ELECTROSTEEL CASTINGS LIMITED

Vill: Kashberia, P.O.: Shibramnagar, Haldia, Dist.: Purba Medinipur 721 635, India

Tel: 03224 277 721, Fax: 03224 278107 CIN: L27310OR1955PLC000310

Web: www.electrosteelcastings.com



Date: 23/05/2023

Ref: ECL/MOEFCC/FA/Haldia/01/23-24

To
Deputy Director(S),
Ministry of Environment, Forest & Climate Change,
Eastern Regional Office,
A/3, Chandrasekharpur,
Bhubaneswar – 751023.

Ref: EC Letter No.-J-11011/02/2016-IA-II(I), dated 12.04.2017.

Sub: Six monthly Compliance Report of the conditions of Environmental Clearance issued by Ministry of Environment & Forest, New Delhi for Proposed installation of the Ferro Alloy Plant through setting up of 1X6MVA & 1x9MVA submerged Are Furnace for production of Ferro Manganese (38,156TPA) or Silico Manganese (27,109 TPA) or Ferro Silicon (10,421 TPA) by M/s- Electrosteel Castings Ltd, Located at Haldia, Dist –Purba Medinipur, West Bengal for the Period October-22 to March-23.

Respected Sir,

This has reference to the Environmental Clearance letter no-J-11011/02/2016-IA-II(I), dated 12.04.2017 issued by Ministry of Environment, Forest & Climate Change, New Delhi.

We enclose herewith Compliance Report for the Period of October-2022 to March-2023 for your perusal.

This is for your information.

Thanking you, Yours faithfully,

For ELECTROSTEEL CASTINGS LIMITED,

(G. C. Mahto)

AVP - HW

Enclo: a) EC Compliance Report-(Annexure-1).

- b) Report of Stack Monitoring (Annexure-2).
- c) Report of AAQM (Annexure-3).
- d) Report of Ambient Noise (Annexure-4).
- e) Report of Neurological & Periodical Health check-up (Annexure-5).







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CC: - 1) Regional Director,
Central pollution control board,
Southend conclave, Block 502,
5th & 6th floor 1582 Rajdanga main road,
Saratpark, Bose pukur, Kasba.
Kolkata-700107.

Regional Director,
 GOI, MOEF & CC,
 Integrated Regional Office,
 Kolkata, 1b-198, Salt Lake City,
 Sector –III, Kolkata-700106.

3) The Asst. Environmental Engineer & In- charge. West Bengal Pollution Control Board, Haldia Regional Office, Raghunathchak, P.O:- Barghasipur, P.S:-Bhabanipur, Medinipur (East)-721657.







ENVIRONMENT CLEARANCE SIX MONTHLY COMPLIANCE REPORT (FROM OCTOBER-2022 TO MARCH-2023)

Project Name :- Proposed installation of the Ferro Alloy Plant through setting up of 1 x 6 MVA & 1 x 9 MVA submerged Arc Furnace for production of Ferro Manganese (38,156 TPA) or Silico Manganese (27,109 TPA) or Ferro Silicon (10,421 TPA) by M/s. Electrosteel Castings Ltd., located at Haldia, Dist. Purba Medinipur, West Bengal. Environment Clearance: J-11011/02/2016-IA-II (I), dated 12.04.2017

	CONDITION OF ENVIRONMENTAL CLEARANCE	STATUS OF COMPLIANCE
PART	A- Specific Conditions	
i.	The project proponent should install 24x7 air monitoring devices to monitor air emission, as provided by CPCB and submit report to Ministry and its Regional Office.	OCEMS has been installed in two stacks one is connected with Furnace stack & another one is connected with raw material handling stack. OCEMS connectivity of Furnace bag filter stack with CPCB server through M/s- Forb Marshal has been completed. Now real time online data is available in CPCB web portal.
ii.	Bag filters to be installed to reduce the emission of Particulate Matter (PM). PM emission should not exceed 100 mg/m3. Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the permissible limits which have been most recently prescribed by the Ministry and regularly monitored. Guidelines/Code of Practice issued by the CPCB should also be followed.	Two bag filters have been installed. One is attached with the 9MVA Submerged Electric Arc Furnace (SEAF) & another with raw material handling system. Stack monitoring reports of CPCB approved 3 rd party is attached in "Annexure-2" & the results are within the limit.
iii.	Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.	Is being followed and records maintained.
iv.	Neurological Evaluation of workers exposed to Manganese should be monitored annually and the report should be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office.	Is being followed and records maintained. (Annexure-5)
v.	Measures shall be taken to reduce PM levels in the ambient air. Stack of adequate height & diameter with continuous stack monitoring facilities for all the stacks should be provided. In addition, sufficient air pollution control devices viz. bag house, bag filters etc. should be provided.	Following measures have been taken to reduce PM level in the ambient air. i) Two Stationary sprinklers & one mobile water sprinkler have been deployed for dust suppression. ii) Installed two stacks of adequate height & diameter with continuous stack monitoring facility in both stack. All stacks are connected with suitable PC device (Bag filter).

	filter, centrifugal fan and motor, duct work including suction hoods, dust supports, stack, duct hopper, rotary air lock valves etc. should be installed to control the	dequate dust extraction system comprising of required equipment has been installed to control the primary and secondary emission during commissioning of plant & presently in operation.
i.	Water sprinkling arrangements as well as dry log system to control fugitive emission shall put up. Water sprinkling should be carried out at the raw material stockyard to control fugitive dust emissions.	sprinkler & Dry Fog System have been installed to control fugitive emissions. One Mobile water sprinkler has been provided to carry out water sprinkling in the raw material yard to control fugitive emission.
/iii.	Efforts should be made to use maximum water from the rain water harvesting sources. If needed ,capacity of the reservoir shall be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from others. Use of air cooled condensers shall be explored and closed circuit cooling system shall be provided to reduce water consumption. Water	One rain water harvesting tank has been constructed to use rain water. Close circuit cooling system has been provided to reduce water consumption.
ix.	requirement should be modified accordingly. 10-15 m wide green belt should be developed all along the boundary of the plant and in all 33% of the area should be developed green by planting native and broad leaved species in consultation with local DFO and local communities as per the CPCB guidelines. The entire plantation work should be completed in 3 years.	Green belt development activity is continuing in consultation with Forest Range Office at Balughata under Nandakumar forest range office and local communities. Green belt cover is being maintained continuously throughout the year within the project site as well as outside the plant premises along the HDA road. More saplings will be planted in upcoming monsoon seasons and will distribute different type of saplings to local villagers and school children as a part of Celebration of World Environmental Day 2023.
х.	All the Ferro alloy slag shall be used in the preparation of building materials.	All Ferro Alloy Slags are being used for road making & construction purpose only. Environmental policy has been already
xi.	The Company shall submit within three months their policy towards Corporate Environment Responsibility which shall inter-alia address i) Standard operating process/procedure to being into focus any infringement/deviation/violation of environmental or forest norms/conditions,	Submitted to MoEFCC on 10.01.2018. Standard operating procedure will be followed as stated in EMP.
	ii) Hierarchical system or Administrative order of the Company to deal with environmental issues and ensuring compliance to the environmental clearance conditions and	Already Submitted on 10.01.2018.

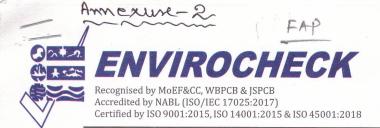
	iii) System of reporting of non-compliance/violation environmental norms to the Board of Directors of the company and/or stakeholders or shareholders.	All the environmental issues are communicated to the top management in monthly MIS meeting and also to the Board of Directors quarterly through a systematic structured format by Head – Environment.
	total project cost (Rs. 50 Crores) shall be earmarked towards the Enterprise Social Commitment based on	(1) An amount of Rs. 25500 /- handed over to 10 BPL students in the month of January-23 & March-23 respectively. This will be continued on quarterly basis. Therefore total disburse amount is Rs.51000/- for the period October-22 to March-23. (2) In this period we have expensed Rs. 6/lakhs for Construction a Cycle stand at Doro Krishnanagar Bani Mandir High school, Sutahata. (Total disburse amount is Rs. 6 Lakhs for the period October-22 to March-23. (3) One new Drinking water facility has been set up in Jhikurkhali village. Total expenses for this period is Rs. 1.9 lakhs. Installed 7 nos. tube well against 10 nos. and the total expenses is Rs. 11.50 lakhs. Total cost exceed the projected cost i.e. Rs. 10 lakhs. 4) One pond has been renovated in village-Kapasheria & expenses incur is Rs 4.0 Lakhs. Total expenses is Rs.12.41 lakhs in this period (October-22 to March-23). Total cumulative expenses for the period September 2018 to March 2023:- Rs. 90.31 /-Lakhs.
xiii.	The project proponent shall provide for solar light system for all common areas, street lights, villages, parking	Six Solar street lights have been installed within project site with all necessary
xiv.	around project area and maintain the same regularly. The project proponent shall fully provide for LED lights in their offices and residential areas.	arrangement. LED light has been installed throughout the plant to save energy.
XV.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	All facilities & infrastructures has been provided as per the requirement.

	The project authorities must strictly adhere to the stipulations made by the West Bengal Pollution Control Board and the State Government.	Following all stipulated guideline of WBPCB & the state Government.
ii.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment Forest and Climate Change (MoEF&CC).	We will not do any further expansion or modification in the plant without prior approval of MoEF&CC.
III.	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM10, PM2.5, SO2, NOx are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and the SPCB/CPCB once in six month.	Four AAQ monitoring stations have already been installed at different locations based on wind direction in consultation with SPCB. AAQ monitoring has been started from March 2019 on wards & the results are within limit value. Month wise summary report of AAQ is being attached for the said period in (Annexure-3).
iv.	Industrial waste water shall be properly collected treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The treated waste water shall be utilized for plantation purpose.	Industrial waste water is being collected inland pond through surface drain & utilized it for plantation & dust suppression purpose.
v.	The overall noise levels in and around the plant area shall be kept well within the standards (85 dbA) by providing noise control measures including acoustic hoods ,silencers, enclosures etc. on all sources of noise generation .The ambient noise levels should conform to the standards prescribed under EPA Rules ,1989 viz.75 db A (day time) and 70 dbA (night time).	In house Ambient noise monitoring report as well as approve 3 rd party report is being attached in (Annexure -4). Results are within limit.
vi.	Occupational health surveillance of the worker shall be done on a regular basis and records maintained as per the Factories Act	Occupational Health Surveillance programme is being done as per Factory Rules & records are being maintained as per Factories Act.
vii.	The company shall develop rain water harvesting structure to harvest the rain water for utilization in the lean season besides recharging the ground water table.	We have constructed a pond inside the plant. All rain water are collected in the pond through surface drain and it was utilize for dust suppression, water sprinkling & gardening purpose.
viii.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA /EMP report .Further the company must undertake socio –economic development activities in the surrounding village like community development programme ,educational programme ,drinking water supply and health care etc.	Complying as per EIA/EMP report.

ix.	Requisite funds shall be earmarked towards capital cost	Complied as per documents already
	and recurring cost /annum for environment pollution control measures to implement the conditions stipulated by the Ministry Of Environment, Forest and Climate Change (MoEFCC) as well as the State Government .An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Bhubaneswar. The funds so provide shall not be diverted for any other purpose.	submitted on 10.01.2018.
x.	A copy of clearance letter shall be sent by the proponent to concerned Panchayats, Zila Prishad / Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions / representations, if any were received while processing the proposal. The clearance letter shall also be put on the web site of the Company by the proponent.	Copy of clearance letter had already been Submitted to concern authority and it is also put on the web site of the company.
xi.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Officer of the MoEF&CC at Bhubaneswar. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Is being done.
xii.	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Officer of MoEF&CC, the respective Zonal Office of CPCB and the SPCB .The Regional Office of this Ministry at Bhubaneswar /CPCB/SPCB shall monitor the stipulated conditions.	Is being followed.
xiii.	The environmental statement for each financial year ending 31st March in Form- V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environmental (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the	Environmental statement report for the financial year 2022- 2023 will be submitted in Form-V before 30/09/2023. This will also be uploaded in company's website & will send to all concerned as per EC conditions
	respective Regional Office of the MoEF&CC at Bhubaneswar by e-mail.	EC conditions.

Ferro Alloy Plant

xiv.	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 SPCB and may also be seen at Website of the Ministry of Environment, Forests and climate Change (MoEF&CC) AT http:/envfor.nic.in. This shall be advertised within seven days from the date of issue of the clearance in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional Office at Bhubaneswar.	Already complied. Copy of which Submitted to your office on 10.01.2018.
xv.	Project authorities shall inform the Regional Office as well as the Ministry: i) The date of financial closure. ii)Final approval of the project by the concerned authorities iii) The date of commencing the land development work.	Project to be done out of internal accrual. 1) Received NOC from WBPCB valid up to 31.08.2024. 2) Received Consent to Operate from WBPCB on 30.05.19 & valid up to 31.03.2024. Started on 02.04.2018.







FORMAT NO: ENV/FM/38

Name of the Industry	:	Electro	Ste	el Castings Ltd. (I	Ferro Alloy	Plant)	Туре	of Indi	ustry	:	Ferr	o Alloy	/ Plant		
Address	:	Kashbe	ria,	P.O Shibram N	agar, Hald	ia, Purba	Sampl	ing Da	ate	:	18.1	0.2022	2		
		Medini	our	721635			Period	of Ar	nalysis	:	19.1	0.2022	2 - 19.10.20)22	7 7
							Date o	f Issu	e	:	21.1	0.2022	2		
Sampling Plan &	Pr	ocedure	:	ENV/SOP/01	Deviation	n from the	Samplin	g Met	hod and I	Plan	:	No	Type of Sample	:	Stack Emission
Sample ID No.	:	ENV/26	64/0	oct./A/I		Report N	0. :	EN	7/264/00	t./T	R(A)	/1/22-	23		

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	SEAF - I				
Shape of Stack	:	Circular	Height of S	Stack (mtr.) (from	:	35.0
Materials of Construction	:	M.S.	Stack I.D. (mtr.)	at sampling point	:	1.80
Capacity	:	Rated - 9.0 MVA [Running - 8.1 MVA]	Height of (mtr.) (fro	sampling port om G.L.)	:	30.0
Emission Due to	:	Melting of Coke, Coal, Mn-Ore, Quartz & D	olomite			
Fuel Used	:	Electrically Operated		Permanent Platfor	m &	Ladder : Yes
Working Fuel Consu	mpt					1.100
Pollution Control De	evice	: Bag Filter			- 7	

B. RESULTS

PARAMETERS	UNIT	METHOD NO.		RESULTS
Flue Gas Temperature	°C	IS: 11255 (Part 1)	1:	76.0
Barometric Pressure	mm of Hg.	-	1:1	757.0
Velocity of Gas flow	m/s	IS: 11255 (Part 3)		11.25
Quantity of Gas flow	Nm³/hr.			28489.83
Concentration of SO ₂	mg/Nm ³			161.97
Concentration of NO _x	mg/Nm³	IS: 11255 (Part 7) 2005 & ASTM D 1608-98		61.41
	374	reapproved 2009 : Sec 11 (Vol. 11.07) : 2011		
Concentration of O ₂	% (v/v)	IS 13270 1992 RA 2003	1:1	16.0
Concentration of CO ₂	% (v/v)	IS 13270 1992 RA 2003	1.1	1.6
Concentration of CO	%(v/v)	IS 13270 1992 RA 2003		<1.0
Moisture	%	Emission Control Part - III. CPCB		1.18
Concentration of Particulate	mg/Nm ³			13.26
Matter		3685/D 3685M-98 (reapproved 2005):		10.20
	Flue Gas Temperature Barometric Pressure Velocity of Gas flow Quantity of Gas flow Concentration of SO ₂ Concentration of NO _x Concentration of CO ₂ Concentration of CO ₂ Concentration of CO Moisture Concentration of Particulate	Flue Gas Temperature Barometric Pressure Velocity of Gas flow Quantity of Gas flow Concentration of SO ₂ Concentration of O ₂ Concentration of CO ₃ Moisture Concentration of Particulate **OC mm of Hg. mg/Nm³/hr. mg/Nm³ mg/Nm³ **Ms³/hr. mg/Nm³ **Ms³/hr. mg/Nm³	Flue Gas Temperature	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

Reviewed By:

HAKRABORTY

Dy. Quality Manager

Approved By

Technical Manager

H.O.

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Branch Office: Siliguri ■ Haldia ■ Durgapur ■ Dhanbad ■ Gangtok ■ Port Blair ■ Dehradun ■ New Delhi Overseas

: UAE - Qatar - Netherlands











FORMAT NO: ENV/FM/38

Name of the Industry	:	Electro S	itee	el Castings Ltd. (I	erro Alloy	Plant)	Туре	of I	Industry	•	Ferr	o Alloy	Plant			
Address	:	Kashber	ia,	P.O Shibram N	agar, Haldi	a, Purba	Samp	ling	g Date	:	18.1	0.2022	2			
		Medinip	ur ·	721635			Perio	d of	f Analysis	:	19.1	0.2022	2 - 19.10.20	22		
							Date	of Is	ssue	:	21.1	0.2022	2			٦
Sampling Plan &	Pr	ocedure	:	ENV/SOP/01	Deviation	from the	Samplii	ng N	Method and F	Plan	:	No	Type of Sample	:	Stack Emission	
Sample ID No.	:	ENV/26	4/0	ct./A/II		Report N	0. :	I	ENV/264/0c	t./7	'R(A)	/11/22-	-23			

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	Raw Material Handling System				
Shape of Stack	:	Circular	Height of G. L.)	:	30.0	
Materials of Construction	:	M.S.	Stack I.D. (mtr.)	at sampling point	:	0.6096
Capacity	:	-	Height of (mtr.) (fro	sampling port om G.L.)	:	12.18
Emission Due to	:	Process Activity (Handling of Raw I	Materials)			
Fuel Used	:	N.A.		Permanent Platfor	m &	Ladder : Yes
Working Fuel Const	ımpt	ion : Nil				
Pollution Control D	evice	: Bag Filter				

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.		RESULTS
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	:	45.0
2.	Barometric Pressure	mm of Hg.	-	:	757.0
3.	Velocity of Gas flow	m/s	IS: 11255 (Part 3)	:	18.61
4.	Quantity of Gas flow	Nm³/hr.	IS: 11255 (Part III)		18218.20
5.	Concentration of Particulate	mg/Nm³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D	:	10.93
	Matter		3685/D 3685M-98 (reapproved 2005):		
		Marie Company	Sec. 11 (Vol. 3 11.07) : 2011		

Reviewed By:

Dy. Quality Manager

Approved By;

HOWDHURY Technical Manager

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Overseas : UAE = Qatar = Netherlands

Laboratory









FORMAT NO: ENV/FM/38

Name of the Industry	:	Electro	Ste	el Castings Ltd. (1	Ferro Alloy Plant)	Type of Industry		:	Ferr	o Alloy	Plant		
Address	:				agar, Haldia, Purba	Sampling Date		:	18.1	0.2022	2		
		Medini	our	- 721635		Period of Analysis		:	19.10	0.2022	- 19.10.20)22	
						Date of Issue				0.2022			
Sampling Plan	& Pro	ocedure	:	ENV/SOP/01	Deviation from the	Sampling Method an	d Pl	an	:	No	Type of	:	Stack
C. I IDN		T1111110						-			Sample		Emission
Sample ID No.	:	ENV/26	4/(Oct./A/III	Report N	lo. : ENV/264/	Oct.	/TI	R(A)/	III/22	-23		

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	D. G 250 KVA (Acoustic Enclosu	ire attached)		
Shape of Stack	:	Circular	Height of Stack (mtr.) (from G. L.)	:	10.36
Materials of Construction	:	M.S.	Stack I.D. at sampling point (mtr.)	:	0.1524
Capacity	:	250 KVA	Height of sampling port (mtr.) (from G.L.)	:	7.92
Emission Due to	:	Combustion of H.S.D	(((((((((((((((((((
Fuel Used	:	H.S.D	Permanent Plati	orm &	Ladder : Yes
Working Fuel Consu	impt	on : 57 litr./hr.	2 Of Marient Little	or in Q	Laudel . 1es
Pollution Control De					

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.		RESULTS
1. 2. 3. 4. 5.	Flue Gas Temperature Barometric Pressure Velocity of Gas flow Quantity of Gas flow Concentration of SO ₂ Concentration of NO _x	°C mm of Hg. m/s Nm³/hr. mg/Nm³ mg/Nm³	IS: 11255 (Part 1) IS: 11255 (Part 3) IS: 11255 (Part III) IS 11255 (Part 2) 1985 RA 2003 IS: 11255 (Part 7) 2005 & ASTM D 1608-98	: : : : : : : : : : : : : : : : : : : :	167.0 757.0 16.63 735.53 61.44 78.50
0.	Concentration of CO ₂ Concentration of O ₂ Concentration of CO Concentration of Particulate Matter	% (v/v) % (v/v) %(v/v) mg/Nm ³	reapproved 2009: Sec 11 (Vol. 11.07): 2011 IS 13270 1992 RA 2003 IS 13270 1992 RA 2003 IS 13270 1992 RA 2003 IS 11255 (Part - 1) 1985 RA 2003,& ASTM D 3685/D 3685M-98 (reapproved 2005): Sec. 11 (Vol. 3 11.07): 2011		6.8 12.0 <1.0 25.17

Reviewed By:

KRABORTY

Dy. Quality Manager

Approved By:

Dr. SUMIT CHOWDHURY Technical Manager

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: UAE = Qatar = Netherlands Overseas













FORMAT NO: ENV/FM/38

Name of the Industry	:	Electro S	teel Castings	Ltd. (Fe	rro Alloy Plant)	1	Гуре	of Industry	У	:	Fe	erro Alloy Plant
Address	:			am Nag	ar, Haldia, Purba	-	-	ing Date		:	13	3.01.2023
		Medinipi	ır - 721635			I	Perioc	of Analys	sis	:	14	4.01.2023 - 16.01.2023
						I	Date o	f Issue		:	18	3.01.2023
Sampling Plan & Procedure	:	ENV/SOI	P/01		tion from the Sampling od and Plan	:	No	Type of	Samp	le	:	Stack Emission
Sample Condition	:	Sealed	Sample ID N	0.	ENV/13/Jan./A/I		Re	port No.	ENV	/13	/Ja	n./TR(A)/I/22-23

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	SEAF (No. 1)			
Shape of Stack	:	Circular	Height of Stack (mtr.) (from G. L.)	:	35.0
Materials of Construction	:	M.S.	Stack I.D. at sampling point (mtr.)	:	1.80
Capacity	:	Rated - 9.0 MVA (Running - 9.0 MVA)	Height of sampling port (mtr.) (from G.L.)	:	30.0
Emission Due to	:	Melting of Coke / Coal, Mr-Ore, Quartzite & Dolo	mite		
Fuel Used	:	N.A. (Electrically Operated)	Permanent Platform & Ladder	rT	: Yes
Working Fuel Consu	mpt	ion : Nil			
Pollution Control De	evice	: Bag Filter		-	

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.		RESULTS
1.	Flue Gas Temperature	°C	IS: 11255 (Part 1)	1:	83.0
2.	Barometric Pressure	mm of Hg.		1:1	755.0
3.	Velocity of Gas flow	m/s	IS: 11255 (Part 3)		15.23
4.	Quantity of Gas flow	Nm³/hr.	IS: 11255 (Part III)		113537.79
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2): 2019		33.75
6.	Concentration of NO _x	mg/Nm³	IS 11255 (Part 7): 2017 / ASTM D 1608-98, Sec. 11 (Vol. 11.07): 2017		26.21
7.	Concentration of CO ₂	% (v/v)	IS 13270 : 2019		1.8
8.	Concentration of O ₂	% (v/v)	EPA Method 3: 2017		16.8
9.	Concentration of CO	%(v/v)	IS 13270 : 2019		<1.0
10.	Concentration of Particulate Matter	mg/Nm³	IS 11255 (Part - 1): 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005): Sec. 11 (Vol.11.07): 2017		10.76

Reviewed By:

INDRANI BHATTACHARYA

Dy. Technical Manager, Chemical

Authorised Signatory

Dr. SUMIT CHOWDHURY
Technical Manager

Page 1 of 3

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FORMAT NO: ENV/FM/38

Name of the Industry	:	Electro S	teel Castings I	Ltd. (Fe	rro Alloy Plant)		Гуре	of Industry	V	:	Ferro Alloy Plant
Address	:			am Nag	ar, Haldia, Purba	5	Samp	ing Date		:	13.01.2023
		Medinipu	ır - 721635			F	Perio	d of Analys	sis	:	14.01.2023 - 16.01.2023
					77	I	Date o	of Issue		:	18.01.2023
Sampling Plan & Procedure	:	ENV/SOF	P/01		tion from the Sampling od and Plan	:	No	Type of	Sampl	е	: Stack Emission
Sample Condition	:	Sealed	Sample ID N	0.	ENV/13/Jan./A/II	- 2	Re	port No.	ENV	/13	3/Jan./TR(A)/II/22-23

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	Raw Material Handling System			
Shape of Stack	:	Circular	Height of Stack (mtr.) (from G. L.)	:	30.0
Materials of Construction	:	M.S.	Stack I.D. at sampling point (mtr.)	:	0.6096
Capacity	:	T	Height of sampling port (mtr.) (from G.L.)	:	12.18
Emission Due to	:	Process Activity (Handling of Raw Materials)			
Fuel Used	:	N.A.	Permanent Platform & Ladde	er	: Yes
Working Fuel Consu	ımpt	ion : Nil			1 - 1
Pollution Control De	evice	: Bag Filter			

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.		RESULTS
1.	Flue Gas Temperature	°C	IS: 11255 (Part 1)	1:	33.8
2.	Barometric Pressure	mm of Hg.		:	755.0
3.	Velocity of Gas flow	m/s	IS: 11255 (Part 3)	:	22.06
ŀ.	Quantity of Gas flow	Nm³/hr.	IS : 11255 (Part III)	:	22394.60
5.	Concentration of Particulate	mg/Nm³	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D	:	29.50
	Matter		3685M-98 (reapproved 2005) : Sec. 11		
			(Vol.11.07): 2017		

Reviewed By:

Dean' Bhattacharya

Dy. Technical Manager, Chemical

Authorised Signatory:

Dr. SUMIT CHOV DHURY Technical Manager

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FORMAT NO: ENV/FM/38

Name of the Industry	:	Electro S	teel Castings I	td. (F	err	o Alloy Plant)		Тур	oe of	f Industry	7	:	Fe	erro Alloy Plant
Address	:		a, P.O. – Shivra ur - 721635	am Na	aga	r, Haldia, Purba		Per	iod	ng Date of Analys Issue	is	: :	14	3.01.2023 4.01.2023 - 16.01.2023 3.01.2023
Sampling Plan & Procedure	:	ENV/SOI	2/01			on from the Sampling I and Plan	1:	-	lo	Type of	Sampl	e	:	Stack Emission
Sample Condition	:	Sealed	Sample ID N	0.	:	ENV/13/Jan./A/III			Rep	ort No.	ENV	/13	/Ja	n./TR(A)/III/22-23

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	D. G 250 KVA (Acoustic Enclosure attached)			
Shape of Stack	:	Circular	Height of Stack (mtr.) (from G. L.)	:	10.36
Materials of Construction	:	M.S.	Stack I.D. at sampling point (mtr.)	1:	0.1524
Capacity	:	250 KVA	Height of sampling port (mtr.) (from G.L.)	:	7.92
Emission Due to	:	Combustion of H.S.D			
Fuel Used ·	:	H.S.D	Permanent Platform & Lad	der	: Yes
Working Fuel Consu	ımpt	on : 57 litr./hr.			1,1100
Pollution Control De	evice	: Nil			

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.		RESULTS
1.	Flue Gas Temperature	°C	IS: 11255 (Part 1)	1:	109.0
2.	Barometric Pressure	mm of Hg.			755.0
3.	Velocity of Gas flow	m/s	IS: 11255 (Part 3)		12.80
4.	Quantity of Gas flow	Nm³/hr.	IS: 11255 (Part III)		650.48
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2): 2019		15.28
6.	Concentration of NO _x	mg/Nm³	IS 11255 (Part 7): 2017 / ASTM D 1608-98, Sec. 11 (Vol. 11.07): 2017	:	20.17
7.	Concentration of CO ₂	% (v/v)	IS 13270 : 2019		7.0
В.	Concentration of O ₂	% (v/v)	EPA Method 3: 2017	1:1	12.4
9.	Concentration of CO	%(v/v)	IS 13270 : 2019		<1.0
10.	Concentration of Particulate Matter	mg/Nm³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017		24.93

Reviewed By:

Dy. Technical Manager, Chemical

Authorised Signatory:

Technical Manager

<End of Report>

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AMBIENT AIR QUALITY

SUMMARY REPORT

October 2022 - March 2023

Electrosteel Castings Ltd.
Ferro Alloy Plant
Haldia, Kasberia, P.O. – Shivramnagar,
Pin - 721635









Electrosteel Castings Limited (Ferro Alloy Plant) Haldia, Kasberia, P.O. – Shivramnagar, Pin – 721 635

SUMMARY REPORT – OCTOBER, 2022

Panipeters	Dak	shin Ka	shberi	ia- Sout	th side o	f the Fac	ctory (0	utside	Factor	y Prem	ises)		Limit as
Parameters	08.10.2022	11.10.2022	13.10.2022	15.10.2022	17.10.2022	19.10.2022	21.10.2022	24.10.2022	26.10.2022	29.10.2022	31.10.2022	Average	per NAAQ Standard s (24 hours) (Schedu e VII)
PM2.5 (μg/m3)	38.20	42.60	41.80	43.60	40.20	44.80	42.80	43.60	41.80	42.60	40.60	42.05	60
PM10 (μg/m3)	68.20	72.60	71.80	70.20	71.80	76.20	71.50	70.20	74.10	76.50	72.80	72.35	100
SO2 (μg/m3)	6.20	7.80	6.50	5.80	5.20	4.80	5.20	4.80	5.60	5.80	6.20	5.81	80
NOx (μg/m3)	25.0	26.50	21.80	20.0	23.50	25.0	22.80	21.80	22.50	20.0	21.80	22.79	80
Parameters		Ma	in Gat	e of Fer	ro Alloy	Plant (l	nside F	actory	Premis	ses)			Limit as
Parameters	08.10.2022	11.10.2022	13.10.2022	15.10.2022	17.10.2022	19.10.2022	21.10.2022	24.10.2022	26.10.2022	29.10.2022	31.10.2022	Average	per NAAQ Standard s (24 hours) (Schedul e VII)
PM2.5 (μg/m3)	46.20	45.20	41.60	45.80	44.20	43.80	48.20	46.80	41.80	42.60	40.80	44.27	60
PM10 (μg/m3)	76.20	72.80	75.10	78.10	76.50	72.60	79.50	72.80	73.60	78.50	71.20	75.17	100
SO2 (μg/m3)	8.20	7.60	6.80	6.20	6.50	6.20	5.80	5.20	6.80	6.50	6.20	6.55	80
NOx (µg/m3)	32.50	30.0	31.50	30.0	31.80	35.0	30.0	28.50	26.50	25.0	23.50	29.48	80
Parameter	1 19	Kash	beria U	Ittarpa	lly (Nort	th Side)	(Outsid	e Facto	ry Prei	mises)			Limit as
Parameters	08.10.2022	11.10.2022	13.10.2022	15.10.2022	17.10.2022	19.10.2022	21.10.2022	24.10.2022	26.10.2022	29.10.2022	31.10.2022	Average	per NAAQ Standard s (24 hours) (Schedu e VII)
PM2.5 (μg/m3)	42.50	41.80	46.20	40.80	38.50	38.20	39.50	40.10	42.60	41.80	40.50	41.14	60
PM10 (μg/m3)	73.20	70.20	73.50	72.80	70.20	74.50	72.80	70.30	68.50	75.20	70.10	71.94	100
SO2 (μg/m3)	6.80	5.80	6.20	5.20	4.80	6.20	6.80	5.80	5.20	4.80	5.20	5.71	80
NOx (µg/m3)	26.50	25.0	23.5	20.0	21.50	23.50	25.0	23.50	20.0	21.50	20.0	22.73	80
Parapeters	. 01	Kishi	mat Sh	ibramn	agar We	est Side	(Outsid	e Facto	ry Prei	nises)		4)	Limit as
Parameters	08.10.2022	11.10.2022	13.10.2022	15.10.2022	17.10.2022	19.10.2022	21.10.2022	24.10.2022	26.10.2022	29.10.2022	31.10.2022	Average	per NAAQ Standard s (24 hours) (Schedu e VII)
PM2.5 (μg/m3)	39.50	41.20	40.20	43.50	42.80	43.50	41.80	40.20	45.10	42.80	45.80	42.40	60
PM10 (μg/m3)	70.20	69.50	72.60	72.50	74.80	73.20	70.50	71.20	73.50	74.50	76.20	72.61	100
SO2 (μg/m3)	6.20	5.80	6.80	5.20	5.80	5.20	4.80	5.60	5.20	5.60	4.80	5.55	80
NOx (μg/m3)	25.0	23.50	26.50	23.50	20.0	21.50	20.0	23.50	21.50	20.0	18.50	22.14	80

Continued page - 2

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SUMMARY REPORT - NOVEMBER, 2022

Danamatan		kshin K	ashbei	ria- Sou	ıth sid	e of th	e Fact	ory (O	utside l	Factory	Prem	ises)		Limit a
Parameters	02.11.2022	04.11.2022	08.11.2022	10.11.2022	12.11.2022	14.11.2022	16.11.2022	18.11.2022	21.11.2022	24.11.2022	26.11.2022	29.11.2022	Average	per NAAQ Standar s (24 hours) (Schedi e VII)
PM2.5 (μg/m3)	36.20	38.20	34.50	32.80	31.50	32.80	33.60	30.80	34.50	38.20	42.60	41.50	35.60	60
PM10 (μg/m3)	72.50	76.20	74.50	71.80	70.60	73.20	74.50	68.20	64.50	67.80	75.20	78.50	72.29	100
SO2 (μg/m3)	0.20	5.80	5.20	5.80	5.20	6.50	5.80	5.20	4.80	6.80	7.60	7.80	6.058	80
NOx (μg/m3)	25.0	22.50	23.50	25.0	23.50	25.0	26.50	25.0	23.50	26.50	28.20	26.50	25.058	80
	1	Ma	ain Gat	e of Fe	rro All	oy Pla	nt (In	side Fa	actory F	remise	es)			Limit as
Parameters	02.11.2022	04.11.2022	08.11.2022	10.11.2022	12.11.2022	14.11.2022	16.11.2022	18.11.2022	21.11.2022	24.11.2022	26.11.2022	29.11.2022	Average	per NAAQ Standard s (24 hours) (Schedu e VII)
PM2.5 (μg/m3)	36.20	38.50	32.60	41.60	40.50	39.20	40.60	43.80	45.60	38.20	34.50	26.80	38.175	
PM10 (μg/m3)	76.20	78.50	71.60	79.20	74.50	73.20	74.50	75.20	78.20	74.50	75.20	78.50	75.775	100
SO2 (μg/m3)	8.20	7.80	6.80	9.20	5.80	6.20	8.50	7.80	7.60	7.20	8.20	8.50	7.65	80
NOx (µg/m3)	32.50	30.0	26.50	35.0	26.50	28.20	30.0	28.50	26.50	25.0	31.80	32.50	29.42	80
		Kashl	beria U	Ittarpa	lly (No	rth Si	de) (0	utside	Factor	y Prem	ises)			Limit
Parameters	02.11.2022	04.11.2022	08.11.2022	10.11.2022	12.11.2022	14.11.2022	16.11.2022	18.11.2022	21.11.2022	24.11.2022	26.11.2022	29.11.2022	Average	Limit as per NAAQ Standard s (24 hours) (Schedul
PM2.5 (μg/m3)	32.50	36.20	38.50	41.20	30.80	42.60	39.50	32.50	34.50	32.80	31.60	30.80	35.29	e VII) 60
PM10 (μg/m3)	63.20	75.10	78.20	74.50	70.10	78.20	76.50	73.20	75.80	70.10	72.60	68.50	73.0	100
SO2 (μg/m3)	5.80	6.20	6.80	6.50	5.20	8.50	8.20	7.80	7.80	6.80	7.20	6.50	6.94	80
NOx (μg/m3)	23.50	25.0	26.50	20.0	18.50	30.0	28.50	25.0	26.50	25.0	23.50	20.0	24.33	80
		Kishn	nat Shi	bramn	agar V	Vest si	de (O	utside	Factory	Premi	ises)		-	Limit as
Parameters	02.11.2022	04.11.2022	08.11.2022	10.11.2022	12.11.2022	14.11.2022	16.11.2022	18.11.2022	21.11.2022	24.11.2022	26.11.2022	29.11.2022	Average	per NAAQ Standard s (24 hours) (Schedul
PM2.5 (μg/m3)	36.20	34.80	30.10	32.80	32.60	38.50	34.10	41.60	39.50	31.60	35.80	32.80	35.03	e VII)
PM10 (μg/m3)	71.20	76.50	68.50	63.20	64.50	71.50	72.60	78.50	73.50	71.80	68.50	62.50	70.23	100
O2 (μg/m3)	6.80	7.20	6.50	6.20	6.80	7.20	7.50	7.80	6.80	6.50	6.20	5.80	6.775	80
Ox (μg/m3)	25.0	26.50	23.50	21.80	25.0	28.50	25.0	28.50	21.80	20.0	18.50	16.80	23.41	80

Continued page - 3

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SUMMARY REPORT – DECEMBER, 2022

	Dak	shin Ka	ashber						utside F		Premi	ses)		Limit as
Parameters	01.12.2022	03.12.2022	05.12.2022	07.12.2022	09.12.2022	13.12.2022	15.12.2022	17.12.2022	19.12.2022	22.12.2022	24.12.2022	28.12.2022	Average	per NAAQ Standard s (24 hours) (Schedu e VII)
PM2.5 (μg/m3)	41.30	44.20	31.80	30.50	36.20	46.80	42.80	40.30	45.20	43.80	39.50	42.60	40.417	60
PM10 (μg/m3)	73.20	78.50	67.20	64.50	63.80	78.20	76.20	71.50	74.20	70.10	68.50	71.20	71.425	100
SO2 (μg/m3)	6.80	7.60	8.20	7.60	9.50	9.20	11.20	12.50	6.80	7.20	9.50	9.20	8.775	80
NOx (µg/m3)	23.50	25.0	26.80	30.0	25.0	23.50	26.20	32.50	26.80	29.50	32.50	30.0	27.608	80
	Y	Ma	in Gate	e of Fe	rro All	oy Pla	nt (In	side Fa	ctory P	remis	es)			Limit as
Parameters	01.12.2022	03.12.2022	05.12.2022	07.12.2022	09.12.2022	13.12.2022	15.12.2022	17.12.2022	19.12.2022	22.12.2022	24.12.2022	28.12.2022	Average	per NAAQ Standard s (24 hours) (Schedul e VII)
PM2.5 (μg/m3)	32.50	46.80	42.30	39.50	38.20	36.20	42.80	40.10	42.60	38.50	39.20	42.80	40.125	60
PM10 (μg/m3)	78.20	82.50	80.10	75.20	79.50	78.20	81.50	80.60	78.20	73.20	76.20	82.60	78.83	100
SO2 (μg/m3)	8.50	11.80	12.50	7.50	7.20	6.80	9.80	8.50	7.80	6.80	6.20	12.50	8.825	80
NOx (µg/m3)	32.50	36.20	38.50	31.80	32.50	30.0	34.50	30.0	35.20	31.80	28.50	30.0	32.625	80
		Kashl	eria U	ttarpa	lly (No	rth Si	de) (0	utside	Factor	y Prem	ises)			Limit as
Parameters	01.12.2022	03.12.2022	05.12.2022	07.12.2022	09.12.2022	13.12.2022	15.12.2022	17.12.2022	19.12.2022	22.12.2022	24.12.2022	28.12.2022	Average	per NAAQ Standard s (24 hours) (Schedul e VII)
PM2.5 (μg/m3)	36.20	38.50	32.10	30.80	33.60	38.20	30.80	36.50	31.80	34.20	31.80	32.60	33.925	60
PM10 (μg/m3)	76.20	78.50	71.50	70.20	74.50	78.20	68.50	71.50	70.10	75.20	71.50	72.80	73.225	100
SO2 (μg/m3)	6.80	7.20	6.50	7.80	7.60	8.20	6.50	7.20	6.80	7.20	7.50	8.20	7.292	80
NOx (µg/m3)	26.50	28.20	25.0	28.50	29.20	30.0	26.50	28.50	23.50	26.80	26.50	30.0	27.43	80
		Kishn	nat <mark>S</mark> hi	bramn	agar V	Vest si	de (O	utside	Factory	Prem	ises)			Limit as
Parameters	01.12.2022	03.12.2022	05.12.2022	07.12.2022	09.12.2022	13.12.2022	15.12.2022	17.12.2022	19.12.2022	22.12.2022	24.12.2022	28.12.2022	Average	per NAAQ Standard s (24 hours) (Schedul e VII)
PM2.5 (μg/m3)	35.20	34.90	30.10	35.80	41.30	36.50	38.20	32.60	33.50	34.10	30.80	32.50	34.625	60
PM10 (μg/m3)	78.20	74.60	70.10	75.20	81.50	71.60	75.20	73.80	74.50	76.80	71.50	73.80	74.73	100
SO2 (μg/m3)	7.80	7.20	6.80	7.80	8.50	7.20	7.80	6.50	6.20	7.20	. 6.80	6.80	7.217	80
NOx (μg/m3)	25.0	23.50	21.80	26.50	28.50	23.50	25.0	23.50	21.80	25.0	23.50	25.0	24.383	80

Continued page - 4

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SUMMARY REPORT - JANUARY, 2023

	Dak	shin Ka	shber	ia- Sou	th side	of the	e Facto	ory (O	utside I	actory	Premi	ises)		Limit as
Parameters	02.01.2023	04.01.2023	06.01.2023	10.01.2023	12.01.2023	14.01.2023	16.01.2023	19.01.2023	21.01.2023	24.01.2023	27.01.2023	30.01.2023	Average	per NAAQ Standar s (24 hours) (Schedu e VII)
PM2.5 (μg/m3)	36.20	39.50	35.20	32.60	30.10	37.80	35.20	34.60	35.10	33.60	36.80	31.80	34.88	60
PM10 (μg/m3)	76.20	80.20	74.60	70.10	68.20	79.50	76.50	73.20	74.50	69.50	63.20	61.50	72.27	100
SO2 (μg/m3)	7.20	6.80	7.60	5.20	4.80	5.60	7.20	6.20	6.80	6.20	5.80	5.20	6.22	80
NOx (µg/m3)	30.0	26.50	28.20	25.0	26.50	21.80	28.20	26.50	25.0	24.20	25.0	23.50	25.87	80
Mining real	23.55	Ma	in Gate	e of Fe	rro All	oy Pla	nt (In:	side Fa	ctory P	remise	es)	and the	15.23	Limit as
Parameters	02.01.2023	04.01.2023	06.01.2023	10.01.2023	12.01.2023	14.01.2023	16.01.2023	19.01.2023	21.01.2023	24.01.2023	27.01.2023	30.01.2023	Average	per NAAQ Standard s (24 hours) (Schedu e VII)
PM2.5 (μg/m3)	45.20	42.80	39.20	42.80	41.50	43.60	44.80	39.50	40.10	43.80	41.20	43.80	42.36	60
PM10 (μg/m3)	86.20	82.50	80.10	84.60	78.50	83.20	80.10	76.20	78.50	81.50	79.20	83.50	81.18	100
SO2 (μg/m3)	6.80	5.20	5.60	8.20	8.60	8.10	9.50	7.20	7.80	7.50	6.50	8.60	7.47	80
NOx (μg/m3)	26.50	25.0	28.50	32.50	35.0	31.80	35.0	28.50	26.20	25.0	23.50	33.80	29.28	80
NOX HEETERS	132,50	Kashl	oeria U	ttarpa	lly (No	rth Si	de) (0	utside	Factor	y Prem	ises)	Etaka:	39.14	Limit as
Parameters	02.01.2023	04.01.2023	06.01.2023	10.01.2023	12.01.2023	14.01.2023	16.01.2023	19.01.2023	21.01.2023	24.01.2023	27.01.2023	30.01.2023	Average	per NAAQ Standard s (24 hours) (Schedu e VII)
PM2.5 (μg/m3)	36.20	38.20	40.10	35.20	36.20	42.80	34.50	31.80	36.50	34.80	32.10	35.20	36.13	60
PM10 (μg/m3)	73.20	78.50	81.20	74.20	76.50	80.10	72.50	71.60	78.20	*75:20	74.50	76.20	75.99	100
SO2 (μg/m3)	6.80	5.20	6.20	7.50	6.20	5.80	5.20	6.50	7.20	6.80	5.20	5.80	6.20	80
NOx (μg/m3)	26.50	25.0	23.50	21.80	20.0	25.0	23.50	26.50	21.80	20.0	18.50	20.0	22.68	80
*Ox (3.5/21)	25.00	Kishn	nat Shi	bramn	agar V	Vest s	ide (O	utside	Factor	y Prem	ises)	STATE.	X8.39	Limit as
Parameters	02.01.2023	04.01.2023	06.01.2023	10.01.2023	12.01.2023	14.01.2023	16.01.2023	19.01.2023	21.01.2023	24.01.2023	27.01.2023	30.01.2023	Average	per NAAQ Standard s (24 hours) (Schedul e VII)
PM2.5 (μg/m3)	32.60	35.20	30.10	32.80	34.50	35.10	33.60	34.80	38.20	30.50	36.80	41.50	34.64	60
PM10 (μg/m3)	73.20	78.50	71.20	72.60	74.50	76.20	74.80	75.20	78.50	71.20	76.50	80.10	75.21	100
SO2 (μg/m3)	5.80	5.20	4.80	5.60	5.20	6.20	5.80	5.20	6.20	6.50	5.20	5.80	5.63	80
NOx (µg/m3)	26.50	23.50	21.80	25.0	23.50	25.0	26.50	24.20	21.50	23.80	20.0	21.50	23.57	80

Continued page - 5

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SUMMARY REPORT - FEBRUARY, 2023

Parameters	Dak	kshin K	ashber	ia- Sou	th side	of the Fa	ctory ((Outside	Factor	y Prem	ises)		Limit a
	02.02.2023	04.02.2023	06.02.2023	08.02.2023	10.02.2023	13.02.2023	16.02.2023	18.02.2023	21.02.2023	23.02.2023	27.02.2023	Average	Standar s (24 hours (Schedi
PM2.5 (μg/m3)	36.20	39.20	35.10	36.80	41.60	38.20	34.10	36.20	38.10	39.50	46.10	38.28	60
PM10 (μg/m3)	62.80	74.20	72.60	70.20	76.50	69.20	64.80	67.30	70.30	72.60	78.50	70.82	100
SO2 (μg/m3)	6.80	7.20	6.50	6.80	7.20	6.50	5.80	6.20	7.20	7.60	7.80	6.87	80
NOx (μg/m3)	23.50	26.50	20.0	23.50	25.0	24.20	20.0	23.80	36.20	26.50	28.20	25.22	80
Tuesdantans	-375	Ma	ain Gat	e of Fe	ro Alloy	Plant (Inside F	actory	Premis	ses)			Limit or
Parameters	02.02.2023	04.02.2023	06.02.2023	08.02.2023	10.02.2023	13.02.2023	16.02.2023	18.02.2023	21.02.2023	23.02.2023	27.02.2023	Average	Limit as per NAAQ Standard s (24 hours) (Schedu e VII)
PM2.5 (μg/m3)	42.50	46.20	45.10	41.80	42.60	51.60	49.80	52.80	53.80	48.50	55.10	48.16	
PM10 (μg/m3)	78.20	76.50	72.80	73.50	71.50	79.20	68.50	74.20	76.20	70.10	78.50	74.47	100
SO2 (μg/m3)	8.20	7.80	6.80	7.60	6.80	7.80	6.20	8.50	7.90	7.60	8.20	7.58	80
NOx (μg/m3)	32.50	30.0	28.50	26.50	25.0	28.50	23.50	32.50	30.0	28.50	35.0	29.14	80
		Kash	beria U	ttarpa	lly (Nort	th Side)	(Outsid	e Facto	ry Prer	nises)		1 13	
Parameters	02.02.2023	04.02.2023	06.02.2023	08.02.2023	10.02.2023	13.02.2023	16.02.2023	18.02.2023	21.02.2023	23.02.2023	27.02.2023	Average	Limit as per NAAQ Standard s (24 hours) (Schedule e VII)
PM2.5 (μg/m3)	36.20	34.50	42.60	41.80	40.60	36.20	37.20	32.60	42.60	48.10	36.20	38.96	60
PM10 (μg/m3)	69.20	71.60	78.50	73.20	71.50	65.20	67.50	63.20	72.50	76.50	70.10	70.82	100
SO2 (μg/m3)	6.20	6.80	7.20	6.80	6.20	5.80	6.20	5.80	7.20	8.60	6.50	6.66	80
NOx (μg/m3)	26.50	25.0	28.20	26.50	25.0	23.50	25.0	22.80	26.50	28.50	21.80	25.39	80
	1	Kishr	nat Shi	bramn	agar We	est side (Outside	Factor	y Pren	nises)	1 3		Limites
Parameters	02.02.2023	04.02.2023	06.02.2023	08.02.2023	10.02.2023	13.02.2023	16.02.2023	18.02.2023	21.02.2023	23.02.2023	27.02.2023	Average	Limit as per NAAQ Standard s (24 hours) (Schedul
PM2.5 (μg/m3)	36.20	38.50	42.60	41.20	36.50	32.80	34.20	33.60	37.20	38.50	41.20	37.50	e VII) 60
PM10 (μg/m3)	69.20	72.50	78.10	71.20	68.50	61.20	69.20	64.50	75.60	70.20	76.50	70.61	100
SO2 (μg/m3)	6.20	6.80	7.20	6.80	6.20	5.80	6.20	5.80	6.20	6.80	7.20	6.47	80
NOx (μg/m3)	23.50	25.0	26.50	25.0	20.0	18.50	23.50	21.80	23.50	26.50	28.20	23.82	80

Continued page - 6

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SUMMARY REPORT - MARCH, 2023

	Daks	hin Ka	shberi	a- Sout	h side	of the	Facto	ry (Ou	tside F	actory	Premi	ses)		Limit as
Parameters	02.03.2023	04.03.2023	06.03.2023	08.03.2023	10.03.2023	14.03.2023	16.03.2023	18.03.2023	21.03.2023	24.03.2023	27.03.2023	29.03.2023	Average	NAAQ Standard s (24 hours) (Schedul e VII)
PM2.5 (μg/m3)	39.80	41.60	44.50	49.20	46.50	40.20	38.50	42.60	45.10	38.50	43.50	49.10	43.26	60
PM10 (μg/m3)	69.20	67.50	76.20	79.50	73.20	70.10	65.20	73.20	78.20	69.50	72.10	76.20	72.51	100
SO2 (μg/m3)	6.20	7.50	8.20	9.20	6.50	7.60	6.20	7.20	6.80	6.20	5.80	6.20	6.97	80
NOx (μg/m3)	26.50	28.20	30.0	31.50	25.0	26.50	25.0	29.20	25.0	23.50	21.80	25.0	26.43	80
		Ma	in Gate	of Fer	ro Alle	oy Pla	nt (Ins	side Fa	ctory P	remis	es)		4	Limit as
Parameters	02.03.2023	04.03.2023	06.03.2023	08.03.2023	10.03.2023	14.03.2023	16.03.2023	18.03.2023	21.03.2023	24.03.2023	27.03.2023	29.03.2023	Average	per NAAQ Standard s (24 hours) (Schedul e VII)
PM2.5	42.50	46.80	52.60	49.50	51.80	47.20	43.60	41.80	39.50	53.20	51.80	49.50	47.48	60
(μg/m3) PM10 (μg/m3)	76.20	78.50	80.10	74.50	79.20	78.20	73.50	72.80	71.50	81.20	79.50	75.20	76.70	100
SO2 (μg/m3)	9.20	11.50	8.50	7.20	9.50	8.60	7.80	6.80	6.20	12.50	11.80	9.20	9.07	80
NOx (μg/m3)	30.0	32.50	28.20	26.50	32.50	31.80	28.50	26.50	25.0	35.0	32.5	30.0	29.92	80
		Kashl	eria U	ttarpa	lly (No	rth Si	de) (0	utside	Factor	y Pren	nises)		4.	Limit as
Parameters	02.03.2023	04.03.2023	06.03.2023	08.03.2023	10.03.2023	14.03.2023	16.03.2023	18.03.2023	21.03.2023	24.03.2023	27.03.2023	29.03.2023	Average	per NAAQ Standard s (24 hours) (Schedul e VII)
PM2.5	43.20	44.80	39.50	37.20	48.20	42.50	43.80	51.20	49.50	38.20	39.50	46.20	43.65	60
(μg/m3) PM10 (μg/m3)	78.20	77.10	69.50	63.80	73.50	72.80	73.20	79.10	67.50	62.80	61.80	76.20	71.29	100
SO2 (μg/m3)	8.20	9.50	6.20	6.80	6.30	7.20	7.80	8.20	6.50	6.20	6.80	7.20	7.24	80
NOx (μg/m3)	26.20	30.0	25.0	26.50	23.50	29.20	26.50	30.0	25.0	23.50	26.5	28.50	26.70	80
		Kishı	1	ibramr	agar V	West s	ide (O	utside	Factor	y Pren	ises)			Limit as
Parameters	02.03.2023	04.03.2023	06.03.2023	08.03.2023	10.03.2023	14.03.2023	16.03.2023	18.03.2023	21.03.2023	24.03.2023	27.03.2023	29.03.2023	Average	per NAAQ Standard s (24 hours) (Schedu e VII)
PM2.5	43.20	41.50	46.20	48.50	42.60	39.50	49.20	42.80	39.50	51.20	50.10	53.50	45.65	
(μg/m3) PM10 (μg/m3)	73.20	71.60	74.50	78.20	76.80	71.50	73.20	68.50	63.20	78.20	74.50	76.20	73.30	100
SO2 (μg/m3)	7.20	6.80	7.40	8.20	6.80	6.20	7.60	6.20	5.80	7.60	7.20	6.80	6.98	80
NOx (μg/m3)	25.0	23.50	26.20	28.50	23.50	21.80	29.20	23.50	21.80	30.0	23.50	25.0	25.13	80

Date: 01.04.2023

H.O.

Authorized Signatory:

Dr. AJOY PAUL

: 63/B, Rastraguru Avenue, Kolkata - 700028 (033-25792891/25497490, Fax : 033-25299141

Laboratory : 189,190&192 Rastraguru Avenue, Kolkata - 700028 (033-25792889

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Branch Office : * Siliguri * Haldia * Durgapur * Dhanbad * Gangtok * Port Blair * Dehradun * New Delby

(2) Fer

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1.	Name of the Industry/Factory/Company	:	Electro Steel Castings Limited (Ferro Alloy Plant)
П.	Address		Works - Kashberia, P.O - Shivramnagar, Haldia, District - PurbaMedinipore, Pin - 721635
III.	Date of Sampling	:	09/12/2022
IV.	Reporting Date		26/12/2022
V.	Report No	:	ENV/353/M/(TR)N/22-23
VI.	Method No	:	IS 15575 (Part 2), 2022
VII.	Time of Duration of Noise	:	20 Minutes
VIII.	Height from Ground Level		4feet
IX.	Distance of Source	:	3 Meter
X.	Type of Industry	:	Ferro Alloy Plant
XI.	Sample Monitoring by		Mr. Kaushik Podder

				N	ONITOR	ING IN FE	RRO-ALL	OY PLANT	(DAY TIN	ME)					
SI. No.	Location	7:00 A.M	52 9:00 A.M	53 11:00 A.M	54 1:00 P.M	S5 3:00 P.M	56 5:00 P.M	57 6:00 P.M	58 7:00 P.M	59 8:00 P.M	9:00 P.M	Min dB(A)	Max dB(A)	Average dB(A	Leq dB(A)
1.	Main Gate (West Side)	63.5	62.9	60.5	61.4	63.3	62.8	61.9	60.5	59.9	60.4	59.9	63.5	61.71	61.90
2.	East Side Boundary Wall	60.4	58.4	61.5	62.3	61.0	60.8	62.4	63.7	62.9	62.6	58.4	63.7	61.60	61.82
3.	South Side Boundary Wall (Towards COP Coal Shed)	70.2	69.7	69.1	68.4	71.2	71.8	70.0	68.5	64.3	63.9	63.9	71.8	68.71	69.31
4.	North Side Boundary Wall (Towards Pattern Shop)	67.2	68.4	63.5	67.7	69.2	69.6	67.5	66.6	67.8	63.1	63.1	69.6	67.53	67.48
5.	Limit	75								T. A.					

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				M	ONITORIN	NG IN FER	RO-ALLO	Y PLANT	(NIGHT TI	ME)					
SI. No.	Location	S1 1.0:00 P.M	52 10:30 P.M	S3 11:00 P.M	S4 11:30 P.M	S5 12:00 P.M	\$6 12:30 A.M	57 1:00 A.M	\$8 1:30 A.M	59 2:00 A.M	S10 2:30 A.M	Min dB(A)	Max dB(A)	Average dB(A	Leq dB(A)
1.	Main Gate (West Side)	60.4	61.2	59.4	58.3	57.5	60.0	59.2	58.6	52.1	53.5	52.1	61.2	58.02	58.73
2.	East Side Boundary Wall	61.9	62.8	61.4	60.0	58.8	59.1	57.6	56.2	55.4	53.8	53.8	62.8	58.70	59.54
3.	South Side Boundary Wall (Towards COP Coal Shed)	61.5	62.3	60.5	58.8	59.9	60.4	61.8	62.8	63.4	61.0	58.8	63.4	61.24	61.44
4.	North Side Boundary Wall (Towards Pattern Shop)	60.4	61.5	62.3	57.5	56.2	59.1	61.5	62.8	63.3	60.5	56.2	63.3	60.51	61.00
5.	Limit	70													
					* * Mean		Equivale it in Leq		ind Ener	gy					
-						507.77.7									
Cate	gory Area										Day T dB(Night Time	
	gory Area dustrial Area											A)			
A. In											dB(A) 5		dB(A)	
A. In B. Co	dustrial Area										dB(A) 5		dB(A) 70	?
A. In B. Co C. Re	dustrial Area ommercial Area										dB(75 65	A)5		dB(A) 70 55	

Report Print Date: 26/12/2022

Authorized Signatory with Stamp

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>End of Report<

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2 and Shand Jocheck.in Jir = Dehradun = New Delhi

(Formo-Aury plant) March-2023









TEST REPORT

I.	Name of the Industry/Factory/Company	:	Electro Steel Castings Limited (Ferro Alloy Piant)
II.	Address		Works - Kashberia, P.O - Shivramnagar, Haldia, District - PurbaMedinipore, Pin - 721635
III.	Date of Sampling		02/03/2023
IV.	Reporting Date	:	09/03/2023
V.	Report No	14	ENV/433/M/(TR)N/22-23
VI.	Method No	:	IS 15575 (Part 2), 2022
VII.	Time of Duration of Noise	:	20 Minutes
VIII.	Height from Ground Level	- :	4feet
IX.	Distance of Source	:	3 Meter
X.	Type of Industry	:	Ferro Alloy Plant
XI.	Sample Monitoring by		Mr. Kaushik Podder

				R	ESULT	OF AMB	IENT NO	DISE LE	VEL STU	IDY					
				٨	ONITOR	ING IN FE	RRO-ALL	OY PLANT	(DAY TI	VIE)					
SI. No.	Location	51 7:00 A.M	9:00 A.M	S3 11:00 A.M	54 1:00 P.M	S5 3:00 P.M	56 5:00 P.M	57 6:00 P.M	58 7:00 P.M	59 8:00 P.M	9:00 P.M	Min dB(A)	Max dB(A)	Average dB(A	Leq dB(A)
1.	Main Gate (West Side)	57.0	59.2	58.6	59.6	57.4	60.2	57.3	58.1	59.0	60.3	57.0	60.3	58.6	58.82
2.	East Side Boundary Wall	64.2	66.2	65.2	66.8	64.6	67.7	65.7	64.9	64.7	63.5	63.5	67.7	65.3	65.52
3.	South Side Boundary Wall (Towards COP Coal Shed)	65.2	66.4	69.1	67.7	66.1	69.7	68.7	67.2	68.2	66.0	65.2	69.7	67.4	67.66
4.	North Side Boundary Wall (Towards Pattern Shop)	66.2	69.0	67.6	69.8	70.0	70.1	67.2	69.5	68.3	68.2	66.2	70.1	68.5	68.76
5.	Limit	75						* .							

H.O.: 63/B, Rastraguru Avenue, Kolkata - 700028 (033-25792891/25497490, Fax: 033-25298 Branch Office: MIG, R-3 Housing Colony, Dhanbad, Pin - 826001, State - Jharkhand: info@envirocheck.in/envirocheck50@gmail.com / Website: www.envirocheck.in

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Overseas: *UAE *Qatar *Netherlands











					RES	ULT OF	NOISE I	LEVEL S	TUDY						
				M	ONITORII	NG IN FER	RO-ALLO	Y PLANT	(NIGHT T	IME)				I was a second	
SI. No.	Location	S1 10:00 P.M	S2 10:30 P.M	S3 11:00 P.M	S4 11:30 P.M	\$5 12:00 P.M	56 12:30 A.M	57 1:00 A.M	S8 1:30 A.M	2:00 A.M	S10 2:30 A.M	Min dB(A)	Max dB(A)	Average dB(A	Leq dB(A)
1.	Main Gate (West Side)	51.5	53.2	51.2	54.6	52.5	52.9	53.8	54.6	54.0	52.1	51.2	54.6	52.9	53.19
2.	East Side Boundary Wall	60.2	61.3	60.0	62.7	63.1	64.1	64.5	64.7	63.5	62.9	60.0	64.7	62.6	62.97
3.	South Side Boundary Wall (Towards COP Coal Shed)	58.2	58.6	59.2	59.7	62.5	63.1	61.2	60.2	62.4	62.5	58.2	63.1	60.7	61.09
4.	North Side Boundary Wall (Towards Pattern Shop)	59.9	58.6	55.3	54.6	59.9	60.2	62.5	61.4	60.3	62.6	54.6	62.5	58.7	60.17
5.	Limit	70						1					e Francis		
					* * Mean	of Leg - I	Equivale	nt to Sou	nd Ener	gv					
							t in Leq								
	ory Area										Day T			Night Time dB(A)	
A. Inc	lustrial Area										75			70	1000
B. Co	mmercial Area										65			55	
C. Res	sidential Area										55		1	45	11200110
D. Sil	ence Zone										50			40	
		**Day Tin				n					**!		is reckone	d in between	
		6:0	8 M.A 00	TO:OO L	IVI										

Report Print Date: 09/03/2023

Authorized Signatory with Stamp

Dr. AJOY PAUL Scientist

>End of Report<

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		Annexure-4							
01	IN IN	TERNAL AMBIENT	NOISE MONITOR	RING IN FERRO-A	LLOV DLANT (D-				
SI No		AMBIENT NOISE MONITORING IN FERRO-ALLOY PLANT (Day Time) AMBIENT NOISE LEVEL - db(A)							
1	Month	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23			
2	Date & Time	18.10.2022 (10.30am -11.00am)	22.11.2022 (11 am-11.30am)	09.12.2022	12.01.2023	17.02.2023	Mar-23 02.03.2023		
3	LOCATION		(· · · · · · · · · · · · · · · · · · ·	(10 am-10.30am)	(11 am-11.30am)	(11 am-11.30am)	(9.30 am-10. am		
A	Main Gate (West Side)	67 68 63 65							
В	Fast side Poundant		00	63	65	66	62		
	East side Boundary wall	65	66	62	63	65			
С	Near Furnace building (south side boundary wall)	68	69	70	69		67		
D	North Side Boundary wall (Towards Pattern Shop)	66	67	68		70	69		
4	LIMIT			75	70	70	70		

SI. No.		ERNAL AMBIENT NOISE MONITORING IN FERRO-ALLOY PLANT (Night Time) AMBIENT NOISE LEVEL - db(A)							
1	Month								
		Oct-22	Nov-22	Dec-22	Jan-23	Feb-23			
2	Date & Time	18.10.2022 (11.00pm -11.30pm)	22.11.2022 (11 pm-11.30pm)	09.12.2022 (11 pm-11.30pm)	12.01.2023	17.02.2023	Mar-23 02.03.2023		
3	LOCATION			(** p : neepin)	(11 pm-11.30pm)	(11 pm-11.30pm)	(11 pm-11.30pm		
Α	Main Gate (West Side)	63	64	60	0.4				
В	East side Boundary wall	62			61	62	60		
		02	61	61	63	64	64		
3	Near Furnace building (south side boundary wall)	64	63	62	64				
	North Side Boundary wall (Towards Pattern Shop)	62	65	62		64	63		
	LIMIT CHOP)		99	02	62	63	62		

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