial aid to Burnpur Mahila Voluntary Samity for stitching & knitting training	6.67
26.	Providing Sanitary napkin to village women/girl	22.96
27.	Financial assistance to Burnpur Mahila Voluntary Samity for Industrial gloves making training	3.04
28.	Skill development training for village women at BMVS center (Stitching, embroidery & advanced beautician course) End to end service	15.00
29.	Up skilling of women on Kantha stitch, zardosi, Zari, batik print, fabric – End to end service	6.00
30.	Financial assistance to BMVS for Computer Training Course	2.90
31.	Bidushi coaching & training for jobs to aspiring girl students (30 students) of matriculation and above	14.00
32.	Training on Community Kitchen to women in peripheral villages	10.00
33.	Maintenance of Tube Wells with Hand Pump already installed in Different villages	2.50
34.	Setting up solar submersible pump set in peripheral village with pipeline laying	45.00
35.	Providing Community Toilet in 5 (Five) peripheral villages under "Swachha Bharat Mission" including maintenance	50.00
36.	Maintenance and repair of existing sanitations already installed in different villages	5.00
37.	Construction of toilets for Kishalaya Preparatory School	9.97
38.	Construction of Toilets at proposed Burnpur Girls School	30.00
39.	Providing training to the villagers (Boys & Girls) for Football & Kabaddi throughout the year	11.00
40.	Organizing Inter village Football & Kabaddi tournament	5.00
41.	Financial aid to village students for Physical education & yoga centers	1.00
42.	Financial assistance to Asansol Rifle Club for Sponsoring a Rifle and supporting equipment for imparting training to nationally recognized sports	4.00
43.	Financial assistance for supply of 170 metre long used conveyor for installation and use in new 25 metre pistol range at Asansol Rifle Club	0.50
44.	Construction of a 30 lanes 50 meters shooting range with a covered area of 5000 Sq. feet at Asansol Rifle Club.	35.56
45.	Financial aid for promotion of sports activity among the ITI students and youth at the Ramakrishna Mission Ashrama Pvt. ITI, Asansol	4.85
46.	Operation of Football Academy	57.25

महायुक्त महाप्रबंधक (पर्यावरण प्रबंधन)
 A.M. Environ. Mgmt.
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Sl. No.	Details of program	Approved Budget/Work Order value (Rs. In Lakh)
47.	Development of Sports infrastructure at IISCO (Phase- II)	179.11
48.	Civil works for development of sports infrastructure, paver road & other CSR works	111.52
49.	Renovation of Fountain works, garden & lighting work of Nehru Park	29.83
50.	Design, fabrication & reaction of multi activity tower with GRP climbing wall & rappelling wall for outbound activities at Nehru Park	32.88
51.	Organizing Hool Divas	2.00
52.	Celebration of Dr. B. R. Ambedkar Jayanti and other events (Shifted from Education to Art & Culture thrust area)	5.00
53.	Tribal Cultural functions & Dance Competition	5.00
54.	Financial assistance for restoring the cultural heritage of IISCO Steel Plant, Burnpur (Also CSR initiatives by erstwhile IISCO & SAIL-ISP)	33.22
55.	Installation of Ambedkar Statue on the recommendation of National Commission for Scheduled Castes under thrust area Art & Culture	10.00
56.	Installation of Dr. BR Ambedkar statue	7.75
57.	Civil jobs for restoring cultural heritage at identified bungalow	26.04
58.	Repairing/Construction of roads/Infrastructure Development in peripheral villages	20.00
59.	Construction of community centers with toilet, repairing/renovation of community centers in peripheral villages of Burnpur	50.00
60.	Construction of Vendor Rest Room at Burnpur Station Road Market	14.99
61.	Financial aid for running Cheshire Home, Burnpur (Security, food, clothing, education, maintenance and upkeep, special trainers, warden, celebration of important days etc.)	30.00
62.	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	6.00
63.	Afforestation/tree plantation & Environment development	1.00
64.	Afforestation/tree plantation & Environment development	2.00
65.	Afforestation/tree plantation & Environment development/development of parks in peripheral villages	12.00
66.	Publicity of ISP CSR Projects/activities	5.00
Total		1712.12


 महासचिव (CSR)
 AGM
 सैल - आई.एस.पी., बर्नपुर
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