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: 22/11/2022

Ref: ECL/MOEFCC/FA/Haldia/02/22-23

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 April-22 to September-22**.

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 April-2022 to September-2022 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).
- f) Environmental statement report (Annexure-6).







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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.

- 2) 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 APRIL-2022 TO SEPTEMBER-2022)

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	Des Affilia como transfer de termo
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).



vi.	Dust extraction system comprising of pulse jet type bag filter, centrifugal fan and motor, duct work including	Adequate dust extraction system comprising of required equipment has
	suction hoods, dust supports, stack, duct hopper, rotary air lock valves etc. should be installed to control the primary and secondary emission.	been installed to control the primary and secondary emission during commissioning of plant & presently in operation.
vii.	Water sprinkling arrangements as well as dry fog system to control fugitive emission shall put up. Water sprinkling should be carried out at the raw material stockyard to control fugitive dust emissions.	Stationary water sprinklers, mobile water 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.
viii.	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 requirement should be modified accordingly.	One rain water harvesting tank has been constructed to use rain water. Close circuit cooling system has been provided to reduce water consumption.
ix.	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.
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.
xi.	The Company shall submit within three months their policy towards Corporate Environment Responsibility which shall inter-alia address	Environmental policy has been already Submitted to MoEFCC on 10.01.2018.
PART B	i) Standard operating process/procedure to being into focus any infringement/deviation/violation of environmental or forest norms/conditions,	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	Already Submitted on 10.01.2018.
8	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.



xii.	An amount equal to Rs. 125 Lakhs, which is 2.5% of the total project cost (Rs. 50 Crores) shall be earmarked towards the Enterprise Social Commitment based on issues raised during the Public Hearing and needs of local people. Item-wise detailed plan with time bound action plan would be prepared as indicated by the project proponent and this plan shall be implemented. Action taken report in this regard shall be submitted to the Ministry's Regional Office.	(1) An amount of Rs. 25500 /- handed over to 10 BPL students in the month of June-22 & September-22 respectively. This will be continued on quarterly basis. Therefor total disburse amount is Rs.51000/- for the period April-22 to September-22. (2) Construction of two community hall have been completed at Kismat shibramnagar and Dihi Shibramnagar village respectively. Total expense Rs. 15 lakhs. Till date we have completed all four community Hall as per the requirements. One drinking water infrastructure (Tube well) have been completed in Kashipur village and Total expense is 1.9 lakhs. Total expense Rs.17.41 lakhs in this period (April-22 to September-22). Total cumulative expenses for the period September 2018 to September 2022:- Rs. 77.90 /-Lakhs.
xiii.	The project proponent shall provide for solar light system for all common areas, street lights, villages, parking around project area and maintain the same regularly.	Six Solar street lights have been installed within project site with all necessary arrangement.
xiv.	The project proponent shall fully provide for LED lights in their offices and residential areas.	LED light has been installed throughout the plant.
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.
PART I	B – General Conditions	DESCRIPTION TO THE PARTY OF THE
i.	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.	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



	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.	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 is 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 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.	Complied as per documents already submitted on 10.01.2018.



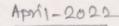
X.	A copy of clearance letter shall be sent by the proponent to concerned Panchayats, Zila Prishad / Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions / representations, if any were received while processing the proposal. The clearance letter shall also be put on 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 respective Regional Office of the MoEF&CC at Bhubaneswar by e-mail.	Environmental statement report for the financial year 2021- 2022 has been submitted in Form-V on 22/09/2022 to WBPCB. (Attached in Annexure-6). Upload Environmental Statement report along with half-yearly compliance report in company's website. As per EC Condition, we have also send Environmental statement report to regional office of the MoEF&CC at Bhubaneswar on 24/09/22 through e-mail.
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	Already complied. Copy of which Submitted to your office on 10.01.2018.



	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.	of Sect-Manganese (J. 1777-17-9) in Earth Met. Preby Medinipus, serve hange
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.

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TEST REPORT

FORMAT NO: ENV/FM/38

Name of the Industry	:	Electro	Ste	el Castings Ltd. (Ferro Alloy Plant	t)	Type of	Industry	:	Ferr	o Alloy Plar	nt	
Address	;	Kashbe	ria,	P.O Shivram N	agar, Haldia, Pur	ba	Samplin	g Date	:	28.0	4.2022		
		Medini	our	- 721635			Period o	f Analysis	:	30.0	4.2022 - 30	.04.	2022
							Date of l	ssue	:	02.0	5.2022		
Sampling Plan & Procedure : ENV/SOP/01 Deviation from				Deviation from	the Sa	ampling	Method and Plan	:	No	Type of Sample	:	Stack Emission	
Sample ID No. : ENV/108/April/A/III Re						Report	No.	: ENV/108/Ap	ril/	TR(A)	/111/22-23		

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	SEAF - I					
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, Mn-Ore, Quartz & Do					
Fuel Used	:	Electrically Operated	Permanent Platform & I	Lado	ler	:	Yes
Working Fuel Consumption	:	N.A.	-				
Pollution Control Device	:	Bag Filter					

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.		RESULTS
1.	Flue Gas Temperature	°C	IS: 11255 (Part 1)		91.2
2.	Barometric Pressure	mm of Hg.	-		756.0
3.	Velocity of Gas flow	m/s	IS: 11255 (Part 3)		11.49
1.	Quantity of Gas flow	Nm³/hr.	IS: 11255 (Part III)		84692.86
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003		152.50
6.	Concentration of NO _x	mg/Nm³	IS: 11255 (Part 7) 2005 & ASTM D 1608-98 reapproved 2009: Sec 11 (Vol. 11.07): 2011		86.50
7.	Concentration of CO ₂	% (v/v)	IS 13270 1992 RA 2003		1.4
3.	Concentration of O ₂	% (v/v)	IS 13270 1992 RA 2003		17.4
9.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003		<1.0
10.	Concentration of Particulate Matter	mg/Nm³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol. 3 11.07) : 2011	:	8.98

Reviewed By:

INDRANI BHATTACHARYA

Dy. Technical Manager, Chemical

Approved By:

Technical Manager

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

: info@envirocheck.in / envirocheck50@gmail.com • Website : www.envirocheck.in Branch Office: Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi

: UAE . Qatar . Netherlands













FORMAT NO: ENV/FM/38

Name of the Industry	:	Electro S	Stee	el Castings Ltd. (I	Ferro Alloy Plant)	Туре о	f Industry	:	Ferre	Alloy Plan	it	
Address	:	Kashber	ia,	P.O Shivram N	agar, Haldia, Purba	Sampli	ng Date	:	28.0	4.2022		
				- 721635	9		of Analysis	:	30.0	4.2022 - 30	.04.	2022
		-				Date o	Issue	:	02.0	5.2022		
Sampling Plan	& Pr	ocedure	:	ENV/SOP/01	Deviation from th	e Samplin	g Method and Plan	:	No	Type of Sample	:	Stack Emission
Sample ID No.	1:	ENV/10	8/8	April/A/I	Rep	ort No.	: ENV/108/Ap	ril/	TR(A)	/1/22-23		

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.)	:	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 & L	add	er :	Yes
Working Fuel Consumption	:	57 litr./hr.				
Pollution Control Device	:	Nil				

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.		RESULTS
1.	Flue Gas Temperature	oC .	IS: 11255 (Part 1)	:	123.0
2.	Barometric Pressure	mm of Hg.	**	:	756.0
3.	Velocity of Gas flow	m/s	IS: 11255 (Part 3)	1:1	15.76
4.	Ouantity of Gas flow	Nm³/hr.	IS: 11255 (Part III)	:	773.40
5.	Concentration of SO ₂	mg/Nm³	IS 11255 (Part 2) 1985 RA 2003	1:	52.80
6.	Concentration of NO _x	mg/Nm³	IS: 11255 (Part 7) 2005 & ASTM D 1608-98 reapproved 2009: Sec 11 (Vol. 11.07): 2011	:	78.50
7.	Concentration of CO2	% (v/v)	IS 13270 1992 RA 2003	1:1	7.6
8.	Concentration of O ₂	% (v/v)	IS 13270 1992 RA 2003	:	11.4
9.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003	1:	<1.0
10.	Concentration of	mg/Nm³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D	:	33.75
	Particulate Matter		3685/D 3685M-98 (reapproved 2005):		
			Sec. 11 (Vol. 3 11.07) : 2011		

Reviewed By:

INDRANI BHATTACHARYA

Dy. Technical Manager, Chemical

Approved By :

Dr. SUMIT CHOWDHURY Technical Manager

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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	Ste	el Castings Ltd. (s Ltd. (Ferro Alloy Plant) Type of Industry			stry	:	Ferro Alloy Plant				
Address : Kashberia, P.O Shivram Nagar, Ha				agar, Haldia, Pur	ba	Sampling Date			28.0	4.2022				
		Medinip	Medinipur - 721635				Period of Analysis			30.04.2022 - 30.04.2022				
							Date of Issue			02.0	5.2022			
Sampling Plan	& Pr	ocedure	:	ENV/SOP/01	Deviation from	the Sa	mpling Meth	od and Plan	:	No	Type of Sample	:	Stack Emission	
Sample ID No. : ENV/108/April/A/II					Report	No. :	ENV/108/Ap	ril/	TR(A)	/11/22-23				

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	Raw Material Handling System					
Shape of Stack	:	Circular	(from G. L.)				
Materials of Construction	:	M.S.	Stack I.D. at sampling point (mtr.)	:	0.60	096	
Capacity	:		Height of sampling port (mtr.) (from G.L.)			18	
Emission Due to	:	Process Activity (Handling of Raw Materials)		-			
Fuel Used	:	N.A.	Permanent Platform & Lac	dder	:	Yes	
Working Fuel Consumption	:	Nil				1	
Pollution Control Device	;	Bag Filter					

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.		RESULTS	
1.	Flue Gas Temperature	°C	IS: 11255 (Part 1)	:	47.0	
2.	Barometric Pressure	mm of Hg.	-	:	756.0	
3.	Velocity of Gas flow	m/s	IS: 11255 (Part 3)	:	18.68	
4.	Quantity of Gas flow	Nm³/hr.	IS: 11255 (Part III)	:	18141.43	
5.	Concentration of Particulate	mg/Nm³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D	:	5.15	
3 19	Matter	7 (5)	3685/D 3685M-98 (reapproved 2005):			
			Sec. 11 (Vol. 3 11.07) : 2011			

Reviewed By:

Indrani Bhallacharyza

INDRANI BHATTACHARYA

Dy. Technical Manager, Chemical

Approved By

Dr. SUMIT CHOWDHURY
Technical Manager

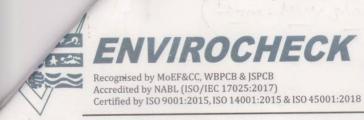
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Overseas : UAE = Qatar = Netherlands















FORMAT NO: ENV/FM/38

Name of the Industry	:	Electro Ste	el Castings Ltd. (Fe	erro Alloy Plant)	Type of Industry	:	Ferr	Ferro Alloy Plant				
	Address : Kashberia, P.O Shibram Nagar, Haldia, Purba					1	27.07.2022					
ridui C33		Medinipur			Period of Analysis	28.0	28.07.2022 - 29.07.2022					
					Date of Issue	:	30.07.2022					
Sampling Pla	1 &	Procedure	: ENV/SOP/01	Deviation from th	e Sampling Method and	Plan	1 :	No	Type of Sample	:	Stack Emission	
Sample ID No		: ENV/59	/July/A/I	Report	No. : ENV/59/Jul	y/TI	R(A)/	1/22-2			Lillissio	

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	1	SEAF - I						
Shape of Stack	:	Circular	Height of S G. L.)	Stack (mtr.) (from	;	35.0		
Materials of Construction	:	M.S.	Stack I.D. a (mtr.)	at sampling point	:	1.80		
Capacity	:	Rated - 9.0 MVA [Running - 8.5 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	1	Yes
Working Fuel Cons	umpt	ion : N.A.						
Pollution Control D	evice	: Bag Filter						

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.		RESULTS	
JL. 140.	Flue Gas Temperature	°C	IS: 11255 (Part 1)	:	85.20	
	Barometric Pressure	mm of Hg.	-		755.0	
3.	Velocity of Gas flow	m/s	IS: 11255 (Part 3)	:	11.29	
	Ouantity of Gas flow	Nm³/hr.	IS: 11255 (Part III)		84497.50	
:	Concentration of SO ₂	mg/Nm³	IS 11255 (Part 2) 1985 RA 2003	1:	268.20	
j.	Concentration of NO _x	mg/Nm³	IS: 11255 (Part 7) 2005 & ASTM D 1608-98 reapproved 2009: Sec 11 (Vol. 11.07): 2011	:	110.50	
	Concentration of O ₂	% (v/v)	IS 13270 1992 RA 2003	:	16.4	
	Concentration of CO ₂	% (v/v)	IS 13270 1992 RA 2003	:	1.40	
	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003	:	<1.0	
0.	Moisture	%	Emission Control Part - III, CPCB	:	1.16	
11.	Concentration of Particulate Matter	mg/Nm³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol. 3 11.07) : 2011	:	12.80	

Reviewed By:

Approved By:

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FORMAT NO: ENV/FM/38

Name of the Industry	:	Electro St	eel (Castings Ltd. (Fe	rro Alloy Plant)	Type of Industry	:	Ferro Alloy Plant				
Address	:	Kashberia	, P.0). – Shibram Nag	agar, Haldia, Purba Sampling Date			27.0	7.202	2		
		Medinipu	r - 7	21635		Period of Analysis	:	: 28.07.2022 - 29.07.2022				
					Date of Issue	:	: 30.07.2022					
Sampling Plan			:	ENV/SOP/01	Deviation from the	e Sampling Method and	Plar	1 :	No	Type of Sample	:	Stack Emission
Sample ID No		: ENV/59	9/Ju	ly/A/II	Report	No. : ENV/59/Jul	y/TI	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 Stack (mtr.) (from G. L.)		: 30.0
Materials of Construction	:	M.S.	Stack I.D. at sampling p	oint	: 0.6096
Capacity	;	0.87	Height of sampling por (mtr.) (from G.L.)	t	: 12.18
Emission Due to	:	Process Activity (Handling of Raw Materials			
Fuel Used	:	N.A.	Permanent	Platform	& Ladder : Yes
Working Fuel Cons	umpt	ion : Nil			1.1.00
Pollution Control D	evice	: Bag Filter			

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.		RESULTS
1.	Flue Gas Temperature	°C	IS: 11255 (Part 1)	1	42.0
2.	Barometric Pressure	mm of Hg.	-	:	755.0
3.	Velocity of Gas flow	m/s	IS: 11255 (Part 3)	:	18.52
1.	Quantity of Gas flow	Nm³/hr.	IS: 11255 (Part III)	:	18300.59
5.	Concentration of Particulate	mg/Nm³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D	:	11.50
	Matter		3685/D 3685M-98 (reapproved 2005):		
		THE RESERVE	Sec. 11 (Vol. 3 11.07) : 2011		

Reviewed By:

DURBAD

Dy. Quality Manager

Approved By:

Dr. SUMIT CHOWDHURY
Technical Manager

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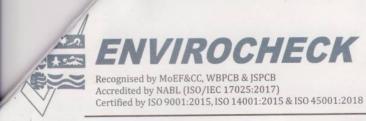
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FORMAT NO: ENV/FM/38

Name of the Industry	:	Electro Ste	eel	Castings Ltd. (Fe	ro Alloy Plant) Type of Industry : Ferro Alloy F							Ferro Alloy Plant				
Address						5	ampli	ng Date	1	27.07.2022						
Tidal Coo	8	Medinipur					Period of Analysis : :				28.07.2022 - 29.07.2022					
							ate of	fIssue	:	30.07.2022						
Sampling Plan	n &	Procedure	:	ENV/SOP/01	Deviation from	the Sa	mpling	g Method and	Plar	1 :	No	Type of Sample	:	Stack Emission		
Sample ID No	: ENV/59)/Ju	ily/A/III	Repo	rt No.	t No. : ENV/59/July/TR(A)/III/22-23										

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to		D. G 250 KVA (Acoustic Enclosure att	tached)			
Shape of Stack	:	Circular	Height of (Stack (mtr.) (from	1	10.36
Materials of Construction	:	M.S.	Stack I.D. (mtr.)	at sampling point	:	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 Platfor	m &	Ladder : Yes
Working Fuel Cons	umpt	ion : 57 litr./hr.				
Pollution Control D	evice	: Nil				

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.		RESULTS
1.	Flue Gas Temperature	оС	IS: 11255 (Part 1)	:	156.0
2	Barometric Pressure	mm of Hg.	-	:	755.0
3.	Velocity of Gas flow	m/s	IS: 11255 (Part 3)	1:1	16.44
4.	Quantity of Gas flow	Nm³/hr.	IS: 11255 (Part III)	1:	743.80
5.	Concentration of SO ₂	mg/Nm³	IS 11255 (Part 2) 1985 RA 2003	1:	71.80
6.	Concentration of NO _x	mg/Nm³	IS: 11255 (Part 7) 2005 & ASTM D 1608-98 reapproved 2009: Sec 11 (Vol. 11.07): 2011	:	82.50
7.	Concentration of CO ₂	% (v/v)	IS 13270 1992 RA 2003	1:1	7.0
8.	Concentration of O ₂	% (v/v)	IS 13270 1992 RA 2003	:	11.8
9.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003	1:1	<1.0
10.	Concentration of Particulate Matter	mg/Nm³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol. 3 11.07) : 2011	:	28.50

Reviewed By:

Remarks

L CHAKRABORTY

Dv. Quality Manager

Approved By:

Dr. SUMIT CHOWDHURY Technical Manager

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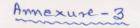
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AMBIENT AIR QUALITY

SUMMARY REPORT

April 2022 - September 2022

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 – APRIL, 2022

Parameters		Dakshin Kashb	eria- South side	of the Factory (Outside Factor	ry Premises)	178	-	
Parameters	08.04.2022	11.04.2022	15.04.2022	19.04.2022	22.04.2022	25.04.2022	28.04.2022	Avg	NAAQ Standards (24 hours) (Schedule
PM2.5 (μg/m3)	41.5	46.2	44.8	43.5	42.6	49.2	51.8	45.66	60
PM10 (μg/m3)	73.2	78.5	76.2	74.5	70.2	79.2	80.1	75.99	100
SO2 (μg/m3)	6.80	7.20	6.90	7.40	6.80	8.20	8.60	7.41	80
NOx (μg/m3)	28.2	32.5	25.0	23.8	25.0	31.8	32.5	28.4	80
		Main G	ate of Ferro Allo	y Plant (Inside	Factory Premi	ses)			
Parameters	08.04.2022	11.04.2022	15.04.2022	19.04.2022	22.04.2022	25.04.2022	28.04.2022	Avg	NAAQ Standards (24 hours) (Schedule
PM2.5 (μg/m3)	46.2	42.8	44.5	43.6	42.8	41.5	48.2	44.23	60
PM10 (μg/m3)	82.6	80.1	83.6	79.5	78.2	71.6	83.2	79.83	100
SO2 (μg/m3)	8.50	7.20	8.20	7.50	6.80	6.20	8.50	7.56	80
NOx (μg/m3)	32.5	31.8	35.0	30.0	28.5	26.5	32.8	31.01	80
		Kashberia	Uttarpally (Nor	th Side) (Outsid	le Factory Prei	mises)		1	
Parameters	08.04.2022	11.04.2022	15.04.2022	19.04.2022	22.04.2022	25.04.2022	28.04.2022	Avg	NAAQ Standards (24 hours) (Schedule
PM2.5 (μg/m3)	36.2	38.5	32.8	34.5	48.2	46.5	38.2	39.27	60
PM10 (μg/m3)	76.2	78.5	72.5	71.8	80.2	83.5	76.2	76.99	100
SO2 (μg/m3)	6.20	6.50	5.80	6.20	8.20	8.50	5.80	6.74	80
NOx (μg/m3)	26.5	25.0	23.5	25.0	30.0	32.5	26.5	27.0	80
		Kishmat S	hibramnagar Wo	est side (Outsid	e Factory Pren	nises)			
Parameters	08.04.2022	11.04.2022	15.04.2022	19.04.2022	22.04.2022	25.04.2022	28.04.2022	Avg	NAAQ Standards (24 hours) (Schedule VII)
PM2.5 (μg/m3)	36.2	46.8	49.2	38.2	35.2	32.8	45.8	40.6	60
PM10 (μg/m3)	73.2	80.1	82.6	78.1	76.2	70.1	81.5	77.4	100
SO2 (μg/m3)	6.80	7.20	8.50	6.20	5.80	5.20	7.50	6.74	80
NOx (μg/m3)	26.5	28.2	32.5	25.0	26.5	23.8	30.0	27.5	80

Continued page - 2

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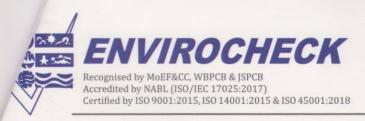
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SUMMARY REPORT - MAY 2022

	Dal	kehin Kash	beria- South	ACTION OF THE PARTY OF THE PART	e Factory (tory Premis	ses)		
Parameters	05.05.2022	07.05.2022	10.05.2022	13.05.2022	18.05.2022	21.05.2022	23.05.2022	26.05.2022	Avg	Limit as per NAAQ Standards (24 hours) (Schedule VII)
PM2.5 (μg/m3)	38.2	36.5	41.2	43.5	46.5	48.2	46.8	39.5	42.55	60
PM10 (μg/m3)	76.2	75.2	78.5	71.2	79.5	80.1	74.8	72.5	76.0	100
SO2 (μg/m3)	6.20	5.80	6.80	4.80	5.80	7.80	6.20	4.80	6.02	80
NOx (μg/m3)	23.50	21.80	25.00	23.50	26.50	28.20	23.50	20.00	24.0	80
		Main	Gate of Feri	ro Alloy Pla	ant (Inside	Factory Pre	mises)			
Parameters	05.05.2022	07.05.2022	10.05.2022	13.05.2022	18.05.2022	21.05.2022	23.05.2022	26.05.2022	Avg	Limit as per NAAQ Standards (24 hours) (Schedule VII)
PM2.5 (μg/m3)	48.2	46.5	45.1	43.2	49.5	53.6	52.1	50.8	48.62	60
PM10 (μg/m3)	82.5	81.6	83.5	79.2	80.1	86.5	84.5	82.6	82.56	100
SO2 (μg/m3)	6.80	7.80	6.50	6.20	8.50	6.80	7.20	6.80	7.07	80
NOx (μg/m3)	26.50	30.0	28.20	25.0	32.50	25.0	28.20	26.50	27.74	80
		Kashbe	ria Uttarpal	ly (North S	ide) (Outsi	de Factory l	Premises)			
Parameters	05.05.2022	07.05.2022	10.05.2022	13.05.2022	18.05.2022	21.05.2022	23.05.2022	26.05.2022	Avg	Limit as per NAAQ Standards (24 hours) (Schedule VII)
PM2.5 (μg/m3)	42.8	46.5	44.2	43.8	49.1	45.6	42.8	43.5	44.79	60
PM10 (μg/m3)	73.2	78.5	76.1	71.5	78.2	75.2	71.8	74.5	74.87	100
SO2 (μg/m3)	6.80	7.20	5.80	4.80	5.20	4.80	5.20	4.80	5.57	80
NOx (μg/m3)	23.5	28.2	25.0	23.5	25.0	23.5	20.0	18.50	23.4	80
		Kishma	t Shibramn	agar West	side (Outsi	de Factory	Premises)	Name and the second		
Parameters	05.05.2022	07.05.2022	10.05.2022	13.05.2022	18.05.2022	21.05.2022	23.05.2022	26.05.2022	Avg	Limit as per NAAQ Standards (24 hours) (Schedule VII)
PM2.5 (μg/m3)	46.1	42.8	44.5	41.8	43.6	45.8	43.1	42.8	43.81	60
PM10 (μg/m3)	82.6	80.1	84.2	82.6	80.1	83.6	82.5	81.5	82.15	100
SO2 (μg/m3)	8.20	7.50	7.80	8.50	7.80	7.60	7.50	7.80	7.84	80
NOx (μg/m3)	30.0	26.50	25.0	30.0	28.50	23.50	25.0	26.50	26.87	80

Continued page - 3

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	Da	kshin Kash				– JUNE, 20 Outside Fac		es)		
Parameters	02.06.2022	04.06.2022	06.06.2022	10.06.2022	15.06.2022	18.06.2022	21.06.2022	24.06.2022	Avg	Limit as per NAAQ Standards (24 hours) (Schedule VII)
PM2.5 (μg/m3)	48.2	39.5	36.2	42.8	42.5	49.2	46.1	39.5	43.0	60
PM10 (μg/m3)	86.2	78.5	76.2	80.1	82.5	84.1	81.2	82.5	81.41	100
SO2 (μg/m3)	6.20	6.80	5.20	5.60	6.20	7.20	6.80	6.20	6.27	80
NOx (μg/m3)	30.0	26.50	23.50	21.80	25.0	28.20	25.0	21.80	25.22	80
		Main	Gate of Fer	ro Alloy Pla	nt (Inside	Factory Pre	mises)			
Parameters	02.06.2022	04.06.2022	06.06.2022	10.06.2022	15.06.2022	18.06.2022	21.06.2022	24.06.2022	Avg	Limit as per NAAQ Standards (24 hours) (Schedule VII)
PM2.5 (μg/m3)	49.2	48.5	45.2	56.1	54.8	52.6	50.1	49.2	50.71	60
PM10 (μg/m3)	86.5	87.2	88.5	85.1	84.5	82.5	81.6	80.1	84.5	100
SO2 (μg/m3)	7.2	6.80	5.20	5.60	4.80	5.20	5.60	5.20	5.70	80
NOx (μg/m3)	28.50	26.50	25.0	23.8	25.0	26.5	28.2	25.0	26.06	80
		Kashbei	ria Uttarpa	lly (North S	ide) (Outsi	ide Factory I	Premises)			
Parameters	02.06.2022	04.06.2022	06.06.2022	10.06.2022	15.06.2022	18.06.2022	21.06.2022	24.06.2022	Avg	Limit as per NAAQ Standards (24 hours) (Schedule VII)
PM2.5 (μg/m3)	46.5	43.2	38.5	36.2	34.5	33.6	42.8	41.5	39.6	60
PM10 (μg/m3)	80.1	79.2	78.5	73.2	76.5	75.1	82.5	81.5	78.32	100
SO2 (μg/m3)	6.80	5.20	6.50	4.80	5.20	5.60	5.80	5.20	5.64	80
NOx (μg/m3)	25.0	26.50	25.0	23.80	25.0	23.50	21.80	25.00	24.45	80
		Kishma	t Shibramr	agar West	side (Outsi	de Factory I	Premises)			100
Parameters	02.06.2022	04.06.2022	06.06.2022	10.06.2022	15.06.2022	18.06.2022	21.06.2022	24.06.2022	Avg	Limit as per NAAQ Standards (24 hours (Schedule VII)
PM2.5 (μg/m3)	39.5	36.2	38.5	34.5	32.8	38.5	37.2	41.8	37.37	60
PM10 (μg/m3)	76.2	71.5	80.2	81.6	78.2	76.5	79.2	80.1	77.94	100
SO2 (μg/m3)	6.20	6.80	7.20	7.80	6.20	6.50	6.80	7.80	6.91	80
NOx (μg/m3)	30.0	28.50	28.50	26.20	25.0	21.80	26.50	20.0	25.81	80

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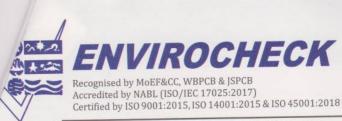
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SUMMARY REPORT - SEPTEMBER, 2022

Parameters		Dakshi	in Kashb			EPORT – SE			ory Prer	nises)		Avg	Limit as per NAAQ Standard s (24 hours) (Schedul e VII)
	05.09.2022	07.09.2022	09.09.2022	13.09.2022	15.09.2022	17.09.2022	19.09.2022	21.09.2022	23.09.2022	26.09.2022	28.09.2022		
PM2.5 (μg/m3)	32.5	36.2	34.5	30.1	32.8	31.5	34.5	30.8	31.8	34.8	36.8	33.3	60
PM10 (μg/m3)	68.2	71.5	73.2	69.5	64.1	71.5	73.2	70.1	69.2	74.2	76.2	70.99	100
SO2 (μg/m3)		7.20	6.20	6.80	6.20	7.80	7.20	6.80	6.20	7.80	8.20	7.02	80
NOx (μg/m3)	6.80	25.0	21.8	23.5	20.0	26.5	25.0	26.5	23.5	20.0	21.8	23.37	80
11011 (PB) 1110)	23.5	25.0				oy Plant (Ins)				Limitera
Parameters	05.09.2022	07.09.2022	09.09.2022	13.09.2022	15.09.2022	17.09.2022	19.09.2022	21.09.2022	23.09.2022	26.09.2022	28.09.2022	Avg	Limit as per NAAQ Standard s (24 hours) (Schedul e VII)
PM2.5 (μg/m3)	32.5	31.8	36.5	30.2	32.8	36.2	38.5	32.6	34.5	30.2	36.5	33.84	60
PM10 (μg/m3)	73.2	72.5	76.2	71.5	70.2	74.5	78.2	70.1	73.6	71.2	78.5	73.61	100
SO2 (μg/m3)	6.20	6.80	7.20	7.60	6.80	6.20	7.20	7.80	7.20	6.80	6.50	6.94	80
NOx (μg/m3)	32.50	31.80	30.0	32.50	26.50	28.20	25.0	26.50	21.80	25.0	23.50	27.57	80
	32.30	31.00				orth Side) (O	utside Fact	ory Premi	ses)			Ava	Limit as
Parameters	05.09.2022	07.09.2022	09.09.2022	13.09.2022	15.09.2022	17.09.2022	19.09.2022	21.09.2022	23.09.2022	26.09.2022	28.09.2022	Avg	per NAAQ Standard s (24 hours) (Schedu e VII)
PM2.5 (μg/m3)	36.2	35.8	36.2	38.2	31.5	30.8	38.2	34.5	36.2	32.8	31.5	34.72	60
PM10 (μg/m3)	73.2	76.5	75.2	78.2	71.2	70.6	76.5	74.5	78.2	69.2	67.5	73.71	100
SO2 (μg/m3)	6.20	7.50	6.50	7.80	5.20	6.80	6.20	6.50	6.80	5.80	5.20	6.41	80
NOx (μg/m3)	100	28.20	25.0			26.50	-	23.80	25.0	23.50	25.0	25.18	80
	26.50	20.20		ishmat Shi	bramnagar	West side (0	utside Fact	-			-		11-14-1
Parameters	05.09.2022	07.09.2022	09.09.2022	13.09.2022	15.09.2022	17.09.2022	19.09.2022	21.09.2022	23.09.2022	26.09.2022	28.09.2022	Avg	Limit a per NAAQ Standar s (24 hours) (Schedu e VII)
PM2.5 (μg/m3)	36.2	38.5	32.5	36.2	31.8	30.5	36.2	39.5	35.2	38.5	32.6	35.24	60
PM10 (μg/m3)	76.2	78.5	69.2	68.5	62.5	60.2	73.6	79.2	71.5	78.2	72.5	71.83	100
SO2 (μg/m3)	6.20	6.80	7.20	5.80	6.50	6.20	7.50	7.20	6.80	6.20	5.80	6.56	80
NOx (μg/m3)	23.50	25.0	28.20	23.50	25.0	23.50	28.50	26.20	25.0	23.50	21.80	24.88	80

Date: 30.09.2022

Authorized Signatory

Dr. AJOY PAUL

Scientist

H.O.

: 63/B, Rastraguru Avenue, Kolkata -700028 = Ph. 033 25792891/ 25497490 = Fax : 033 25299141

: 189, 190 & 192, Rastraguru Avenue, Kolkata -700028 ■ Ph. 033 25792889

: info@envirocheck.in / envirocheck50@gmail.com ■ Website : www.envirocheck.in Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi

· IIAF = Oatar = Netherlands

Ferro Allon









Pin

Amexune-9

TEST REPORT

I.	Name of the Industry/Factory/Company		
			Electro Steel Castings Limited (Ferro Alloy Plant)
II.	Address	:	Works - Kashberia, P.O - Shivramnagar, Haldia, District - PurbaMedinipore, P - 721635
III.	Date of Sampling	:	23/06/2022
IV.	Reporting Date		30/06/2022
V.	Report No	:	ENV/122/M/N/22-23
VI.	Method No	:	IS:9989 - 1981
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

				٨	MONITOR	ING IN FE	RRO-ALL	OY PLANT	(DAY TH	VIF)					
SI. No.	Location	7:00 A.M	S2 9:00 A.M	S3 11:00 A.M	S4 1:00 P.M	\$5 3:00 P.M	S6 5:00 P.M	57 6:00 P.M	\$8 7:00 P.M	\$9 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)	60.2	63.5	62.8	64.9	62.4	61.3	65.2	67.1	62.6	63.6	60.2	67.1	63.36	65.16
2.	East Side Boundary Wall	63.5	62.8	65.6	70.2	69.1	62.6	69.5	68.2	64.7	61.9	61.9	70.2	65.85	66.83
3.	South Side Boundary Wall (Towards COP Coal Shed)	71.9	70.6	73.5	69.5	68.2	70.3	72.9	68.5	67.3	62.6	62.6	73.5	69.53	70.39
4.	North Side Boundary Wall (Towards Pattern Shop)	67.2	69.9	70.6	71.5	73.8	74.9	72.8	71.3	70.2	72.5	67.2	74.9	71.47	71.94
5.	Limit	75													













					RES	ULT OF	NOISE I	LEVEL S	TUDY						
CI	1		,	M	ONITORII	NG IN FER	RO-ALLO	Y PLANT	(NIGHT T	IME)					
SI. No.	Location	S1 10:00 P.M	52 10:30 P.M	S3 11:00 P.M	S4 11:30 P.M	S5 12:00 P.M	S6 12:30 A.M	57 1:00 A.M	S8 1:30 A.M	S9 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)	63.1	65.4	62.9	60.4	66.4	62.8	66.7	68.3	62.7	66.7	60.4	68.3	64.54	63.79
2.	East Side Boundary Wall	64.6	62.5	62.9	63.7	65.9	62.6	63.7	64.6	63.4	65.1	62.5	65.9	63.90	64.03
3.	South Side Boundary Wall (Towards COP Coal Shed)	66.1	67.4	67.2	63.6	68.4	67.7	68.1	66,4	67.0	65.5	63.6	68.4	66.74	66.93
4.	North Side Boundary Wall (Towards Pattern Shop)	63.8	64.6	65.9	66.1	63.3	65.1	69.4	68.3	67.3	64.8	63.3	69.4	65.86	66.28
5.	Limit	70			* Mean	of Las F	anivalor	at to Sou	nd Energ						
					TACCHII (or red - D	quivalei	it to sou	na Energ	ЗУ					
						Limi	t in Leg o	B(A)		Wall Brown					
	ory Area lustrial Area					Limi	t in Leq o	iB(A)			Day T	1)		Night Time dB(A)	
A. Ind						Limi	t in Leq o	BB(A)			dB(/	1)		dB(A) 70	
A. Ind B. Cor	lustrial Area					Limi	t in Leq o	BB(A)			dB(// 75 65	1)		dB(A)	
A. Ind B. Cor C. Res	lustrial Area nmercial Area idential Area					Limi	t in Leq c	iB(A)			dB(/	1)		dB(A) 70	
A. Ind B. Cor C. Res	ustrial Area nmercial Area idential Area ence Zone						t in Leq o	iB(A)			dB(// 75 65	1)		dB(A) 70 55	
A. Ind B. Cor C. Res	ustrial Area nmercial Area idential Area ence Zone	**Day Tim 6:0 (Central	0 A.M &	10:00 P.	M			iB(A)			dB(/ 75 65 55 50	light Time i	s reckoned	dB(A) 70 55 45 40 In between	

Report Print Date: 30/06/2022

Authorized Signatory with Stamp

Authorized Signatory with Stamp

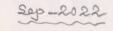
Scientist CAS

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 (033-25792891/25497490, Fax : 033-2529974)

Branch Office : MIG, R-3 Housing Colony, Dhanbad, Pin - 826001, State - Jharkhand

Email : info@envirocheck.in/envirocheck50@gmail.com / Website : www.envirocheck.in

Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi And Overseas : "UAE = Qatar = Netherlands









I.	Name of the Industry/Factory/Company	:	Electro Steel Castings Limited (Ferro Alloy Plant)
II.	Address		Works – Kashberia, P.O – Shivramnagar, Haldia, District – PurbaMedinipore, Pin – 721635
III.	Date of Sampling	:	23/09/2022
IV.	Reporting Date	:	27/09/2022
V.	Report No .	:	ENV/225/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

					CONTROD	INIC INI FE	000 411	OV DI ANI	IDAN TIP	art	-				
-				***	_	******	-	OY PLANT							
SI.	Location	S1	S2	S3	S4	S5	S6	57	S8	59	510	Min	Max	Average	Leq
No.		7:00	9:00	11:00	1:00	3:00	5:00	6:00	7:00	8:00	9:00	dB(A)	dB(A)	dB(A	dB(A)
		A.M	A.M	A.M	P.M	P.M	P.M	P.M	P.M	P.M	P.M				
1.	Main Gate (West Side)	60.1	59.2	60.6	61.2	59.8	58.4	58.8	60.8	61.0	61.1	58.4	61.2	60.10	60.20
2.	East Side Boundary Wall	65.2	66.2	64.7	65.5	65.7	66.0	66.8	64.9	65.1	65.0	64.7	66.8	65.51	65.56
3.	South Side Boundary Wall (Towards COP Coal Shed)	67.7	69.2	69.8	70.2	70.4	69.6	70.0	71.5	71.7	72,0	67.7	72.0	70.15	70.38
4.	North Side Boundary Wall (Towards Pattern Shop)	63.9	68.5	68.6	69.8	70.0	70.2	68.0	69.2	69.0	70.4	63.9	70.4	68.76	69.05
5.	Limit	75		A STATE OF	100	100000000000000000000000000000000000000	000000000000000000000000000000000000000	100000000000000000000000000000000000000	-	-				-	

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 (033-25792891/25497490, Fax : 033-25299 (CAN)
Branch Office : MIG, R-3 Housing Colony, Dhanbad, Pin - 826001, State - Jharkhand : info@envirocheck.in/envirocheck50@gmail.com / Website : www.envirocheck.in
Branch Office : * Siliguri * Haldia * Durgapur * Dhanbad * Gangtok * Port Blair * Dehradun * New Delhi
Overseas : * UAE * Qatar * Netherlands











							NOISE I		Maria Maria	nar)					
SI. No.	Location	S1 10:00 P.M	S2 10:30 P.M	S3 11:00 P.M	S4 11:30 P.M	S5 12:00 P.M	56 12:30 A.M	\$7 1:00 A.M	\$8 1:30 A.M	S9 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)	55.2	56.4	56.8	56.1	56.9	57.2	57.5	57.9	56.5	55.1	55.1	57.9	56.55	56.64
2.	East Side Boundary Wall	60.2	60.4	60.6	61.2	62.4	61.0	62.6	61.5	61.8	62.0	60.2	62.6	61.37	61.44
3.	South Side Boundary Wall (Towards COP Coal Shed)	65.2	67.8	68.2	68.7	69.2	68.4	67.7	69.6	65.5	68.1	65.2	69.6	67.84	68.03
4.	North Side Boundary Wall (Towards Pattern Shop)	64.4	65.6	65.0	64.8	66.2	64.0	65.3	64.9	66.7	63.8	63.8	66.7	65.07	65.16
5.	Limit	70													
					* * Mean		Equivale		ınd Ener	gy					
Categ	gory Area					Lim	it in Leq	aB(A)			Day T			Night Time dB(A)	е
A. Inc	dustrial Area										75	5		70	
B. Cor	mmercial Area										65	5		55	
C. Res	sidential Area										55	5		45	
D. Sil	ence Zone		7730				180	100			50)		40	20,30
			00 A.M 8	10:00 P	.M							10:00	is reckone P.M & 6:0	ed in between 0 A.M	1
		(Central	Pollutio	n Contro (Depart								f India) &			

Report Print Date: 27/09/2022

>End of Report<

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 () 033-26/92891/25497490, Fax: 033-25299141

Branch Office: MIG. R-3 Housing Colony, Dhanbad, Pin - 8249011 () Fixte - Jharkhand

Email : info@envirocheck.in/envirocheck50@gmail.com

Branch Office: *Siliguri * Haldia * Durgapur * Dhanbad * Grant * Port Blair * Dehradun * New Delhi

Overseas : *UAE * Qatar * Netherlands

Authorized Signatory with Stamp

Kol - 28

		NOISE	MONITORING			Anne	xure-4
		NTERNAL AMBIEN	NT NOISE MONITOR	ING IN FERRO-AL	LOY PLANT (Day	Time)	
SI No				AMBIENT NOISE			
1	Month	April-22	May-22	June-22	July-22	Aug-22	Sep-22
2	Date & Time	19.04.2022 (10.30am -11.00am)	24.05.2022 (11.00am -11.30am)	17.06.2022 (10.00am-10.30am)	18.07.2022 (10.00am-10.30am)	19.08.2022 (10.00am-10.30am)	16.09.2022 (10.00 am-10.30am
3	LOCATION				-		(10100 dill 10100dill)
A	Main Gate (West Side)	67	68	65	69	70	62
В	East side Boundary wall	65	67	67	70	68	66
С	Near Furnace building (south side boundary wall)	68	66	69	68	70	71
D	North Side Boundary wall (Towards Pattern Shop)	66	65	70	67	68	69
4	LIMIT			75			

SI. No.				AMBIENT NOISE	LEVEL - db(A)		
1	Month	April-22	May-22	June-22	July-22	Aug-22	Sep-22
2	Date & Time	19.04.2022 (11.00pm -11.30pm)	24.05.2022 (11.00pm -11.30pm)	17.06.2022 (11.00pm-11.30pm)	18.07.2022 (11.00pm-11.30pm)	19.08.2022 (11.00pm-11.30pm)	16.09.2022 (11.pm -11.30 pm)
3	LOCATION						
Α	Main Gate (West Side)	63	62	64	66	67	59
В	East side Boundary wall	62	63	63	65	66	62
С	Near Furnace building (south side boundary wall)	64	65	67	67	68	67
D	North Side Boundary wall (Towards Pattern Shop)	62	63	66	68	67	66
4	LIMIT			70		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The second second



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



Ref: ECL/PCB/FAP/02

To
The chief Engineer (O & E Cell),
West Bengal Pollution Control Board,
Paribesh Bhawan, Bldg.10A, Block- LA,
Sector III, Salt Lake,
Kolkata 700 098.



Sub: Environmental Statement Report for the financial year ending 2021-2022.

Dear Sir,

Enclosed please find the Annual Statement Report of our **Ferro Alloy Plant** in form-V for the financial year 2021-2022 as per the provisions of Environment Protection Rules' 86.

Thanking You,

Yours faithfully,

for ELECTROSTEEL CASTINGS LIMITED,

(G. C. Mahto) AVP- HW

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

Encl: 1) Environmental Statement Report (Form-V).

2) Stack Monitoring Report (Oct-21).







Form-V Environmental Statement Electrosteel Castings Ltd. (Ferro Alloy Plant)

Environmental Statement for the financial year ending 31st March, 2022

Part-A

i) Name and address of the owner/occupier of the industry operation or process:

Mr. Sunil Katial 30, B. T. Road, Khardah, P. O-Sukchar, Dist- 24 Parganas (N) Pin- 700115

ii) Industry category: Primary (STC Codes) Secondary (STC codes) : Large Scale Industry

iii) Production capacity

: 1) Ferro Manganese- 22890 TPA.

2) Ferro Silicon- 6258 TPA.

3) Silico Manganese- 16260 TPA.

iv) Year of Establishment

: June-2019.

iv) Date of last environmental statement submitted: 14/09/2021.

Part-B

Water and Raw material consumption

i) Water consumption, m³/day: 118

Process: - Nil

Cooling: - 109 m3/day. Domestic:-10 m3/day.



ii) Raw material consumption

*Name of Raw material	Name of the products	Consumption of raper unit of output	
		During the previous Financial year	During the current Financial year (21-22)
i) Manganese ore		2.310 MT/MT of Si-Mn.	2.257 MT/MT of Si-Mn.
ii) Coal		0.184 MT/MT of Si-Mn	0.312 MT/MT of Si-Mn.
iii) Coke	Silico Manganese	0.568 MT/MT of Si-Mn	0.568 MT/MT of Si-Mn.
iv) Quartz		0.433 MT/MT of Si-Mn	0.444 MT/MT of Si-Mn.
v) Dolomite		0.011MT/MTof Si-Mn	0.160 MT/MT of Si-Mn

^{*} Industry may use codes if disclosing of raw material list would violate contractual obligations, otherwise all industries have to name the raw materials used.

Part-C
Pollution discharged to environment/unit of output
(Parameters as specified in the consent issued)

Pollutants	Quantity of pollutants Discharged (mass/day) (Kg/day)	Concentrations of Pollutants discharges (Mass/volm)	Percentage of variation from prescribed standard with reasons
(a) Water	No discharge		
(b) Air(SPM & Gas) 1) Bag filter Stack attached with 9MVA Submerge Arc Furnace a) SPM		a) 6.00 mg/Nm ³	
b) So ₂		b) 42.85 mg/Nm ³	
	b) 87.09 kg/day		
c) No_x	c) 52.40 kg/day	c) 25.78 mg/Nm^3	
2) Bag filter stack connected with raw material handling System. a) SPM	a) 6.82 kg/day	a) 16.2 mg/Nm ³	
3) Stack connected with 250 KVA D.G Set. a) SPM	a) 0.34 kg/day	a) 18.5 mg/Nm^3	

(Ref; Report of approved laboratory: October-2021)



Part-D Hazardous Waste

As specified under Hazardous waste (Management and Handling) Amended Rules'16

Hazardous waste	Total quantity (Kg)						
ton Abia Chare e la	During the previous Financial year	During the current financial year (21-22)					
a) From Process	Not Applicable	1) Oil contaminated cotton waste-10 kg					
b) From Pollution	Not Applicable	1) Gas cleaning residue- 5000 kg.					
Control Facilities							

Part-E

Solid waste

Waste	Total quar	ntity (Kg)
	During the previous Financial year	During the current year (21-22)
(a) from process	9365.29 MT	14415 MT
(b) from pollution control facilities	1223 MT	1009 MT
(c)		
(i) Quantity recycled or re-utilize	d Nil	Nil
Within the unit		
(ii) Sold	9365.29 MT	9909.64 MT
(iii) Disposed		
a) from process	Nil	4506 MT (Land filling for Construction purpose)
b) from pollution control facilities	es 1223 <i>MT</i>	1004 MT (Land filling for Construction purpose)

Part-F

Please specify the characteristics (in terms of composition and quantum) of hazardous as well as solid wastes and indicate the disposal practice adopted for both these categories of wastes;

HAZARDOUS WASTE;

Che	emical Composition	Oty (Lit/Kg)	Disposal
i)	From Process		
	a) Gas cleaning residue	5000 kg	Dispose to PCB authorize agency.
ii)	From Maintenance		
	a) Oil contaminated cotton waste	10 kg	Dispose to PCB authorize agency.

NON-HAZARDOUS:

Chemical Composition	Qty (kg)	<u>Disposal</u>
Silico Manganese Slag		
i) From Process	14415 MT/year	Use in road construction and Pavement making.
ii) From PC Devices	1005 MT/year	Land filling for construction Purpose

Part-G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production:-

We have started to make concretize the road from Ferro Alloy Main gate. In this year completed 220 sq. meter area.

Part-H

Additional measures /investment proposals for environmental protection including abatement of pollution, prevention of pollution:-

The plant is always sincerely striving for improving of working atmosphere with innovative approaches to maintain sustainable development in the surrounding areas



//5//

Part-I

Any other particular for improving the quality of the environment:-

- a) Observation of "National Safety Day" & "World Environment Day" on 4th March & 5th June respectively to create awareness among the staff, local community & also planted 395 saplings during this financial year(2021-22) to abate pollution.
- b) Organize regular in house training/counseling programme on "House Keeping, Safety & environment" to improve awareness level among all employees.





VIROCHECK

Recognised by MoEF&CC, WBPCB, & JSPCB Accredited by NABL (ISO/IEC 17025:2017) Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018









oc+-2021



TEST REPORT

FORMAT NO: ENV/FM/38

Name of the Industry	:	Electro St	eel	Castings Ltd. (Fe	erro Alloy Plant)	Type of Industry	:	Fer	ro Allo	y Plant		
Address	:	Kashberia	ria, P.O. – Shibram Nagar, Haldia, Purba pur - 721635		Sampling Date	1:	29.1	10.202	1			
		Medimpui	- /	21635		Period of Analysis	1	30.1	10.202	1-01.11.2	021	
Sampling Plan	2.	Procedure		PART (COD (O.)	T	Date of Issue		04.1	1.202		021	
Sample ID No.				ENV/SOP/01		Sampling Method and			No	Type of Sample	1	Stack Emission
cample 1D NO.		: ENV/50	700	ct./A/IV	Report	No. : ENV/50/Oc	t./TF	R(A)/	IV/21-	22	-	PHISSION

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	2	SEAF - I				
Shape of Stack	:	Circular	Height of Stack (mtr	r.) (from	:	35.0
Materials of Construction	1	M.S.	Stack I.D. at samplin	ng point	:	1.80
Capacity	:	Rated - 9.0 MVA Running - 6.6 MVA	Height of sampling	port	:	30.0
Emission Due to	1:	Melting of Coke, Coal, Mn-Ore, Quartz &	(mtr.) (from G.L.)			
Fuel Used		Electrically Operated				
Working Fuel Consu	mpt	on : N.A.	Permane	ent Platform	&L	adder : Yes
Pollution Control De	vice	: Bag Filter				

SL. NO.	PARAMETERS	UNIT	B. RESULTS METHOD NO.	
1.	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 Matter	0C mm of Hg. m/s Nm³/hr. mg/Nm³ mg/Nm³ % (v/v) % (v/v) %(v/v) % mg/Nm³	IS: 11255 (Part 1) IS: 11255 (Part 3) IS: 11255 (Part 31) IS: 11255 (Part 21) IS: 11255 (Part 21) IS: 11255 (Part 2) 1985 RA 2003 IS: 11255 (Part 7) 2005 & ASTM D 1608-98 reapproved 2009: Sec 11 (Vol. 11.07): 2011 IS: 13270 1992 RA 2003 IS: 13270 1992 RA 2003 IS: 13270 1992 RA 2003 Emission Control Part - III, CPCB IS: 11255 (Part - 1): 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005): Sec 11(Vol. 3: 11.07): 2011	RESULTS 84.2 756.0 11.26 84688.45 42.85 25.78 16.8 1.6 <1.0 0.95 6.0

Drawi Bhallocharyya

NDRANI BHATTACILLEYA

Approved By

Dr. AJCY PAUL Quality Manager

H.O.

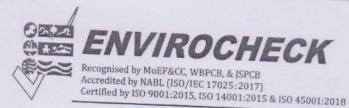
: 63/B, Rastraguru Avenue, Kolkata - 700028 * Ph. 033 25792891 / 25497490 * Fax : 033 25299181 CAS

Laboratory E-mail

: 189, 190 & 192, Rastraguru Avenue, Kolkata - 700028 Ph. 033 25792889

: info@envirocheck.org / envirocheck50@gmail.com • Website : www.envirocheck.org

Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi : UAE . Qatar . Netherlands













FORMAT NO . FNIL/FM/20

Name of the Industry	:	Electro Steel Castings Ltd. (Ferro Alloy Plant)	Type of Industry	Τ.	Form AB - DI
Address	:	Kashberia, P.O Shibram Nagar, Haldia, Purba		1	Ferro Alloy Plant
		Meumpur - /21635	Sampling Date	:	29.10.2021
			Period of Analysis	:	30.10.2021 - 01.11.2021
ampling Plan	1&1	Procedure : ENV/SOP/01 Deviation from the S	Date of Issue		
ample ID No.		ENV/SOP/01 Deviation from the S	pampling Method and	Plan	, be of Stack
		Report No	. : ENV/50/Oc	t./TF	R(A)/V/21-22 Emission

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Shape of Stack	:	D. G. – 250 KVA (Acoustic Enclos Circular			
Materials of	1.	M.S.	Height of Stack (mtr.) (from G. L.)	1:	10.36
Construction	1	171.3.	Stack I.D. at sampling point	+	0.1524
Capacity	1	250 KVA	(mtr.)	1.	0.1324
		SSO ATA	Height of sampling port	+	7.92
Emission Due to	1	Combustion of H.S.D	(mtr.) (from G.L.)		1.92
Fuel Used	1	H.S.D			
Working Fuel Const	ımnt	on : 57 litr./hr.	Permanent Platform	m 2. 1	add I I v
Pollution Control De	evice	: Nil		II ox I	adder : Yes

B. RESULTS

SL, NO. 1.	PARAMETERS Flue Gas Temperature	UNIT	METHOD NO.	II	DECITION
3. 9. 10.	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 Concentration of CO Concentration of Particulate Matter	0C mm of Hg. m/s Nm³/hr. mg/Nm³ mg/Nm³ % (v/v) % (v/v) %(v/v) mg/Nm³	IS: 11255 (Part 1) IS: 11255 (Part 3) IS: 11255 (Part III) IS 11255 (Part 2) 1985 RA 2003 IS: 11255 (Part 2) 1985 RA 2003 IS: 11255 (Part 7) 2005 & ASTM D 1608-98 reapproved 2009: Sec 11 (Vol. 11.07): 2011 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		756.0 15.78 774.55 68.25 76.40 7.0 12.0 <1.0 18.50

Reviewed By:

Drawi Bhattackovyy

DRANI BHATTAC TARYA y, rechnical Managar, and call

Approved By:

Dr. A UY PAUL Quality Manager

H.O.

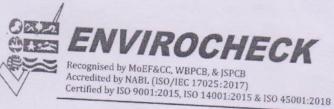
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: info@envirocheck.org / envirocheck50@gmail.com • Website : www.envirocheck.org Branch Office : Siliguri = Haldia = Durgapur = Dhanbad = Gangtok = Port Blair = Dehradun = New Delhi





ENVIROCHECK











TEST REPORT

FORMAT NO: ENV/FM/38

Name of the	:	Electro Steel Castings Ltd. (Ferro Alloy Plant)			FORMAT NO: ENV/FM/38		
Industry Address			Type of Industry	1:	Ferro Alloy Plant		
Sampling Di		Kashberia, P.O. – Shibram Nagar, Haldia, Purba Medinipur - 721635	Sampling Date Period of Analysis	:	29.10.2021 30.10.2021 - 01.11.2021		
Sampling Plan Sample ID No.		Deviation from the	Date of Issue Sampling Method and	: Plar	04.11.2021		
		ENV/50/Oct./A/VI Report N	o. : ENV/50/Oct	./TF	R(A)/VI/21-22 : Stack Emission		

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

.S.	Height of Stack (mtr.) (from G. L.)	:	30.0
	Stack I D		50.0
	Stack I.D. at sampling point (mtr.)	:	0.6096
ocess Activity (Handling of Raw Material)	Height of sampling port (mtr.) (from G.L.)	:	12.18
	rocess Activity (Handling of Raw Materials) A. : Nil	Height of sampling port (mtr.) (from G.L.) A.	Height of sampling port (mtr.) (from G.L.)

SL. NO.	TARAMETER	UNIT	B. RESULTS		
4. 5.	Flue Gas Temperature Barometric Pressure Velocity of Gas flow Quantity of Gas flow Concentration of Particulate Matter	oC mm of Hg. m/s Nm³/hr. mg/Nm³	METHOD NO. IS: 11255 (Part 1) IS: 11255 (Part 3) IS: 11255 (Part III) IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005): Sec. 11 (Vol. 3 11.07): 2011	: : : : : : : : : : : : : : : : : : : :	756.0 17.91 17530.39 16.20

Reviewed By: Drani Bhallacharyyan

DIANI BHATTACHARYA Technical Manager, Chambal

Approved By:

Dr. AJ Y PAUL Quality Manager

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