

Ref: 2175 /HPSL/U2/CPP/22-23/2175

Dated- 24.11.2022

To, The Scientist, Ministry of Environment, Forest & Climate Change, Integrated Regional Office, Aranya Bhawan, North Block, Sector-19, Naya Raipur, Atal Nagar, Chhattisgarh - 492002

Sub: Submission of Half Yearly Environment Clearance Compliance Report of the conditions stipulated in Environmental clearance for the period of April 2022 to September 2022

Ref: Environmental Clearance F.No. J-11011/836/2008/IA.II(I) Dated 11.02.2009

Respected Sir,

With reference to above subject, we are enclosing herewith Half Yearly Environment Clearance Compliance Report of the conditions stipulated in Environmental clearance accorded by MOEF vide F.No.J-11011/836/2008/IA.II(I) Dated 11.02.2009 for the period of April 2022 to September 2022 in respect of Hira Power and Steels Ltd. Unit-II (Ferro Division), Urla Industrial Complex, Raipur (C.G.)

We hope you will find the above Half Yearly Environment Clearance Compliance Report up to your satisfaction. Your valuable guidance further in this regard shall be highly appreciated.

Kindly acknowledge the receipt of the same.

Yours faithfully,

For, HIRA POWER AND STEELS LIMITED, UNIT- II (Ferro Division)

for Aviral Ziwan

Authorized Signatory

Encl: As Above

Hira Power & Steels Limited

An ISO 9001:2015 certified company CIN : U24117CT1984PLC002512

Registered Office & Works : Khasra No. 511/1, 512/2, Urla Industrial Complex, Raipur - 492003, Chhattisgarh, India P : +91 771 4082500, 4082600, F : +91 771 4082501, E : admin@hpslindia.com

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Copy to:

- The Director, Zonal Office, Central Pollution Control Board, 4th Floor, Sahkar Bhawan, North TT Nagar, Bhopal-462003.
- The Member Secretary, Chhattisgarh Environment Conservation Board, Paryavas Bhawan, North Block, Sector-19, Atal Nagar, Raipur (CG) – 492 002.
- The Regional Officer, Regional Office, Chhattisgarh Environment Conservation Board Commercial Complex Chhattisgarh Housing Board Colony, Kabir Nagar, Raipur (CG) – 492 001.

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HALF YEARLY COMPLIANCE REPORT OF THE CONDITIONS STIPULATED IN

ENVIRONMENTAL CLEARANCE

FOR

THE PERIOD OF APRIL 2022 – SEPTEMBER 2022

HIRA POWER & STEELS LTD. UNIT-II (FERRO DIVISION) Urla Industrial Complex, Raipur (C.G.) 492003



Project

Hira Power and Steels Limited

Urla Industrial Complex, Raipur, Chhattisgarh-492 003

Compliance report of the conditions stipulated in Environmental Clearance Half Yearly Compliance report for the period of April 2022 – September 2022

Environmental Clearance

Compliance status report of the conditions stipulated in Environmental Clearance accorded by MoEF vide letter F.No. J-11011/836/2008-IA II (I) Dated: 11th February 2019 for expansion of Ferro alloys plant [Unit- II, Si-Mn (9,000 TPA)/Fe-Mn (9,000 TPA)] total manufacturing capacity 18,000 MTPA at Khasra No. 513/1, 513/2, 513/3, 513/4, Urla Industrial Complex, Raipur, Chhattisgarh.

Sr. No.	A. Specific Conditions	C	ompliance Status
		been installed to MVA submerged 6.0 MVA subm	ission monitoring facility have the common stack of 3.0 & 3.6 d arc furnaces, stack attached to erged arc furnace and to the of 12MT/Heat CLU converter 8
Ē	Continuous monitoring for all the stacks and sufficient air pollution control equipments viz. fume extraction system with bag filters, ID fan and stack of adequate height to submerged arc furnace and electrostatic precipitator to captive power plant shall be provided to control emissions below 50	Particulars	 3.0 MVA submerged arc furnaces, 3.6 MVA submerged arc furnaces, 6.0 MVA submerged arc furnace, 12MT/Heat CLU converter, 600 MTPA Thermic Plant
	/NM ³ as proposed.	Pollution control Equipments	Offline pulse jet bag filter
		achieve the giv stacks is well v	trol equipments are designed to ven norms. Emission from all within prescribed limit. Monthly t is being submitted regularly to
II.	In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fume and dust extraction system with bag filters shall be provided at the material transfer and discharge points to control fugitive emissions. Further, specific measures like water sprinkling around the coal stockpiles and asphalting or concreting of the roads shall be done to control to reduce the dust generation and fugitive emissions during handling.	to reduce fugit	ntrol measures have been taken ive emission. Please refer to Photographs and Annexure-2 ision Report.





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			FUGITIV	EEMIS	SION REPOR	T
		Sr. No.	Area	Unit	Parameter	Limit (MoEF & CC Notifica tion)
		1	A&B Furnace	μg/ m ³	1498	2000
		2	C&D Furnace	μg/ m ³	1438	2000
		3	CLU Converter	μg/ m³	1568	2000
		4	Raw Material Yard	µg/ m³	1420	2000
		5	CHP Area	µg/ m ³	1642	2000
	Secondary fugitive emission from all the sources shall be controlled within the latest permissible limits issued by the Ministry and Regularly monitored Guidelines/code of practice issued by the CPCB shall be followed.	ls be	ing complied	with.		
v.	Total requirement of the water from Chhattisgarh Ispat Bhumi Ltd. shall not exceed 30m ³ /day. All the cooling tower blow down and treated effluent shall be recycled/reused in the process, dust suppression and green belt development. Domestic waste water shall be treated in septic tank followed by soak pit and used in green belt development. No waste water shall be discharged outside the factor premises and zero discharge shall be adopted.	"Zerc wate prem	r is being d lises.	has be ischarg	en adopted. ed outside tl	ne factory
V.	Prior permission for the drawl of 30m ³ /day water from Chhattisgarh Ispat Bhumi Ltd. shall be obtained from the concerned department.	100 ((CGV 500 Indus	KL/Day from NA) which is KL/Day wa	Central Attack ter fro opment	permission fo Groundwater hed as Anne m Chhattisga Corporation	r Authority exure-3 & arh State



Hira Power and Steels Limited Urla Industrial Complex, Raipur, Chhattisgarh-492 003

Compliance report of the conditions stipulated in Environmental Clearance

Is being complied with.

TCLP test report of all the slags is Attached as Annexure 5.

TCLP test shown that generated slag is nonhazardous in nature.

- > Fe-Mn slag is used as raw material for Siproduction or sold to SiMn Mn manufacturers.
- > Si-Mn slag is used as aggregate for civil work & land filling.
- Used/spent oil is being used in manufacturing of copper pad, heating ladle & machinery lubrication.
- > In case of excess quantity used oil will be sold to CECB/CPCB authorized recyclers only.

	TCLP REPO	RT	
Sample.	Parameter	Limit	Result
	Iron as Fe	-	71.2
	Manganese as Mn	10.0	5.7
	Zinc as Zn	250	51.3
	Lead as Pb	5.0	1.2
Fe-Mn	Cadmium as Cd	1.0	N.D.
Slag	Chromium as Cr	5.0	N.D.
	Arsenic as AS	5.0	N.D.
	Mercury as Hg	0.2	N.D.
Sample.	Parameter	Limit	Result
	Iron as Fe	-	78.1
T 1 (1)	Manganese as Mn	10.0	6.2
Thermite	Zinc as Zn	250	30.7
Slag	Lead as Pb	5.0	1.2
	Cadmium as Cd	1.0	N.D.
	Chromium	5.0	N.D.



All the Ferro Alloys slag shall be used for land filling inside the plant or used as building material only after passing through Toxic Chemical Leachabilit Potential (TCLP) test. Otherwise, hazardou substance shall be recovered from the slag and th output waste and the disposed in secured landfi as per CPCB guidelines. All the granulated sla vi. shall be provided to cement / brick manufacturer for bricks. No granulated slag shall be used for road construction and filling low lying areas. ET sludge after drying shall be used as fertilizer for green belt development. Used oil shall be sold recyclers / re-processors.

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		as Cr	1		
		Arsenic as AS	5.0	N.D.	
		Mercury as Hg	0.2	N.D.	
Sa	ample.	Parameter	Limit	Result	
8		Iron as Fe		70.0	
		Manganese as Mn	10.0	6.9	
	MOx	Zinc as Zn	250	78.2	
		Lead as Pb	5.0	2.6	
	Dust	Cadmium as Cd	1.0	N.D.	
		Chromium as Cr	5.0	N.D.	
		Arsenic as AS	5.0	N.D.	
		Mercury as Hg	0.2	N.D.	
Sa	ample.	Parameter	Limit	Result	
		Iron as Fe	_	37.2	
		Manganese as Mn	10.0	7.4	
		Zinc as Zn	250	58.4	
	Bag	Bag			2.8
	Day	Lead as Pb	5.0	12000	
	Filter	Cadmium	5.0	N.D.	
	1000				
	Filter	Cadmium as Cd Chromium	1.0	N.D.	
	Filter	Cadmium as Cd Chromium as Cr Arsenic as AS Mercury as	1.0 5.0	N.D.	
	Filter	Cadmium as Cd Chromium as Cr Arsenic as AS	1.0 5.0 5.0	N.D. N.D. N.D.	
S	Filter Dust	Cadmium as Cd Chromium as Cr Arsenic as AS Mercury as Hg	1.0 5.0 5.0 0.2	N.D. N.D. N.D. N.D.	





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					61.2
			Zinc as Zn	250	3.9
			Lead as Pb	5.0	5.9
			Cadmium as Cd	1.0	N.D.
			Chromium as Cr	5.0	N.D.
			Arsenic as AS	5.0	N.D.
			Mercury as Hg	0.2	N.D.
		Sample.	Parameter	Limit	Result
			Iron as Fe	-	51.4
		Fly Ash	Manganese as Mn	10.0	4.2
			Zinc as Zn	250	78.1
			Lead as Pb	5.0	3.9
			Cadmium as Cd	1.0	N.D.
			Chromium as Cr	5.0	N.D.
			Arsenic as AS	5.0	N.D.
			Mercury as Hg	0.2	N.D.
vii.	Slag produced in Ferro Manganese (Fe-Mn) production shall be used in manufacture Silico Manganese (Si-Mn)	Is being com	plied with.		
viii,	Proper handling, storage, utilization and disposal of all the solid waste shall be ensured and regular report regarding toxic metal content in the waste material and its composition, end use of solid/hazardous waste should be submitted to the Ministry's Regional Office at Bhopal, CECB and CPCB.	submitted to	e utilization the Ministry's CB and CPCB	Regiona	Office a
ix.	As proposed Green belt shall be developed in at least 34% within and around the plant premises as per the CPCB guidelines in consultation with DFO.	premises ar plantation is outside plan	s been develo nd Total of m being develo tation. Certified for Green Be	ore than ped incl d survey	a 40% o uding the report by



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Compliance report of the conditions stipulated in Environmental Clearance All the recommendations made in the charter on Responsibility Corporate for Environment Complied. x. Protection (CREP) for the Ferro Alloys units shall be strictly implemented. The company shall provide housing for construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical Complied. health care, crèche etc. The housing may be in the xi. form of temporary structures to be removed after the completion of the projects. Sr. A. General Conditions **Compliance Status** No. The project authorities must strictly adhere to the stipulations made by the Chhattisgarh Environment i., Agreed & noted for compliance. Conservation Board (CECB) and the State Government. No further expansion or modifications in the plant shall be carried out without prior approval of the Agreed & noted for compliance. ii. Ministry of Environment and Forests. The gaseous emission from the various process units shall conform to the load/mass based standards notified by the Ministry on 19th May, 1993 and standards for the relevant parameters keeping in view the nature of the industry and its Complied. iii. size and location. At no time, the emission level shall go beyond the prescribed standards; interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limits. Continuous emission monitoring facility have been installed to the common stack of 3.0 & 3.6 MVA submerged arc furnaces, common Continuous stack monitoring facilities for all the stack attached to 2 x 5.5 MVA submerged arc major stacks and adequate air pollution control furnace, stack attached to 6.0 MVA system shall be provided to keep emission levels submerged arc furnace and to the common IV. below within permissible limits and reports submitted to the Ministry's Regional Office at stack of 12MT/Head CLU converter & Thermic plant. Bhopal and CECB/CPCB once in a six month. Adequate air pollution control system have been provided to keep the emission level well



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Compliance report of the conditions	within is bei	permissible lir ng submitted & Head Office	nits and mo regularly to	the Regiona
	Sr. No	Monitoring Stack	Month	Measured Concentra tion (mg/Nm ³)
	1		April'22	34.8
	2	AB Furnace	May'22	32.6
	3	(3.0 & 3.6	June'22	30.2
	4	MVA Submerged	July'22	32.2
	5	Arc	Aug.'22	34.8
	6	Furnace)	Sept.'22	36.2
	Sr. No	Monitoring Stack	Month	Measured Concentra tion (mg/Nm ³)
	1		April'22	40.4
	2	C Furnace	May'22	42.8
	3	(5.5 MVA	June'22	40.2
	4	Submerged	July'22	42.8
	5	Arc Furnace)	Aug.'22	40.8
	6	5 - 10 m - 5	Sept.'22	42.2
	Sr. No	Monitoring Stack	Month	Measured Concentra tion (mg/Nm ³)
	1	D Furnace	April'22	32.4
	2	(5.5 MVA	May'22	34.6





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Compliance report of the conditions s	supulated	IT Environmenta	i Glearance	
	3	Submerged	June'22	32.8
	4	Arc Furnace)	July'22	36.4
	5		Aug.'22	38.4
	6		Sept.'22	36.8
	Sr. No	Monitoring Stack	Month	Measured Concentra tion (mg/Nm ³)
	1		April'22	38.8
	2	E Furnace	May'22	36.0
	3	(6.0 MVA Submerged Arc	June'22	34.6
	4	Furnace)	July'22	38.4
	5		Aug.'22	34.6
	6		Sept.'22	36.2
	Sr. No	Monitoring Stack	Month	Measured Concentra tion (mg/Nm ³)
	1		April'22	26.8
	2	CLU	May'22	28.2
	3	Converter	June'22	26.8
	4	(12	July'22	24.6
	5	MT/Heat)	Aug.'22	22.8
	6		Sept.'22	24.6
	Sr.	Monitoring	Month	Measured





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		No	Stack	¢		Conce tio (mg/N	n
		1		104	April'22	36	.8
		2	1		May'22	38	.6
		3	Captiv	e	June'22	36	.0
		4	Power P (20 MV		July'22	42	4
		5	(20 1010	·/	Aug.'22	42	
		6			Sept.'22	40	
		Regi	sion is bei onal Offi B/CPCB. F	ce of	the I	Ministry	and
		and	tack emis Anne: mentione (xure-9	ata) mer (Ambier	ntioned	above
		and data	Anne	kure-9 d belov	ata) mer (Ambier /:- Near Ch	ntioned nt air o IP Area	above quality
	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration	and	Anne	xure-9	ata) mer (Ambier /:-	ntioned nt air c	above quality
	should be established in the downward direction as well as where maximum ground level concentration of SPM, SO ² , and NO _x are anticipated in	and data Sr. No	Anne:) mentione	PM ₁₀ (µg/	ata) mer (Ambien /:- Near CH PM _{2.5} (µg/m	tioned at air c IP Area SO ₂ (μg/ m ³) 20.4	above quality NOx (µg/ m ³) 32.4
v.	should be established in the downward direction as well as where maximum ground level concentration of SPM, SO ² , and NO _x are anticipated in consultation with CECB. Data on ambient air	and data Sr. No 1 2	Anne:) mentione Month April'22 May'22	PM10 (µg/ m ³) 86.4 92.4	ata) mer (Ambien /:- Near CH PM _{2.5} (µg/m ³) 42.8 46.8	tioned at air c HP Area SO ₂ (μg/ m ³) 20.4 20.8	above quality NO _x (µg/ m ³) 32.4 36.8
v.	should be established in the downward direction as well as where maximum ground level concentration of SPM, SO ² , and NO _x are anticipated in consultation with CECB. Data on ambient air guality and stack emission should be regularly	and data Sr. No 1 2 3	Anne:) mentione Month April'22 May'22 June'22	PM ₁₀ (μg/ m ³) 86.4 92.4 90.6	ata) mer (Ambien /:- Near CH PM2.5 (µg/m 3) 42.8 46.8 42.0	tioned at air c HP Area SO ₂ (μg/ m ³) 20.4 20.8 18.8	above quality NOx (µg/ m ³) 32.4 36.8 34.2
v.	should be established in the downward direction as well as where maximum ground level concentration of SPM, SO ² , and NO _x are anticipated in consultation with CECB. Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional	and data Sr. No 1 2 3 4	Anne:) mentione Month April'22 May'22 June'22 June'22 July'22	xure-9 d below PM ₁₀ (μg/ m ³) 86.4 92.4 90.6 84.4	ata) mer (Ambien /:- Near CH PM _{2.5} (µg/m 3) 42.8 46.8 42.0 38.2	tioned at air c IP Area SO ₂ (μg/ m ³) 20.4 20.8 18.8 14.6	above quality NOx (µg/ m ³) 32.4 36.8 34.2 34.2
v.	should be established in the downward direction as well as where maximum ground level concentration of SPM, SO ² , and NO _x are anticipated in consultation with CECB. Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional Office at Bhopal and the CECB/CPCB once in six	and data Sr. No 1 2 3 4 5	Anne: mentione Month April'22 May'22 June'22 July'22 Aug.'22	xure-9 d below PM ₁₀ (μg/ m ³) 86.4 92.4 90.6 84.4 74.8	ata) mer (Ambien /:- Near CH PM _{2.5} (µg/m ³) 42.8 46.8 42.0 38.2 30.4	tioned at air c IP Area SO ₂ (μg/ m ³) 20.4 20.8 18.8 14.6 12.8	above quality NOx (µg/ m ³) 32.4 36.8 34.2 34.2 32.6
v.	should be established in the downward direction as well as where maximum ground level concentration of SPM, SO ² , and NO _x are anticipated in consultation with CECB. Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional	and data Sr. No 1 2 3 4	Anne:) mentione Month April'22 May'22 June'22 June'22 July'22	xure-9 d below PM ₁₀ (μg/ m ³) 86.4 92.4 90.6 84.4	ata) mer (Ambien /:- Near Cl- PM _{2.5} (µg/m 3) 42.8 46.8 42.0 38.2 30.4 24.4	tioned at air c HP Area SO ₂ (μg/ m ³) 20.4 20.8 18.8 14.6 12.8 14.8	above quality NOx (µg/ m ³) 32.4 36.8 34.2 34.2
v.	should be established in the downward direction as well as where maximum ground level concentration of SPM, SO ² , and NO _x are anticipated in consultation with CECB. Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional Office at Bhopal and the CECB/CPCB once in six	and data Sr. No · 1 2 3 4 5 6	Anne: mentione Month April'22 May'22 June'22 July'22 Aug.'22	xure-9 d below PM10 (µg/ m ³) 86.4 92.4 90.6 84.4 74.8 64.2	ata) mer (Ambien /:- Near Cl- PM2.5 (µg/m 3) 42.8 46.8 42.0 38.2 30.4 24.4 Besid	tioned at air of P Area SO ₂ (µg/ m ³) 20.4 20.8 18.8 14.6 12.8 14.8 e Silo	above quality NO _x (µg/ m ³) 32.4 36.8 34.2 34.2 34.2 32.6 26.6
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v.	should be established in the downward direction as well as where maximum ground level concentration of SPM, SO ² , and NO _x are anticipated in consultation with CECB. Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional Office at Bhopal and the CECB/CPCB once in six	and data Sr. No 1 2 3 4 5 6 Sr. No	Anne: mentione Month April'22 May'22 June'22 July'22 Aug.'22 Sept.'22 Month	xure-9 d below PM ₁₀ (μg/ m ³) 86.4 92.4 90.6 84.4 74.8 64.2 PM ₁₀ (μg/ m ³)	ata) mer (Ambien /:- Near Cl- PM _{2.5} (µg/m 3) 42.8 46.8 42.0 38.2 30.4 24.4 Besid PM _{2.5} (µg/m 3)	tioned at air c HP Area SO ₂ (μg/ m ³) 20.4 20.8 14.6 12.8 14.6 12.8 14.8 e Silo SO ₂ (μg/ m ³)	above quality NO _x (µg/ m ³) 32.4 36.8 34.2 34.2 32.6 26.6 26.6 NO _x (µg/ m ³)
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v.	should be established in the downward direction as well as where maximum ground level concentration of SPM, SO ² , and NO _x are anticipated in consultation with CECB. Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional Office at Bhopal and the CECB/CPCB once in six	and data Sr. No 1 2 3 4 5 6 8 7. No 1 2 3 4 5 6 8 7. No	Anne: mentione Month April'22 May'22 June'22 July'22 Aug.'22 Sept.'22 Month April'22 May'22	xure-9 d below PM10 (μg/ m ³) 86.4 92.4 90.6 84.4 74.8 64.2 PM10 (μg/ m ³) 72.8 84.8	ata) mer (Ambien /:- Near CH PM2.5 (µg/m 3) 42.8 46.8 42.0 38.2 30.4 24.4 Besid PM2.5 (µg/m 3) 46.4 48.2	tioned at air of IP Area SO ₂ (µg/ m ³) 20.4 20.8 18.8 14.6 12.8 14.8 e Silo SO ₂ (µg/ m ³) 18.4 16.4	above quality NO _x (µg/ m ³) 32.4 36.8 34.2 34.2 32.6 26.6 26.6 NO _x (µg/ m ³) 34.8 30.2



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Compliance report of the conditions at	pulan	CO IN LIVINON	THE HER	Oleanar.	166	
	6	Sept.'22	60.	6 28.	2 8.2	22.4
	Sr.	1		Solar	Panel A	rea
		No Month		10 PM	2.5 SO	2 NO
		wonth	(µg		CONTRACT CONTRACTOR OF	1701 A.C. 2017
			m ³			
	1	April'22	84.	8 48.	2 16.8	3 26.4
	2	May'22	88.	2 52.	8 12.8	3 34.2
	3	June'22	92.3	2 40.	8 14.8	3 33.2
	4	July'22	82.8	B 34.	6 12.8	3 36.2
	5	Aug.'22	68.8	8 28.	6 14.4	1 22.8
	6	Sept.'22	58.4	4 26.	2 10.8	3 26.2
	e.,			Ma	ain Gate	
	Sr. No		PM	o PM	2.5 SO:	NO
		wonu	(µg m ³)	/ (µg/	m (µg/	(µg
	1	April'22	76.			
	2	May'22	80.6	3 32.	8 18.4	32.8
	3	June'22	84.6	3 36.	8 16.4	38.8
	4	July'22	74.	5 30.	2 16.6	34.4
	5	Aug.'22	60.4	4 24.	8 10.8	3 26.4
	6	Sept.'22	62.8	3 30.	2 12.4	30.8
Industrial waste water shall be properly collected	Effl Ani silte sup Cor	being compli- uent Treatr nexure-10. eration tai opression, nditioning. V ached as An	nent The nk i Wate Vastev	Scheme treate s utili r Spri water A	ed wate zed fo nkling	er from r Dus & Asl
treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st December 1993 or as amended from	Effluent Analysis Report (Apr					2022)
time to time. The treated waste water shall be utilized for plantation purpose.	S . N o	Location	Un it	Limit	Inlet Water	Outle Wate
	1	pН	-	5.5 to 9.0	9.22	7.67
	2	TSS	mg /L	100	68.0	12.6



-IIRA 1

HIRA POWER & STEELS

Project

Hira Power and Steels Limited Urla Industrial Complex, Raipur, Chhattisgarh-492 003

Compliance report of the conditions st		and an enteringer	Dimarcice.	n orearan	00	
	3	COD	mg /L	250	79.3	40.8
	4	BOD	mg /L	30	16.4	6.8
	5	Oil & Grease	mg /L	10	1.9	N.D.
		Effluent A	nalys	is Repo	rt (May 2	022)
	S N o	Paramete r	Un it	Limit	Inlet Water	Outlet Water
	1	pН	-	5.5 to 9.0	8.97	8.55
	2	TSS	mg /L	100	48.0	18.0
8	3	COD	mg /L	250	68.0	42.0
	4	BOD	mg /L	30	8.4	7.6
	5	Oil & Grease	mg /L	10	1.2	N.D.
		Effluent A	nalysi	s Repor	t (June 2	:022)
	S .N o	Paramete r	Un it	Limit	Inlet Water	Outlet Water
	1	pН		5.5 to 9.0	7.93	7.24
	2	TSS	mg /L	100	54.0	14.0
	3	COD	mg /L	250	74.0	34.0
	4	BOD	mg /L	30	6.8	3.4
	5	Oil & Grease	mg /L	10	1.4	N.D.
		Effluent A	nalys	is Repo	rt (July 2	022)



HIRA POWER & STEELS

Project

Hira Power and Steels Limited

Urla Industrial Complex, Ralpur, Chhattisgarh-492 003

S.N.O	Paramete	Un it	Limit	Inlet Water	Outlet Water
1	pН	-	5.5 to 9.0	7.82	7.18
2	TSS	mg /L	100	68.0	20.0
3	COD	mg /L	250	86.0	24.0
4	BOD	mg /L	30	7.2	2.8
5	Oil & Grease	mg /L	10	1.2	N.D.
	Effluent A	nalysi	is Repor	t (Aug. 2	022)
S . N 0	Paramete r	Un it	Limit	Inlet Water	Outlet Water
1	pН	-	5.5 to 9.0	7.64	7.34
2	TSS	mg /L	100	82.0	24.0
3	COD	mg /L	250	74.0	34.0
4	BOD	mg /L	30	8.4	3.6
5	Oil & Grease	mg /L	10	1.4	N.D.
	Effluent Ar	nalysi	s Repor	t (Sept. 2	022)
S N O	Paramete r	Un it	Limit	Inlet Water	Outlet Water
1	pН		5.5 to 9.0	7.55	7.18
2	TSS	mg /L	100	62.0	22.0
3	COD	mg	250	54.0	22.0



HIRA POWER & STEELS

Project

Hira Power and Steels Limited Urla Industrial Complex, Raipur, Chhattisgarh-492 003

_		1		/1				
			20000000	/L. mg	20	47		6.4
		4	BOD	/L	30	16	5.2	6.4
		5	Grease	mg /L	10	1	.0	N.D.
		Ple	being complie ease refer onitoring Rep	Ann	n. Iexur	e-12	for	Noise
			Noise Moni	toring	Rep	ort- A	pril 202	22
				Un	Li	mit	Re	sult
		N O	Location	it	D A Y	NIG HT	DAY	NIG HT
		1	Near CHP Area	Db (A)			64.8	48.8
	all noise levels in and around the plant Il be kept well within the standards	2	Beside Silo	Db (A)			66.2	50.8
(85dBA) b including ac	y providing noise control measures coustic hoods, silencers, enclosures etc. ces of noise generation. The ambient	3	Solar Panel Area	Db (A)	75	70	61.2	52.8
noise le	evels shall conform to the standards ed under EPA Rules, 1989 viz. 75 dBA	4	Main Gate	Db (A)			64.2	56.5
(da	y time) and 70 dBA (Night time).		Noise Moni	toring	Rep	ort – M	May 202	22
		S.			Li	mit	Re	sult
		N O	Location	Un it	D A Y	NIG HT	DAY	NIG HT
		1	Near CHP Area	Db (A)			68.2	46.6
		2	Beside Silo	Db (A)	75	70	62.9	52.4
		3	Solar Panel Area	Db (A)			60.1	54.2



HIRA POWER & STEELS

Hira Power and Steels Limited Urla Industrial Complex, Raipur, Chhattisgarh-492 003 Project

Compliance report of the conditions			Db				
	4	Main Gate	(A)			66.5	52.9
		Noise Monit	toring	Rep	ort - J	une 20	22
	S.		Un	Li	mit	Re	sult
	N O		it	D A Y	NIG HT	DAY	NIG HT
	1	Near CHP Area	Db (A)			68.6	54.6
	2	Beside Silo	Db (A)			62.2	58.8
	3	Solar Panel Area	Db (A)	75	70	64.8	50.2
	4	Main Gate	Db (A)			60.5	56.8
		Noise Monitoring Report - July 2022					
	S.	S.		Li	mit	Re	sult
	N o	Location	Un it	D A Y	NIG HT	DAY	NIG HT
	1	Near CHP Area	Db (A)			68.6	54.6
	2	Beside Silo	Db (A)			62.2	58.8
	3	Solar Panel Area	Db (A)	75	70	64.8	50.2
	4	Main Gate	Db (A)			60.5	56.8
		Noise Monit	toring	Rep	ort – A	ug. 20	22
	S. N	Location	Un it	D	mit	Re	sult





Project : Hira Powe

Hira Power and Steels Limited Urla Industrial Complex, Raipur, Chhattisgarh-492 003

		0			D A Y	NIG HT	DAY	NIG HT
		1	Near CHP Area	Db (A)			64.4	52.5
		2	Beside Silo	Db (A)			60.8	56.9
		3	Solar Panel Area	Db (A)	75	70	68.2	54.4
		4	Main Gate	Db (A)			66.4	50.8
		Noise Monitoring Report – Sept. 202						22
		N Location O Near CHP E	S. Un		Limit		Result	
			1.112320202020202020	it	D A Y	NIG HT	DAY	NIG HT
			1 S. S. STERN STATE 1983	Db (A)			60.2	50.2
		2	Beside Silo	Db (A)			62.6	54.4
		3	Solar Panel Area	Db (A)	75	70	68.4	52.8
		4	Main Gate	Db (A)			58.6	56.2
viii.	Occupation health surveillance of the workers shall be done on a regular basis and records maintained	He	ease refer to ealth surveilla	nce of	the v			
ix.	as per the Factory Act. The company shall develop surface water harvesting structure to harvest the rain water for utilization in the lean season besides reaching the ground water table.		per the Facto	any Ac	ι.			



HIRA POWER & STEELS

Project Hira Power and Steels Limited Urla Industrial Complex, Raipur, Chhattisgarh-492 003

Compliance report of the conditions stipulated in Environmental Clearance

x.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP reports. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.	Com Com toilet	plying. pany has constructe	ed cremation center, antation have been
	The project authorities shall provide Rs. 15.00 Lakhs earmarked towards the capital cost and	towa annu meas Minis	m for environment sures as per cond stry of Environment e State Government	recurring cost per al pollution control itions stipulated by and Forests as well
xi.	recurring cost per annum for environmental pollution control measure shall be judiciously used to implement the conditions stipulated by the	Sr. No		Capital Cost and Recurring Cost for period of April 22 Sept. 22 (Lakhs)
		01.	3.0 MVA, 3.6 MVA & 6.0 MVA submerged arc furnace, 12MT/Heat CLU converter and 600 MTPA Thermic Plant	165.73
xii.	The Regional Office of the Ministry at Bhopal/CPCB/CECB will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	Pleas / CPI perio	ing complied with. se refer to our letter l P/22-23/2033, dated	No. 2033 /HPSL /U2 31.05.2022 for the 1 to March 2022. 1 .



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HIRA POWER & STEELS

Project : Hira Power and Steels Limited Urla Industrial Complex, Raipur, Chhattisgarh-492 003

Compliance report of the conditions stipulated in Environmental Clearance

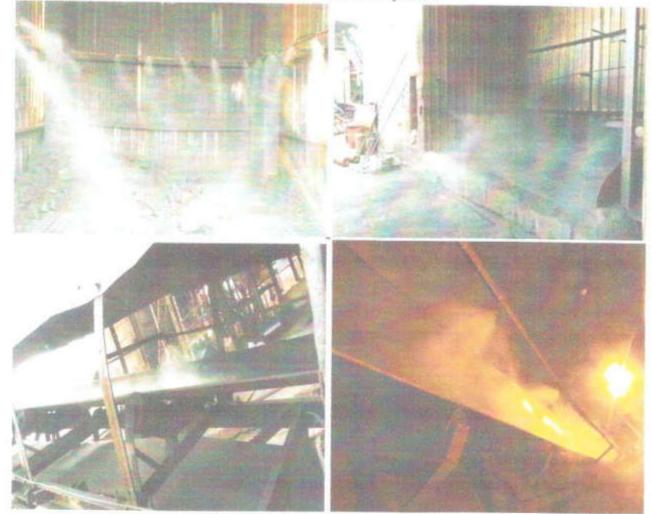
xiii.	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letters are available with CECB and may also be seen at website of Ministry of Environment & Forests at http:/envfor.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional Office.	Complied.
xiv.	Project authority shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Date of Financial Closure – November 2009. Date of Final Approval of the project by the concerned authorities - 24 September 2009. Date of Commencing the land development work- October 2009.



17 | P = p e

Measures taken to control the fugitive emission

1. Fogging system on conveyor belts and transfer points



2. Covered shed for crusher



Annexure - I

3. RCC Road, Pneumatic sweeping and water sprinkling









RCC Road

RCC Road



Static Sprinklers

Mobile Sprinklers



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Name & Address Of The Customer To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		REPORT NO LAB REF NO DATE OF SAMPLING DATE OF RECEIPT DATE OF REPORT DATE OF ANALYSIS	UES/TR/22-23/0344 UES/22-23/FE/0383 16/04/2022 17/04/2022 22/04/2022 Start:17/04/2022	
	SAMP	LE DETAILS		1 4 5 5 1 1 5
MONITORING FOR	FUGITIVE EMIS	SION		
CUSTOMER REF. NO. &DATE	P.O. NO. 11/HP	SL U102/PO/21-22/88, DA	TED: 24.10.2021	
SAMPLING LOCATION	A & B FURNACE			
DURATION OF SAMPLING	8 HOURS			
SAMPLE COLLECTED BY	LABORATORY C	HEMIST		
SAMPLING PROCEDURE	AS PER METHO	D REFERENCE		
SAMPLE QUANTITY/PACKING	GMF FILTER PA	PER (8 X 10 INCH): 1X1 NO.		

	TEST REPORT								
SR.		UNIT	RESULT	MOEF & CC	METHOD				
NO.	PARAMETER	UNIT	A & B FURNACE	Notification	REFERENCE				
1	Total Suspended Particulate Matter (as SPM)	µg/m³	1498	2000	EPA Method IO-2.1				

REMARKS: RESULTS ARE AS ABOVE

- > The report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15days after issue of test report unless otherwise agreed with customer.
- > This is for information as the party has asked for above test(s) only



-----End of the test report-----End of the test report-----



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Name & Address Of The Customer To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		REPORT NO LAB REF NO DATE OF SAMPLING DATE OF RECEIPT DATE OF REPORT DATE OF ANALYSIS	UES/TR/22-23/0345 UES/22-23/FE/0384 16/04/2022 17/04/2022 22/04/2022 Start:17/04/2022		
	SAMP	LE DETAILS		Leven Ing	
MONITORING FOR	FUGITIVE EMISS	SION			
CUSTOMER REF. NO. &DATE	P.O. NO. 11/HP	SL U102/PO/21-22/88, DA	TED: 24.10.2021		
SAMPLING LOCATION	C & D FURNACE				
DURATION OF SAMPLING	8 HOURS				
SAMPLE COLLECTED BY	LABORATORY C	HEMIST			
SAMPLING PROCEDURE	AS PER METHO	D REFERENCE			
SAMPLE QUANTITY/PACKING	GMF FILTER PA	GMF FILTER PAPER (8 X 10 INCH): 1X1 NO.			

	TEST REPORT								
SR. NO.	PARAMETER		RESULT	MOEF & CC	METHOD				
		UNIT	C & D FURNACE	Notification	REFERENCE				
1	Total Suspended Particulate Matter (as SPM)	µg/m³	1438	2000	EPA Method IO-2.1				

REMARKS: RESULTS ARE AS ABOVE

- > The report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15days after issue of test report unless otherwise agreed with customer.
- > This is for information as the party has asked for above test(s) only



-----End of the test report-----



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Name & Address Of The Customer To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		REPORT NO LAB REF NO DATE OF SAMPLING DATE OF RECEIPT DATE OF REPORT DATE OF ANALYSIS	LAB REF NO UES/22-23/FE/038 DATE OF SAMPLING 16/04/2022 DATE OF RECEIPT 17/04/2022 DATE OF REPORT 22/04/2022	
	SAMI	PLE DETAILS		Constant of the
MONITORING FOR	FUGITIVE EMIS	SION		
CUSTOMER REF. NO. &DATE	P.O. NO. 11/HP	PSL U102/PO/21-22/88, DA	TED: 24.10.2021	
SAMPLING LOCATION	CONVERTOR C	LU		
DURATION OF SAMPLING	8 HOURS			
SAMPLE COLLECTED BY	LABORATORY O	CHEMIST		
SAMPLING PROCEDURE	AS PER METHO	D REFERENCE		
SAMPLE QUANTITY/PACKING	GMF FILTER PA	PER (8 X 10 INCH): 1X1 NO.		

	TEST REPORT							
SR.	PARAMETER		RESULT	MOEF & CC	METHOD			
NO.		UNIT	CONVERTOR CLU	Notification	REFERENCE			
1	Total Suspended Particulate Matter (as SPM)	µg/m³	1568	2000	EPA Method IO-2.1			

REMARKS: RESULTS ARE AS ABOVE

- > The report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15days after issue of test report unless otherwise agreed with customer.
- > This is for information as the party has asked for above test(s) only



-----End of the test report-----



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Name & Address Of The Customer To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		REPORT NO LAB REF NO DATE OF SAMPLING DATE OF RECEIPT DATE OF REPORT DATE OF ANALYSIS	UES/TR/22-23/0347 UES/22-23/FE/0386 16/04/2022 17/04/2022 22/04/2022 Start:17/04/2022	86	
	SAM	PLE DETAILS	Strate It. St	Sector Sector	
MONITORING FOR	FUGITIVE EMIS	SION			
CUSTOMER REF. NO. &DATE	P.O. NO. 11/H	PSL U102/PO/21-22/88, DA	TED: 24.10.2021		
SAMPLING LOCATION	RAW MATERIA	L YARD			
DURATION OF SAMPLING	8 HOURS				
SAMPLE COLLECTED BY	LABORATORY	CHEMIST			
SAMPLING PROCEDURE	AS PER METHO	D REFERENCE			
SAMPLE QUANTITY/PACKING	GMF FILTER PA	PER (8 X 10 INCH): 1X1 NO.			

	TEST REPORT								
SR. NO.	PARAMETER		RESULT	MOEF & CC	METHOD				
		UNIT	RAW MATERIAL YARD	Notification	REFERENCE				
1	Total Suspended Particulate Matter (as SPM)	µg/m³	1420	2000	EPA Method IO-2.1				

REMARKS: RESULTS ARE AS ABOVE

- > The report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15days after issue of test report unless otherwise agreed with customer.
- > This is for information as the party has asked for above test(s) only



-----End of the test report-----



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Name & Address Of The Customer To, HIRA POWER AND STEE KHASRA NO.: 511/1, 512 URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003	/2, A	REPORT NO LAB REF NO DATE OF SAMPLING DATE OF RECEIPT DATE OF REPORT DATE OF ANALYSIS	UES/TR/22-23/0348 UES/22-23/FE/0387 16/04/2022 17/04/2022 22/04/2022 Start:17/04/2022	
		PLE DETAILS	and the state of the state	CHE IN 2
MONITORING FOR	FUGITIVE EMIS	SSION		
CUSTOMER REF. NO. &DATE	P.O. NO. 11/H	PSL U102/PO/21-22/88, DA	TED: 24.10.2021	
SAMPLING LOCATION	CHP AREA			
DURATION OF SAMPLING	8 HOURS			
SAMPLE COLLECTED BY	LABORATORY	CHEMIST		-
SAMPLING PROCEDURE	AS PER METHO	DD REFERENCE		
SAMPLE QUANTITY/PACKING	GMF FILTER PA	PER (8 X 10 INCH): 1X1 NO.		

		TEST	REPORT		J.S. F.L
SR.	PARAMETER		RESULT	MOEF & CC	METHOD
NO.	PARAMETER	UNIT	CHP AREA	Notification	REFERENCE
1	Total Suspended Particulate Matter (as SPM)	µg/m³	1642	2000	EPA Method IO-2.1

REMARKS: RESULTS ARE AS ABOVE

- > The report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15days after issue of test report unless otherwise agreed with customer.
- This is for information as the party has asked for above test(s) only



-----End of the test report-----

ANNEXURE - 111



भारत सरकार जल शकित मंत्रालय जत संसाधन, मंदी विकास और गंगा संरक्षण विभाग केन्द्रीय भूमि जल प्राधिकरण Government of India Ministry of Jal Shakti Department of Water Resources. River Development & Ganga Rejuvenation Central Ground Water Authority

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र) NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

Project Name:			M/s	Hira Po	ower A	and Stee	els Limit	ed Unit	li				
Project Address:			Urla	Indust	rial Are	ea							
Town:			Birg	aon (m)			Block	D	harsiwa			
District:			Raip	ur				State		hhattisgar	b		
Pin Code:			1203					otate.	U.	nnatusyar	0		
Communication Ad	dress:		Hira Dhai	Power siwa, F	And S Raipur,	teels Lt	d. Unit I isgarh -	i, Urla I 492003	ndustri	al Area, K	h. No.	511/1, 5	12/2,
Address of CGWB	Regiona	I Office	: Cent	ral Gro Logistic	und W	later Bo	ard Nor	th Cent	ral Chł	hattisgarh, hartarai, Ra	2nd Flo aipur, C	oor, Lk (hhattisg	Corporat Jarh -
1. NOC No.:	CG	WA/NO	C/IND/C	RIG/2	021/12	176							
2. Application No.:			CT/IND/				3.	Catego (GWR			itical		
4. Project Status:	Exis	ting Pro	oject				5.	NOC T		Ne	w		
6. Valid from:	area a	6/2021						Valid u			06/202	4	
8. Ground Water Al	ostractio	n Perm	itted:								0012.02		
Fresh Water			Salin	e Wate	r		De	waterin	g			Total	
	/year	m	/day	m	/year	1 1	m³/day		n³/year	r m³	/day		³ /year
	20.00								-				1.000
Details of ground	water a	bstracti	on /Dev	/atering	g struc	tures							
	Tot	tal Exis	ting No	.:4					1	Total Prop	osed N	10.:2	
and the second		DW	DCB	BW	TW	MP	MPu	DW	DCB		TW	MP	MPu
Abstraction Struct		0	0	4	0	0	0	0	0	2	0	0	0
DW- Dug Well: DCB-Dug-	cum-Bore	Well; BW	/-Bore We	II, TW-T	ube Wel	II; MP-Min	e Pit;MPu	-Mine Pu	mps				
10. Ground Water Ab						(Rs.):				3818	40.00		
 Number of Piezor constructed/ mon 	neters(C itored &	Observa Monitor	tion wel	ls) to b chanisr	e I n.	No. of P	liezome	ters		Monitorin	g Mech	anism	
								M	anual	DWLR**	DWLR	With T	elemetry
**DWLR - Digital Wate	-												

This is an auto generated document & need not to be signed.

18/11, जामनगर हाउस, मानसिंह रोठ, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011 Phone: (011) 23383561 Fax: 23382051, 23386743 Website: cgwa-noc.gov.in

> पानी बचाये - जीवन वचाये SAVE WATER - SAVE LIFE

Validity of this NDC shall be subject to compliance of the following conditions:

Mandatory conditions:

1) Installation of tamper shoot a gital water flow meter with teametry on all the abstraction structure(s) analise mandatory for all users seeking No Objection Certificate and intrination regarding their installation shall be communicated to the CGWA within 30 days of grant of No Objection Certificate.

2) Proponents shall mandatorily get water flow mener calibrated from an authorized agoncy once in a year.

3) Construction of purpose-built observation wells (plezometers) for ground water level monitoring shall be mandatory as per Section 14 of Guidelines. Water level data shall be made available to CGWA through web contail. Detailed guidelines for construction of plezometers are given in Annexure-II of the guidelines.

6) Proponents shall monitor quality of ground water from the abstraction structure(a) once in a year. Water samples from tone wells/ tube wells / dug wells shall be collected during April/May every year and analysed in NABL accredited laboratories for basic parameters (cations and anions), heavy metals, bestrictes/ organic compounds str. Water quality data shall be made available to CG/WA through the web portal.

5) In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine.

6) In case of mining project the firm shall submit water quality report of mine discharge' skepage from Gout, approved NABL accredited late.

7) The firm shall report compliance of the NOC conditions online in the website (www.cgwainoc.gov.in) within one year from the date of issue of this NOC.

8) Inclustnes abstracting ground water in excess of 100 m 3 /d shall undertake annual water audit through certified auditors and submit audit reports within three months of completion of the same to CGWA. All such industries shall be required to reduce their ground water use by at least 25% over the next three years through appropriate means.

9) Application for renewal can be submitted online from 90 days before the expiry of NOC. Ground water withdrawal, if any, after expiry of NOC shall be iteger & liable for legel action as per provisions of Environment (Protection) Act, 1986.

10) This NOC is subject to prevailing Central/State Government rules/laws/norms or Court orders related to construction of tube well/ground water abstraction structure / recharge or conservationstructure/discharge of efficients or any such matter as applicable

General conditions:

11) No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).

12) The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific penod).

13) Proponents shall install roof top rain water harvesting in the premise as per the existing building bye laws in the premise.

14). The project proponent shall take all necessary measures to prevent contamination of ground water in the premises failing which the firm shall be responsible for any consequences arising thereupon.

15) In case of industries that are likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the runoflop shall be stored and put to beneficial use by the firm.

16) Wherever feasible, requirement of water for greenbelt (horticulture) shall be met from recycled / treated waste water.

17) Wherever the NOC is for abstraction of saline water and the existing wells (s) is (are yielding fresh water, the same shall be sealed and new tubewell(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.

18) Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the concerned Regional Director, Central Ground Water Board.

19) In case of violation of any NGC conditions, the applicant shall be liable to pay the penalties as per Section 16 of Guidelines.

20) This NOC does not absolve the proponents of their obligation / requirement to obtain other statutory and administrative clearances from appropriate authorises.

21) The issue of this NOC does not imply that other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.

22). In case of change of ownership, new owner of the industry will have to apply for incorporation of necessary changes in the No Objection Certificate with documentary proof within 60 days of taking over possession of the premises.

23) This NOC is being issued without any prejudice to the directions of the Honble NGT/court orders in cases reliated to ground water or any other related matters.

24) Proponents, who have installed/constructed antificial recharge structures in compliance of the NOC granted to them previously and have availed rebate of upto 50% (http percent) in the ground water abstraction charges/ground water restoration charges, shall continue to regularly maintain artificial recharge structures.

25) Industries which are likely to cause ground water pollution e.g. Tanning. Slaughter Houses. Dye. Chemical Petrochemical, Coal washenes, pharmaceutical, other hazardous units etc. (as per CPCE list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution as per Annexure III of the guidelines.

26) In case of new infrastructure projects having ground water abstraction of more than 20 m3/day, the firm/entity shall ensure implementation of dual water supply system in the projects.

27) In case of infrastructure projects, paved/parking area must be covered with interlocking/perforated tiles or other suitable measures to ensure groundwater infitration/harvesting.

26) In case of coal and other base metal mining projects, the project proponent shall use the advance dewatering technology (by construction of series of dewatering abstraction structures) to avoid contamination of surface water.

29) The NOC issued is conditional subject to the conditions mentioned in the Public notice dated 27.01 2021 failing which penalty/EC/cancellation of NOC shall be imposed as the case may be 30) This NOC is issued subject to the clearance of Expert Appraisal Committee (EAC) (if applicable).

(Non-compliance of the conditions mentioned above is likely to result in the cancellation of NOC and legal action against the proponent.)



Chhattisgårh State Industrial Development Corporation Limited (A Government of Chhattisgarh Undertaking) (ISO 9001:2015 Certified) First Floor, Udyog Bhawan, Ring Road No.-1, Telibandha, Raipur-492006 (C.G.) CIN : U45203CT1981SG001853, PAN : AABCM6288N, GST Regn. No. : 22AABCM6288N5ZY Phone No. : 0771-6002071, 72, 73, Fax No. : 0771-2583794 Website: www.csidc.in. Email address: csidc_raipur@yahoo.com, csidc.cg@nic.in

No./CSIDC/EE/DIV.-II/2020-21/

ŝ

WATER AVAILABILITY/ NON-AVAILABILITY

CERTIFICATE FOR FRESH/TREATED WATER

TO WHOMSOEVER IT MAY CONCERN

This is to certificate that this office of Chhattisgarh State Industrial Development Corporation Ltd. is providing fresh water supply to the tune of 500 KLD to the firm M/s Hira Power & Steels, Located at Urla Industrial Complex, Block/Taluka Dharshiwa Distt. Raipur State Chhattisgarh

Raipur, Dateda Q/01/2021

Executive Engineer EXECUTIVE OF NOINEER CSIDC LIMITED, ~ RAIPUR

6 F: HRVerma Tech-02 Letteri 2019-201 Letter (Envlish) doc

Annex.-V

Format No. : UES/FORM/09



HDD-272, Phase III - Near JP Chowk Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099 Ph : 0771 - 4027777 I Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Name & Address Of The Customer TO, HIRA POWER & STEELS LIMITED PLOT NO. 557, 563 & 564, URLA INDUSTRIAL COMPLEX, URLA, RAIPUR – 492003, CHHATTISGARH, INDIA		REPORT NO. LAB REF NO. DATE OF SAMPLING DATE OF RECEIPT DATE OF REPORT	UES/TR/21-22/ UES/21-22/MI 19/09/2022 20/09/2022 24/09/2022	AISC/09919	
	SAM	DATE OF ANALYSIS	SIS Start:20/09/2022		END:24/09/2022
CUSTOMER SAMPLE ID	AOD SLAG	CUSTOMER REF. NO. & D/	ATE	1000000000	COMMUNICATION
SAMPLE TYPE	SLAG	SAMPLE CONDITION AT R	ECEIPT	OK	
SAMPLE COLLECTED BY	CUSTOMER	QUANTITY RECEIVED		1 KG.	

-	TEST REPORT								
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMIT SCHEDULE II [See rule 3 (1) (17) (ii)]	RESULT				
1	Iron as Fe	mg/l	USEPA METHOD-1311	-	16.7				
2	Manganese as Mn	mg/l	USEPA METHOD-1311	10.0	8.9				
3	Zinc as Zn	mg/l	USEPA METHOD-1311	250	61.2				
4	Lead as Pb	mg/l	USEPA METHOD-1311	5.0	3.9				
5	Cadmium as Cd	mg/l	USEPA METHOD-1311	1.0	N.D.				
6	Chromium as Cr	mg/l	USEPA METHOD-1311	5.0	N.D.				
7	Arsenic as As	mg/l	USEPA METHOD-1311	5.0	N.D.				
8	Mercury as Hg	mg/l	USEPA METHOD-1311	0.2	N.D.				

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

The above analysis report refers to the particular sample received at our end and the use of the report for publication, arbitration or as legal dispute is forbidden.

> Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.





Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Name & Address Of The Customer TO, HIRA POWER & STEELS LIMITED PLOT NO. 557, 563 & 564, URLA INDUSTRIAL COMPLEX, URLA, RAIPUR – 492003, CHHATTISGARH, INDIA		REPORT NO. LAB REF NO. DATE OF SAMPLING DATE OF RECEIPT DATE OF REPORT DATE OF ANALYSIS	UES/TR/21-22/ UES/21-22/MIS 19/09/2022 20/09/2022 24/09/2022 Start:20/09/20	1ISC/09920		
en una presidente m	SAME		Start:20/05/2022		END:24/09/2022	
CUSTOMER SAMPLE ID	Fe Mn SLAG	CUSTOMER REF. NO. & D/	ATE	1272335	COMMUNICATION 17/09/2022	
SAMPLE TYPE	SLAG	SAMPLE CONDITION AT R	ECEIPT	OK		
SAMPLE COLLECTED BY	CUSTOMER	QUANTITY RECEIVED		1 KG.		

	TEST REPORT								
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMIT SCHEDULE II [See rule 3 (1) (17) (iii)]	RESULT				
1	Iron as Fe	mg/l	USEPA METHOD-1311	-	71.2				
2	Manganese as Mn	mg/l	USEPA METHOD-1311	10.0	5.7				
3	Zinc as Zn	mg/l	USEPA METHOD-1311	250	51.3				
4	Lead as Pb	mg/l	USEPA METHOD-1311	5.0	1.2				
5	Cadmium as Cd	mg/l	USEPA METHOD-1311	1.0	N.D.				
6	Chromium as Cr	mg/l	USEPA METHOD-1311	5.0	N.D.				
7	Arsenic as As	mg/l	USEPA METHOD-1311	5.0	N.D.				
8	Mercury as Hg	mg/l	USEPA METHOD-1311	0.2	N.D.				

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Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Name & Address Of The Customer TO, HIRA POWER & STEELS LIMITED PLOT NO. 557, 563 & 564, URLA INDUSTRIAL COMPLEX, URLA,		REPORT NO. LAB REF NO. DATE OF SAMPLING DATE OF RECEIPT	UES/21-22/MIS	20/09/2022	
RAIPUR – 492003, CHHATTISGARH, INDIA	DATE OF REPORT	24/09/2022			
1011 ON - 452005,	CHIAT HISBARH, INDIA	DATE OF ANALYSIS	Start:20/09/20	END:24/09/2022	
	SAME	PLE DETAILS	15-15-15-19		A STATE OF A
CUSTOMER SAMPLE ID	Fly Ash	CUSTOMER REF. NO. & DA	ATE	1.	COMMUNICATION
SAMPLE TYPE	SLAG	SAMPLE CONDITION AT R	ECEIPT	OK	
SAMPLE COLLECTED BY	CUSTOMER	QUANTITY RECEIVED	3000000	1 KG.	

	TEST REPORT								
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMIT SCHEDULE II [See rule 3 (1) (17) (ii)]	RESULT				
1	Iron as Fe	mg/l	USEPA METHOD-1311	-	51.4				
2	Manganese as Mn	mg/l	USEPA METHOD-1311	10.0	4.2				
3	Zinc as Zn	mg/l	USEPA METHOD-1311	250	78.1				
4	Lead as Pb	mg/l	USEPA METHOD-1311	5.0	3.9				
5	Cadmium as Cd	mg/l	USEPA METHOD-1311	1.0	N.D.				
6	Chromium as Cr	mg/l	USEPA METHOD-1311	5.0	N.D.				
7	Arsenic as As	mg/l	USEPA METHOD-1311	5.0	N.D.				
8	Mercury as Hg	mg/l	USEPA METHOD-1311	0.2	N.D.				

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Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Name & Address Of The Customer TO, HIRA POWER & STEELS LIMITED PLOT NO. 557, 563 & 564, URLA INDUSTRIAL COMPLEX, URLA, RAIPUR – 492003, CHHATTISGARH, INDIA		REPORT NO. LAB REF NO. DATE OF SAMPLING DATE OF RECEIPT DATE OF REPORT			
		DATE OF ANALYSIS	Start:20/09/20	22	END:24/09/2022
	SAME	PLE DETAILS	and the second	150/200	- Shine Shine Shine
CUSTOMER SAMPLE ID MOx DUST		CUSTOMER REF. NO. & D/	ATE	VERBAL COMMUNICATION DATED: 17/09/2022	
SAMPLE TYPE	SLAG	SAMPLE CONDITION AT R	ECEIPT	OK	
SAMPLE COLLECTED BY	CUSTOMER	QUANTITY RECEIVED		1 KG.	

	TEST REPORT								
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMIT SCHEDULE II [See rule 3 (1) (17) (ii)]	RESULT				
1	Iron as Fe	mg/l	USEPA METHOD-1311	-	70.0				
2	Manganese as Mn	mg/l	USEPA METHOD-1311	10.0	6.9				
3	Zinc as Zn	mg/l	USEPA METHOD-1311	250	78.2				
4	Lead as Pb	mg/l	USEPA METHOD-1311	5.0	2.6				
5	Cadmium as Cd	mg/l	USEPA METHOD-1311	1.0	N.D.				
6	Chromium as Cr	mg/l	USEPA METHOD-1311	5.0	N.D.				
7	Arsenic as As	mg/l	USEPA METHOD-1311	5.0	N.D.				
8	Mercury as Hg	mg/l	USEPA METHOD-1311	0.2	N.D.				

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Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Name & Address Of The Customer TO, HIRA POWER & STEELS LIMITED PLOT NO. 557, 563 & 564, URLA INDUSTRIAL COMPLEX, URLA, RAIPUR – 492003, CHHATTISGARH, INDIA		REPORT NO. UE5/TR/21-22/04032				
		LAB REF NO.	UES/21-22/MI	21-22/MISC/09923		
		DATE OF SAMPLING	19/09/2022			
		DATE OF RECEIPT	20/09/2022	9/2022		
		DATE OF REPORT	24/09/2022			
		DATE OF ANALYSIS	Start:20/09/2022 END:24/0		END:24/09/2022	
	SAME	PLE DETAILS		1445	Contra B	
CUSTOMER SAMPLE ID	POLLUTION DUST	CUSTOMER REF. NO. & DATE		VERBAL COMMUNICATION DATED: 17/09/2022		
SAMPLE TYPE	SLAG	SAMPLE CONDITION AT RECEIPT		OK		
SAMPLE COLLECTED BY	CUSTOMER	QUANTITY RECEIVED 1 KG.		1 KG.		

	TEST REPORT					
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMIT SCHEDULE II [See rule 3 (1) (17) (ii)]	RESULT	
1	Iron as Fe	mg/l	USEPA METHOD-1311	-	37.2	
2	Manganese as Mn	mg/l	USEPA METHOD-1311	10.0	7.4	
3	Zinc as Zn	mg/l	USEPA METHOD-1311	250	58.4	
4	Lead as Pb	mg/l	USEPA METHOD-1311	5.0	2.8	
5	Cadmium as Cd	mg/l	USEPA METHOD-1311	1.0	N.D.	
6	Chromium as Cr	mg/l	USEPA METHOD-1311	5.0	N.D.	
7	Arsenic as As	mg/l	USEPA METHOD-1311	5.0	N.D.	
8	Mercury as Hg	mg/l	USEPA METHOD-1311	0.2	N.D.	

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Name & Address Of The Customer TO, HIRA POWER & STEELS LIMITED PLOT NO. 557, 563 & 564, URLA INDUSTRIAL COMPLEX, URLA, RAIPUR – 492003, CHHATTISGARH, INDIA		REPORT NO. LAB REF NO.	UES/TR/21-22/04033 UES/21-22/MISC/09924 19/09/2022			
		DATE OF SAMPLING				
		DATE OF RECEIPT	20/09/2022	/2022		
		DATE OF REPORT	24/09/2022	24/09/2022		
		DATE OF ANALYSIS	Start:20/09/2022 END:24		END:24/09/2022	
	SAME	PLE DETAILS	150	FARE S	ALL DES HISTS	
CUSTOMER SAMPLE ID	THERMITE SLAG	CUSTOMER REF. NO. & DATE		VERBAL COMMUNICATION DATED: 17/09/2022		
SAMPLE TYPE	SLAG	SAMPLE CONDITION AT RECEIPT		ОК		
SAMPLE COLLECTED BY	CUSTOMER	QUANTITY RECEIVED		1 KG.		

	TEST REPORT					
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMIT SCHEDULE II [See rule 3 (1) (17) (ii)]	RESULT	
1	Iron as Fe	mg/l	USEPA METHOD-1311		78.1	
2	Manganese as Mn	mg/l	USEPA METHOD-1311	10.0	6.2	
3	Zinc as Zn	mg/l	USEPA METHOD-1311	250	30.7	
4	Lead as Pb	mg/l	USEPA METHOD-1311	5.0	1.2	
5	Cadmium as Cd	mg/l	USEPA METHOD-1311	1.0	N.D.	
6	Chromium as Cr	mg/l	USEPA METHOD-1311	5.0	N.D.	
7	Arsenic as As	mg/l	USEPA METHOD-1311	5.0	N.D.	
8	Mercury as Hg	mg/l	USEPA METHOD-1311	0.2	N.D.	

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Annex.-VI



क्रमांक : 2029/एचपीएसएल/2022-23/2029

दिनांकः 18.05.2022

प्रति, श्रीमान क्षेत्रीय अधिकारी, क्षेत्रीय कार्यालय, छ.ग. पर्यावरण संरक्षण मण्डल, कबीर नगर, व्यवसायिक परिसर, छ.ग. गृह निर्माण मण्डल कालोनी, कबीर नगर, रायपुर (छ.ग.)

विषयः वर्ष 2021-22 (अप्रैल 2021 से मार्च 2022) तक की अवधि में ताप विद्युत से जनित फ्लाई ऐश यूटिलाईजेशन की वार्षिक रिपोर्ट प्रेषित करने के संबंध में।

संदर्भः आपका पत्र क्र0. 508/क्षेका/छ.प.सं.मं/2022 रायपुर दिनांक 17.05.2022

महोदय,

उपरोक्त विषयांतर्गत संदर्भित पत्र के माध्यम से आपके द्वारा दिनांक 01.04.2021 से 31.03.2022 तक की अवधि में जनित फ्लाई ऐश यूटिलाईजेशन के संबंध में चाही गई जानकारी आपके द्वारा प्रदत्त प्रपत्र में भरकर सादर संलग्न कर प्रेषित की जा रही है।

ज्ञातव्य हो कि वित्तीय वर्ष 2021-22 (दिनांक 01.04.2021 से 31.03.2022 तक) की अवधि का वार्षिक विवरण पत्रक (Annual Return) हमारे पत्र क्र0. 2023/HPSL/2022-23/2023 दिनांक 05.05.2022 के माध्यम से आपके कार्यालय को प्रेषित की जा चुकी है, जिसकी छायाप्रति आपके सुलभ संदर्भ हेतु सादर संलग्न है।

सधन्यवाद

भवदीय, वास्ते, ह्रीरा पॉवर एण्ड स्टील्स लिमिटेड, यूनिट –॥

अधिकृत हस्ताक्षरकर्ता

प्रतिलिपिः श्रीमान सदस्य सचिव, छ.ग. पर्यावरण संरक्षण मण्डल, नवा रायपुर अटलनगर, जिला–रायपुर (छ.ग.) को सूचनार्थ प्रेषित।

Hira Power & Steels Limited An ISO 9001:2015 Certified Company CIN: U24117CT1984PLC002512

Registered Office & Works : Khasra No. 511/1, 512/2, Urla Industrial Complex, Raipur - 492003, Chhattisgarh, India P : +91 771 4082500, 4082600, F : +91 771 4082501, E : admin@hpslindia.com www.hpslindia.com, www.hiragroup.com स्थापित कोल आधारित थर्मल पॉवर प्लांट उद्योगों से उत्पन्न फ्लाई ऐश की उपयोगिता की स्थिति के संबंध में जानकारी

(दिनांक 01.04.2021 से 31.03.2022 तक की अवधि का विवरण)

	प्रतिशत् उपयोग	100%	
	केल	86299.51	
अन्य (जिस प्रयोजन में फलार्द ऐभ का	उपयोग किया गया है, उसकी संक्षिप जानकारी दें)	0.00	
	खदान में भराव	0.00	
	कार्य हेतु	0.00	
उत्प्रन्त प्रलाई ऐश की	हाईट / रैजिंग / निर्माण	0.00	
	मून्मराव	0.00	
	ईट निर्माण	86299.51	
	सामट प्लाट में प्रदाय	0.00	
उत्पन्न पलाई ऐश की	मात्रा (दन. 01.04.2021 सामट प्लाट से दिनांक 31.03.2022 में प्रदाय तक की अवधि मे)	86299.51	
	क्षमता (मेगावॉंट मे)	20 MW	
	थमल पावर उद्यांग का नाम एवं पता	हीस पॉवर एण्ड स्टील्स् लिमिटेड, खसारा नं. 511/1. 512/2. उस्ला औद्योगिक क्षेत्र, रायपुर–492003 (छ.ग.)	
	第 0.	01	02





Ref: 2023/HPSL/2022-23/2023

Date: 05.05.2022

To, The Regional Officer, Regional Office, Chhattisgarh Environment Conservation Board, Commercial Complex, Chhattisgarh Housing Board Colony, Kabir Nagar, Raipur (C.G.)

Sub: Fly ash utilization annual report / return for the financial year 2021 – 22

Respected Sir,

With reference to above cited subject, we are submitting herewith fly ash utilization annual report / return (Annexure – I) for the financial year 2021 - 22 (April 1st 2021 to March 31st 2022) for your ready reference and record, please.

Fly ash is being disposed off by us systematically & scientifically as per Fly Ash Notification dated 14th September, 1999 and its amendments by MoEF&CC.

Kindly acknowledge the receipt of the same.

Thanking You,

Yours faithfully,

For, HIRA POWER AND STEELS LIMITED, UNIT - II

Authorized Signatory

Encl: A/a

- CC: 1. The Member Secretary, Chhattisgarh Environment Conservation Board, Paryavas Bhavan, North Block, Sector – 19, Atal Nagar, District - Raipur (C. G.) 492 002
 - 2. The Regional Director, Central Pollution Control Board, 3rd Floor, Sahkar Bhawan, North TT Nagar, Bhopal -462003
 - The Scientist, Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Aranya Bhawan, North Block, Sector-19, Atal Nagar, District - Raipur (C. G.) 492 002.

Hira Power & Steels Limited An ISO 9001:2015 Certified Company CIN : U24117CT1984PLC002512 Annexure - I

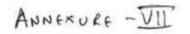
HIRA POWER & STEELS LIMITED, (UNIT – II)

Khasra No. 511/1, 512/2, Urla Industrial Complex, Raipur (C.G.) – 492 003

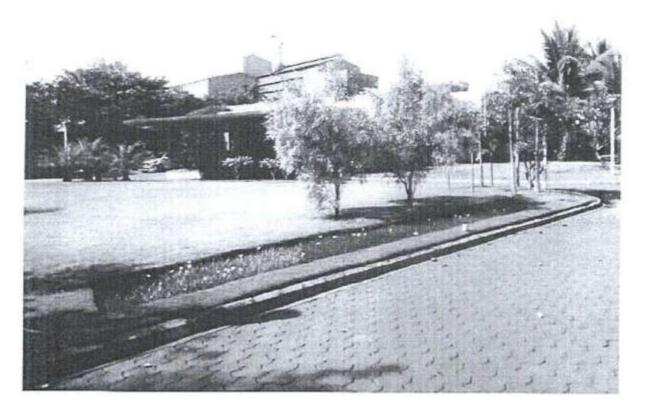
FLY ASH GENERATION & UTILIZATION REPORT FOR THE FINANCIAL YEAR 2018-19 (April 1st 2021 to March 31th 2022)

Sr. No.	Month	Fly Ash Generation in the Month	Supply to the Cement Plant	Brick Manufactu ring	Filling	Ash Dyke Raising / Construction	Agriculture	Mine Filling	Any Other Use	Total	Percentage
		(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(MT)	(%)
4	Apr-21	7902.92	0.00	7902.92	0.00	0.00	0.00	0.00	0.00	7902.92	100.00
5	May-21	6081.49	0.00	6081.49	0.00	0.00	0.00	0.00	0.00	6081.49	100.00
9	Jun-21	7728.42	0.00	7728.42	0.00	0.00	0.00	0.00	0.00	7728.42	100.00
2	Jul-21	7566.17	0.00	7566.17	0.00	0.00	0.00	0.00	0.00	7566.17	100.00
00	Aug-21	7325.52	0.00	7325.52	0.00	0.00	0.00	0.00	0.00	7325.52	100.00
6	Sep-21	8462.85	0.00	8462.85	0.00	0.00	0.00	00.00	0.00	8462.85	100.00
10	Oct-21	6384.26	0.00	6384.26	0.00	0.00	0.00	0.00	0.00	6384.26	100.00
11	Nov-21.	5979.37	0.00	5979.37	0.00	0.00	0.00	00.00	0.00	5979.37	100.00
12	Dec-21	8353.28	0.00	8353.28	0.00	0.00	0.00	00.00	0.00	8353.28	100.00
13	Jan-22	7442.96	0.00	7442.96	0.00	0.00	0.00	00.00	0.00	7442.96	100.00
14	Feb-22	6605.83	0.00	6605.83	0.00	0.00	0.00	00.00	00.00	6605.83	100.00
15	Mar-22	6466.44	0.00	6466.44	00.00	0.00	0,00	0.00	00.00	6466.44	100.00
To	Total	86299.51	0.00	86299.51	0.00	0.00	0.00	0.00	0.00	86299.51	86299.51





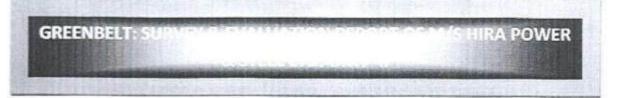


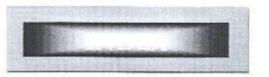


[PLANTATION SURVEY & EVALUATION REPORT] 2019 - 20, 2020-21

SEIDR

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S. N.	PARTICULARS	PAGE
1.	Executive Summary (Introduction)	1
2.	Project Objective, Plantation Details	2
3.	Road Side Plantation, Methodology	3
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SEIDR

SURVEY & EVALUATION BY : SOCIETY FOR ENVIRONMENT & INTEGRATED DEVELOPMENT RAIPUR

Evaluation of Greenbelt Development

For

M/s HIRA POWER & STEEL LTD. UNIT - II

Plot No. 557, 563 & 564 Urla, Industrial Complex, Urla, Raipur

Survey & Evaluation by -"Society for Environment & Integrated Development Raipur" Raipur (CG)

EXECUTIVE SUMMARY

1. INTRODUCTION

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-

M/s HIRA POWER&STEEL LTD.is working at three places in the state of Chhattisgarh:-

- Regd. Office / Works M/s HIRA POWER AND STEEL LIMITED- Unit II, 511/1, 512/2, Urla Industrial Complex, Raipur, Pin code - 492003 (C. G.)
- Project Started As Per information provided by M/s HIRAPOWER&STEEL Ltd. Raipur, Details of Projects are as Under :-

I. HIRA POWER AND STEEL, URLA (Raipur) Plant -

- EC- F-No. J-11011/836/2008-IA-II (I) MoEF, New Delhi 11003 for Ferro Alloy plant - 600 MTPA for production of Low Medium Carbon Ferro Manganese (Ferro Alloys) - 18,000 MTPA.
- Ferro Alloys -30,000 MTPA, Or 56,000 MTPA Pig Iron from 2×5.5 MVA Submerged Arc Furnaces
- 3. Captive Power Plant 20 MW
- 4. Plant Area:-

Hira power & Steel Ltd. Urla (Raipur) Plant - Total Land Area - 17.59 Ha. (Approx) (Plantation Area - 5.86 Hectare Approx)

M/s HIRA POWER&STEEL LTD

The green belt helps to capture the fugitive emission and attenuate the noise apart from improving the aesthetic quality of the region in the total area of the project site (Core Zone). 33% area shall be developed as green belt along the periphery of the plant in Hira Power & Steel – Unit -II whereas 33% (as they come under notified industrial area) plant shall be developed as green belt area. Development of green belt and other forms of greenery at road side and plantation in nearest project affected villages shall also be helpful to improve ecological conditions and biodiversity status of the area.

Survey and Evaluation work was allotted by M/s HIRA POWER&STEEL LTD. to our organization – "SOCIETY FOR ENVIRONMENT & INTEGRATED DEVELOPMENT RAIPUR" for which one work orders was issued dtd.21/12/2020 via S.O. No. 7200003029/U102.

5. PROJECT OBJECTIVE

Plant species act as bio-monitoring agent to monitor the air environment as well as it keeps and maintains the project environment healthy by providing more oxygen. The two areas of air pollution i.e. gases and dust need to be urgently by using plants. Keeping this in mind, alleviate measures have been suggested to develop green belt based on local and physical conditions of the areas by taking the cognizance of "Green with Purpose" drive.

6. PLANTATION DETAILS

- Area of Plantation (Green Belt):- During the field survey and field study by our technical team it has been found that plantation work was started from start of each project and is continued till date.
- A. Urla Plant Unit-2, 5.86 Ha. (Approx) in Campus Area.
- B. Aerodrome Garden development area.
- C. Road Side area 3 1/2 K. M. (Approx) in campus Area.

8. Details of Year wise Plantation:-

Road side plantation survey till date as per details given below:-M/s HIRA POWER&STEEL LTD.

A. Main gate to Jai hind chowk to near Police station and around

s.n.	Species				No. of Survival plants
1.	Kesiasemia, Sissoo,Alatoni	Peltophorum, a, Pipal,	Gulmohar,	Karanj,	1434

B. Plantation done by Hira Power & Steel Ltd. up to 2019-20, 2020-21

Year	Unit -2	Road Side	Airport Garden
UP TO 2019-20	14000+1252	2600	2500
2020-21	1326	0	0
Total =	16578	2600	2500

Survey & Evaluation By: Society for Environment & Integrated Development Raipur

9. Plantation Sites:-

Plantation work is in progress along the plant boundary wall and inside the plant premises. Plantation work has been done along the road side. Plantation survey has been carried out by expert team with the help of officers of M/s HIRA POWER & STEEL Ltd. Following sapling was planted by M/s HIRA POWER & STEEL Ltd.

At Unit – 2, plant Campus Area –

- A. Plant premises area.
- B. Admin building (Office area)
- II. Road Side area.
- III. Airport Garden

Road side Plantation -

s.n.	Location of plantation	Length in Kilometer
1	Unit -II main gate to Young India Choak, Police Station around Road both side	3 1/2 K M (Approx)

Boundary wall has been constructed on the places, Raipur factory, Due to this construction expected damages from cattle and unwanted social elements were controlled.

Irrigation facility was also provided at five places by drip water pipe line and tanker due to this the growth of plants has been observed very well.

10. METHODOLOGY

- All planted areas were inspected.
- > All small plants were counted and taken their measurement and same has been recorded.
- Height and girth of plants and saplings have been measured.
- Survival percentage has been recorded.
- Many places were pictures of plantation.

Survey & Evaluation By: Society for Environment & Integrated Development Raipur

11. M/s HIRA POWER & STEEL LTD.

A. UNIT -II- PLANTATION SPECIES AND MEASUREMENT

S.N	Species		erage	M	laximum	Mit	nimum
*		Girth (cm)	Height (m)	Girth (m)	l leight (m)	Girth (cm)	Fleigh
1.	Peltophorum	10.5	5.30	80	15	4	(m) 4.0
2,	Alastonia	18.4	6,93	54	13	4	11
3.	Parkia	5.7	-1.1	9	5.50	1	3.0
4.	Kesiasemia	25	5.65	45	10.50	4,	3.0
5.	Shisham	40.0	8.04	80	12	3	0.90
6.	Sirsa	7.5	4.5	12		20	5
7.	Badam	28	6.2	45	6.5	4	3.1
8.	Coconut	40	8.25		8.50	12	2.0
9.	Karanj	28		60	12	28	5
10.	Washingtonia		3.3	62	47	5	2
11.	Spethodia	57.8	3.05	90	9.0	. 40	2
		7.30	2.58	14	4.25	2	1.30
12.	Nilgiri	11.61	2.93	20	4.50	4	1.10
13.	Shisham	20.30	4.20	26	3.50	15	3
14.	Gulmohar	9	3.3	12	5	6	1.2
5.	Konocarpes	17.5	5.06	20	6.05	9	2
6.	Neem	11.66	2.61	14	3.10	5	0.95
7.	Karanj	5.12	1.06	10	2.50	2	0.50
8.	Alastonia	13	3.68	16	5	13	2.50
9.	Champa	20.5	5.8	52	12.0	6	3
0.	Sitafal	14.60	4.42	16	5.50	13	4.00
1.	Kaner	7.14	2.98	12	4.00		
2.	Kachnar	38.58	10.51	52	13	4	2.00
3.	Areca Pam	14.08	3.52	32	8.00	25	6.50
. 1	Bottle brush	8.12	2.13	18		6	4.00
_	Kadmba	12.3	5.3		6.50	4	1.20
				24	7.50	6	4.00
	Acacia	6.75	3.65	16	7.50	3	2

Survey & Evaluation By: Society for Environment & Integrated Development Raipur

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D. AIRO DROME GARDEN - PLANTATION SPECIES AND MEASUREMENT

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\$.N.	Species		erage	Max	imum	Min	mum
		Girth (cm)	i leight (m)	Girth (cm)	l keight (m)	Girth (cm)	Heigh (m)
Έ.	Spathodea	45	5.9	65	10	20	4.5
2	Champa	25	2.7	30	3.5	20	2
3.	Cycus	104	4.16	115	5	75	2.50
4.	Tikoma	6.5	1.75	12	2.6	4	1.20
5.	Akash neem	64.75	14	80	15	-45	12
6.	Kaner	8.8	1.75	60	1.80	8	1.75
7.	Bottle palm	34.5	5.6	40	6.5	25	5.00
8.	Arjun	30	7.12	70	12	12	4.00
9.	Peltophorum	54.6	7.6	160	14	20	6
10.	Nilgiri	114,4	17	130	18	1.10	10
11.	Alastonia	41	9.2	50	12	30	6
12.	Gulmohar	61.3	7.6	83	12	40	8
13.	Karanj	20.4	4.9	35	8.00	10	3.5
14.	Kachnar	23.8	4.9	35	8	10	3.5
15.	Coconut	76.4	12.14	115	16	55	6
16.	Bottle brush	34.8	56	40	6.5	25	5
17.	Bottle palm	72.2	5.0	80	5	55	3.5

G. M/s HIRA POWER&STEEL LTD. (Road Side Plantation 3 1/2 K M (Approx)

S.N.	Species	Ave	rage	Max	imum	Min	imum
		Girth (cm)	Height (m)	Girth (cm)	Height (m)	Girth (cm)	Height (m)
1.	Tikoma	9.8	4.08	20	6	3	2.5
2.	Neem	9.7	3.2	15	5.5	5	2.00
3.	Alastonia	42.8	4.5	60	7	20	2.5
4.	Khamar	29.3	6.3	35	10	12	3.00
5.	Kesiyasemia	24.8	8.4	38	2.5	4	1.5
6.	Siras	7.4	3.2	14	5.50	2	1.5
7.	Kadamba	9.3	3.3	14	5.00	5	2.00
8.	Gulmohar	33.4	9	45	12	15	5

Survey & Evaluation By: Society for Environment & Integrated Development Raipur

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9.	Kaner	20	5.3	28	7.5	10	2.5
10.	Sisco	28.7	5.54	45	7.00	18	4.5
11.	Arjun	77	10.6	90	12	60	8
12.	Karanj	14	2.4	18	3.50	10	2.00
13.	Kadmba	45	6.2	55	10	55	4
14.	Teek (Sagoun)	12	3.01	30	5.5	6	0.90
15.	Amaltas	12.6	3.5	20	4.5	. 10	2.00
16.	Gulmohar	53	8.4	65	12	45	4.00

17. Number of Plantation and Survival Percentage

	PLANTED SPECIES	5 AND PLANT	'S NUMBERS	
S. N.	PLANTED SPECIES	PLANTED SPECIES NO.	SURVIVAL PLANTED	SURVIVAL PERCENTAGE
M/	s HIRAPOWER & STEEL Ltd.			
1.	Unit -II (Including Admin Buildin	ng)	Site .	
	Peltophorum, Alastonia, Parkia, Kesiasemia, Sirsa, Badam, Coconut, Karanj, Washingtonia, Spethodia, Nilgiri, Shisham, Gulmohar, Conocarpes, Neem, Karanj, Alastonia, Champa, Sitafal, Kaner, Kachnar, Areca Pam, Bottle Brush, Kadmba, Acacia, Shoobabul	16578	14428	87%
3.	Road Side			
	Neem, Alastonia, Khamar, Kesiyas amia, Siras, Kadamba, Gulmohar, Kaner, Sisoo, Arjun, Karanj etc.	2600	1434	55%
4.	Air port Garden			
	Spathodea, Champa, Cycus, Tikoma, Akash neem, Kaner, Bottle palm, Arjun, Peltophorum, Nilgiri, Alatonia, Gulmohar, Karanj, Kachnar, Coconut, Bottlebrush, Bottle Palm etc.	2500	1874	75%
	Grand Total=	21678	17736	M

Note : - Coal yard, Crusher yard, Kirtiman van, Near Pond, Near Power store Dieseltank. In the above area mentioned places or area shoobabul are very dense. 3310 3

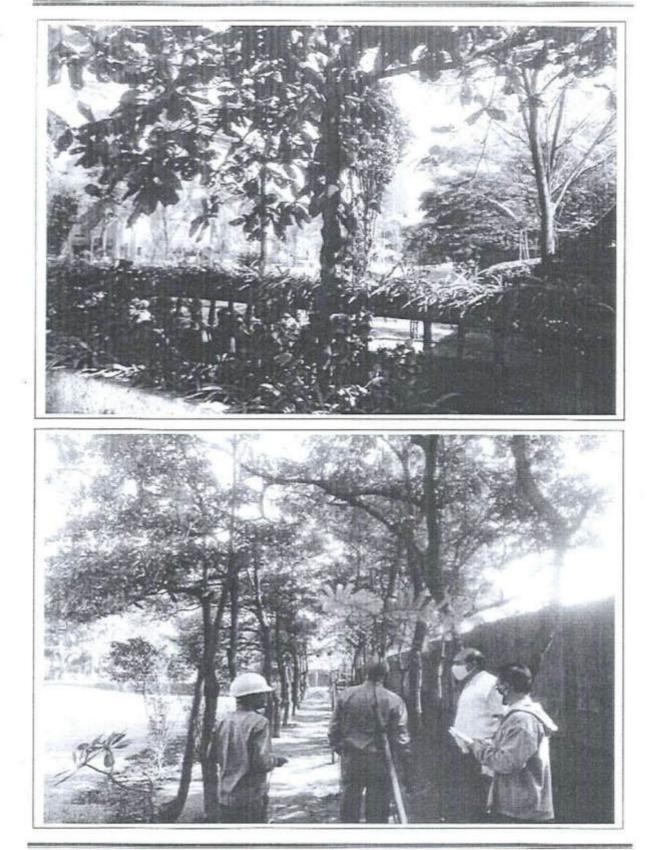
Survey & Evaluation By: Society for Environment & Integrated Development Raipur

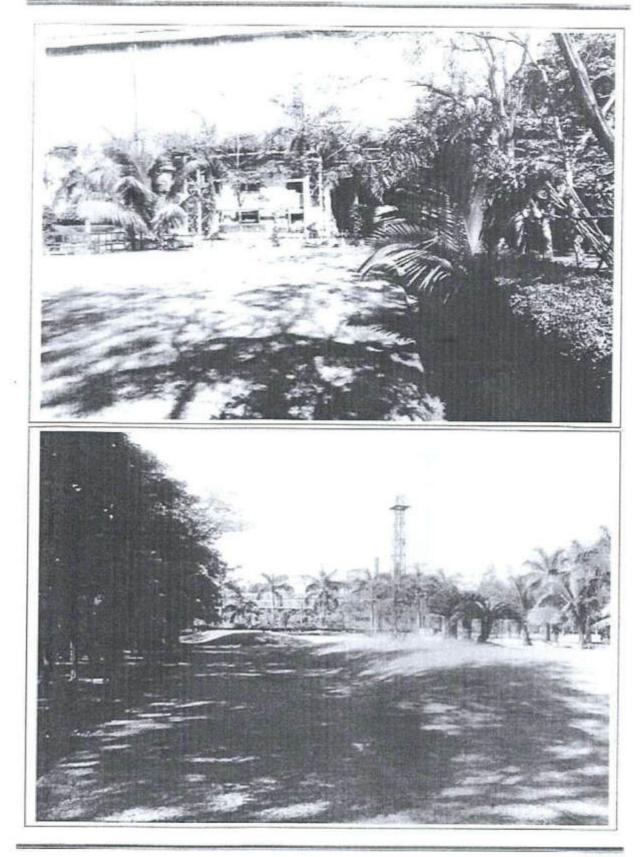
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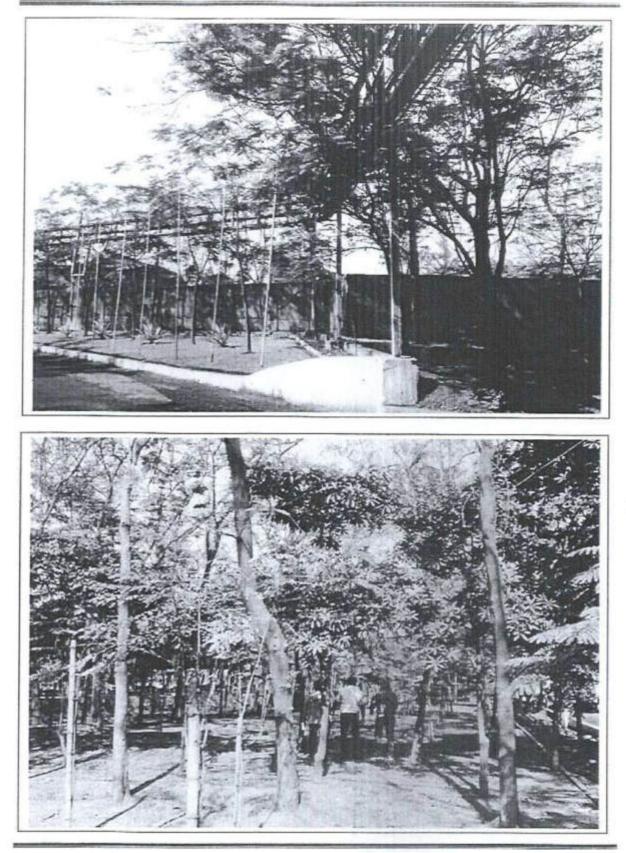
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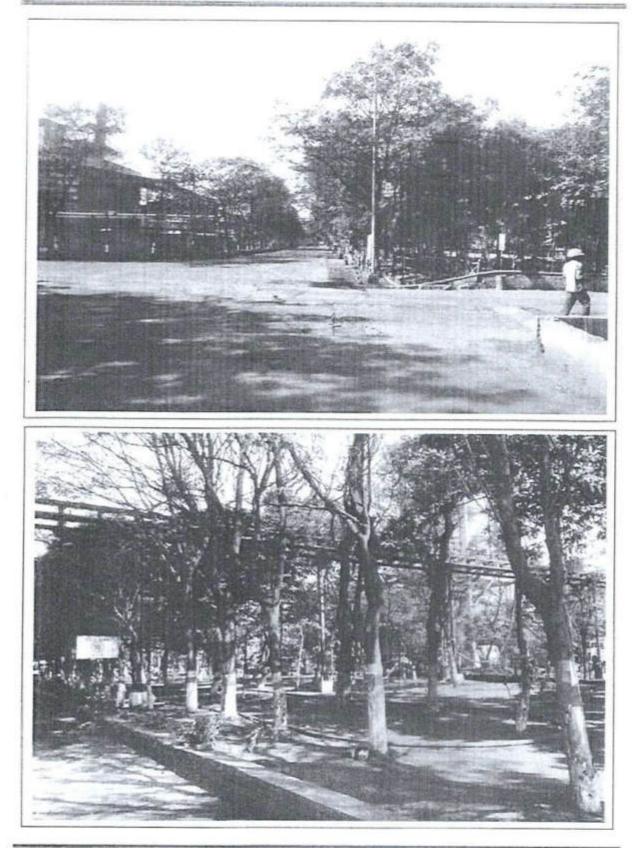
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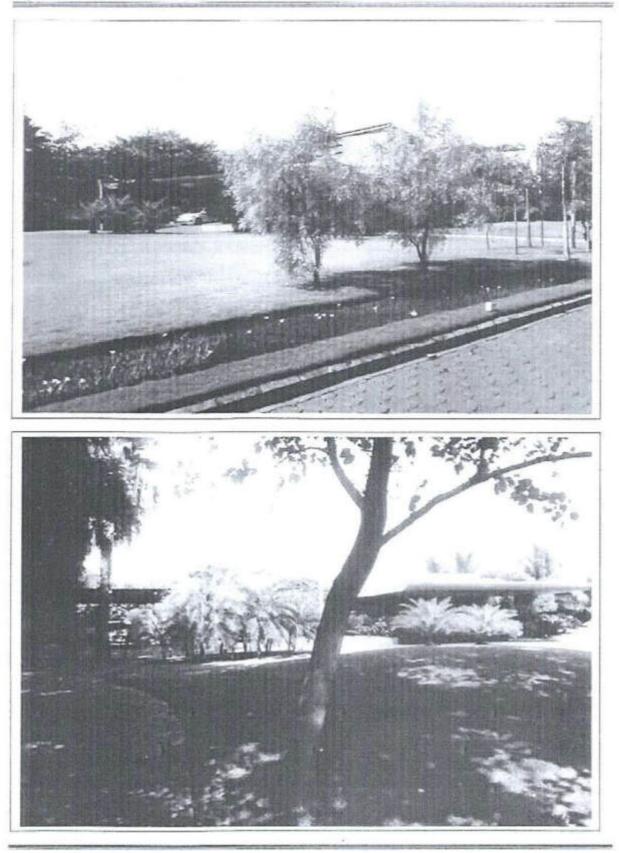
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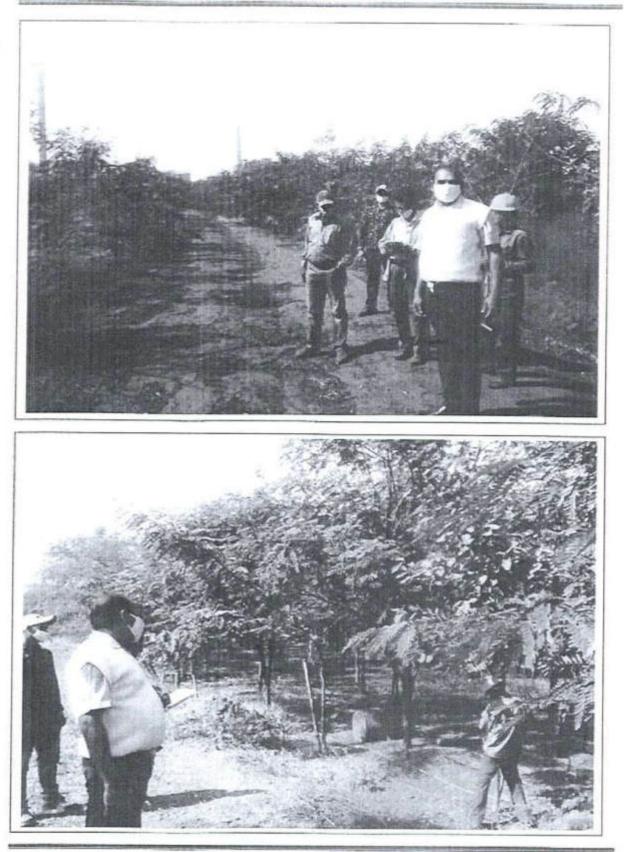


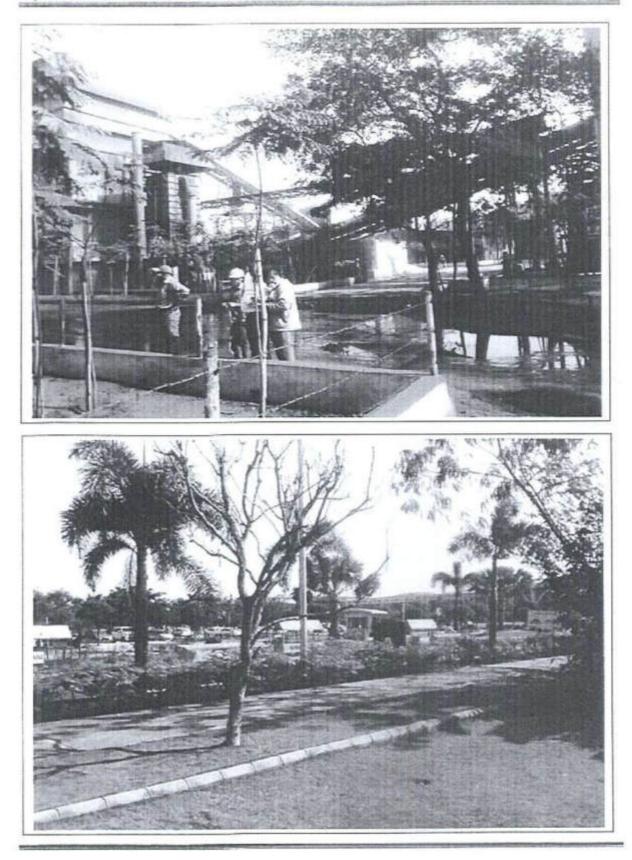




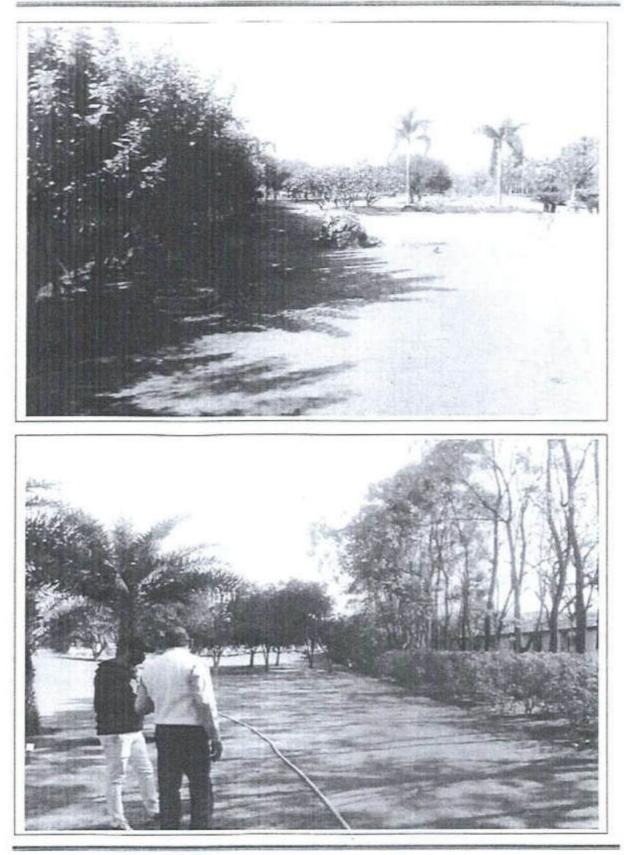


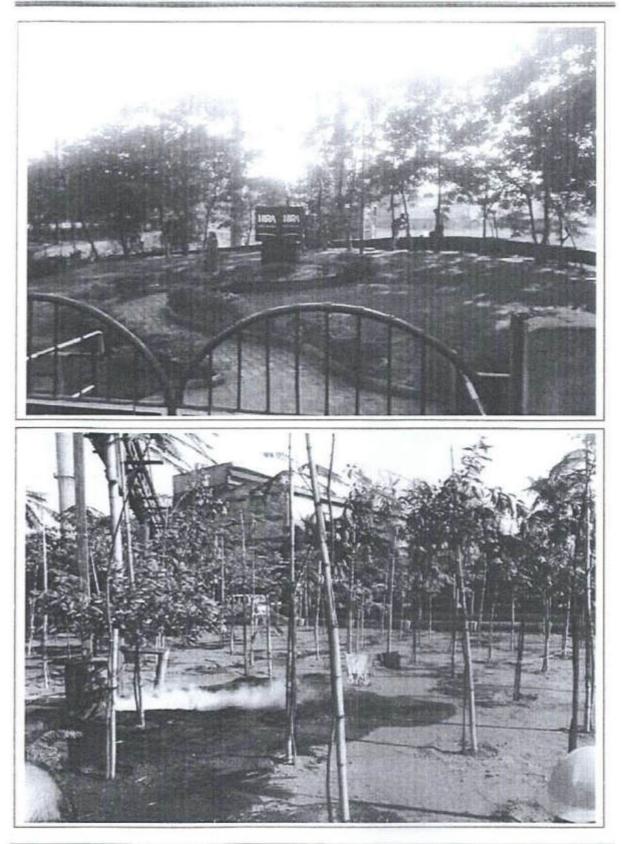






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9. GRADING OF PLANTATION

M/s HIRAPOWER&STEEL LTD. - Unit - II

Grading of Plantation on scale of 1 to 10

Qualitative Aspects	Survival	8.50
	Health of Plantation	8.00
	Maintenance	8.00
	Sustainability	8.00

Grading of project plantation on scale 1 to 10

Overall Grading of Plantation	Outstanding (excellent) (8-10)	Very Good (5<8)	Good (3<5	Poor (>3)
riamation	8.12			

E. GRADE CARD-

M/s HIRAPOWER&STEEL LTD. - Road Side

Grading of Plantation on scale of 1 to 10

Qualitative Aspects	Survival	6.00
	Health of Plantation	7.00
	Maintenance	6.00
	Sustainability	600

Grading of project plantation on scale 1 to 10

Overall Grading of Plantation	Outstanding (excellent) (8-10)	Very Good (5<8)	Good (3<5)	Poor (>3)
		6.25		

F. GRADE CARD-

M/s HIRAPOWER&STEEL LTD. - Aerodrome Garden

Grading of Plantation on scale of 1 to 10

Qualitative Aspects	Survival	9.00
	Health of Plantation	9.00
	Maintenance	9.00
	Sustainability	9.00

Grading of project plantation on scale 1 to 10

Overall Grading of Plantation	Outstanding (excellent) (8-10)	Very Good (5<8)	Good (3<5)	Poor (>3)
Tantation	9.00			



Survey & Evaluation By: Society for Environment & Integrated Development Raipur

CERTIFICATE

CERTIFIED THAT OUR SURVEY AND EVALUATION EXPERT TEAM COUNTED ALL TREE, PLANTS, SAPLING OF <u>M/S HIRA POWER</u> <u>AND STEEL LTD. UNIT -2, RAIPUR, AND FOUND</u> <u>14428 OF TOTAL 16578 PLANTED PLANTS AND</u> COVERED AS GREEN BELT <u>14.26 ACRES (APP.)</u> AREAS.

DATE:12/01/2021

"SEIDR" "SEIDR" "SOCIETY FOR ENVIRONMENT & ENTREGRATED DEVELOPMENT RAIPUR"

- 10. DISCUSSION HELD WITH OFFICER AND MANEGMENT OF M/s HIRA POWER&STEEL LTD. AS UNDER -
- 1. Mr. Rahul Agarwal (President)
- 2. Mr. Aviral Tiwari (Senior Engineer Environment)
- 3. Mr. Mahesh Kumar Verma (Senior Office: Horticulture)

11. SUGGESTIONS FOR THE IMPROVEMENT

- 1. Species Fast growing species should be planted.
- 2. Plant should be planted after one year age.Minimum length 1 meter or above.
- 3. Irrigation facility should be provided to planted plants.
- Space should be 2×2, 3×3 and maximum 4×4 according to maximum girth of trees after maturity.
- 5. Germination time Humic Oxide should be used for better results.
- Manure Compost, Vermi compost for good age Urea, Dap, Zhaim should be used.
- 7. Priority to broader leaves plants should be planted.
- Following species may be chosen for plantation Khamar, Shisham, Teak, Kadamba, Acacia, Pelt form, Arjun, Neem, Semal, Jamun, Karanj, Sissu, Mahuwa, Ashok, Nilgiri, Pipal, Amaltas, Bottlepam, KesiaSamia, etc.
- 9. Termite& Other pests control should be done by Cholorocyper, Imida combine.
- 10. Plants should be planted regularly every year.
- 11. Soil of Pits should be change with manure before plantation.
- 12. In water locked area Kahua should be planted.
- 13. Hard and dry area Teak should be planted.
- 14. For maintain of survival percentage casually replacement should be done every year.

A WORD OF APPRECIATION

We appreciate all management officers and staff of HIRA POWER&STEEL I.TD.Who has taken step to develop the green belt & greeneryness of area. We found that sapling has taken care well after plantaion.

We apperciate the commitment and care taken by the management for developing the green belt & greenery within & outside of plant permises.

"Society for Environment & Integrated Development Raipur"

S.n.	Name	Job	Experience
1	Shri D K Tiwari	Team Leader	Self Employ 15years experience of monitoring & evaluation & micro planning
2	Shri Kamlesh Dubey	Coordinator	6 years experience of monitoring & evaluation Industrial Plantation
3	Shri Jasvir Singh Virdi	Investigator	7years experience of monitoring & evaluation Industrial Plantation

THE TEAM INVOLVED IN SURVEY & EVALUATION

EXECUTIVE BODY OF "SEIDR"

NO.	Post	Name	Experience
1	President	Shri S. K. Roy	Retd. A.C.F. C.G. Govt.
2	Vice President	Smt. Shobh Mishra	Professional
3	Secretary	Smt. Asha Tiwari	Teacher (Private)
4	Treasurer	Shri D. K. Tiwari	Professional

Survey & Evaluation By: Society for Environment & Integrated Development Raipur

ABOULTHE EVALUATION AGENCY

Organization profile

Society for Environment & Integrated Development Raipur, Non Government Organization (NGO) And working as Development and welfare.
C. G. State - 3270. Date - 01/03/2011
Under Society Registration Act 1973.
J-9/A, ShriRam Nagar, Phase –I, Sireet – II, Post Office Shankar Nagar Raipur, (C.G.) Pin Code – 492007.
+91-771-3557342
Mr. S. K. Roy (Reld. Forest S.D.O.) Mob. No. 094255 - 02223
Mr. D K Trwari (Retd. Forest Range Officer) Mob. No. 96695 - 77114, 98261 - 86818
seidraipur@gmail.com
State Bank of India, Vip Estate, Vip colony Raipur (C.G)
Account No 35731546052
IFS Code - SBI N0013004 SWIFT

SEIDR MISSION

Is to release the creative energies resources and aspirations of the poor. Especially tribes, equality and women to seek and obtain opportunities for full effective sustainable participation in social, economic, political and cultural life of society and nation.

SEIDR VISION

Irea of Operation

SEIDR is society based on the values of gamine demouracy, equality and peace for all its critizens, where provide and government play their respective roles effectively with transparency and acconutability.

Intensively in all districts of Chhattisgach state, with trained technical and professional staff.

Survey & Evaluation By: Society for Environment & Integrated Development Raipur

No.	Name	Experience
1	Kamlesh Dubey	Professional
2	Prabhat Panday	Electrical Engineer
3	Jasveer Singh Virdi	Professional
4	Varun Tiwari	Labor Court Lawyer
5	Smt. Nirmala	Labor Court Lawyer
5	Prdeep Sahu	Professional
	Akhil Shrivastava	Professional

OTHER MEMBER OF EXECUTIVE BODY

THANK YOU.

Survey & Evaluation By: Society for Environment & Integrated Development Raipur Pag

Annex.-VIII



HDD-272, Phase III - Near JP Chowk Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099 Ph : 0771 - 4027777 I Email : ultimatenviro@gmail.com

Recognized by Ministry of Enviro	onment Forest and Climate (Change under EP ad	ct 1986	
Name & Address Of The Customer	REPORT NO.	UES/TR/22-23/0337		
То,			/ST/0375	
HIRA POWER AND STEEL LTD.				
KHASRA NO.: 511/1, 512/2, DATE OF RECEIPT 17/04/		17/04/2022		
URLA INDUSTRIAL AREA	DATE OF REPORT 22/04/2022			
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:17/04/2022 End:22/04/20		
	SAMPLE DETAILS	A CASE OF EAST	AN LA STA	
Monitoring For	Stack Emission Monitoring			
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PC)/21-22/88, DATED: 24.10.2	021	
Sampling Location	3.0 & 3.6 MVA Submerged	Arc Furnace 'A & B' (Combin	ne Stack)	
Sample Collected By	Laboratory Chemist			
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003			
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO _X : 25 ml X 1 No. PVC Bottle, Rubber Bladder: 1 X 1 No.			

-	-	-	the local division in which the	-	-	and the local division of
		ТИ			1D	
	_		_		_	

Stack details				
Stack Identity				3.0 & 3.6 MVA SUBMERGED ARC FURNACE 'A & B' (COMBINE STACK)
Stack Attached To	BAG FILTER			
Material of Construction	MILD STEEL PLATE			
Height of the stack from ground leve	l (Meter)			30.0 MTR
Stack Diameter	1.4 MTR			
Stack Shape At Top	CIRCULAR			
Type of Fuel	ELECTRICITY			
Total Electrical Load (KW)				3.0 MVA & 3.6 MVA
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	IS:11255: (Part -3):2008	-	85
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	13.03
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	61321.5
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	34.8

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- > The use of the report for publication, arbitration or as legal dispute is forbidden.
- > Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
- > This is for information as the party has asked for above test(s) only



-----End of the test report-----



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003				
Sample Collected By	Laboratory Chemist				
Sampling Location	5.5 MVA Submerged Arc Fu	urnace 'C'			
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PC	D/21-22/88, DATED: 24.10.2	021		
Monitoring For	Stack Emission Monitoring				
Carls In Accelling Environment	SAMPLE DETAILS	THE REAL PROPERTY AND	· · · · · · · · · · · · · · · · · · ·		
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:17/04/2022	End:22/04/2022		
URLA INDUSTRIAL AREA	DATE OF REPORT	22/04/2022			
KHASRA NO.: 511/1, 512/2,	DATE OF RECEIPT	17/04/2022			
HIRA POWER AND STEEL LTD.	DATE OF SAMPLING	16/04/2022			
То,	LAB REF NO. UES/22-23/ST/0376				
Name & Address Of The Costomer	REPORT NO.				

TEST REPORT

Stack Identity	5.5 MVA SUBMERGED ARC FURNACE 'C'			
Stack Attached To			and the second second	BAG FILTER
Material of Construction	10111			MILD STEEL PLATE
Height of the stack from ground leve	l (Meter)			35.0 MTR
Stack Diameter				1.4 MTR
Stack Shape At Top	CIRCULAR			
Type of Fuel	ELECTRICITY			
Total Electrical Load (KW)				5.5 MVA
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	IS:11255: (Part -3):2008	-	111
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	5.58
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	24931.4
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	40.4

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-----End of the test report-----End of the test report-----



Recognized by Ministry of Enviro		the second se		
Name & Address Of The Customer	REPORT NO. UES/TR/22-23/0339			
То,	LAB REF NO.	UES/22-23/ST/0377		
HIRA POWER AND STEEL LTD.	DATE OF SAMPLING	16/04/2022		
KHASRA NO.: 511/1, 512/2,	DATE OF RECEIPT	17/04/2022 22/04/2022		
URLA INDUSTRIAL AREA	DATE OF REPORT			
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:17/04/2022	End:22/04/2022	
	SAMPLE DETAILS	and a sure of	A NEW MARKS	
Monitoring For	Stack Emission Monitoring			
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PC	0/21-22/88, DATED: 24.10.2	021	
Sampling Location	5.5 MVA Submerged Arc Fu	5.5 MVA Submerged Arc Furnace 'D'		
Sample Collected By	Laboratory Chemist			
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003			
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO _X : 25 ml X 1 No. PVC Bottle Rubber Bladder: 1 X 1 No.,			

TEST REPORT

Stack Identity				5.5 MVA SUBMERGED ARC FURNACE 'D'
Stack Attached To				BAG FILTER
Material of Construction				MILD STEEL PLATE
Height of the stack from ground leve	l (Meter)			35.0 MTR
Stack Diameter				1.4 MTR
Stack Shape At Top				CIRCULAR
Type of Fuel				ELECTRICITY
Total Electrical Load (KW)				5.5 MVA
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	IS:11255: (Part -3):2008	-	128
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	5.33
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	21816.0
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	32.4

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-----End of the test report-----



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Name & Address Of The Customer	REPORT NO.	UES/TR/22-23/0340		
То,	LAB REF NO. UE\$/22-23/ST/0378			
HIRA POWER AND STEEL LTD.	DATE OF SAMPLING 16/04/2022			
KHASRA NO.: 511/1, 512/2,	DATE OF RECEIPT	17/04/2022		
URLA INDUSTRIAL AREA	DATE OF REPORT	22/04/2022		
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:17/04/2022	End:22/04/2022	
	SAMPLE DETAILS		Real Property	
Monitoring For	Stack Emission Monitoring			
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/88, DATED: 24.10.2021			
Sampling Location	6 MVA Submerged Arc Furnace 'E'			
Sample Collected By	Laboratory Chemist			
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003			
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO _X : 25 ml X 1 No. PVC Bottle Rubber Bladder: 1 X 1 No.,			

TEST REPORT

Stack Identity			and shower the	6 MVA SUBMERGED ARC FURNACE 'E'
Stack Attached To	and the second second		and the second second	BAG FILTER
Material of Construction				MILD STEEL PLATE
Height of the stack from ground leve	l (Meter)			40.0 MTR
Stack Diameter				2.0 MTR
Stack Shape At Top				CIRCULAR
Type of Fuel				ELECTRICITY
Total Electrical Load (KW)				6.0 MVA
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	*C	IS:11255: (Part -3):2008	-	98
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	6.4
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	58110.5
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	38.8

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Recognized by Ministry of Enviro	onment Forest and Climate (Change under EP ac	t 1986	
Name & Address Of The Customer	REPORT NO.	REPORT NO. UES/TR/22-23/0341		
То,	LAB REF NO.	UES/22-23/ST/0379		
HIRA POWER AND STEEL LTD.	D. DATE OF SAMPLING 16/04/2022			
KHASRA NO.: 511/1, 512/2,	DATE OF RECEIPT	17/04/2022		
URLA INDUSTRIAL AREA	DATE OF REPORT 22/04/2022			
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:17/04/2022 End:22/04/20		
法国际公司 机均衡 经利益 医结合性的	SAMPLE DETAILS	RISER FILMER		
Monitoring For	Stack Emission Monitoring			
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/88, DATED: 24.10.2021			
Sampling Location	CLU Converter & Thermite	(Combine Stack)		
Sample Collected By	Laboratory Chemist			
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003			
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO _x : 25 ml X 1 No. PVC Bott Rubber Bladder: 1 X 1 No.			

TEST REPORT

Rubber Bladder: 1 X 1 No.,

Stack details				
Stack Identity	CLU CONVERTER & THERMITE (COMBINE STACK)			
Stack Attached To				BAG FILTER
Material of Construction				MILD STEEL PLATE
Height of the stack from ground leve	l (Meter)			35.0 MTR
Stack Diameter				2.295 MTR
Stack Shape At Top	CIRCULAR			
Type of Fuel				ELECTRICITY
Total Electrical Load (KW)				650 KW
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	IS:11255: (Part -3):2008	-	107
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	11.2
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	+	130733.9
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	40	26.8

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Name & Address Of The Customer	REPORT NO. UES/TR/22-23/0342			
То,	LAB REF NO. UES/22-23/ST/0380			
HIRA POWER AND STEEL LTD.	DATE OF SAMPLING	16/04/2022		
KHASRA NO.: 511/1, 512/2,	DATE OF RECEIPT 17/04/2022			
URLA INDUSTRIAL AREA	DATE OF REPORT	22/04/2022		
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:17/04/2022	End:22/04/2022	
	SAMPLE DETAILS		SULTING	
Monitoring For	Stack Emission Monitoring			
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/88, DATED: 24.10.2021			
Sampling Location	20 MW AFBC			
Sample Collected By	Laboratory Chemist			
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003			
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO _X : 25 ml X 1 No. PVC Bottle Rubber Bladder: 1 X 1 No.,			

Stack details		the second s		
Stack Identity				20 MW AFBC
Stack Attached To				ESP
Material of Construction				RCC
Height of the stack from ground leve	l (Meter)			73.0 MTR
Stack Diameter				2.83 MTR
Stack Shape At Top				CIRCULAR
Type of Fuel				COAL
Total Electrical Load (KW)		The second s		20 KW
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	IS:11255: (Part -3):2008	-	146
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	22.62
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	366693.3
Sulphur Dioxide (SO ₂)	mg/Nm ³	IS 11255 (Part 2):1985, RA 2003	600	248.6
Oxides of Nitrogen (NOx)	mg/Nm ³	IS 11255 (Part 7):2005, RA 2012	300	124.2
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	36.8
Carbon Monoxide (CO)	mg/ Nm ³	IS 13270	-	4.4
Hg	mg/ Nm ³	USEPA Method No. 29	0.03	N.D.

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Name & Address Of The Castomer To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		REPORT NO. UES/TR/22-23/0350			
		LAB REF NO.	UES/22-23/ST/0392		
		DATE OF SAMPLING	16/04/2022		
		DATE OF RECEIPT	17/04/2022	17/04/2022 22/04/2022	
		DATE OF REPORT	22/04/2022		
		DATE OF ANALYSIS	Start:17/04/2022	END: 22/04/2022	
in on (or on)	A STATE OF STATE	SAMPLE DETAILS	THE VERSION		
Monitoring For	DG Stack Emission Monitorin	g			
Customer Ref. No.	P.O. No. 11/HPSL U102/PO/2	1-22/88, Dated: 24.10.2021			
Sampling Location	DG Set - 1500 KVA (Power Pl	ant 20 MW)			
Sample Collected By	Laboratory Chemist				
Sampling Procedure	As Per Method Reference.				
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 m Hg: 500ml X 1 No. Glass Bott	N X 1 No. PVC Bottle, NO _x : 25 m & 500ml X 3 NO. PVC Bottle.	IX 1 NO. PVC Bottle, Rubb	er Bladder: 1 X 1 No.,	

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Stack details				
Stack Identity	DG Set - 1500 KVA (Power Plant 20 MW)			
Stack Attached to	DG-SET - 1500 KVA			
Material of construction	MS Plate			
Stack height above ground level	7.3 meter			
Stack diameter	280 mm			
Stack shape at top	Circular			
Type of fuel	HSD			
Parameter	Unit	Result	Limit	Method Reference
Flue gas Temperature	°C	156	+	IS 11255 (Part 3):2008
Flue gas velocity	m/s	10.4	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	1600.5	-	IS 11255 (Part 3):2008
Total Particulate Matter (PM) (Corrected at 15 % O ₂)	mg/Nm ³	34.2	75	IS 11255 (Part 1):1985, RA 2003
Sulphur Dioxide (SO ₂)	mg/Nm ³	30.8	-	IS 11255 (Part 2):1985, RA 2003
Oxides of Nitrogen (NO _x)(Corrected at 15 % O ₂) Dry Basis	ppm	224	360	IS 11255 (Part 7):2005, RA 2012
Non-Methane hydrocarbon (NMHC) (Corrected at 15 % O ₂)	mg/Nm ³	22	100	APHA METHOD 109, P-259
Carbon Monoxide (CO)	mg/Nm ³	126	150	APHA METHOD 130, P-359

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AN ISO : 9001:2015 / ISO: 14001:2015 / ISO 45001:2018 CERTIFIED LABORATORY



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Name & Address Of The Gustomer	REPORT NO.	UES/TR/22-23/0877		
То,	LAB REF NO. UES/22-23/ST/01451			
HIRA POWER AND STEEL LTD.	DATE OF SAMPLING 10/05/2022 DATE OF RECEIPT 12/05/2022			
KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003				
	DATE OF REPORT	17/05/2022		
	DATE OF ANALYSIS Start:12/05/2022 End:17/05/			
SI	AMPLE DETAILS	ALL DE THE OWNER		
Monitoring For	Stack Emission Monitoring			
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/88, DATED: 24.10.2021 3.0 & 3.6 MVA Submerged Arc Furnace 'A & B' (Combine Stack)			
Sampling Location				
Sample Collected By	Laboratory Chemist	Learning Learning	e stacky	
Sampling Procedure	IS 11255 Part 1,2:1985 Reaf 2012, IS 5182 (Part 10) :200	firmed 2009; Part 3:2008, Part	art 7:2005 Reaffirmed	
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO _X : 25 ml X 1 No. PVC Bottle Rubber Bladder: 1 X 1 No.,			

TEST REPORT

Stack details				
Stack Identity				3.0 & 3.6 MVA SUBMERGED ARC
Stack Attached To				FURNACE 'A & B' (COMBINE STACK)
Material of Construction				BAG FILTER
Height of the stack from ground leve	(Meter)			MILD STEEL PLATE
Stack Diameter	in (interest)			30.0 MTR
Stack Shape At Top				1.4 MTR
Type of Fuel				CIRCULAR
and the second se				ELECTRICITY
Total Electrical Load (KW)			I A COMPANY	3.0 MVA & 3.6 MVA
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	IS:11255: (Part -3):2008	-	92
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	1124	12.4
	territ / ti		-	56075.5
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	32.6

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Name & Address Of The Custamer	REPORT NO.	UES/TR/22-23/0878		
To,	LAB REF NO. UES/22-23/ST/01452			
HIRA POWER AND STEEL LTD.	DATE OF SAMPLING 10/05/2022			
KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003	DATE OF RECEIPT 12/05/2022			
	DATE OF REPORT	17/05/2022		
	DATE OF ANALYSIS Start:12/05/2022 End:17/05/2			
	SAMPLE DETAILS	A REAL PROPERTY OF		
Monitoring For	Stack Emission Monitoring			
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/88, DATED: 24.10.2021 5.5 MVA Submerged Arc Furnace 'C'			
Sampling Location				
Sample Collected By	Laboratory Chemist			
Sampling Procedure		firmed 2009; Part 3:2008, Pa	art 7:2005 Reaffirmed	
Sample Quantity/Packing		Thimble: 1 X 1 No., SO2: 30 ml X 1 No. PVC Bottle, NO.: 25 ml X 1 No. PVC Bot		

TEST REPORT

Stack details				
Stack Identity				5.5 MVA SUBMERGED ARC FURNACE 'C'
Stack Attached To				BAG FILTER
Material of Construction				
Height of the stack from ground leve	i (Meter)			MILD STEEL PLATE
Stack Diameter				35.0 MTR
Stack Shape At Top				1.4 MTR
Type of Fuel				CIRCULAR
Total Electrical Load (KW)	Contractory of the second			ELECTRICITY
and the second se				5.5 MVA
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	IS:11255: (Part -3):2008	-	106
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008		6.24
				27176.2
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	42.8

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Name & Address Of The Customer To,	REPORT NO.	UES/TR/22-23/0879		
	LAB REF NO.	UES/22-23/ST/0145	in the second seco	
HIRA POWER AND STEEL LTD.	DATE OF SAMPLING	10/05/2022		
KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003	DATE OF RECEIPT 12/05/2022			
	DATE OF REPORT	17/05/2022		
	DATE OF ANALYSIS Start:12/05/2022 End:17/05			
	SAMPLE DETAILS	MI ENGINE		
Monitoring For	Stack Emission Monitoring			
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/88, DATED: 24.10.2021			
Sampling Location	5.5 MVA Submerged Arc Fu	the second s	76.A	
Sample Collected By	Laboratory Chemist			
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2 2012, IS 5182 (Part 10) :2003		art 7:2005 Reaffirmed	
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO _x : 25 ml X 1 No. PVC Bottle Rubber Bladder: 1 X 1 No.,			

TEST REPORT

Stack details

Stack Identity				5.5 MVA SUBMERGED ARC
Stack Attached To				FURNACE 'D'
Material of Construction	BAG FILTER			
Height of the stack from ground leve	MILD STEEL PLATE			
Stack Diameter	35.0 MTR			
Stack Shape At Top	1.4 MTR			
Type of Fuel	CIRCULAR			
Total Electrical Load (KW)				ELECTRICITY
Parameter	Unit	11-11 I 1		5.5 MVA
		Method Reference	Limit	Result
Flue Gas Temperature	°C	IS:11255: (Part -3):2008	-	124
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	5.58
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	_	the second se
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	23200.0

REMARKS: RESULTS ARE AS ABOVE

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Name & Address Of The Customer	REPORT NO.	UES/TR/22-23/0880		
To,	LAB REF NO. UES/22-23/ST/01454			
HIRA POWER AND STEEL LTD.	DATE OF SAMPLING	10/05/2022		
KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003	DATE OF RECEIPT 12/05/2022			
	DATE OF REPORT	17/05/2022		
	DATE OF ANALYSIS Start:12/05/2022 End:17/			
	SAMPLE DETAILS	100 1 22 2 10		
Monitoring For	Stack Emission Monitoring			
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/88, DATED: 24.10.2021 6 MVA Submerged Arc Furnace 'E'			
Sampling Location				
Sample Collected By	Laboratory Chemist			
Sampling Procedure	IS 11255 Part 1,2:1985 Reaf 2012, IS 5182 (Part 10) :200	firmed 2009; Part 3:2008, Part	art 7:2005 Reaffirmed	
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO _X : 25 ml X 1 No. PVC B Rubber Bladder: 1 X 1 No.,		25 ml X 1 No. PVC Bottle	

TEST REPORT

Stack details				11.4 mar 1 mar
Stack Identity		1		6 MVA SUBMERGED ARC FURNACE 'E'
Stack Attached To				BAG FILTER
Material of Construction				and the second se
Height of the stack from ground level	l (Meter)			MILD STEEL PLATE
Stack Diameter				40.0 MTR
Stack Shape At Top				2.0 MTR
Type of Fuel				CIRCULAR
Total Electrical Load (KW)				ELECTRICITY
and the second se				6.0 MVA
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	IS:11255: (Part -3):2008	-	116
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008		6.2
	10000		-	55495.2
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	36.0

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Name & Address Of The Customer	REPORT NO.	UES/TR/22-23/0881	L		
To,	LAB REF NO. UES/22-23/ST/01455				
HIRA POWER AND STEEL LTD.	DATE OF SAMPLING 10/05/2022 DATE OF RECEIPT 12/05/2022				
KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003					
	DATE OF REPORT	17/05/2022			
	DATE OF ANALYSIS Start:12/05/2022 End:17/05/2				
	SAMPLE DETAILS	A State of the state			
Monitoring For	Stack Emission Monitoring				
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/88, DATED: 24.10.2021 CLU Converter & Thermite (Combine Stack)				
Sampling Location					
Sample Collected By	Laboratory Chemist				
Sampling Procedure	IS 11255 Part 1,2:1985 Reaf 2012, IS 5182 (Part 10) :200	firmed 2009; Part 3:2008, Pa	art 7:2005 Reaffirmed		
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 Rubber Bladder: 1 X 1 No.,		25 ml X 1 No. PVC Bottle,		

TEST REPORT

Stack details

Stack Identity				CLU CONVERTER & THERMITI (COMBINE STACK)
Stack Attached To				BAG FILTER
Material of Construction	MILD STEEL PLATE			
Height of the stack from ground leve	35.0 MTR			
Stack Diameter	2.295 MTR			
Stack Shape At Top				CIRCULAR
Type of Fuel				ELECTRICITY
Total Electrical Load (KW)				
Parameter	Unit	Method Reference	Limit	650 KW Result
Flue Gas Temperature	°C	IS:11255: (Part -3):2008	-	
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008		102
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008		10.8
and the quantity	1410 /11		-	127745.6
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	40	28.2

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Name & Address Of The Customer	REPORT NO.	UES/TR/22-23/0882			
То,	LAB REF NO. UE5/22-23/ST/01456				
HIRA POWER AND STEEL LTD.	DATE OF SAMPLING 10/05/2022				
KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003	DATE OF RECEIPT 12/05/2022				
	DATE OF REPORT	17/05/2022			
	DATE OF ANALYSIS Start:12/05/2022 End:17/05/				
	SAMPLE DETAILS	NASS IN ISSUED OF THE	A CONTRACTOR OF		
Monitoring For	Stack Emission Monitoring				
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO	0/21-22/88, DATED: 24.10.20	121		
Sampling Location	20 MW AFBC		Min		
Sample Collected By	Laboratory Chemist				
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, 2012, IS 5182 (Part 10) :2003		art 7:2005 Reaffirmed		
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO _x : 25 ml X 1 No. PVC Bottle, Rubber Bladder: 1 X 1 No.,				

		TEST REPORT		
Stack details				
Stack Identity				20 MW AFBC
Stack Attached To				ESP
Material of Construction	142-			RCC
Height of the stack from ground leve	el (Meter)			73.0 MTR
Stack Diameter				2.83 MTR
Stack Shape At Top				CIRCULAR
Type of Fuel				CIRCULAR
Total Electrical Load (KW)				20 KW
Parameter	Unit	Method Reference	Limit	the second s
Flue Gas Temperature	"C	IS:11255: (Part -3):2008	Lining	Result
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	122
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008		20.4
Sulphur Dioxide (SO ₂)	mg/Nm ³		-	348332.7
Oxides of Nitrogen (NOx)	and the second se	IS 11255 (Part 2):1985, RA 2003	600	268
oxides of Microgen (NOX)	mg/Nm ³	IS 11255 (Part 7):2005, RA 2012	300	146
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	38.6
Carbon Monoxide (CO)	mg/ Nm ³	IS 13270	-	4.8
Hg	mg/ Nm ³	USEPA Method No. 29	0.03	4.8 N.D.

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Name & Addreas Of The Gustomer	REPORT NO.	UES/TR/22-23/01622		
то,	LAB REF NO. UE5/22-23/ST/02031			
HIRA POWER AND STEEL LTD.	DATE OF SAMPLING	04/06/2022	04/06/2022	
KHASRA NO.: 511/1, 512/2,	DATE OF RECEIPT	05/06/2022 11/06/2022		
URLA INDUSTRIAL AREA	DATE OF REPORT			
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:06/06/2022	End:11/06/2022	
	SAMPLE DETAILS			
Monitoring For	Stack Emission Monitoring			
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/88, DATED: 24.10.2021			
Sampling Location	3.0 & 3.6 MVA Submerged	Arc Furnace 'A & B' (Combin	ne Stack)	
Sample Collected By	Laboratory Chemist			
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003			
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO _x : 25 ml X 1 No. PVC Bot Rubber Bladder: 1 X 1 No.,			

TEST REPORT

Stack details				
Stack Identity				3.0 & 3.6 MVA SUBMERGED ARC FURNACE 'A & B' (COMBINE STACK)
Stack Attached To	BAG FILTER			
Material of Construction	MILD STEEL PLATE			
Height of the stack from ground leve	l (Meter)			30.0 MTR
Stack Diameter	1.4 MTR			
Stack Shape At Top	CIRCULAR ELECTRICITY			
Type of Fuel				
Total Electrical Load (KW)	3.0 MVA & 3.6 MVA			
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	IS:11255: (Part -3):2008	-	98
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	10.8
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	48050.1
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	30.2

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Name & Address Of The Customer	REPORT NO.	UES/TR/22-23/0162	3		
То,	LAB REF NO. UES/22-23/ST/02032				
HIRA POWER AND STEEL LTD.	DATE OF SAMPLING				
KHASRA NO.: 511/1, 512/2,	DATE OF RECEIPT				
URLA INDUSTRIAL AREA	DATE OF REPORT	11/06/2022			
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:06/06/2022	End:11/06/2022		
and the second	SAMPLE DETAILS		Deley- (Bibles		
Monitoring For	Stack Emission Monitoring				
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PC	D/21-22/88, DATED: 24.10.2	021		
Sampling Location	5.5 MVA Submerged Arc Fi	urnace 'C'			
Sample Collected By	Laboratory Chemist	1000			
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirme 2012, IS 5182 (Part 10) :2003				
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO _X : 25 ml X 1 No. PVC Bo Rubber Bladder: 1 X 1 No.,				

TEST REPORT

Stack Identity	5.5 MVA SUBMERGED ARC FURNACE 'C'			
Stack Attached To	BAG FILTER			
Material of Construction	MILD STEEL PLATE			
Height of the stack from ground leve	35.0 MTR			
Stack Diameter	1.4 MTR			
Stack Shape At Top	CIRCULAR			
Type of Fuel	ELECTRICITY			
Total Electrical Load (KW)	5.5 MVA			
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	. °C	IS:11255: (Part -3):2008	-	102
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	8.20
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	36093.3
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	. 40.2

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Name & Address Of The Customer	REPORT NO.	UES/TR/22-23/0162	4	
То,	LAB REF NO.	UES/22-23/ST/02033		
HIRA POWER AND STEEL LTD.	DATE OF SAMPLING	04/06/2022		
KHASRA NO.: 511/1, 512/2,	DATE OF RECEIPT	05/06/2022		
URLA INDUSTRIAL AREA	DATE OF REPORT	11/06/202Ż		
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:06/06/2022	End:11/06/2022	
SAMPLE	DETAILS		Carte and Annual	
Monitoring For	Stack Emission Monitoring			
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PC	D/21-22/88, DATED: 24.10.20	021	
Sampling Location	5.5 MVA Submerged Arc Fi	urnace 'D'		
Sample Collected By	Laboratory Chemist			
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003			
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 Rubber Bladder: 1 X 1 No.,	ml X 1 No. PVC Bottle, NO _X :	25 ml X 1 No. PVC Bottle	

TEST REPORT

Stack Identity				5.5 MVA SUBMERGED ARC FURNACE 'D'
Stack Attached To				· BAG FILTER
Material of Construction	MILD STEEL PLATE			
Height of the stack from ground level	(Meter)			35.0 MTR
Stack Diameter				1.4 MTR
Stack Shape At Top	CIRCULAR			
Type of Fuel	ELECTRICITY			
Total Electrical Load (KW)	5.5 MVA			
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	IS:11255: (Part -3):2008	-	118
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	- `	6.42
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	4	27102.0
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	32.8

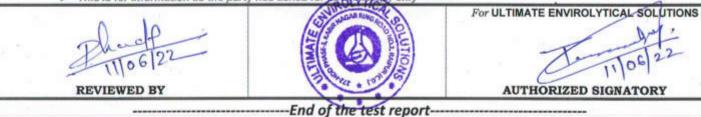
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HDD-272, Phase III - Near JP Chowk Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099 Ph : 0771 - 4027777 I Email : ultimatenviro@gmail.com

Name & Address Of The Costomer	REPORT NO. UES/TR/22-23/01625			
То,	LAB REF NO. UES/22-23/ST/02034 DATE OF SAMPLING 04/06/2022			
HIRA POWER AND STEEL LTD.				
KHASRA NO.: 511/1, 512/2,	DATE OF RECEIPT	05/06/2022 11/06/2022		
URLA INDUSTRIAL AREA	DATE OF REPORT			
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:06/06/2022	End:11/06/2022	
AND A CONTRACTOR OF A DESCRIPTION OF	SAMPLE DETAILS	AN THER WAS	A DOM STATE OF STATE	
Monitoring For	Stack Emission Monitoring			
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/88, DATED: 24.10.2021			
Sampling Location	6 MVA Submerged Arc Fur	'nace 'E'		
Sample Collected By	Laboratory Chemist			
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003			
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO _X : 25 ml X 1 No. PVC Bottle Rubber Bladder: 1 X 1 No.,			

TEST REPORT

Stack Identity	6 MVA SUBMERGED ARC FURNACE 'E'			
Stack Attached To	BAG FILTER			
Material of Construction	MILD STEEL PLATE			
Height of the stack from ground leve	40.0 MTR			
Stack Diameter	2.0 MTR			
Stack Shape At Top	CIRCULAR			
Type of Fuel	ELECTRICITY			
Total Electrical Load (KW)	6.0 MVA			
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	IS:11255: (Part -3):2008	-	108
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	6.9
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	- :	61005.2
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	34.6

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Nome & Address Of The Customer	REPORT NO.	UES/TR/22-23/01626		
То,	LAB REF NO.	UES/22-23/ST/02035		
HIRA POWER AND STEEL LTD.	DATE OF SAMPLING	04/06/2022 05/06/2022 11/06/2022		
KHASRA NO.: 511/1, 512/2,	DATE OF RECEIPT			
URLA INDUSTRIAL AREA	DATE OF REPORT			
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:06/06/2022	End:11/06/2022	
	SAMPLE DETAILS		MIRE THE DIT	
Monitoring For	Stack Emission Monitoring			
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/88, DATED: 24.10.2021			
Sampling Location	CLU Converter & Thermite	(Combine Stack)		
Sample Collected By	Laboratory Chemist			
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003			
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO _X : 25 ml X 1 No. PVC Bottle Rubber Bladder: 1 X 1 No.,			

TEST REPORT

Stack details				
Stack Identity	CLU CONVERTER & THERMITE (COMBINE STACK)			
Stack Attached To	BAG FILTER			
Material of Construction	MILD STEEL PLATE			
Height of the stack from ground leve	l (Meter)			35.0 MTR
Stack Diameter	2.295 MTR			
Stack Shape At Top	CIRCULAR			
Type of Fuel	ELECTRICITY			
Total Electrical Load (KW)	650 KW			
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	IS:11255: (Part -3):2008	-	114
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	9.6
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	110030.3
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	40	26.8

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Name & Address Of The Customer	REPORT NO. UES/TR/22-23/01627				
То,	LAB REF NO. UES/22-23/ST/02036				
HIRA POWER AND STEEL LTD.	DATE OF SAMPLING	04/06/2022			
KHASRA NO.: 511/1, 512/2,	DATE OF RECEIPT	05/06/2022			
URLA INDUSTRIAL AREA	DATE OF REPORT	11/06/2022			
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:06/06/2022	End:11/06/2022		
	SAMPLE DETAILS		O LUMPER STOL		
Monitoring For	Stack Emission Monitoring				
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PC	0/21-22/88, DATED: 24.10.2	021		
Sampling Location	20 MW AFBC				
Sample Collected By	Laboratory Chemist				
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003				
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO _X : 25 ml X 1 No. PVC Bottl Rubber Bladder: 1 X 1 No.,				

		TEST REPORT		
Stack details				
Stack Identity		COMPANY AND A COMPANY AND A COMPANY		20 MW AFBC
Stack Attached To	a secondaria		A LONG DOG	ESP
Material of Construction	+**			RCC
Height of the stack from ground leve	l (Meter)			73.0 MTR
Stack Diameter				2.83 MTR
Stack Shape At Top				CIRCULAR
Type of Fuel	COAL			
Total Electrical Load (KW)				20 KW
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	IS:11255: (Part -3):2008		124
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	19.8
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	336379.8
Sulphur Dioxide (SO ₂)	mg/Nm ³	IS 11255 (Part 2):1985, RA 2003	600	298
Oxides of Nitrogen (NOx)	mg/Nm ³	IS 11255 (Part 7):2005, RA 2012	300	162
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	36.0
Carbon Monoxide (CO)	mg/ Nm ³	IS 13270	-	4.6
Hg	mg/ Nm ³	USEPA Method No. 29	0.03	N.D.

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Aparts & Address 19 25 - Condennes	REPORT NO.	UES/TR/22-23/01551			
То,	LAB REF NO.	UE5/22-23/5T/03287			
HIRA POWER AND STEEL LTD.	DATE OF SAMPLING	14/07/2022 to 15/07/2022			
KHASRA NO.: 511/1, 512/2,	DATE OF RECEIPT	15/07/2022			
URLA INDUSTRIAL AREA	DATE OF REPORT	22/07/2022			
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:15/07/2022	End:22/07/2022		
	DETAILS	A CONTRACTOR OF THE OWNER	ULLET ALS		
Monitoring For	Stack Emission Monitoring P.O. NO. 7200004006/U102, DATED: 16/06/2022 3.0 & 3.6 MVA Submerged Arc Furnace 'A & E' (Combine Stack)				
Customer Ref. No. & Date					
Sampling Location					
Sample Collected By	Laboratory Chemist				
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 [Part 10] :2003				
Sample Quantity/Packing	/Packing Thimble: 1 X 1 No., 50z; 30 ml X 1 No. PVC Bottle, NOv: 25 ml X 1 P Rubber Bladder; 1 X 1 No.,				

		TEST REPORT		Alexandre and a second se
Stack details				
Stack Identity				3.0 & 3.6 MVA SUBMERGED ARC FURNACE 'A & B' (COMBINE STACK)
Second Second Conde				BAG FILTER
Stack Attached To Material of Construction				MILD STEEL PLATE
Height of the stack from ground level	(Meter)			30.0 MTR
Stack Diameter	Interest			1.4 MTR
Stack Shape At Top				CIRCULAR
Type of Fuel				ELECTRICITY
Total Electrical Load (KW)				3.0 MVA & 3.6 MVA
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	(S:11255: (Part -3) 2008	-	104
Flue Gas Velocity	M/s	IS :11255 :(Part -3) 2008	-	11.2
Total Gas Quantity	Nm ¹ /h	IS 11255 (Part -3) 2008	÷	49036.1
Total Particulate Matter (TPM)	mg/Nm ³	(5:11255:(Part -1):1985, RA 2003	50	32.2

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Name a Address Or Tra Casterna	REPORT NO.	UES/TR/22-23/01553	2	
То,	LAB REF NO.	UE5/22-23/5T/03288		
HIRA POWER AND STEEL LTD.	DATE OF SAMPLING	14/07/2022 to 15/07/2022		
KHASRA NO.: 511/1, 512/2,	DATE OF RECEIPT 15/07/2022			
URLA INDUSTRIAL AREA	DATE OF REPORT	22/07/2022		
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:15/07/2022	End 22/07/2022	
SAM	PLE DETAILS		http://www.uphes	
Monitoring For Stack Emission Monitoring				
Customer Ref. No. & Date P.O. NO. 7200004006/U102, DATED: 16/06/2022				
Sampling Location	5.5 MVA Submerged Arc Fu	irnace 'C'		
Sample Collected By	Laboratory Chemist			
Sampling Procedure	15 11255 Part 1,2:1585 Reaffirmed 2009, Part 3:2008, Part 7:2005 Reaffire 2012, 15 5182 (Part 10) :2003			
Sample Quantity/Packing	Thimble: 1 X 1 No., SO;: 30 ml X 1 No. PVC Bottle, NOs: 25 ml X 1 No. PVC Bottle Rubber Bladder: 1 X 1 No.,			

TEST REPORT					
Stack details			_		
Stack Identity				5.5 MVA SUBMERGED ARC FURNACE 'C'	
Stack Attached To				8AG FILTER	
Material of Construction				MILD STEEL PLATE	
Height of the stack from ground lev	el (Meter)			35.0 MTR	
Stack Diameter				1.4 MTR	
Stack Shape At Top				CIRCULAR	
Type of Fuel				ELECTRICITY	
Total Electrical Load (KW)				5.5 MVA	
Parameter	Unit	Method Reference	Limit	Result	
Flue Gas Temperature	°C	IS:11255: (Part -3):2008		96	
Flue Gas Velocity	M/s	IS:11255 (Part -3):2008	180	9.62	
Total Gas Quantity	Nm ¹ /h	15:11255: (Part -3):2008		43032.3	
Total Particulate Matter (TPM)	mg/Nm ³	IS:11255:(Part -1):1985, RA 2003	50	42.8	

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Window Anterious DI The Container	REPORT NO.	UES/TR/22-23/01553	
то,	LAB REF NO	UE5/22-23/5T/03289	
HIRA POWER AND STEEL LTD.	DATE OF SAMPLING	14/07/2022 to 15/07/2022	
KHASRA NO.: 511/1, 512/2,	DATE OF RECEIPT	15/07/2022	
URLA INDUSTRIAL AREA	DATE OF REPORT	22/07/2022	
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:15/07/2022 End:22/07/2022	
SAMPLE	DETAILS	A AND A A	
Monitoring For	Stack Emission Monitoring		
Customer Ref. No. & Date	P.O. NO. 7200004006/U102, DATED. 16/06/2022		
Sampling Location	5.5 MVA Submerged Arc Furn	ace 'D'	
Sample Collected By	Laboratory Chemist		
Sampling Procedure	15 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, 15 5182 (Part 10] :2003		
Sample Quantity/Packing	Thimble: 1 X 1 No., 50: 30 ml X 1 No. PVC Bottle, NOs: 25 ml X 1 No. PVC Bott Robber Bladder: 1 X 1 No.,		

TEST REPORT					
Stack details					
Stack Identity				5.5 MVA SUBMERGED ARC FURNACE 'D'	
Stack Attached To				BAG FILTER	
Material of Construction				MILD STEEL PLATE	
Height of the stack from ground level	(Meter)			35.0 MTR	
Stack Diameter				1.4 MTR	
Stack Shape At Top				CIRCULAR	
Type of Fuel				ELECTRICITY	
Total Electrical Load (KW)				S.S MVA	
Parameter	Unit	Method Reference	Limit	Result	
Flue Gas Temperature	°C	IS:11255: (Part -3):2008		112	
Flue Gas Velocity	M1/5	IS:11255:(Part -3):2008		6.56	
Total Gas Quantity	Nm3/h	IS :11255: (Part -3)-2008		28124.7	
Total Particulate Matter (TPM)	mg/Nm ¹	IS :11255 :(Part -1) 1985, RA 2003	50	36.4	

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End of the test report-



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Warner & distances are The Constantion	REPORT NO.	UES/TR/22-23/01554		
То,	LAB REF NO	UES/22-23/ST/03290		
HIRA POWER AND STEEL LTD.	DATE OF SAMPLING	14/07/2022 to 15/07/2022		
KHASRA NO.: 511/1, 512/2,	DATE OF RECEIPT	15/07/2022		
URLA INDUSTRIAL AREA	DATE OF REPORT	22/07/2022		
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:15/07/2022 End:22/07/2022		
IN STREET PLAN DOTATION OF A	SAMPLE DETAILS			
Monitoring For	Stack Emission Monitoring			
Customer Ref. No. & Date	P.O. NO. 7200004006/U3	02_ DATED: 16/06/2022		
Sampling Location	5 MVA Submorged Arc Fu	insace 'E'		
Sample Collected By	Laboratory Chemist			
Sampling Procedure	2012, IS 5182 (Part 10) :20	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003		
Sample Quantity/Packing		Thimble: 1 X 1 No., 502: 30 ml X 1 No. PVC Bottle, NOx: 25 ml X 1 No. PVC Bottl Rubber Bladder: 1 X 1 No.,		

		TEST REPORT	the second second	in the second second
Stack details				
Stack Identity				6 MVA SUBMERGED ARC FURNACE 'E'
Stack Attached To				BAG FILTER
Material of Construction				MILD STEEL PLATE
Height of the stack from ground level	(Meter)			40.0 MTR
Stack Diameter	Accession.			2.0 MTR
Stack Shape At Top				CIRCULAR
Type of Fuel				ELECTRICITY
Total Electrical Load (KW)				6.0 MVA
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	15:11255: (Part -3):2008		104
Flue Gas Velocity	M/s	15:11255 (Part -3) 2008	100	6.4
Total Gas Quantity	Nm ¹ /h	IS :11255: (Part -3) 2008	20	57185.5
Total Particulate Matter (TPM)	mg/Nm1	IS :11255 (Part -1):1985, RA 2003	50	38.4

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End of the sest report-



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Kana A. Jakhoppi di Dan Perlaminin	REPORT NO.	UES/TR/22-23/01555		
То,	LAB REF NO.	UE5/22-23/ST/03291		
HIRA POWER AND STEEL LTD.	DATE OF SAMPLING	14/07/2022 to 15/07/2022		
KHASRA NO.: 511/1, 512/2,	DATE OF RECEIPT	15/07/2022		
URLA INDUSTRIAL AREA	DATE OF REPORT	22/07/2022		
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:15/07/2022	End:22/07/2022	
SAMPLE	DETAILS	- Tille	man on	
Manitaring For	Stack Emission Monitoring			
Customer Ref. No. & Date	P.O. NO. 7200004006/U102, DATED: 16/06/2022			
Sampling Location	CLU Converter & Thermite (Cr	ombine Stack)		
Sample Collected By	Laboratory Chemist IS 11255 Part 1,2:1985 Reaffirmed 2009, Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10):2003			
Sampling Procedure				
Sample Quantity/Packing	Thimble: 1 X 1 No., 50;: 30 ml X 1 No. PVC Bottle, NO.: 25 ml X 1 No. PVC Bot Rubber Bladder: 1 X 1 No.,			

		TEST REPORT		
Stack details				
Stack Identity				CLU CONVERTER & THERMITI (COMBINE STACK)
Stack Attached To				BAG FILTER
Material of Construction				MILD STEEL PLATE
Height of the stack from ground level	(Meter)			35.0 MTR
Stack Diameter				2.295 MTR
Stack Shape At Top				CIRCULAR
Type of Fuel				ELECTRICITY
Total Electrical Load (KW)				650 KW
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	IS:11255: (Part -3):2008	-	106
Flue Gas Velocity	M/s	15:11255:(Part -3):2008	2	9.2
Total Gas Quantity	Nm3/h	IS 11255: (Part -3) 2008	-	107671.6
Total Particulate Matter (TPM)	mg/Nm ³	IS 11255 (Part -1) 1985, RA 2003	40	24.6

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Name & Address Of The Contensis	REPORT NO.	UE5/TR/22-23/01556		
То,	LAB REF NO.	UE5/22-23/ST/03292		
HIRA POWER AND STEEL LTD.	DATE OF SAMPLING	14/07/2022 to 15/07/2022		
KHASRA NO.: 511/1, 512/2,	DATE OF RECEIPT	15/07/2022		
URLA INDUSTRIAL AREA	DATE OF REPORT	22/07/2022		
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:15/07/2022	End:22/07/2022	
SAMPLE	DETAILS	MANE PARA	1411	
Monitoring For Stack Emission Monitoring				
Eustomer Ref. No. & Date	P.O. NO. 7200004006/U10	2, DATED: 16/06/2022		
Sampling Location	20 MW AFBC			
Sample Collected By	Laboratory Chemist			
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10):2003			
Sample Quantity/Packing	Thimble: 1 X 1 No., 502: 30 ml X 1 No. PVC Bottle, NOx: 25 ml X 1 No. PVC Bottl Rubber Bladder: 1 X 1 No.,			

TEST REPORT						
Stack details						
Stack Identity				20 MW AFBC		
Stack Attached To				ESP		
Material of Construction				RCC		
Height of the stack from ground leve	l (Meter)			73.0 MTR		
Stack Diameter				2.83 MTR		
Stack Shape At Top				CIRCULAR		
Type of Fuel				COAL		
Total Electrical Load (KW)				20 KW		
Parameter	Unit	Method Reference	Limit	Result		
Flue Gas Temperature	°C	IS:11255: (Part -3):2008	-	126		
Flue Gas Velocity	M/s	IS:11255:(Part -3):2008		18.2		
Total Gas Quantity	Nm³/b	IS 11255 (Part -3) 2008	-	309830.1		
Sulphur Dioxide (SO2)	mg/Nm ³	IS 11255 (Part 2) 1985, RA 2003	600	242		
Oxides of Nitrogen (NOx)	mg/Nm ²	IS 11255 (Part 7) 2005, RA 2012	300	182		
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	42.4		
Carbon Monoxide (CO)	mg/ Nm ¹	IS 13270:2019	-	4.8		
Hg	mg/ Nm ¹	USEPA Method No. 29	0.03	N.D.		

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+ This is for information as the party has asked for above test(s) only



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Name & Address Of The Customar	REPORT NO.	UES/TR/22-23/0239	8		
To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2,	LAB REF NO. UES/22-23/ST/07027 DATE OF SAMPLING 17/08/2022				
	URLA INDUSTRIAL AREA	DATE OF REPORT	22/08/2022		
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:18/08/2022	End:22/08/2022		
	SAMPLE DETAILS	6 di 12 di 2010 10	Contraction of the local distance		
Monitoring For	Stack Emission Monitoring				
Customer Ref. No. & Date	P.O. NO. 7200004006/U102, DATED: 16/06/2022				
Sampling Location	3.0 & 3.6 MVA Submerged	Arc Furnace 'A & B' (Combin	ne Stack)		
Sample Collected By	Laboratory Chemist				
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003				
Sample Quantity/Packing	Thimble: 1 X 1 No., SO2: 30 ml X 1 No. PVC Bottle, NOx: 25 ml X 1 No. PVC Bottle Rubber Bladder: 1 X 1 No.,				

TEST REPORT

Stack Identity	3.0 & 3.6 MVA SUBMERGED ARC FURNACE 'A & B' (COMBINE STACK)			
Stack Attached To	BAG FILTER			
Material of Construction	MILD STEEL PLATE			
Height of the stack from ground leve	l (Meter)			30.0 MTR
Stack Diameter				1.4 MTR
Stack Shape At Top	CIRCULAR			
Type of Fuel	ELECTRICITY			
Total Electrical Load (KW)	3.0 MVA & 3.6 MVA			
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	*C	IS:11255: (Part -3):2008	-	108
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	12.6
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	54587.1
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	34.8

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Name & Address Of The Customer	REPORT NO. UES/TR/22-23/02399 LAB REF NO. UES/22-23/ST/07028 DATE OF SAMPLING 17/08/2022				
To, HIRA POWER AND STEEL LTD.					
URLA INDUSTRIAL AREA	DATE OF REPORT	22/08/2022			
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:18/08/2022	End:22/08/2022		
	SAMPLE DETAILS	CLUE EN LOUR	S. S. L. L. S. S. H.		
Monitoring For	Stack Emission Monitoring				
Customer Ref. No. & Date	P.O. NO. 7200004006/U102, DATED: 16/06/2022				
Sampling Location	5.5 MVA Submerged Arc Fe	urnace 'C'			
Sample Collected By	Laboratory Chemist				
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003				
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO _X : 25 ml X 1 No. PVC Bottle Rubber Bladder: 1 X 1 No.,				

TEST R	EPORT
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Canal Identity	5.5 MVA SUBMERGED ARC			
Stack Identity				FURNACE 'C'
Stack Attached To	BAG FILTER			
Material of Construction	MILD STEEL PLATE			
Height of the stack from ground leve	l (Meter)			35.0 MTR
Stack Diameter				1.4 MTR
Stack Shape At Top	CIRCULAR			
Type of Fuel	ELECTRICITY			
Total Electrical Load (KW)	5.5 MVA			
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	*C	IS:11255: (Part -3):2008	-	98
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	10.2
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	45380.6
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	40.8

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Name & Address Of The Customor	REPORT NO.	UES/TR/22-23/0240	0		
то,	LAB REF NO. UES/22-23/ST/07029 DATE OF SAMPLING 17/08/2022				
HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2,					
	DATE OF RECEIPT				
URLA INDUSTRIAL AREA	DATE OF REPORT	22/08/2022			
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:18/08/2022	End:22/08/2022		
	SAMPLE DETAILS	Super all in the	With and the second		
Monitoring For	Stack Emission Monitoring				
Customer Ref. No. & Date	P.O. NO. 7200004006/U10	2, DATED: 16/06/2022			
Sampling Location	5.5 MVA Submerged Arc Fi	urnace 'D'			
Sample Collected By	Laboratory Chemist				
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003				
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO _X : 25 ml X 1 No. PVC Bottl Rubber Bladder: 1 X 1 No.,				

TEST REPORT

Stack details				
Stack Identity				5.5 MVA SUBMERGED ARC FURNACE 'D'
Stack Attached To				BAG FILTER
Material of Construction				MILD STEEL PLATE
Height of the stack from ground leve	l (Meter)			35.0 MTR
Stack Diameter				1.4 MTR
Stack Shape At Top	CIRCULAR			
Type of Fuel	ELECTRICITY			
Total Electrical Load (KW)	5.5 MVA			
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	*C	IS:11255: (Part -3):2008	-	116
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008		7.28
Total Gas Quantity	Nm³/h	IS :11255: (Part -3):2008	-	30890.5
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	38.4

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-----End of the test report-----



Name & Address Of The Gustomor	REPORT NO. UES/TR/22-23/02401 LAB REF NO. UES/22-23/ST/07030 DATE OF SAMPLING 17/08/2022				
To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2,					
	URLA INDUSTRIAL AREA	DATE OF REPORT	22/08/2022		
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:18/08/2022	End:22/08/2022		
A DALLAN THE STORE STORE TO A DALLAND	SAMPLE DETAILS	E PERSONAL PROPERTY AND	a service and the service of the ser		
Monitoring For	Stack Emission Monitoring				
Customer Ref. No. & Date	P.O. NO. 7200004006/U102, DATED: 16/06/2022				
Sampling Location	6 MVA Submerged Arc Fur	nace 'E'			
Sample Collected By	Laboratory Chemist				
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003				
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO _x : 25 ml X 1 No. PVC Bottle Rubber Bladder: 1 X 1 No.,				

		TEST REPORT		
Stack details				
Stack Identity				6 MVA SUBMERGED ARC FURNACE 'E'
Stack Attached To				BAG FILTER
Material of Construction				MILD STEEL PLATE
Height of the stack from ground leve	l (Meter)			40.0 MTR
Stack Diameter				2.0 MTR
Stack Shape At Top				CIRCULAR
Type of Fuel				ELECTRICITY
Total Electrical Load (KW)				6.0 MVA
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	*C	IS:11255: (Part -3):2008	-	108
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	7.2
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	63658.4
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	34.6

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-----End of the test report-----End of the test report-----



Name & Address Of The Customer	REPORT NO. UES/TR/22-23/02402				
то,	LAB REF NO. UES/22-23/ST/07031 DATE OF SAMPLING 17/08/2022				
HIRA POWER AND STEEL LTD.					
KHASRA NO.: 511/1, 512/2,	DATE OF RECEIPT	18/08/2022 22/08/2022			
URLA INDUSTRIAL AREA	DATE OF REPORT				
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:18/08/2022	End:22/08/2022		
the strength of the second sec	SAMPLE DETAILS	STIDE STREET	A DESCRIPTION		
Monitoring For	Stack Emission Monitoring				
Customer Ref. No. & Date	P.O. NO. 7200004006/U10	2, DATED: 16/06/2022			
Sampling Location	CLU Converter & Thermite	(Combine Stack)			
Sample Collected By	Laboratory Chemist				
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003				
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO _X : 25 ml X 1 No. PVC Bottle Rubber Bladder: 1 X 1 No.,				

TEST REPORT

An example of the second s				
Stack Identity	CLU CONVERTER & THERMITE			
	(COMBINE STACK)			
Stack Attached To	BAG FILTER			
Material of Construction	MILD STEEL PLATE			
Height of the stack from ground leve	l (Meter)			35.0 MTR
Stack Diameter	2.295 MTR			
Stack Shape At Top	CIRCULAR			
Type of Fuel	ELECTRICITY			
Total Electrical Load (KW)				650 KW
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	*C	IS:11255: (Part -3):2008	-	92.0
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	8.6
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	104510.3
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	40	22.8

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-----End of the test report-----



Name & Address Of The Customer	REPORT NO.	UES/TR/22-23/0280	0		
То,	LAB REF NO. UES/22-23/ST/07828 DATE OF SAMPLING 17/08/2022				
HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2,					
	DATE OF RECEIPT				
URLA INDUSTRIAL AREA	DATE OF REPORT	22/08/2022			
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:18/08/2022	End:22/08/2022		
	SAMPLE DETAILS		A STATISTICS		
Monitoring For	Stack Emission Monitoring				
Customer Ref. No. & Date	P.O. NO. 7200004006/U102, DATED: 16/06/2022				
Sampling Location	20 MW AFBC				
Sample Collected By	Laboratory Chemist				
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003				
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO _X : 25 ml X 1 No. PVC Bottl Rubber Bladder: 1 X 1 No.,				

President and the		TEST REPORT		
Stack details				
Stack Identity				20 MW AFBC
Stack Attached To				ESP
Material of Construction				RCC
Height of the stack from ground leve	l (Meter)			73.0 MTR
Stack Diameter				2.83 MTR
Stack Shape At Top				CIRCULAR
Type of Fuel				COAL
Total Electrical Load (KW)			20 KW	
Parameter	Unit .	Method Reference	Limit	Result
Flue Gas Temperature	°C	IS:11255: (Part -3):2008	-	124
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	21.8
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	370362.7
Sulphur Dioxide (SO ₂)	mg/Nm ³	IS 11255 (Part 2):1985, RA 2003	600	246
Oxides of Nitrogen (NOx)	mg/Nm ³	IS 11255 (Part 7):2005, RA 2012	300	123
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	42.5
Carbon Monoxide (CO)	mg/Nm ³	IS 13270:2019	-	4.8
Hg	mg/Nm ³	USEPA Method No. 29	0.03	N.D.

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-----End of the test report-----

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Name & Address Of The Customer	REPORT NO.	UES/TR/22-23/0309	9		
то,	LAB REF NO. UES/22-23/ST/08292 DATE OF SAMPLING 23/09/2022				
HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2,					
	DATE OF RECEIPT 24/09/2022				
URLA INDUSTRIAL AREA	DATE OF REPORT	29/09/2022			
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:24/09/2022	End:29/09/2022		
	SAMPLE DETAILS				
Monitoring For	Stack Emission Monitoring				
Customer Ref. No. & Date	P.O. NO. 7200004006/U10	2, DATED: 16/06/2022			
Sampling Location	3.0 & 3.6 MVA Submerged	Arc Furnace 'A &B' (Combin	e Stack)		
Sample Collected By	Laboratory Chemist				
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003				
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO _X : 25 ml X 1 No. PVC Bott Rubber Bladder: 1 X 1 No.,				

TEST REPORT

Stack Identity				3.0 & 3.6 MVA SUBMERGED ARC
	FURNACE 'A & B' (COMBINE STACK)			
Stack Attached To				BAG FILTER
Material of Construction				MILD STEEL PLATE
Height of the stack from ground leve	I (Meter)			30.0 MTR
Stack Diameter	1.4 MTR			
Stack Shape At Top				CIRCULAR
Type of Fuel				ELECTRICITY
Total Electrical Load (KW)				3.0 MVA & 3.6 MVA
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	IS:11255: (Part -3):2008	-	112
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	14.2
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	60879.6
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	36.2

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Name & Address Of The Customer	REPORT NO. UES/TR/22-23/03100 LAB REF NO. UES/22-23/ST/08293 DATE OF SAMPLING 23/09/2022				
То,					
HIRA POWER AND STEEL LTD.					
KHASRA NO.: 511/1, 512/2,	DATE OF RECEIPT				
URLA INDUSTRIAL AREA	DATE OF REPORT	29/09/2022			
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:24/09/2022	End:29/09/2022		
WHENDERS & HILLSON THE STATE	SAMPLE DETAILS	A CARLES AND A CARLES	States and and and		
Monitoring For	Stack Emission Monitoring				
Customer Ref. No. & Date	P.O. NO. 7200004006/U10	2, DATED: 16/06/2022			
Sampling Location	5.5 MVA Submerged Arc Fi	urnace 'C'			
Sample Collected By	Laboratory Chemist				
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003				
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO _x : 25 ml X 1 No. PVC Bott Rubber Bladder: 1 X 1 No.,				

TEST REPORT

Stack Identity				5.5 MVA SUBMERGED ARC FURNACE 'C'
Stack Attached To				BAG FILTER
Material of Construction				MILD STEEL PLATE
Height of the stack from ground leve	(Meter)			35.0 MTR
Stack Diameter				1.4 MTR
Stack Shape At Top				CIRCULAR
Type of Fuel	and a second			ELECTRICITY
Total Electrical Load (KW)				5.5 MVA
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	IS:11255: (Part -3):2008	-	106
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	12.6
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	54875.1
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	42.2

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-----End of the test report-----



Name & Address Of The Customer	REPORT NO.	REPORT NO. UES/TR/22-23/03101				
то,	LAB REF NO. UES/22-23/ST/08294 DATE OF SAMPLING 23/09/2022					
HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA						
	DATE OF RECEIPT	24/09/2022				
	DATE OF REPORT	29/09/2022				
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:24/09/2022	End:29/09/2022			
	SAMPLE DETAILS		State State of the			
Monitoring For	Stack Emission Monitoring					
Customer Ref. No. & Date	P.O. NO. 7200004006/U102, DATED: 16/06/2022 5.5 MVA Submerged Arc Furnace 'D'					
Sampling Location						
Sample Collected By	Laboratory Chemist					
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003					
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO _x : 25 ml X 1 No. PVC Bottle Rubber Bladder: 1 X 1 No.,					

		TEST REPORT		
Stack details	213			
Stack Identity				5.5 MVA SUBMERGED ARC FURNACE 'D'
Stack Attached To				BAG FILTER
Material of Construction				MILD STEEL PLATE
Height of the stack from ground leve	l (Meter)			35.0 MTR
Stack Diameter				1.4 MTR
Stack Shape At Top				CIRCULAR
Type of Fuel				ELECTRICITY
Total Electrical Load (KW)				5.5 MVA
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	IS:11255: (Part -3):2008		110
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	1 A.	8.62
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	37149.5
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	36.8

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-----End of the test report-----



Name & Address Of The Customer	REPORT NO.	UES/TR/22-23/0310	2		
То,	LAB REF NO. UES/22-23/ST/08095				
HIRA POWER AND STEEL LTD.	DATE OF SAMPLING 23/09/2022				
KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA	DATE OF RECEIPT	24/09/2022			
	DATE OF REPORT	29/09/2022			
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:24/09/2022	End:29/09/2022		
	SAMPLE DETAILS		SALE SHALL SHE SHE SHE		
Monitoring For	Stack Emission Monitoring				
Customer Ref. No. & Date	P.O. NO. 7200004006/U102, DATED: 16/06/2022 6 MVA Submerged Arc Furnace 'E'				
Sampling Location					
Sample Collected By	Laboratory Chemist				
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003				
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO _X : 25 ml X 1 No. PVC Bottle Rubber Bladder: 1 X 1 No.,				

		TEST REPORT		
Stack details			- 22 h	
Stack Identity				6 MVA SUBMERGED ARC FURNACE 'E'
Stack Attached To				BAG FILTER
Material of Construction				MILD STEEL PLATE
Height of the stack from ground leve	l (Meter)			40.0 MTR
Stack Diameter				2.0 MTR
Stack Shape At Top				CIRCULAR
Type of Fuel				ELECTRICITY
Total Electrical Load (KW)				6.0 MVA
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°С	IS:11255: (Part -3):2008	-	104
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	7.8
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	69695.0
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	36.2

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Name & Address Of The Customer	REPORT NO.	UES/TR/22-23/0310	3	
то,	LAB REF NO.	UES/22-23/ST/08296		
HIRA POWER AND STEEL LTD.	DATE OF SAMPLING 23/09/2022			
KHASRA NO.: 511/1, 512/2,	DATE OF RECEIPT	24/09/2022		
URLA INDUSTRIAL AREA	DATE OF REPORT	29/09/2022		
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:24/09/2022	End:29/09/2022	
	SAMPLE DETAILS		CARLES AND AND	
Monitoring For	Stack Emission Monitoring			
Customer Ref. No. & Date	P.O. NO. 7200004006/U10	2, DATED: 16/06/2022		
Sampling Location	CLU Converter & Thermite	(Combine Stack)		
Sample Collected By	Laboratory Chemist			
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003			
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO _X : 25 ml X 1 No. PVC Bottle Rubber Bladder: 1 X 1 No.,			

TEST REPORT

Stack Identity				CLU CONVERTER & THERMITE (COMBINE STACK)
Stack Attached To				BAG FILTER
Material of Construction	and the second second			MILD STEEL PLATE
Height of the stack from ground leve	l (Meter)			35.0 MTR
Stack Diameter	2.295 MTR			
Stack Shape At Top	CIRCULAR			
Type of Fuel	ELECTRICITY			
Total Electrical Load (KW)				650 KW
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	*C	IS:11255: (Part -3):2008	-	98.0
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	8.2
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	91848.5
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	40	24.6

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-----End of the test report-----End of the test report------



Name & Address Of The Customer	REPORT NO.	UES/TR/22-23/03104	4		
то,	LAB REF NO. UES/22-23/ST/08297 DATE OF SAMPLING 23/09/2022				
HIRA POWER AND STEEL LTD.					
KHASRA NO.: 511/1, 512/2,	DATE OF RECEIPT	24/09/2022 29/09/2022			
URLA INDUSTRIAL AREA	DATE OF REPORT				
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:24/09/2022	End:29/09/2022		
	SAMPLE DETAILS	(1)。(1)(1)(1)(1) (1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(
Monitoring For	Stack Emission Monitoring	Stack Emission Monitoring			
Customer Ref. No. & Date	P.O. NO. 7200004006/U10	P.O. NO. 7200004006/U102, DATED: 16/06/2022			
Sampling Location	20 MW AFBC				
Sample Collected By	Laboratory Chemist				
Sampling Procedure .		IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003			
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO _X : 25 ml X 1 No. PVC Bottle, Rubber Bladder: 1 X 1 No.,				

		TEST REPORT		
Stack details			and the second	
Stack Identity				20 MW AFBC
Stack Attached To		And the second sec		ESP
Material of Construction				RCC
Height of the stack from ground leve	l (Meter)			73.0 MTR
Stack Diameter				2.83 MTR
Stack Shape At Top				CIRCULAR
Type of Fuel				COAL
Total Electrical Load (KW)				20 KW
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	IS:11255: (Part -3):2008	-	120
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	22.6
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	÷	387861.9
Sulphur Dioxide (SO ₂)	mg/Nm ³	IS 11255 (Part 2):1985, RA 2003	600	262
Oxides of Nitrogen (NOx)	mg/Nm ³	IS 11255 (Part 7):2005, RA 2012	300	148
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	40.8
Carbon Monoxide (CO)	mg/ Nm ³	IS 13270:2019	-	6.2
Hg	mg/Nm ³	USEPA Method No. 29	0.03	N.D.

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Annex.-IX

Format No. ; UES/FORM/09



HDD-272, Phase III - Near JP Chowk Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099 Ph : 0771 - 4027777 I Email : ultimatenviro@gmail.com

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Name & Address Of The Custom	0r	Report No.	UES/TR/22-23/0336 UES/22-23/AAQM/0371-0374			
то,		Lab Ref No.				
HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		.TD. Date of Sampling		4/2022		
		Date of Receipt	17/04/2022			
		Date of Report	22/04/2022			
		Date of Analysis	Start:17/04/2022	End:22/04/2022		
Contraction (March 1/2)	SAMPLE	DETAILS	EN MARKER (II) TH	TRANSFER STATES		
Monitoring For	Ambient Air Quality Monitoring	Ambient Air Quality Monitoring				
Sampling Location	Near CHP Area Beside Silo Solar Panel Area Near Main Gate	2. Beside Silo 3. Solar Panel Area				
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/88, D/	ATED: 24.10.2021				
Duration Of Sampling	As per CPCB norms					
Sample Collected By	Laboratory Chemist					
Sampling Procedure	As Per Method Reference					
Sample Quantity/Packing	Filter Paper (PM ₁₀): 1X1 No., Filter Paper (PM _{2.5}): 1X1 No. SO ₂ : 30mlX1 No. PVC Bottle, NO ₂ : 30mlX1 NO. PVC Bottle,					

Test Method for Ambient Air Quality Monitoring					
Parameter Method Reference					
Particulate Matter size less than 10 microns (PM ₁₀)	IS:5182: (Part-23):2006 & CPCB Guidelines VolI				
Particulate Matter size less than 2.5 microns $(PM_{2.5})$	IS:5182: (Part-24):2019 & CPCB Guidelines VolI				
Sulphur Dioxide (SO ₂)	IS:5182: (Part-2):2001, RA 2006 & CPCB Guidelines VolI				
Nitrogen Dioxide (NO2)	IS:5182: (Part-6):2006 & CPCB Guidelines VolI				

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Parameter Unit		NAAQM	A state of the sta	Re	sults	
	Standard	Near CHP Area	Beside Silo	Solar Panel Area	Near Main Gate	
PM10	µg/m ³	100	86.4	72.8	84.8	76.2
PM _{2.5}	µg/m ³	60	42.8	46.4	48.2	34.8
SO ₂	µg/m ³	80	20.4	18.4	16.8	16.6
NO ₂	µg/m ³	80	32.4	34.8	26.4	30.8
CO	mg/m ³	4.0	0.24	0.18	0.34	0.28

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Name & Address Of The Customer To,		Report No.	UES/TR/22-23/0876			
HIRA POWER ANI	STEEL ITD	Lab Ref No.	UES/22-23/AAQM/	UES/22-23/AAQM/01447-01450		
HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		Date of Sampling	10/05/2022 to 11/0	5/2022		
		Date of Receipt	12/05/2022			
		Date of Report	17/05/2022			
		Date of Analysis	Start:12/05/2022	End:17/05/2022		
	SAMPL	E DETAILS	BUILDED DE T	100100		
Monitoring For	Ambient Air Quality Monitoring	Ambient Air Quality Monitoring				
Sampling Location	Near CHP Area Beside Silo Solar Panel Area Near Main Gate	Near CHP Area Solar Panel Area				
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/88, D	ATED: 24.10.2021				
Duration Of Sampling	As per CPCB norms					
Sample Collected By	Laboratory Chemist					
Sampling Procedure	As Per Method Reference					
Sample Quantity/Packing	Filter Paper (PM ₁₀): 1X1 No., Filter Paper (PM _{2.5}): 1X1 No. SO ₂ : 30mlX1 No. PVC Bottle, NO ₂ : 30mlX1 NO. PVC Bottle,					

Test Method for Ambient Air Quality Monitoring			
Parameter	Method Reference		
Particulate Matter size less than 10 microns (PM ₁₀)	IS:5182: (Part-23):2006 & CPCB Guidelines VolI		
Particulate Matter size less than 2.5 microns (PM2.5)	IS:5182: (Part-24):2019 & CPCB Guidelines VolI		
Sulphur Dioxide (SO ₂)	IS:5182: (Part-2):2001, RA 2006 & CPCB Guidelines VolI		
Nitrogen Dioxide (NO2)	IS:5182: (Part-6):2006 & CPCB Guidelines VolI		

TEST REPORT							
Parameter Unit	Unit	NAAQM		Re	sults	and the second	
	Standard Near	Near CHP Area	Beside Silo	Solar Panel	Near Main Gate		
PM10	µg/m ³	100	92.4	84.8	Area 88.2		
PM _{2.5}	µg/m ³	60	46.8	48.2	52.8	80.6	
SO ₂	µg/m ³	80	20.8	16.4		32.8	
NO ₂	µg/m ³	80	36.8	30.2	12.8	18.4	
CO	mg/m ³	4.0	0.18	and the first state of the	34.2	32.8	
			0.10	0.21	0.42	0.64	

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Name & Address Of The Customer To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2,		Report No.	UES/TR/22-23/01621			
		Lab Ref No.	UES/22-23/AAQM/	02027-2030		
		Date of Sampling	04/06/2022 to 05/0	6/2022		
		Date of Receipt	06/06/2022			
URLA INDUSTRIAL AREA		Date of Report	11/06/2022			
RAIPUR (C. G.) 492003		Date of Analysis	Start:06/06/2022	2 End:11/06/2022		
Law water an	SAMPLE D	ETAILS	West Stream and the stream	PURSON AND AND AND AND AND AND AND AND AND AN		
Monitoring For	Ambient Air Quality Monitoring		18 C			
Sampling Location	Near CHP Area Beside Silo Solar Panel Area Near Main Gate					
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/88, DATED	: 24.10.2021				
Duration Of Sampling	As per CPCB norms					
Sample Collected By	Laboratory Chemist					
Sampling Procedure	As Per Method Reference					
Sample Quantity/Packing		Filter Paper (PM ₁₀): 1X1 No., Filter Paper (PM ₂₅): 1X1 No. SO ₃ : 30mlX1 No. PVC Bottle, NO ₃ : 30mlX1 NO. PVC Bottle,				

Test Method for Ambient Air Quality Monitoring				
Parameter Method Reference				
Particulate Matter size less than 10 microns (PM10)	IS:5182: (Part-23):2006 & CPCB Guidelines VolI			
Particulate Matter size less than 2.5 microns (PM _{2.5})	IS:5182:(Part-24):2019 & CPCB Guidelines VolI			
Sulphur Dioxide (SO ₂)	IS:5182: (Part-2):2001, RA 2006 & CPCB Guidelines VolI			
Nitrogen Dioxide (NO2)	IS:5182: (Part-6):2006 & CPCB Guidelines VolI			

|--|

Parameter Unit		NAAQM	Results			
	Standard	Near CHP Area	Beside Silo	Solar Panel Area	Near Main Gate	
PM10	µg/m ³	100	90.6	86.8	92.2	84.6
PM _{2.5}	µg/m ³	60	42.0	44.2	40.8	36.8
SO ₂	µg/m ³	80	18.8	12.4	14.8	16.4
NO ₂	µg/m ³	80	34.2	36.2	33.2	38.8
со	mg/m ³	4.0	0.13	0.31	0.32	0.54

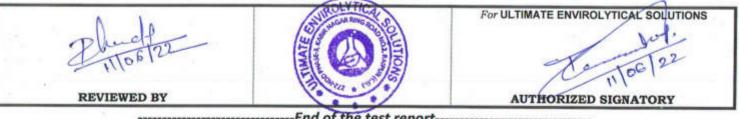
REMARKS: RESULTS ARE AS ABOVE

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Against & Autor and Dr. Dr. Confirm		Report No.	UES/TR/22-23/015	50
То,		Lab Ref No.	UE5/22-23/AAQM/	03283-03286
HIRA POWER AND	STEEL LTD.	Date of Sampling	14/07/2022 to 15/0	07/2022
KHASRA NO.: 511	/1, 512/2,	Date of Receipt	15/07/2022	
URLA INDUSTRIA	LAREA	Date of Report	22/07/2022	
RAIPUR (C. G.) 49	2003	Date of Analysis	Start:15/07/2022	End:22/07/2022
	SAMPLE	DETAILS	out of the state of the state	Ser. 41 (170)
Monitoring For Sampling Location	Ambient Air Quality Monitoring 1 Near CHP Area 2 Beside Silo 3 Solar Panel Area 4 Near Main Gate			
Customer Ref. No. & Date	P.O. NO. 7200004006/U102, DATED: 16/0 As per CPCB norms	06/2022		
Duration Of Sampling Sample Collected By Sampling Procedure	Laboratory Chemist As Per Method Reference			
Sample Quantity/Packing	Filter Paper (PMin): 1X1 No., Filter Paper 50:: 30mIX1 No. PVC Bottle, NO:: 30mIX1	(PM: i): 1X1 No. 1 NO. PVC Bottle,		

Test Method for Ambient Air Quality Monitoring					
Parameter	Method Reference				
Particulate Matter size less than 10 microns (PMto)	IS:5182:(Fart-23):2006 & CPCE Guidelines Vol.+I				
Particulate Matter size less than 2.5 microns (FM s)	IS:5182: (Part-24):2019 & CPCE Guidelines Vol1				
Sulphur Dioxide (SO;)	IS:5182:(Part-2):2001, RA 2006 & CPCB Guidelines Vol1				
Nitrogen Dioxide (NO2)	IS:5182:(Part-6):2006 & CPCB Guidelines VolI				

	11		TEST REPORT	Г		
DI DOMENT	CORRECTO	NAAON	現在3月2日 金沢の場	Re	sults	
Parameter	Unit	NAAQM Standard	Near CHP Area	Beside Silo	Solar Panel Area	Near Main Gate
PM10	µg/m ³	100	84.4	78.2	82.8	74.5
PM10 PM2.5	µg/m ³	60	38.2	40.5	34.6	30.2
502	µg/m ³	80	14.6	10.6	12.8	16.6
NO ₂	$\mu g/m^3$	80	34.2	30.8	36.2	34.4
co	mg/m ³	4.0	0.29	0.20	0.24	0.21

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- · Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer
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2/1-2/22		22/07/22
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End of the test report-



Name & Address of The Customer To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		Report No.	UES/TR/22-23/0239	97	
		Lab Ref No.	UES/22-23/AAQM/07023-07026 17/08/2022 to 18/08/2022		
		Date of Sampling			
		Date of Receipt	18/08/2022 22/08/2022		
		Date of Report			
		Date of Analysis	Start:18/08/2022	End:22/08/2022	
	SAMPLE	DETAILS		Constant States	
Monitoring For	Ambient Air Quality Monitoring				
Sampling Location	Near CHP Area Beside Silo Solar Panel Area Near Main Gate				
Customer Ref. No. & Date	P.O. NO. 7200004006/U102, DATED: 16/06	5/2022			
Duration Of Sampling	As per CPCB norms				
Sample Collected By	Laboratory Chemist				
Sampling Procedure	As Per Method Reference				
Sample Quantity/Packing	Filter Paper (PM ₁₀): 1X1 No., Filter Paper (F SO ₂ : 30mlX1 No. PVC Bottle, NO ₂ : 30mlX1				

Test Method for Ambient Air Quality Monitoring				
Parameter Method Reference				
Particulate Matter size less than 10 microns (PM10)	IS:5182: (Part-23):2006 & CPCB Guidelines VolI			
Particulate Matter size less than 2.5 microns (PM2.5)	IS:5182:(Part-24):2019 & CPCB Guidelines VolI			
Sulphur Dioxide (SO2)	IS:5182: (Part-2):2001, RA 2006 & CPCB Guidelines VolI			
Nitrogen Dioxide (NO2)	IS:5182: (Part-6):2006 & CPCB Guidelines VolI			

TEST REPORT						
		NAAQM	Results			
Parameter	arameter Unit	Standard	Near CHP Area	Beside Silo	Solar Panel Area	Near Main Gate
PM10	µg/m ³	100	74.8	70.8	68.8	60.4
PM2.5	µg/m ³	60	30.4	32.8	28.6	24.8
SO ₂	µg/m ³	80	12.8	8.6	14.4	10.8
NO ₂	µg/m ³	80	32.6	28.4	22.8	26.4
со	mg/m ³	4.0	0.34	0.19	0.33	0.28

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-End of the test report------



Name & Address of The Customer To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2,		Report No.	UES/TR/22-23/03098 UES/22-23/AAQM/08288-08291					
		Lab Ref No.						
		Date of Sampling 23/09/2022 to24/09/2022		9/2022				
		Date of Receipt 24/09/2022						
URLA INDUSTRIA	LAREA	Date of Report	29/09/2022					
RAIPUR (C. G.) 492003		Date of Analysis	Start:24/09/2022	End:29/09/2022				
Contraction of the American	SAMPI	LE DETAILS	State Barrier	Contra and the				
Monitoring For	Ambient Air Quality Monitoring							
Sampling Location	 Near CHP Area Beside Silo Solar Panel Area Near Main Gate 							
Customer Ref. No. & Date	P.O. NO. 7200004006/U102, DATED: 16/06/2022							
Duration Of Sampling	As per CPCB norms							
Sample Collected By	Laboratory Chemist							
Sampling Procedure	As Per Method Reference							
Sample Quantity/Packing	Filter Paper (PM ₁₀): 1X1 No., Filter Paper (PM ₂₅): 1X1 No. SO ₂ : 30mlX1 No. PVC Bottle, NO ₂ : 30mlX1 NO. PVC Bottle,							

Test Method for Ambient Air Quality Monitoring						
Parameter	Method Reference					
Particulate Matter size less than 10 microns (PM10)	IS:5182: (Part-23):2006 &CPCB Guidelines VolI					
Particulate Matter size less than 2.5 microns (PM _{2.5})	IS:5182:(Part-24):2019 &CPCB Guidelines VolI					
Sulphur Dioxide (SO ₂)	IS:5182: (Part-2):2001, RA 2006 &CPCB Guidelines VolI					
Nitrogen Dioxide (NO2)	IS:5182: (Part-6):2006 & CPCB Guidelines VolI					

TEST REPORT								
	Rug and the	NAAQM	Results					
Parameter	Unit	Standard	Near CHP Area	Beside Silo	Solar Panel Area	Near Main Gate		
PM10	µg/m ³	100	64.2	60.6	58.4	62.8		
PM2.5	$\mu g/m^3$	60	24.4	28.2	26.2	30.2		
SO ₂	µg/m ³	80	14.8	8.2	10.8	12.4		
NO ₂	µg/m ³	80	26.6	22.4	26.2	30.8		
со	mg/m ³	4.0	0.44	0.20	0.26	0.34		

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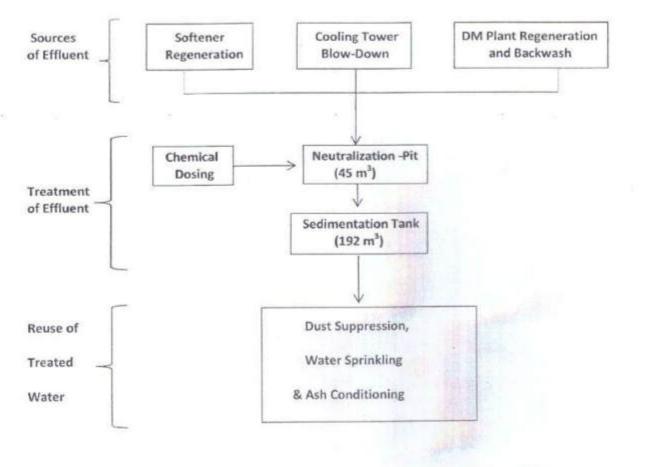


-----End of the test report-----

AN ISO : 9001:2015 / ISO: 14001:2015 / ISO 45001:2018 CERTIFIED LABORATORY

EFFLUENT TREATMENT SCHEME

No waste water is discharged outside factory premises. Waste water generated from Cooling Tower Blow-down, Softener Regeneration and Backwash & DM Water Regeneration and Backwash is taken to Neutralization-Pit (45 m³) where sample is taken and after Analysis chemical dosing is done along with air scouring and then after chemical dosing the water is sent to Sedimentation tank (192 m³) for settling of suspended particles, After sedimentation the treated water is used for Dust suppression, Water sprinkling on the road and Ash conditioning. Hence, Zero liquid discharge condition is maintained.







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Name & Address Of The Castomer To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		Report No Lab. Ref. No. Date of Sampling Date of Receipt Date of Report	UES/TR/22-23/0343 UES/22-23/W/0381-0382 16/04/2022 17/04/2022 22/04/2022	
		Date of Analysis SAMPLE DETAILS	Start:17/04/2022	End: 22/04/2022
			P.O. No. 11/HPSL U10	2/PO/21-22/88
Customer Sample ID	Siltration Tank Water	Customer Ref. No. & Date	Dated: 24.10.2021	
Sample Type	1. Inlet Water 2. Outlet Water	Sample Condition At Receipt	Ok	
Packing of Sample	Jerry Cane (3 ltr. *2) Glass bottle (1 ltr. *2)	Sample Collected By	Laboratory Chemist	
Other Details	Sealed	Quantity Received	Approx. 4 Ltr. each	

		TEST REPORT							
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMITS AS PER CONSENT	Inlet Water	Outlet Water			
1	pH Value at 25.2°C	-	IS:3025:(Part- 11): 1983, RA 2012	5.5 To 9.0	9.22	7.67			
2	Total Suspended Solid	mg/L	IS:3025:(Part- 17): 1984, RA 2012	100	68.0	12.6			
3	Chemical Oxygen Demand	mg/L	IS:3025:(Part- 58):2006, RA 2012	250	79.3	40.0			
4	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025:(Part- 44):1993 RA 2014	30	16.4	6.8			
5	Oil & Grease	mg/L	IS:3025:(Part- 39):1986	10	1.9	N.D.			

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Name & Address Of The Customer To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		Report No Lab. Ref. No. Date of Sampling Date of Receipt Date of Report Date of Analysis	UES/TR/22-23/0883 UES/22-23/W/01457-01458 10/05/2022 12/05/2022 17/05/2022	
	Sarah Market	SAMPLE DETAILS	Start:12/05/2022	End: 17/05/2022
Customer Sample ID	Siltration Tank Water	Customer Ref. No. & Date	P.O. No. 11/HPSL U10 Dated: 24.10.2021	2/PO/21-22/88,
Sample Type	1. Inlet Water 2. Outlet Water	Sample Condition At Receipt	Ok	
Packing of Sample	Jerry Cane (3 ltr. *2) Glass bottle (1 ltr. *2)	Sample Collected By	Laboratory Chemist	
Other Details	Sealed	Quantity Received	Approx. 4 Ltr. each	

		TEST REPORT						
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMITS AS PER CONSENT	Inlet Water	Outlet Wate		
1	pH Value at 25.2°C	HS.	IS:3025:(Part- 11): 1983, RA 2012	5.5 To 9.0	8.97	8.55		
2	Total Suspended Solid	mg/L	IS:3025:(Part- 17): 1984, RA 2012	100	48.0	18.0		
3	Chemical Oxygen Demand	mg/L	IS:3025:(Part- 58):2006, RA 2012	250	68.0	42.0		
4	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025:(Part- 44):1993 RA 2014	30	8.4	7.6		
5	Oil & Grease	mg/L	IS:3025:(Part- 39):1986	10	1.2	N.D.		

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Norma & Address Of The Gust	omer	Report No Lab. Ref. No.	UES/TR/22-23/01628 UES/22-23/W/02037-02038		
HIRA POWER AN	ID STEEL LTD.	Date of Sampling	04/06/2022		
KHASRA NO.: 51	1/1, 512/2,	Date of Receipt	06/06/2022 11/06/2022		
URLA INDUSTRI	AL AREA	Date of Report			
RAIPUR (C. G.) 492003		Date of Analysis	Start:06/06/2022	End: 11/06/2022	
APPENDED BY STATE	THE SECTION STRATES	SAMPLE DETAILS			
Customer Sample ID	Siltration Tank Water	Customer Ref. No. & Date	e P.O. No. 11/HPSL U102/PO/21-22/88, Dated: 24.10.2021		
Sample Type	1. Inlet Water 2. Outlet Water	Sample Condition At Receipt	Ok		
Packing of Sample	Jerry Cane (3 ltr. *2) Glass bottle (1 ltr. *2)	Sample Collected By	Laboratory Chemist		
Other Details	Sealed	Quantity Received	Approx. 4 Ltr. each		

			TEST REPOR	т		
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMITS AS PER CONSENT	Inlet Water	Outlet Water
1	pH Value at 25.2°C	-	IS:3025:(Part- 11): 1983, RA 2012	5.5 To 9.0	7.93	7.24
2	Total Suspended Solid	mg/L	IS:3025:(Part- 17): 1984, RA 2012	100	54.0	14.0
3	Chemical Oxygen Demand	mg/L	IS:3025:(Part- 58):2006, RA 2012	250	74.0	34.0
4	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025:(Part- 44):1993 RA 2014	30	6.8	3.4
5	Oil & Grease	mg/L	IS:3025:(Part- 39):1986	10	1.4	N.D.

Note : mg/lit.: milligram per liter. N.D.: Not Detected.

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-----End of the test report-----



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A party of Robbinson (C. Phys. Constantion)		Report No	UE5/TR/22-23/01557	
То,		Lab. Ref. No.	UE5/22-23/W/03293-03294	
HIRA POWER AN	ID STEEL LTD.	Dat∈ of Sampling	14/07/2022 to 15/07/2022	
KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		Date of Receipt	15/07/2022 22/07/2022	
		Date of Report		
		Date of Analysis	Start:15/07/2022 End: 22/07/2022	
	HIM BERTHE	SAMPLE DETAILS	and share southing	
Customer Sample ID	Siltration Tank Water	Customer Ref. No. & Date	P.D. NO. 7200004006/U102, DATED: 16/06/202	
Sample Type	1. Inlet Water 2. Outlet Water	Sample Condition At Receipt	Ok	
Packing of Sample	Jerry Cane (3 ltr. *2) Glass bottle (1 ltr. *2)	Sample Collected By	Laboratory Chemist	
Other Details	Sealed	Quantity Received	Approx. 4 Ltr. each	

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SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMITS AS PER CONSENT	Inlet Water	Outlet Water
1	pH Value at 25.2°C	- 14	15:3025:[Part- 11]: 1903, RA 2014	5.5 To 9.0	7.82	7.18
2	Total Suspended Solid	mg/1.	19:30/5:1Fart- 171:1904. RA 2012	100	68.0	20.0
3	Chemical Oxygen Demand	ng/1,	10:3025:(Part- 58):2056, AA 2012	250	86.0	24.0
4	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	18:3015:(Fact 44):1993 8A 2014	30	7.2	2.8
5	Cil & Grease	mg / L	18:3071:(Part- 39:11986	10	1.2	N.D.

Note . mg/lit., milligram per liter, N.D., Not Detected.

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End of the test report-



Name & Address Of The Customer To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		Report No Lab. Ref. No. Date of Sampling Date of Receipt Date of Report	b. Ref. No. UES/22-23/W/07033-07034 ate of Sampling 17/08/2022 ate of Receipt 18/08/2022 ate of Report 22/08/2022		
		SAMPLE DETAILS	Start:18/08/2022	End: 22/08/2022	
Customer Sample ID	Siltration Tank Water	Customer Ref. No. & Date	P.O. NO. 7200004006/U	102, DATED: 16/06/2022	
Sample Type	1. Inlet Water 2. Outlet Water	Sample Condition At Receipt	Ok		
Packing of Sample Jerry Cane (3 ltr. *2) Glass bottle (1 ltr. *2)		Sample Collected By	Laboratory Chemist		
Other Details	Sealed	Quantity Received	Approx. 4 Ltr. each		

		TEST REPORT						
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMITS AS PER CONSENT	Inlet Water	Outlet Water		
1	pH Value at 25.2°C	-	IS:3025:(Part- 11): 1983, RA 2012	5.5 To 9.0	7.64	7.34		
2	Total Suspended Solid	mg/L	IS:3025:(Part- 17): 1984, RA 2012	100	82.0	24.0		
3	Chemical Oxygen Demand	mg/L	IS:3025:(Part- 58):2006, RA 2012	250	74.0	34.0		
4	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025:(Part- 44):1993 RA 2014	30	8.4	3.6		
5	Oil & Grease	mg/L	IS:3025:(Part- 39):1986	10	1.4	N.D.		

Note : mg/lit.: milligram per liter. N.D.: Not Detected.

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-----End of the test report-----



Name & Address Of The Customer To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		Report No Lab. Ref. No. Date of Sampling Date of Receipt Date of Report Date of Analysis	UES/TR/22-23/03105 UES/22-23/W/08298 23/09/2022 24/09/2022 29/09/2022 Start:24/09/2022	
	atta	SAMPLE DETAILS		
Customer Sample ID	Siltration Tank Water	Customer Ref. No. & Date	P.O. NO. 7200004006/U1	102, DATED: 16/06/2022
Sample Type	1. Inlet Water 2.Outlet Water	Sample Condition At Receipt	Ok	
Packing of Sample	Jerry Cane (3 ltr. *2) Glass bottle (1 ltr. *2)	Sample Collected By	Laboratory Chemist	
Other Details	Sealed	Quantity Received	Approx. 4Ltr. each	

TEST REPORT							
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMITS AS PER CONSENT	Inlet Water	Outlet Water	
1	pH Value at 25.2°C	/-	IS:3025:(Part- 11): 1983, RA 2012	5.5 To 9.0	7.55	7.18	
2	Total Suspended Solid	mg/L	IS:3025:(Part- 17): 1984, RA 2012	100	62.0	22.0	
3	Chemical Oxygen Demand	mg/L	IS:3025:(Part- 58):2006, RA 2012	250	54.0	22.0	
4	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025:(Part- 44):1993 RA 2014	30	16.2	6.4	
5	Oil & Grease	mg/L	IS:3025:(Part- 39):1986	10	1.0	N.D.	

Note:mg/lit.: milligram per liter. N.D.: Not Detected.

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Name & Address Of The Customer To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		REPORT NO. LAB REF NO. DATE OF REPORT DATE OF SAMPLING	UES/TR/22-23/0349 UES/22-23/N/0388-0391 22/04/2022 16/04/2022
	SAM	IPLE DETAILS	CONTRACTOR DO LLOS
Monitoring For	Noise Level Monitorin	g	
Customer Ref. No. & Date	P.O. No. 11/HPSL U10	2/PO/21-22/88, Dated: 24.10.20	021
Sampling Location	1. Near CHP Are 2. Beside Silo 3. Solar Panel A 4. Near Main Ga	rea	
Sample Collected By	Laboratory Chemist		
Sampling Procedure	Manufacturer's Instru	ction	

TEST REPORT						
LOCATION	UNIT	RES	BULT	LIMIT (INDU	STRIAL ZONE)	
		DAY	NIGHT	DAY	NIGHT	
Near CHP Area	dB(A)	64.8	48.8		70 dB(A)	
Beside Silo	dB(A)	66.2	50.8	75 dB(A)		
Solar Panel Area	dB(A)	61.2	52.8			
Near Main Gate	dB(A)	64.2	56.5			

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Name & Address Of The Customer To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		REPORT NO. LAB REF NO. DATE OF REPORT DATE OF SAMPLING	UES/TR/22-23/0884 UES/22-23/N/01459-01462 17/05/2022 10/05/2022		
	SA	MPLE DETAILS			
Monitoring For	Noise Level Monitori	Noise Level Monitoring			
Customer Ref. No. & Date	P.O. No. 11/HPSL U1	02/PO/21-22/88, Dated: 24.10.20	021		
Sampling Location	Near CHP Art Beside Silo Solar Panel A Near Main G	ea			
Sample Collected By	Laboratory Chemist				
Sampling Procedure	Manufacturer's Instru	uction			

TEST REPORT						
LOCATION	UNIT	RES	SULT	LIMIT (INDU	STRIAL ZONE)	
		DAY	NIGHT	DAY	NIGHT	
Near CHP Area	dB(A)	68.2	46.6		70 dB(A)	
Beside Silo	dB(A)	62.9	52.4	75 dB(A)		
Solar Panel Area	dB(A)	60.1	54.2	70 GD(A)		
Near Main Gate	dB(A)	66.5	52.9			

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Name & Address Of The Clustomer To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		REPORT NO. LAB REF NO. DATE OF REPORT DATE OF SAMPLING	UES/TR/22-23/01629 UES/22-23/N/02039-02042 11/06/2022 05/06/2022		
	SAMPLE	DETAILS			
Monitoring For	Noise Level Monitoring	Noise Level Monitoring			
Customer Ref. No. & Date	P.O. No. 11/HPSL U102/PO	/21-22/88, Dated: 24.10.2	021		
Sampling Location	1. Near CHP Area 2. Beside Silo 3. Solar Panel Area 4. Near Main Gate				
Sample Collected By	Laboratory Chemist				
Sampling Procedure	Manufacturer's Instruction	3			

TEST REPORT						
LOCATION	UNIT	RES	BULT	LIMIT (INDU	STRIAL ZONE)	
Location		DAY	NIGHT	DAY	NIGHT	
Near CHP Area	dB(A)	68.6	54.6		70 dB(A)	
Beside Silo	dB(A)	62.2	58.8	75 dB(A)		
Solar Panel Area	dB(A)	64.8	50.2			
Near Main Gate	dB(A)	60.5	56.8	Z		

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-----End of the test report-----



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То,	81.00	117 N.O.	UES/TR/22-23/01558	
HIRA POWER AND ST	EEL LTD. INTE	LE NO.	UE5/72 23/N/03295 03298	
KHASRA NO.: 511/1, 5 URLA INDUSTRIAL AI	512/2,	OF REPORT	22/07/2022	
RAIPUR (C. G.) 49200		OF SAMPLING	14/07/2022 to 15/07/2022	
	SAMPLE DETAI	145		111
Monitoring For	Noise Level Monitoring			
Customer Ref. No. & Date	P.O. NO 7200004006/U107, DATED 16/	06/2022		
Sampling Location	1 Near CHP Area 2 Beside Silo 3 Solar Panel Area 4. Near Main Gate			
Sample Collected By	Laboratory Chemist			
Sampling Procedure	Manufacturer's Instruction			

	TEST	REPORT			
LOCATION	UNIT	RES		LIMIT (INDUSTRIAL ZON	
	UNIT	DAY	NIGHT	DAY	NIGHT
Near CHP Area	dB(A)	68.6	54.6		
Beside Silo	dB(A)	62.2	58.8	75 dB(A)	70 dB(A)
Solar Panel Area	dB(A)	64.8	50.2		
Near Main Gate	dB(A)	60.5	56.8		

REMARKS: RESULTS ARE AS ABOVE

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Name & Address of The Customer To, HIRA POWER AND ST KHASRA NO.: 511/1, S URLA INDUSTRIAL AI	512/2,	REPORT NO. LAB REF NO. DATE OF REPORT	UES/TR/22-23/02405 UES/22-23/N/07035-07038 22/08/2022
RAIPUR (C. G.) 49200	3	DATE OF SAMPLING	17/08/2022 to 18/08/2022
STAN AND STAN	SAMPLE	DETAILS	A DESCRIPTION OF THE OWNER OF THE OWNER OF
Monitoring For	NOISE LEVEL MONITORING		
Customer Ref. No. & Date	P.O. NO. 7200004006/U102, D/	ATED: 16/06/2022	
Sampling Location	 Near CHP Area Beside Silo Solar Panel Area Near Main Gate 		
Sample Collected By	Laboratory Chemist		
Sampling Procedure	Manufacturer's Instruction		

TEST REPORT										
LOCATION	UNIT	RES	ULT	LIMIT (INDUSTRIAL ZON						
LOCATION	UNIT	DAY	NIGHT	DAY	NIGHT					
Near CHP Area	dB(A)	64.4	52.5							
Beside Silo	dB(A)	60.8	56.9	75 dB(A)	70 dB(A)					
Solar Panel Area	dB(A)	68.2	54.4		/0 00(//)					
Near Main Gate	dB(A)	66.4	50.8							

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> Test sample will be retained for 15days after issue of test report unless otherwise agreed with customer.

> This is for information as the party has asked for above test(s) only.

	S ashGAR and	For ULTIMATE ENVIROLYTICAL SOLUTION
Bell	SA DINE	- M
2 2/03/22		22/08/22
REVIEWED BY	10 12 . 100 G	AUTHORIZED SIGNATORY

-----End of the test report-----

AN ISO : 9001:2015 / ISO: 14001:2015 / ISO 45001:2018 CERTIFIED LABORATORY



Name & Address of The Customer To, HIRA POWER AND ST KHASRA NO.: 511/1, 5 URLA INDUSTRIAL AI RAIPUR (C. G.) 49200	512/2, REA	REPORT NO. LAB REF NO. DATE OF REPORT DATE OF SAMPLING	UES/TR/22-23/03106 UES/22-23/N/08300-08303 29/09/2022 23/09/2022 to 24/09/2022
	SAM	PLE DETAILS	Constant of the second
Monitoring For	NOISE LEVEL MONITORIN	G	
Customer Ref. No. & Date	P.O. NO. 7200004006/U1	02, DATED: 16/06/2022	
Sampling Location	1. Near CHP Area 2. Beside Silo 3. Solar Panel Are 4. Near Main Gat	ea	
Sample Collected By	Laboratory Chemist		
Sampling Procedure	Manufacturer's Instruc	tion	

TEST REPORT									
LOCATION	UNIT	RES	ULT	LIMIT (INDU	STRIAL ZONE)				
Location	UNIT	DAY	NIGHT	DAY	NIGHT				
Near CHP Area	dB(A)	60.2	50.2						
Beside Silo	dB(A)	62.6	54.4	75 dB(A)	70 dB(A)				
Solar Panel Area	dB(A)	68.4	52.8		, o ub(n)				
Near Main Gate	dB(A)	58.6	56.2						

REMARKS: RESULTS ARE AS ABOVE

- Terms & conditions
- > The use of the report for publication, arbitration or as legal dispute is forbidden.
- > Test sample will be retained for 15days after issue of test report unless otherwise agreed with customer.
- > This is for information as the party has asked for above test(s) only.



-----End of the test report-----

AN ISO : 9001:2015 / ISO: 14001:2015 / ISO 45001:2018 CERTIFIED LABORATORY

2022

×



Welcome:- Date:- 06/05/2022



Record For Year

If You have already entered the below form then click on add Worker Button given in List

FactoryName	MedicalOfficers	EntryDate	UAN_NO	ISCFTPP	ISCFTPP		
HIRA POWER & STEEL LTD. UNIT-II (FERRO ALLOYS DIVISION)	Dr.Pavan Kumar Gautam	14/03/2022	11402928270352	FORM-21	0	ADD_WORKER	<u>Edit</u> <u>Details</u>

View Workers Details

FactoryName	MedicalOfficers	Qualification	ContactNo	EntryDate	UAN_NO	Workers	EnteredWorkers	ISCFTPP	ForYear	
HIRA POWER & STEEL LTD. UNIT-II (FERRO ALLOYS DIVISION)				19/04/2017	11402928270352	250	384	FORM-21	2017	View Worker List
HIRA POWER & STEEL LTD. UNIT-II (FERRO ALLOYS DIVISION)	Dr.Pavan Kumar Gautam	M.B.B.S., MD(MEDICINE)	9685691056	14/03/2022	11402928270352	550	605	FORM-21	2022	View Worker List
HIRA POWER & STEEL LTD. UNIT-II (FERRO ALLOYS DIVISION)	Dr.Pavan Kumar Gautam	MBBS MD Medicine	0771408252	13/07/2018	11402928270352	500	376	FORM-21	2018	View Worker List
HIRA POWER & STEEL LTD. UNIT-II (FERRO ALLOYS DIVISION)	Dr.Pawan S.Gautam	MBBS MD Medicine	07714082525	17/05/2019	11402928270352	500	415	FORM-21	2019	View Worker List
HIRA POWER & STEEL LTD. UNIT-II (FERRO ALLOYS DIVISION)	Mr. Pavan Kuamr Gautam	MBBS, MD (MEDICINE)	9685691056	04/06/2020	11402928270352	500	390	FORM-21	2020	View Worker List
HIRA POWER & STEEL LTD. UNIT-II (FERRO ALLOYS DIVISION)	Dr.Pavan Kumar Gautam	MBBS, MD (MEDICINE)	9685691056	14/06/2021	11402928270352	550	606	FORM-21	2021	View Worker List

Remarks :

FormYear	FormType	CheckedBy	Status	Remark	RemarkDate
2019	FORM-21	Dr.PRATEEK KHARE	VIOLATION OF FACTORY ACT	1)AS PER THE ENTRIES MADE IN THE PORTAL, IN TYPE OF EXAMINATION, IN DATE OF EMPLOYMENT AND DATE OF EXAMINATION IT IS CLEAR THAT false entries has been done or PRE EMPLOYMENT AND PERIODIC MEDICAL EXAMINATION IS NOT DONE IN TIME WHICH IS VIOLATION OF RULE 41C AND 131 OF FACTORIES ACT. (2)all the test reports not uploaded like usg etc.(3)TEST AS PER RULE 107 SCHEDULE 20 NOT DONE.(4)GIVE A COPY OF MEDICAL REPORTS TO ALL THE WORKERS.WORKERS HAVING POSITIVE FINDINGS SHOULD BE REGULARLY FOLLOW UP BY THE FACTORY MEDICAL OFFICER AND CARE SHOULD BE TAKEN THAT THEY SHOULD NOT BE EMPLOYED IN THOSE AREA WHERE THERE DISEASE GET AGGRAVATED.	29/07/2019
2017	FORM-21	Dr.PRATEEK KHARE	ACCORDING TO	REPEAT AUDIOMETRY TEST BECAUSE ACCORDING TO FACTORIES ACT AUDIOMETRY HAS TO BE DONE FROM 125 TO 8000 FREQUENCY BUT THE TEST HAS BEEN DONE FROM 500 TO 6000 FREQUENCY HENCE IT CANNOT BE ACCEPTED.ALSO FACTORIES COME UNDER rule 107 of C.G. factories rules 1962 IT IS A FERRO ALLOYS PLANT WHICH USES MANGANESE. HENCE TEST OF MANGANESE ACCORDING TO SCHEDULE 20 OF RULE 107 HAS NOT BEEN DONE TEST BECAUSE ACCORDING TO FACTORIES ACT AUDIOMETRY HAS TO BE DONE FROM 125 TO 8000 FREQUENCY BUT THE TEST HAS BEEN DONE FROM 500 TO 6000 FREQUENCY HENCE IT CANNOT BE ACCEPTED. ALSO FACTORIES COME UNDER rule 107 of C.G. factories rules 1962 IT IS A FERRO ALLOY PLANT WHICH USES MANGANESE. HENCE TEST OF MANGANESE	15/11/2017

	1																
				ACCORDING TO SHEDULE20 OF RULE 107 HAS NOT BEEN DONE.ONLY BLOOD MANGANESE													
				LEVEL OF 86 WORKERS DONE REST OF TEST OF SCHEDULE NOT DONE AND MENTIONED.													
				1)COVID-19- SCREENING OF WORKERS SHOULD BE DONE AS PER GOVERNMENT GUIDELINE													
				FOR COVID 19 BEFORE APPOINTING WORK AND REGULAR FOLLOW UP SHOULD ALSO BE													
				DONE. PLEASE TAKE ALL PERSONAL PROTECTION PRECAUTION IN FACTORY LIKE HAND													
					WASHING, SOCIAL DISTANCING, FACE MASK AND WORK RELATED PPES. People with COVID-19												
				have had a wide range of symptoms reported – ranging from mild symptoms to severe illness.													
				Symptoms may appear 2-14 days after exposure to the virus. People with these symptoms or													
		Dr.PRATEEK KHARE		combinations of symptoms may have COVID-19: • Cough • Shortness of breath or difficulty													
					breathing Or at least two of these symptoms: • Fever • Chills • Repeated shaking with chills •												
2020	FORM-21			Muscle pain • Headache • Sore throat • New loss of taste or smell, COUNSEL AND AWARE	04/12/2020												
				WORKERS ABOUT COVID 19.IF ANY SUSPECTED CASE COME TO YOUR NOTICE IMMEDIATELY													
										INFORM TO AUTHORITY.(2)GIVE A COPY OF MEDICAL REPORTS TO ALL THE							
															WORKERS.WORKERS HAVING POSITIVE FINDINGS SHOULD BE REGULARLY FOLLOW UP BY		
					EMPLOYED IN THOSE AREA WHERE THERE DISEASE GET AGGRAVATED.(3)AS PER FORM 4"												
									Number of workers to be ordinarily employed in the factory : 500" BUT MEDICAL REPORTS OF								
						ONLY 139 WORKERS UPLOADED HENCE INCOMPLETE.(4)test are not done as per cg factories											
				rule 1962 rule107 prescribed under section 87 of factories act 1948													
				AS PER THE ENTRIES MADE IN THE PORTAL , IN TYPE OF EXAMINATION, IN DATE OF													
			VIOLATION	EMPLOYMENT AND DATE OF EXAMINATION IT IS CLEAR THAT PRE EMPLOYMENT AND													
			OF RULE 41C	PERIODIC MEDICAL EXAMINATION IS NOT DONE IN TIME WHICH IS VIOLATION OF RULE 41C													
2018	FORM-21	Dr.PRATEEK	AND 131 OF	AND 131 OF FACTORIES ACT . AS PER THE SECTION 41C OF FACTORIES ACT1948 IT IS THE	27/12/2018												
		KHARE	FACTORIES	RESPONSIBILITY OF FACTORY OCCUPIER TO MAINTAIN ACCURATE AND UP TO DATE HEALTH													
			ACT	RECORDS & PROVIDE FOR MEDICAL EXAMINATION OF EVERY WORKER BEFORE													
				EMPLOYMENT AND IN PERIODIC INTERVAL NOT EXCEEDING TWELVE MONTH.													

Annex.-IV



Ref: 2033/HPSL/U2/CPP/22-23/2033

Dated-31.05.2022

To, The Scientist, Ministry of Environment, Forest & Climate Change, Integrated Regional Office, Aranya Bhawan, North Block, Sector-19, Naya Raipur, Atal Nagar, Chhattisgarh - 492002

Sub: Submission of Half Yearly Environment Clearance Compliance Report of the conditions stipulated in Environmental clearance for the period of October 2021 to March 2022

Ref: Environmental Clearance F.No. J-11011/836/2008/IA.II(I) Dated 11.02.2009

Respected Sir,

With reference to above subject, we are enclosing herewith Half Yearly Environment Clearance Compliance Report of the conditions stipulated in Environmental clearance accorded by MOEF vide F.No.J-11011/836/2008/IA.II(I) Dated 11.02.2009 for the period of October 2021 to March 2022 in respect of Hira Power and Steels Ltd. Unit-II (Ferro Division), Urla Industrial Complex, Raipur (C.G.)

We hope you will find the above Half Yearly Environment Clearance Compliance Report upto your satisfaction. Your valuable guidance further in this regard shall be highly appreciated.

Kindly acknowledge the receipt of the same.

Yours faithfully,

For, HIRA POWER AND STEELS LIMITED, UNIT- II (Ferro Division)

Authorized Signatory

Encl: As Above

Hira Power & Steels Limited

An ISO 9001:2015 certified company CIN : U24117CT1984PLC002512

Registered Office & Works : Khasra No. 511/1, 512/2, Urla Industrial Complex, Raipur - 492003, Chhattisgarh, India P : +91 771 4082500, 4082600, F : +91 771 4082501, E : admin@hpslindia.com



Copy to:

- The Director, Zonal Office, Central Pollution Control Board, 4th Floor, Sahkar Bhawan, North TT Nagar, Bhopal-462003.
- The Member Secretary, Chhattisgarh Environment Conservation Board, Paryavas Bhawan, North Block, Sector-19, Atal Nagar, Raipur (CG) – 492 002.
- The Regional Officer, Regional Office, Chhattisgarh Environment Conservation Board Commercial Complex Chhattisgarh Housing Board Colony, Kabir Nagar, Raipur (CG) – 492 001.

Hira Power & Steels Limited

An ISO 9001:2015 certified company CIN : U24117CT1984PLC002512

 P: +91 771 4082500, 4082600, F: +91 771 4082501, E: admin@hpslindia.com

www.hpslindia.com, www.hiragroupindia.com



HALF YEARLY COMPLIANCE REPORT OF THE CONDITIONS STIPULATED IN

ENVIRONMENTAL CLEARANCE

FOR

THE PERIOD OF OCTOBER 2021 – MARCH 2022

HIRA POWER & STEELS LTD. UNIT-II (FERRO DIVISION) Urla Industrial Complex, Raipur (C.G.) 492003



HIRA POWER & STEELS

Project

Hira Power and Steels Limited Urla Industrial Complex, Raipur, Chhattisgarh-492 003

Compliance report of the conditions stipulated in Environmental Clearance Half Yearly Compliance report for the period of October 2021 – March 2022

Environmental Clearance

Compliance status report of the conditions stipulated in Environmental Clearance accorded by MoEF vide letter F.No. J-11011/836/2008-IA II (I) Dated: 11th February 2019 for expansion of Ferro alloys plant [Unit- II, Si-Mn (9,000 TPA)/Fe-Mn (9,000 TPA)] total manufacturing capacity 18,000 MTPA at Khasra No. 513/1, 513/2, 513/3, 513/4, Urla Industrial Complex, Raipur, Chhattisgarh.

Sr. No.	A. Specific Conditions	C	Compliance Status			
		Continuous emission monitoring facility have bee installed to the common stack of 3.0 & 3.6 MV/ submerged arc furnaces, stack attached to 6. MVA submerged arc furnace and to the common stack of 12MT/Heat CLU converter & Thermin plant.				
i.	Continuous monitoring for all the stacks and sufficient air pollution control equipments viz. fume extraction system with bag filters, ID fan and stack of adequate height to submerged arc furnace and electrostatic precipitator to captive power plant shall be provided to control emissions below 50 mg/NM ³ as proposed.	Particulars	 3.0 MVA submerged arc furnaces, 3.6 MVA submerged arc furnaces, 6.0 MVA submerged arc furnace, 12MT/Heat CLU converter, 600 MTPA Thermic Plant 			
		Pollution control Equipments	Offline pulse jet bag filter			
		Air pollution control equipments are designed to achieve the given norms. Emission from all stacks is well within prescribed limit. Monthly monitoring report is being submitted regularly to CECB.				
ii.	In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fume and dust extraction system with bag filters shall be provided at the material transfer and discharge points to control fugitive emissions. Further, specific measures like water sprinkling around the coal stockpiles and asphalting or concreting of the roads shall be done to control to reduce the dust generation and fugitive emissions during handling.	All the plant control measures have been take reduce fugitive emission. Please refer Annexure-1 for Photographs and Annexure-2 Fugitive Emission Report.				



HIRA POWER & STEELS

Project

Hira Power and Steels Limited Urla Industrial Complex, Raipur, Chnattisgarh-492 003

	Compliance report of the conditions s				SION REPOR	т	
		Sr. No.	Area	Un it	Parameter	Limit (MoEF & CC Notific ation)	
		1	A&B Furnace	µg/ m³	1558	2000	
		2	C&D Furnace	µg/ m³	1428	2000	
		3	CLU Converte r	µg/ m³	1540	2000	
9		4	Raw Material Yard	µg/ m³	1430	2000	
		5	CHP Area	µg/ m³	1495	2000	
Ħ.	Secondary fugitive emission from all the sources shall be controlled within the latest permissible limits issued by the Ministry and Regularly monitored Guidelines/code of practice issued by the CPCB shall be followed.	Is being	complied w	ith.			
v.	Total requirement of the water from Chhattisgarh Ispat Bhumi Ltd. shall not exceed 30m ³ /day. All the cooling tower blow down and treated effluent shall be recycled/reused in the process, dust suppression and green belt development. Domestic waste water shall be treated in septic tank followed by soak pit and used in green belt development. No waste water shall be discharged outside the factor premises and zero discharge shall be adopted.	Agreed / is being complied with. "Zero" discharge has been adopted. No waste water is being discharged outside the factory					
v.	Prior permission for the drawl of 30m ³ /day water from Chhattisgarh Ispat Bhumi Ltd. shall be obtained from the concerned department.	100 KL/ (CGWA) KL/Day	Day from C which is At water from ment Corpo	entral tached Chhat	bermission for Groundwater as Annexure tisgarh State Limited, Atta	Authority a-3 & 500 Industrial	



HIRA POWER & STEELS

Project

Hira Power and Steels Limited Urla Industrial Complex, Raipur, Chhattisgarh-492 003

_	Compliance report of the conditions stir	oulated in Envir	onmental Cleara	nce	
		Is being com	plied with.	100	
		Annexure 5.	hown that ge		
	All the Ferro Alloys slag shall be used for land	 Fe-Mn slag production Si-Mn slag land filling. Used/spen of copper lubrication. In case of 	g is used as ra or sold to SiMn is used as agg t oil is being u pad, heating	manufa regate fo sed in n ladle a	cturers. or civil wor nanufactur & machin il will be s
	filling inside the plant or used as building material only after passing through Toxic Chemical		TCLP REPO		
	Leachability Potential (TCLP) test. Otherwise, hazardous substance shall be recovered from the	Sample.	Parameter	Limit	Result
	slag and the output waste and the disposed in secured landfill as per CPCB guidelines. All the granulated slag shall be provided to cement / brick manufacturers for bricks. No granulated slag shall		Iron as Fe	4	70.6
s M			Manganese as Mn	10.0	5.9
			Zinc as Zn	250	48.2
	be used for road construction and filling low lying	1	Lead as Pb	5.0	1.4
	areas. ETP sludge after drying shall be used as fertilizer for green belt development. Used oil shall	Fe-Mn	Lead as Pb 5.0 Cadmium as Cd 1.0		0.86
	be sold to recyclers / re-processors.	Slag	Chromium as Cr	5.0	2.2
			Arsenic as AS	5.0	N.D.
			Mercury as Hg	0.2	N.D.
		Sample.	Parameter	Limit	Result
			Iron as Fe	-	85.4
			Manganese as Mn	10.0	6.8
		Thermite	Zinc as Zn	250	32.7
		Slag	Lead as Pb	5.0	3.8
		ong	Cadmium as Cd	1.0	0.6
			Chromium as Cr	5.0	4.2





HIRA POWER & STEELS

Project : Hira Power and Steels Limited Urla Industrial Complex, Raipur, Chhattisgarh-492 003

Compliance report of the conditions stipulated in Environmental Clearance

		Arsenic as AS	5.0	N.D.
		Mercury as Hg	0.2	N.D.
	Sample.	Parameter	Limit	Result
		Iron as Fe		75.0
		Manganese as Mn	10.0	7.4
	MOx	Zinc as Zn	250	85.1
		Lead as Pb	5.0	2.3
	Dust	Cadmium as Cd	1.0	0.8
	_	Chromium as Cr	5.0	4.6
		Arsenic as AS	5.0	N.D,
5	1	Mercury as Hg	0.2	N.D.
	Sample.	Parameter	Limit	Result
		Iron as Fe	-	28.4
		Manganese as Mn	10.0	6.2
	322	Zinc as Zn	250	124.4
	Bag	Lead as Pb	5.0	3.2
	Filter Dust	Cadmium as Cd	1.0	0.89
	Dust	Chromium as Cr	5.0	2.7
		Arsenic as AS	5.0	N.D.
		Mercury as Hg	0.2	N.D.
Samp	Sample.	Parameter	Limit	Result
		Iron as Fe	-	16.4
	AOD Slag	Manganese as Mn	10.0	8.4
		Zinc as Zn	250	58.7





HIRA POWER & STEELS

Project : Hira Power and Steels Limited Urla Industrial Complex, Raipur, Chhattisgarh-492 003

Compliance report of the conditions stipulated in Environmental Clearance

	Compliance report of the conditions still		and the state of t		
			Lead as Pb	5.0	4.2
			Cadmium as Cd	1.0	0.54
			Chromium as Cr	5.0	3.5
			Arsenic as AS	5.0	N.D.
			Mercury as Hg	0.2	N.D.
		Sample.	Parameter	Limit	Result
			Iron as Fe	2	55.9
			Manganese as Mn		4.7
			Zinc as Zn	250	86.1
			Lead as Pb	5.0	4.8
(c) 2	Fly Ash	Cadmium as Cd	1.0	0.84	
			Chromium as Cr	5.0	3.4
			Arsenic as AS	5.0	N.D.
			Mercury as Hg	0.2	N.D.
vii.	Slag produced in Ferro Manganese (Fe-Mn) production shall be used in manufacture Silico Manganese (Si-Mn)	Is being compl	ied with.		
viii.	Proper handling, storage, utilization and disposal of all the solid waste shall be ensured and regular report regarding toxic metal content in the waste material and its composition, end use of solid/hazardous waste should be submitted to the Ministry's Regional Office at Bhopal, CECB and CPCB.	Solid waste ut the Ministry's and CPCB and	ilization report i Regional Offic d it is attached a	e at Na as Anne:	gpur, CEC xure-6 .
ix.	As proposed Green belt shall be developed in at least 34% within and around the plant premises as per the CPCB guidelines in consultation with DFO.	premises and plantation is outside planta	s been develo d Total of m being develo tion. Certified s n Belt is Attache	ore that ped in urvey re	an 40% o cluding th port by thir



HIRA POWER & STEELS

Project : Hira Power and Steels Limited Urla Industrial Complex, Raipur, Chhattisgarh-492 003

Compliance report of the conditions stipulated in Environmental Clearance

x.	All the recommendations made in the charter on Corporate Responsibility for Environment Protection (CREP) for the Ferro Alloys units shall be strictly implemented.	Complied.
xi.	The company shall provide housing for construction labor 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 projects.	Complied.
Sr. No.	A. General Conditions	Compliance Status
i.	The project authorities must strictly adhere to the stipulations made by the Chhattisgarh Environment Conservation Board (CECB) and the State Government.	Agreed & noted for compliance.
ii.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	Agreed & noted for compliance.
III.	The gaseous emission from the various process units shall conform to the load/mass based standards notified by the Ministry on 19 th May, 1993 and standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time, the emission level shall go beyond the prescribed standards; interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limits.	Complied.

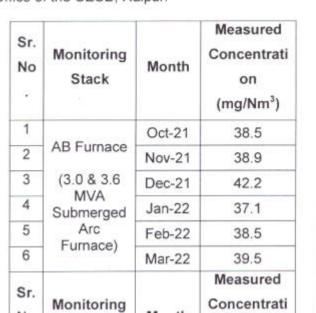




HIRA POWER & STEELS

Project Hira Power and Steels Limited Urla Industrial Complex, Raipur, Chhattisgarh-492 003

	Compliance report of the conditions sti	Continuinstalle subme to 2 x attache to the conver Adequa provide permis submitt	uous emission r rged arc furnac 5.5 MVA sub ed to 6.0 MVA e common st ter & Thermic p ate air pollution ed to keep the sible limits and	monitoring on stack es, comm merged a submerge ack of lant. control s emission monitorir the Regio	facility have been of 3.0 & 3.6 MV ion stack attached arc furnace, stack d arc furnace and 12MT/Head CL system have been a level well withing report is bein nal Office & Head
	Continuous stack monitoring facilities for all the	Sr. No	Monitoring	Month	Measured Concentrati on (mg/Nm ³)
	major stacks and adequate air pollution control system shall be provided to keep emission levels	1		Oct-21	38.5
iv.	below within permissible limits and reports	2	AB Furnace	Nov-21	38.9
	submitted to the Ministry's Regional Office at Bhopal and CECB/CPCB once in a six month.	3	(3.0 & 3.6	Dec-21	42.2
	8	4	MVA Submerged	Jan-22	37.1
		5	Arc	Feb-22	38.5
		6	- Furnace)	Mar-22	39.5
	Sr. No	Monitoring Stack	Month	Measured Concentrati on (mg/Nm ³)	
		1	CEURADAS	Oct-21	35.9
		2	C Furnace	Nov-21	39.5
		3	(5.5 MVA Submerged	Dec-21	38.7
		4	Arc	Jan-22	36.9
		5	Furnace)	Feb-22	37.4





HIRA POWER & STEELS

Project Hira Power and Steels Limited Urla Industrial Complex, Raipur, Chhattisgarh-492 003

Compliance report of the conditions stipulated in Environmental Clearance

Compliance report of the conditions s	6			07.0
	Q		Mar-22	
	Sr. No	Monitoring Stack	Month	Measured Concentrati on (mg/Nm ³)
	1		Oct-21	38.6
	2	D Furnace	Nov-21	37.8
	3	(5.5 MVA	Dec-21	36.5
	4	Submerged Arc	Jan-22	38.9
	5	Furnace)	Feb-22	36.5
	6		Mar-22	35.9
	Sr. No	Monitorin g Stack	Month	Measured Concentratio n (mg/Nm ³)
	1		Oct-21	38.6
	2	E Furnace	Nov- 21	39.4
	3	(6.0 MVA Submerge	Dec- 21	38.8
	4	d Arc Furnace)	Jan-22	39.5
	5		Feb- 22	38.5
	6		Mar- 22	38.4
	Sr. No	Monitorin g Stack	Month	Measured Concentratio n



HIRA POWER & STEELS

Project

Hira Power and Steels Limited Urla Industrial Complex, Raipur, Chhattisgarh-492 003

Compliance report of the conditions stipulated in Environmental Clearance

	Compliance report of the conditions st					(mg/N	m ³)
		1	2	Oct-21	29.5	5	
		2			Nov- 21	28.5	5
		3	CLU Conve		Dec- 21	29.9	Э
		4	(12	2	Jan-22	28.5	5
		5	MT/He	eat)	Feb- 22	28.4	4
		6			Mar- 22	28.6	6
		Sr. No	Monito		Month	Measu Concent n (mg/N	tratio
	2/ B	1			Oct-21	42.8	3
		2		Captive Dec Power 21	Nov- 21	38.6	5
		3	10.00 (March 10.00)		Dec- 21	46.4	ł
		4	Plant	************************************	Jan-22	45.8	3
		5	MW)	Feb- 22	45.5	5
		6			Mar- 22	45.9)
v.	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of SPM, SO ² , and NO _x are anticipated in consultation with CECB. Data on ambient air quality and stack emission should be regularly submitted to this Minister including its Regional	Data o being s the Min Annex above data) r	submitted histry and ure-8 (St	t air qu regula CECB tack e	uality and rly to the CPCB. mission ire-9 (Ar	d stack en Regional Please re data) m mbient ai	Office of fer to the nentioned r quality
	submitted to this Ministry including its Regional Office at Bhopal and the CECB/CPCB once in six month.	Sr. No	Month	PM ₁₀ (µg/n	PM ₂	5 SO2	NO _x (µg/ m ³)



HIRA POWER & STEELS

Project Hira Power and Steels Limited Urla Industrial Complex, Raipur, Chhattisgarh-492 003

Compliance report of the conditions st					4	
	2	Nov-21	86.8	45.5	19.7	29.5
	3	Dec-21	79.5	33.5	17.4	29.2
		Jan-22	82.2	44.2	17.8	27.9
		Feb-22	78.5	35.5	14.4	26.6
		Mar-22	77.5	40.1	15.7	25.6
				Beside		
		Month	PM10	PM _{2.5}	SO ₂	NOx
	4Ja5Fe6MaSr.Ma1Oa2No3De4Jai5Fe6MaSr.MaSr.Ma1Oa2No3De1Oa2No3De4Jai	montai	(µg/m ³)	(µg/m ³)	(µg/ m ³)	(µg/ m ³)
		Oct-21	80.5	39.8	12.6	26.8
		Nov-21	75.2	41.1	12.5	30.8
		Dec-21	75.2	39.5	14.5	26.5
		Jan-22	80.5	41.5	16.9	26.8
	5	Feb-22	80.1	39.8	15.8	27.6
	6	Mar-22	80.5	42.2	16.2	26.9
	C-		S	iolar Par	and the provide the second sec	
	No	Month	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/ m ³)	NO _x (µg/ m ³)
	1	Oct-21	85.25	44.90	17.4 5	28.96
	2	Nov-21	79.5	43.5	17.9	23.6
	3	Dec-21	70.5	34.4	15.3	23.8
	4	Jan-22	76.6	39.5	15.8	25.5
	5	Feb-22	75.2	40.4	14.2	28.0
	6	Mar-22	74.4	39.0	14.9	25.4
				Main (
	Sr. No	Month	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m	SO ₂ (µg/ m ³)	NO _x (µg/ m ³)
	1	Oct-21	79.86	39.87	14.5 6	28.25
	1				~ ~	
	2	Nov-21	70.4	39.8	13.8	24.8



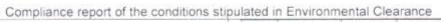
IR/

HIRA POWER & STEELS

Project LT. anle Limitae

Urla Industrial Complex, Raipur, Chhattisgarh-492 003
una muusulai complex, reaput, comattisgam-452 000

	Compliance report of the conditions stip	unate	a in chylioni	remai	ciearance	·	
		4	4 Jan-22	70.	1 37.	4 16.5	26.6
		5	5 Feb-22	68.	7 32.	5 15.5	27.1
		E	6 Mar-22	70.	1 36.	8 15.8	26.8
		Efflu	eing complie uent Treatm nexure-10. T is utilized	nent The tr	Scheme eated wa	ater from	
		Spri Ana	Ilysis Report	Ash is atta	Conditio iched as	ning. V Annexu	Vastewa re-11.
	21 B)	S N o	Location	Un it	Limit	Inlet Water	Outlet Water
		1	pН	-	5.5 to 9.0	7.25	7.75
treated	rial waste water shall be properly collected d so as to conform to the standards ibed under GSR 422 (E) dated 19 th May,	2	TSS	mg /L	100	145.0	23.0
1993 and	d 31 st December 1993 or as amended from time. The treated waste water shall be	3	COD	mg /L	250	138.0	32.0
10.0164.0244383	d for plantation purpose.	4	BOD	mg /L	30	28.1	8.6
		5	Oil & Grease	mg /L	10	1.7	N.D.
		E	ffluent Ana	ysis I	Report (M	Novembe	er 2021)
		S . N 0	Paramete r	Un it	Limit	Inlet Water	Outlet Water
		1	pН	2	5.5 to 9.0	7.10	7.78
		2	TSS	mg /L	100	162.0	22.0
		3	COD	mg /L	250	153.0	34.0





HIRA POWER & STEELS

Comp	liance report of t	e conditions stipula	ter	t in Environm	ental (learance		
oomp	insince report of th		4	BOD	mg /L	30	27.8	7.40
		Ę	5	Oil & Grease	mg /L	10	1.9	N.D.
			Ef	ffluent Anal	ysis F	Report (I	Decembe	er 2021)
		i	S N	Paramete r	Un it	Limit	Inlet Water	Outlet Water
		1	1	pН	-	5.5 to 9.0	7.19	7.85
		2	2	TSS	mg /L	100	165	25.5
		3	3	COD	mg /L	250	168	29.8
		4	4	BOD	mg /L	30	29.4	8.4
		5	5	Oil & Grease	mg /L	10	1.5	N.D.
			E	ffluent Ana	lysis	Report (January	2022)
		S	N	Paramete r	Un it	Limit	Inlet Water	Outlet Water
		1	1	pН	-	5.5 to 9.0	7.05	7.95
		2	2	TSS	mg /L	100	165	28.0
		3	3	COD	mg /L	250	132	36
		4	1	BOD	mg /L	30	26.6	7.1



HIRA POWER & STEELS

Project

Hira Power and Steels Limited Urla Industrial Complex, Raipur, Chhattisgarh-492 003

Compliance report of the conditions stipulated in Environmental Clearance

			Effluent Ana	alysis	Report	Februar	y 2022)	
		S .N o	Paramete r	Un it	Limit	Inlet Water	Outlet Water	
		1	pН	-	5.5 to 9.0	7.09	7.80	
		2	TSS	mg /L	100	160	18.0	
		3	COD	mg /L	250	152.0	26.0	
		4	BOD	mg /L	30	26.2	6.3	
		5	Oil & Grease	mg /L	10	1.5	N.D.	
	1. 1.50 at	Effluent Analysis Report (March 2022)						
		S N o	Paramete r	Un it	Limit	Inlet Water	Outlet Water	
		1	pН	4	5.5 to 9.0	7.10	7.88	
		2	TSS	mg /L	100	163	21	
		3	COD	mg /L	250	138	25	
		4	BOD	mg /L	30	27	8.3	
		5	Oil & Grease	mg /L	10	1.6	N.D.	
vii.	The overall noise levels in and around the plant area shall be kept well within the standards (85dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (Night time).		eing complied se refer An ort.			Noise I	Monitorin	



HIRA POWER & STEELS

Project

Hira Power and Steels Limited Urla Industrial Complex, Raipur, Chhattisgarh-492 003

Compliance report of the conditions stipulated in Environmental Clearance

		Noise Monito	Contractor Contractor			tober 2	021		
	S.			Limit		Result			
	N	Location	Un it	D A Y	NIG HT	DAY	NIG HT		
	1	Near CHP Area	Db (A)		75 70	71.5	67.8		
	2	Beside Silo	Db (A)			70.4	62.5		
	3	Solar Panel Area	Db (A)	75		69.8	58.5		
	4	Main Gate	Db (A)			65.1	56.5		
5	No	oise Monitor	ing Re	eport	ort - November 2021				
	S.			Limit		Result			
	N O	Location	Un it	D A Y	NIG HT	DAY	NIG HT		
	1	Near CHP Area	Db (A)					72.2	68.5
	2	Beside Silo	Db (A)		75 70	70.4	64.1		
	3	Solar Panel Area	Db (A)	75		68.5	63.2		
	4	Main Gate	Db (A)			62.5	55.5		
	No	oise Monitori	ing Re	port	- Dece	ember	2021		
	S.			Li	mit	Result			
	N O	Location	Un it	D A Y	NIG HT	DAY	NIG HT		



HIRA POWER & STEELS

Project

Hira Power and Steels Limited Urla Industrial Complex, Raipur, Chhattisgarh-492 003

Compliance report of the conditions stipulated in Environmental Clearance

Compliance report of the conditions s	upulateu	IN CHANGE	inter on	- car car i	00			
	1	Near CHP Area	Db (A)			72.2	65.5	
	2	Beside Silo	Db (A)			70.2	63.4	
	3	Solar Panel Area	Db (A)	75	70	69.8	61.2	
	4	Main Gate	Db (A)			62.5	54.8	
	N	loise Monito	ring R	lepoi	rt - Jar	uary 2	022	
	S.		Um		mit	t Result		
	N O	Location	Un it	D A Y	NIG HT	DAY	NIG HT	
	1	Near CHP Area	Db (A)			72.9	65.5	
	2	Beside Silo	Db (A)		75 70	71.2	62.2	
	3	Solar Panel Area	Db (A)	75		69.2	60.8	
	4	Main Gate	Db (A)			65.5	52.2	
	N	oise Monitor	ring R	epor	t - Feb	oruary 2	2022	
	S.			Li	mit	Result		
	N O	Location	Un it	D A Y	NIG HT	DAY	NIG HT	
	1	Near CHP Area	Db (A)			71.5	65.5	
	2	Beside Silo	Db (A)	75 70			70.0	61.2
	3	Solar Panel Area	Db (A)		70	68.8	59.8	
			Db					



HIRA POWER & STEELS

Project

Hira Power and Steels Limited Urla Industrial Complex, Raipur, Chhattisgarh-492 003

Compliance report of the cond	titions stipulated in	Environmental	Clearance
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		Noise Monitoring Report - March 20				022		
		S.	S.	Un it	Limit		Result	
		N o	N Location		D A Y	NIG HT DA	DAY	NIG HT
		1	Near CHP Area	Db (A)			70.5	65.9
		2 3 4	Beside Silo	Db (A)	75	70	71.2	64.3
			Solar Panel Area	Db (A)			68.9	61.1
			Main Gate	Db (A)			61.2	57.7
viii.	Occupation health surveillance of the workers shall be done on a regular basis and records maintained as per the Factory Act.	Healt	se refer to th surveillanc ne Factory Ac	e of t				
ix.	The company shall develop surface water harvesting structure to harvest the rain water for utilization in the lean season besides reaching the ground water table.	Complied.						
x.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP reports. Further, the company must undertake socio- economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.	Complying. Company has constructed cremation center toilets and intensive plantation have been done in surrounding areas.						





HIRA POWER & STEELS

Project

Hira Power and Steels Limited Urla Industrial Complex, Raipur, Chhattisgarh-492 003

Compliance report of the conditions stipulated in Environmental Clearance

			Sufficient budget have been allocated towards capital cost & recurring cost per annum for environmental pollution control measures as per conditions stipulated by Ministry of Environment and Forests as well as the State Government.					
Lak recu polli to xi. Min Stat imp sha Reg	The project authorities shall provide Rs. 15.00 Lakhs earmarked towards the capital cost and recurring cost per annum for environmental pollution control measure shall be judiciously used to implement the conditions stipulated by the Ministry of Environment & Forests as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Ministry including its Regional Office at Bhopal. The fund so provided should not be diverted for any other purpose.		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	nmental Pollution Control Measures				
		Sr. No	Facility	Capital Cost and Recurring Cost for the period of Oct 21- Mar 22 (Lakhs)				
		01.	3.0 MVA, 3.6 MVA & 6.0 MVA submerged arc furnace, 12MT/Heat CLU converter and 600 MTPA Thermic Plant	181.76				
xii.	The Regional Office of the Ministry at Bhopal/CPCB/CECB will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	Is being complied with. Please refer to our letter No. 1039/HPSL/U2/CPP/21-22/1039,dated 16.11.2021 for the period of April 2021 to September 2021. Attached as Annexure-14.						
xiii.	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letters are available with CECB and may also be seen at website of Ministry of Environment & Forests at http:/envfor.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional Office.	Com	plied.					





HIRA POWER & STEELS

Project : Hira Power and Steels Limited Urla Industrial Complex, Raipur, Chhattisgarh-492 003

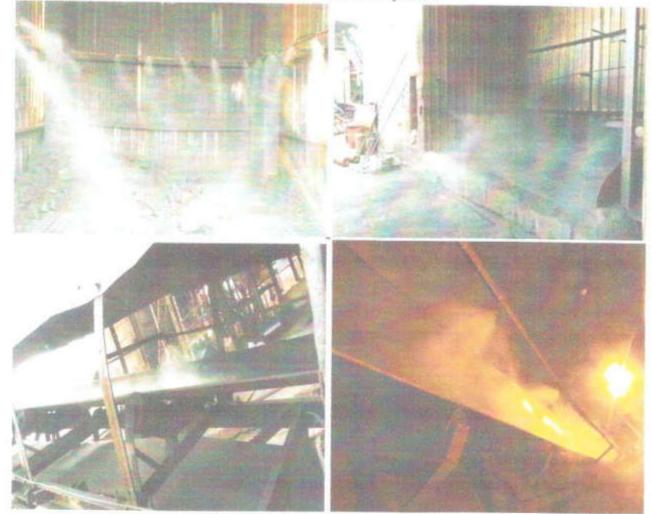
Compliance report of the conditions stipulated in Environmental Clearance

xiv.	Project authority shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Date of Financial Closure – November 2009. Date of Final Approval of the project by the concerned authorities - 24 September 2009. Date of Commencing the land development work- October 2009.
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Measures taken to control the fugitive emission

1. Fogging system on conveyor belts and transfer points



2. Covered shed for crusher



Annexure - I

3. RCC Road, Pneumatic sweeping and water sprinkling









RCC Road

RCC Road



Static Sprinklers

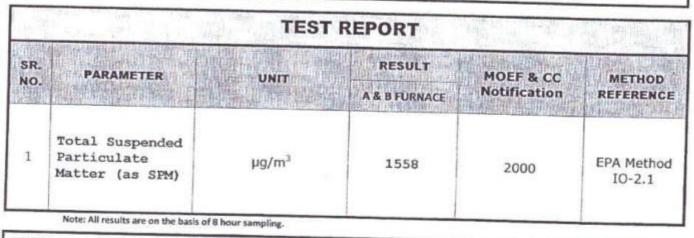
Mobile Sprinklers

ANNEXUKE - 1)



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Name & Address Of The Container To, HIRA POWER AND STEE		REPORT NO LAB REF NO	UES/TR/21-22/0921 UES/21-22/FE/0150	82
KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		DATE OF SAMPLING DATE OF RECEIPT	25/11/2021 to 26/11 26/11/2021	1/2021
		DATE OF REPORT	29/11/2021	
		DATE OF ANALYSIS	START:26/11/2021	END:29/11/2021
	SAMP	LE DETAILS	WHE REAL AND A STATE	NAME AND ADDRESS OF TAXABLE PARTY.
MONITORING FOR	FUGITIVE EMISS	ION	AND COMPACT DISANCE	制业"而常常 能
CUSTOMER REF. NO. &DATE	P.O. NO. 11/HP	SL U102/PO/21-22/88, DAT	ED: 24 10 2021	
SAMPLING LOCATION	A & B FURNACE		20. 24.10.2021	
DURATION OF SAMPLING	8 HOURS			
SAMPLE COLLECTED BY	LABORATORY C	HEMIST		
SAMPLING PROCEDURE	and the second se			
SAMPLE QUANTITY/PACKING	AS PER METHOD REFERENCE GMF FILTER PAPER (8 X 10 INCH): 1X1 NO.			



REMARKS: RESULTS ARE AS ABOVE

- > The report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15days after issue of test report unless otherwise agreed with customer.
- > This is for information as the party has asked for above test(s) only



End of the test report-----End of the test report------



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

		REPORT NO LAB REF NO DATE OF SAMPLING DATE OF RECEIPT DATE OF REPORT DATE OF ANALYSIS	UES/TR/21-22/0921 UES/21-22/FE/0150 25/11/2021 to 26/1 26/11/2021 29/11/2021 START:26/11/2021	83
MONITORING FOR	FUGITIVE EMISS	LE DETAILS		中花的小山川市东京市中
CUSTOMER REF. NO. &DATE	and the second sec	L U102/PO/21-22/88, DAT		
SAMPLING LOCATION	C & D FURNACE	- 0102/10/21-22/88, DA1	ED: 24.10.2021	
DURATION OF SAMPLING	8 HOURS			
SAMPLE COLLECTED BY	LABORATORY CH	IEMIST		
SAMPLING PROCEDURE	AS PER METHOD	Successory.		
SAMPLE QUANTITY/PACKING	GMF FILTER PAPER (8 X 10 INCH): 1X1 NO.			

12	TEST REPORT									
SR.	PARAMETER	UNIT	RESULT	MOEF & CC	METHOD REFERENCE					
NO.		A REAL PROPERTY	C & D FURNACE	Notification						
1	Total Suspended Particulate Matter (as SPM)	µg/m³	1428	2000	EPA Method IO-2.1					

REMARKS: RESULTS ARE AS ABOVE

- > The report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15days after issue of test report unless otherwise agreed with customer.
- This is for information as the party has asked for above test(s) only



End of the test report-----



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Name & Address Dr. The Courses To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		REPORT NO LAB REF NO DATE OF SAMPLING DATE OF RECEIPT DATE OF REPORT DATE OF ANALYSIS	UES/TR/21-22/0921 UES/21-22/FE/0150 25/11/2021 to 26/1 26/11/2021 29/11/2021 START:26/11/2021	84
用之"是"的话的。但他就是"你们的"。	SAMPI	LE DETAILS	(In consideration of the	10.23/11/2021
MONITORING FOR	FUGITIVE EMISS	ION	and the second se	
CUSTOMER REF. NO. &DATE	P.O. NO. 11/HPS	L U102/PO/21-22/88, DAT	FD: 24 10 2021	
SAMPLING LOCATION	CONVERTOR CLU		20. 24.10.2021	
DURATION OF SAMPLING	8 HOURS			
SAMPLE COLLECTED BY	LABORATORY CH	IEMIST		
SAMPLING PROCEDURE	AS PER METHOD			
SAMPLE QUANTITY/PACKING	and the second s	ER (8 X 10 INCH): 1X1 NO.		

	TEST REPORT									
SR. NO.	PARAMETER	UNIT	RESULT	MOEF & CC	METHOD REFERENCE					
			CONVERTOR CLU	Notification						
1	Total Suspended Particulate Matter (as SPM)	µg/m³	1540	2000	EPA Method IO-2.1					

REMARKS: RESULTS ARE AS ABOVE

- > The report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15days after issue of test report unless otherwise agreed with customer.
- > This is for information as the party has asked for above test(s) only



End of the test report-----End of the test report-----



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		UES/21-22/FE/0150 25/11/2021 to 26/1 26/11/2021 29/11/2021	
SAMPL		START:26/11/2021	END:29/11/2021
the second se	and the second se		Mallace Marth 18
RAW MATERIAL	(APD	ED: 24.10.2021	
	ARD		
	SAMPI FUGITIVE EMISSI P.O. NO. 11/HPSI RAW MATERIAL Y 8 HOURS LABORATORY CHI AS PER METHOD	DATE OF RECEIPT DATE OF REPORT DATE OF ANALYSIS SAMPLE DETAILS FUGITIVE EMISSION P.O. NO. 11/HPSL U102/PO/21-22/88, DAT RAW MATERIAL YARD	DATE OF RECEIPT 26/11/2021 DATE OF REPORT 29/11/2021 DATE OF ANALYSIS START:26/11/2021 SAMPLE DETAILS FUGITIVE EMISSION P.O. NO. 11/HPSL U102/PO/21-22/88, DATED: 24.10.2021 RAW MATERIAL YARD 8 HOURS LABORATORY CHEMIST AS PER METHOD REFERENCE

1	TEST REPORT									
SR.	PARAMETER	UNIT	RESULT	MOFF						
		Contraction of the second	RAW MATERIAL YARD	MOEF & CC Notification	METHOD					
1	Total Suspended Particulate Matter (as SPM)	hð\w ₃	1430	2000	EPA Method IO-2.1					

REMARKS: RESULTS ARE AS ABOVE

- > The report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15days after issue of test report unless otherwise agreed with customer.
- > This is for information as the party has asked for above test(s) only



End of the test report-----End of the test report-----

Ultimate

HDD-272, Phase III - Near JP Chowk Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099 Ph : 0771 - 4027777 I Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		REPORT NO LAB REF NO DATE OF SAMPLING DATE OF RECEIPT DATE OF REPORT DATE OF ANALYSIS	26/11/2021 29/11/2021	
	SAMP	LE DETAILS		
MONITORING FOR	FUGITIVE EMISS	ION		
CUSTOMER REF. NO. &DATE	P.O. NO. 11/HPS	GL U102/PO/21-22/88, DAT	FD: 24 10 2021	
SAMPLING LOCATION	CHP AREA	, , , , , , , , , , , , , , , , , , , ,	201 24.10.2021	
DURATION OF SAMPLING	8 HOURS			
SAMPLE COLLECTED BY	LABORATORY CH	EMIST		
SAMPLING PROCEDURE	AS PER METHOD	12.11.11.11.11.11.11.11.11.11.11.11.11.1		
SAMPLE QUANTITY/PACKING	GMF FILTER PAPER (8 X 10 INCH): 1X1 NO.			

1	in the	TEST	REPORT	and a second second	and the second
SR.	PARAMETER	UNIT	RESULT	MOEF & CC	METHOD REFERENCE
NO.		Children Park	CHP AREA	Notification	
1	Total Suspended Particulate Matter (as SPM)	µg/m ³	1495	2000	EPA Method IO-2.1

REMARKS: RESULTS ARE AS ABOVE

- > The report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15days after issue of test report unless otherwise agreed with customer.
- > This is for information as the party has asked for above test(s) only



End of the test report-----End of the test report------

ANNEXURE - 111



भारत सरकार जल शकित मंत्रालय जत संसाधन, मंदी विकास और गंगा संरक्षण विभाग केन्द्रीय भूमि जल प्राधिकरण Government of India Ministry of Jal Shakti Department of Water Resources. River Development & Ganga Rejuvenation Central Ground Water Authority

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र) NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

Project Name:			M/s	Hira Po	ower A	and Stee	els Limit	ed Unit	li				
Project Address:			Urla	Indust	rial Are	ea							
Town:			Birg	aon (m)			Block	D	harsiwa			
District:			Raip	ur				State		hhattisgar	b		
Pin Code:			1203					otate.	0	nnatusyar	0		
Communication Ad	dress:		Hira Dhai	Power siwa, F	And S Raipur,	teels Lt Chhatt	d. Unit I isgarh -	i, Urla I 492003	ndustri	al Area, K	h. No.	511/1, 5	12/2,
Address of CGWB	Regiona	I Office	: Cent	ral Gro Logistic	und W	later Bo	ard Nor	th Cent	ral Chł	hattisgarh, hartarai, Ra	2nd Flo aipur, C	oor, Lk (hhattisg	Corporat Jarh -
1. NOC No.:	CG	WA/NO	C/IND/C	RIG/2	021/12	176							
2. Application No.:			CT/IND/				3.	Catego (GWR			itical		
4. Project Status:	Exis	ting Pro	oject				5.	NOC T		Ne	w		
6. Valid from:	area a	6/2021						Valid u			06/202	4	
8. Ground Water Al	ostractio	n Perm	itted:								0012.02		
Fresh Water			Salin	e Wate	r		De	waterin	g			Total	
	/year	m	/day	m	/year	1 1	m³/day		n³/year	r m³	/day		³ /year
	20.00								-				1.000
Details of ground	water a	bstracti	on /Dev	/atering	g struc	tures							
	Tot	tal Exis	ting No	.:4					1	Total Prop	osed N	10.:2	
and the second		DW	DCB	BW	TW	MP	MPu	DW	DCB		TW	MP	MPu
Abstraction Struct		0	0	4	0	0	0	0	0	2	0	0	0
DW- Dug Well: DCB-Dug-	cum-Bore	Well; BW	/-Bore We	II, TW-T	ube Wel	II; MP-Min	e Pit;MPu	-Mine Pu	mps				
10. Ground Water Ab						(Rs.):				3818	40.00		
 Number of Piezor constructed/ mon 	neters(C itored &	Observa Monitor	tion wel	ls) to b chanisr	e I n.	No. of P	liezome	ters		Monitorin	g Mech	anism	
								M	anual	DWLR**	DWLR	With T	elemetry
**DWLR - Digital Wate	-												

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18/11, जामनगर हाउस, मानसिंह रोठ, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011 Phone: (011) 23383561 Fax: 23382051, 23386743 Website: cgwa-noc.gov.in

> पानी बचाये - जीवन वचाये SAVE WATER - SAVE LIFE

Validity of this NDC shall be subject to compliance of the following conditions:

Mandatory conditions:

1) Installation of tamper shoot a gital water flow meter with teametry on all the abstraction structure(s) analise mandatory for all users seeking No Objection Certificate and intrination regarding their installation shall be communicated to the CGWA within 30 days of grant of No Objection Certificate.

2) Proponents shall mandatorily get water flow mener calibrated from an authorized agoncy once in a year.

3) Construction of purpose-built observation wells (plezometers) for ground water level monitoring shall be mandatory as per Section 14 of Guidelines. Water level data shall be made available to CGWA through web contail. Detailed guidelines for construction of plezometers are given in Annexure-II of the guidelines.

6) Proponents shall monitor quality of ground water from the abstraction structure(a) once in a year. Water samples from tone wells/ tube wells / dug wells shall be collected during April/May every year and analysed in NABL accredited laboratories for basic parameters (cations and anions), heavy metals, bestrictes/ organic compounds str. Water quality data shall be made available to CG/WA through the web portal.

5) In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine.

6) In case of mining project the firm shall submit water quality report of mine discharge' skepage from Gout, approved NABL accredited late.

7) The firm shall report compliance of the NOC conditions online in the website (www.cgwainoc.gov.in) within one year from the date of issue of this NOC.

8) Inclustnes abstracting ground water in excess of 100 m 3 /d shall undertake annual water audit through certified auditors and submit audit reports within three months of completion of the same to CGWA. All such industries shall be required to reduce their ground water use by at least 25% over the next three years through appropriate means.

9) Application for renewal can be submitted online from 90 days before the expiry of NOC. Ground water withdrawal, if any, after expiry of NOC shall be iteger & liable for legel action as per provisions of Environment (Protection) Act, 1986.

10) This NOC is subject to prevailing Central/State Government rules/laws/norms or Court orders related to construction of tube well/ground water abstraction structure / recharge or conservationstructure/discharge of efficients or any such matter as applicable

General conditions:

11) No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).

12) The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific penod).

13) Proponents shall install roof top rain water harvesting in the premise as per the existing building bye laws in the premise.

14). The project proponent shall take all necessary measures to prevent contamination of ground water in the premises failing which the firm shall be responsible for any consequences arising thereupon.

15) In case of industries that are likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the runoflop shall be stored and put to beneficial use by the firm.

16) Wherever feasible, requirement of water for greenbelt (horticulture) shall be met from recycled / treated waste water.

17) Wherever the NOC is for abstraction of saline water and the existing wells (s) is (are yielding fresh water, the same shall be sealed and new tubewell(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.

18) Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the concerned Regional Director, Central Ground Water Board.

19) In case of violation of any NGC conditions, the applicant shall be liable to pay the penalties as per Section 16 of Guidelines.

20) This NOC does not absolve the proponents of their obligation / requirement to obtain other statutory and administrative clearances from appropriate authorities.

21) The issue of this NOC does not imply that other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.

22). In case of change of ownership, new owner of the industry will have to apply for incorporation of necessary changes in the No Objection Certificate with documentary proof within 60 days of taking over possession of the premises.

23) This NOC is being issued without any prejudice to the directions of the Honble NGT/court orders in cases reliated to ground water or any other related matters.

24) Proponents, who have installed/constructed antificial recharge structures in compliance of the NOC granted to them previously and have availed rebate of upto 50% (http percent) in the ground water abstraction charges/ground water restoration charges, shall continue to regularly maintain artificial recharge structures.

25) Industries which are likely to cause ground water pollution e.g. Tanning. Slaughter Houses. Dye. Chemical Petrochemical, Coal washenes, pharmaceutical, other hazardous units etc. (as per CPCE list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution as per Annexure III of the guidelines.

26) In case of new infrastructure projects having ground water abstraction of more than 20 m3/day, the firm/entity shall ensure implementation of dual water supply system in the projects.

27) In case of infrastructure projects, paved/parking area must be covered with interlocking/perforated tiles or other suitable measures to ensure groundwater infitration/harvesting.

26) In case of coal and other base metal mining projects, the project proponent shall use the advance dewatering technology (by construction of series of dewatering abstraction structures) to avoid contamination of surface water.

29) The NOC issued is conditional subject to the conditions mentioned in the Public notice dated 27.01 2021 failing which penalty/EC/cancellation of NOC shall be imposed as the case may be 30) This NOC is issued subject to the clearance of Expert Appraisal Committee (EAC) (if applicable).

(Non-compliance of the conditions mentioned above is likely to result in the cancellation of NOC and legal action against the proponent.)



Chhattisgårh State Industrial Development Corporation Limited (A Government of Chhattisgarh Undertaking) (ISO 9001:2015 Certified) First Floor, Udyog Bhawan, Ring Road No.-1, Telibandha, Raipur-492006 (C.G.) CIN : U45203CT1981SG001853, PAN : AABCM6288N, GST Regn. No. : 22AABCM6288N5ZY Phone No. : 0771-6002071, 72, 73, Fax No. : 0771-2583794 Website: www.csidc.in. Email address: csidc_raipur@yahoo.com, csidc.cg@nic.in

No./CSIDC/EE/DIV.-II/2020-21/

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WATER AVAILABILITY/ NON-AVAILABILITY

CERTIFICATE FOR FRESH/TREATED WATER

TO WHOMSOEVER IT MAY CONCERN

This is to certificate that this office of Chhattisgarh State Industrial Development Corporation Ltd. is providing fresh water supply to the tune of 500 KLD to the firm M/s Hira Power & Steels, Located at Urla Industrial Complex, Block/Taluka Dharshiwa Distt. Raipur State Chhattisgarh

Raipur, Dateda Q/01/2021

Executive Engineer EXECUTIVE OF NOINEER CSIDC LIMITED, ~ RAIPUR

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ANNEXURE - V



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

AMPLE COLLECTED BY CUSTOMER		QUANTITY RECEIVED	sen i	OK 1 KG.		
SAMPLE TYPE	SLAG	SAMPLE CONDITION AT RE	CEIPT	DATED: 28/01/2022	1	
CUSTOMER SAMPLE ID	Fe Mn SLAG	CUSTOMER REF. NO. & DA	TE	VERBAL COMMUNIC		
	SAME	PLE DETAILS	the second second	Transfer to the	I CLI ECEL	
		DATE OF ANALYSIS	Start:28/01/202	2 END:02	2/02/2022	
RAIPUR - 492003, CHHATTISGARH, INDIA		DATE OF REPORT	02/02/2022			
URLA INDUSTRIAL	COMPLEX, URLA,	DATE OF RECEIPT	28/01/2022			
PLOT NO. 557, 563		DATE OF SAMPLING	28/01/2022			
HIRA POWER & ST	EELS LIMITED	LAB REF NO. UES/21-22/MISC/011329				
то,		REPORT NO. UES/TR/21-22/06528				

TEST REPORT									
SR. NO.	DADAMETER		PARAMETER UNIT METHOD OF TEST		RESULT				
1	Iron as Fe	mg/l	USEPA METHOD-1311	(4) (4) (4) (4) (4) (4) (4) (4) (4) (4)	HE CARE FREEDO				
2	Manganese as Mn	mg/l	USEPA METHOD-1311	10.0	70.6				
3	Zinc as Zn	mg/l	USEPA METHOD-1311	10.0	5.9				
1	Lead as Pb	mg/1	USEPA METHOD-1311	250	48.2				
5	Cadmium as Cd			5.0	1.4				
6	Chromium as Cr	mg/l	USEPA METHOD-1311	1.0	0.86				
7		mg/l	USEPA METHOD-1311	5.0	2.2				
	Arsenic as As	mg/l	USEPA METHOD-1311	5.0					
8	Mercury as Hg	mg/l	USEPA METHOD-1311		N.D.				
No	ite: N.D Not Detected		00cl A MICTHOD-1311	0.2	N.D.				

Note: N.D. - Not Detected

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- > The above analysis report refers to the particular sample received at our end and the use of the report for publication, arbitration or as legal dispute is forbidden.
- > Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.

For ULTIMATE ENVIROLYTICAL SOLUTIONS **REVIEWED BY** AUTHORIZED SIGNATORY

-End of the test report-

Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

SAMPLE COLLECTED BY CUSTOMER		QUANTITY RECEIVED		OK		
SAMPLE TYPE	SLAG	SAMPLE CONDITION AT RE	CEIPT		28/01/2022	
CUSTOMER SAMPLE ID	THERMITE SLAG	CUSTOMER REF. NO. & DATE		VERBAL COMMUNICATION		
	SAMI	PLE DETAILS	Million 2 and	United bing	ALCONDUCT OF	
			Start:28/01/2022 END:0		END:02/02/2022	
PLOT NO. 557, 563 & 564, URLA INDUSTRIAL COMPLEX, URLA, RAIPUR - 492003, CHHATTISGARH, INDIA		DATE OF REPORT DATE OF ANALYSIS	02/02/2022	28/01/2022		
		DATE OF RECEIPT	28/01/2022			
		DATE OF SAMPLING	28/01/2022			
HIRA POWER & ST	EELS LIMITED	LAB REF NO.	UES/21-22/MIS	5/21-22/MISC/011333		
то,		REPORT NO. UES/TR/21-22/06532				

	TEST REPORT							
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMIT SCHEDULE II (See rule 3 (1) (17)	RESULT			
1	Iron as Fe	mg/l	USEPA METHOD-1311	ACTING TO A THE	ELVING			
2	Manganese as Mn	mg/l	USEPA METHOD-1311	10.0	85.4			
3	Zinc as Zn	mg/l	USEPA METHOD-1311	the second se	6.8			
4	Lead as Pb	mg/l	USEPA METHOD-1311	250	32.7			
5	Cadmium as Cd	mg/1		5.0	3.8			
6	Chromium as Cr		USEPA METHOD-1311	1.0	0.6			
7		mg/l	USEPA METHOD-1311	5.0	4.2			
1	Arsenic as As	mg/l	USEPA METHOD-1311	5.0				
8	Mercury as Hg	mg/l	USEPA METHOD-1311	0.2	N.D.			

Note: N.D. - Not Detected

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End of the test report-----



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TO, HIRA POWER & STEELS LIMITED PLOT NO. 557, 563 & 564, URLA INDUSTRIAL COMPLEX, URLA, RAIPUR - 492003, CHHATTISGARH, INDIA		REPORT NO.			2
		DATE OF SAMPLING 28/01/2022		.2	
		DATE OF RECEIPT	28/01/2022	28/01/2022	
		DATE OF REPORT	02/02/2022		
RAIPUR - 492003,	CHHATTISGARH, INDIA	DATE OF ANALYSIS	Start:28/01/2022 END:02/		END:02/02/2022
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CUSTOMER SAMPLE ID	POLLUTION DUST	CUSTOMER REF. NO. & DATE		VERBAL COMMUNICATION DATED: 28/01/2022	
SAMPLE TYPE	SLAG	SAMPLE CONDITION AT RECEIPT		OK	CARLE IN COMPANY SHALL
SAMPLE COLLECTED BY	CUSTOMER	QUANTITY RECEIVED		1 KG.	

	TEST REPORT							
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMIT SCHEDULE II [See rule 3 (1) (17) (ii)]	RESULT			
1	Iron as Fe	mg/l	USEPA METHOD-1311	-	28.4			
2	Manganese as Mn	mg/l	USEPA METHOD-1311	10.0	6.2			
3	Zinc as Zn	mg/1	USEPA METHOD-1311	250	124.4			
4	Lead as Pb	mg/l	USEPA METHOD-1311	5.0	3.2			
5	Cadmium as Cd	mg/l	USEPA METHOD-1311	1.0	0.89			
6	Chromium as Cr	mg/l	USEPA METHOD-1311	5.0	2.7			
7	Arsenic as As	mg/l	USEPA METHOD-1311	5.0	N.D.			
8	Mercury as Hg	mg/l	USEPA METHOD-1311	0.2	N.D.			

Note: N.D. - Not Detected

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

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Fest sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.

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-----End of the test report-----



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

TO,		REPORT NO. UES/TR/21-22/06530				
HIRA POWER & ST	EELS LIMITED	LAB REF NO.	UE5/21-22/MISC/011331			
PLOT NO. 557, 563		DATE OF SAMPLING	28/01/2022	28/01/2022		
URLA INDUSTRIAL COMPLEX, URLA, RAIPUR - 492003, CHHATTISGARH, INDIA		DATE OF RECEIPT	28/01/2022	1/2022		
		DATE OF REPORT	02/02/2022			
		DATE OF ANALYSIS	Start:28/01/2022 END:02/		END:02/02/2022	
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	MOx DUST	CUSTOMER REF. NO. & DATE		VERBAL	VERBAL COMMUNICATION	
CUSTOMER SAMPLE ID	The second se	State of the state		the second second second		
CUSTOMER SAMPLE ID	SLAG	SAMPLE CONDITION AT RE	Contraction of the second s	DATED: 2	28/01/2022	

	TEST REPORT							
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMIT SCHEDULE II [See rule 3 (1) (17) (0)]	RESULT			
1	Iron as Fe	mg/l	USEPA METHOD-1311	ACTING CONTRACTOR ALLON	75.0			
2	Manganese as Mn	mg/l	USEPA METHOD-1311	10.0	7.4			
3	Zinc as Zn	mg/l	USEPA METHOD-1311	250	85.1			
4	Lead as Pb	mg/1	USEPA METHOD-1311	5.0				
5	Cadmium as Cd	mg/1	USEPA METHOD-1311	1.0	2.3			
6	Chromium as Cr	mg/1	USEPA METHOD-1311		0.8			
7	Arsenic as As	mg/l	USEPA METHOD-1311	5.0	4.6			
8	Mercury as Hg	mg/1	the loss and all all all all all all all all all al	5.0	N.D.			
No	ote: N.D Not Detected	mg/ ±	USEPA METHOD-1311	0.2	N.D.			

REMARKS: RESULTS ARE AS ABOVE

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-----End of the test report-----



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TO,		REPORT NO. UES/TR/21-22/06529				
HIRA POWER & ST	FELS LIMITED	LAB REF NO.	UES/21-22/M	UES/21-22/MISC/01330 28/01/2022		
PLOT NO. 557, 563		DATE OF SAMPLING	28/01/2022			
URLA INDUSTRIAL		DATE OF RECEIPT	28/01/2022	022		
RAIPUR - 492003, CHHATTISGARH, INDIA		DATE OF REPORT	02/02/2022	/02/2022		
		DATE OF ANALYSIS	Start:28/01/20	Start:28/01/2022 END:02/02		
A State of the sta	SAMI	PLE DETAILS	anning Galacter	00001.12	1 Martin Street	
CUSTOMER SAMPLE ID	Fly Ash	CUSTOMER REF. NO. & DATE SAMPLE CONDITION AT RECEIPT			VERBAL COMMUNICATION	
	SLAG			DATED:	28/01/2022	
SAMPLE TYPE			QUANTITY RECEIVED		1 KG.	

		TEST REPORT						
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMIT SCHEDULE II [See rule 3 (1) (17) (7)]	RESULT			
1	Iron as Fe	mg/l	USEPA METHOD-1311	CONTRACTOR OF CONTRACTOR	55.9			
2	Manganese as Mn	mg/l	USEPA METHOD-1311	10.0	4.7			
3	Zinc as Zn	mg/l	USEPA METHOD-1311	250	86.1			
4	Lead as Pb	mg/l	USEPA METHOD-1311	5.0	4.8			
5	Cadmium as Cd	mg/1	USEPA METHOD-1311	1.0	A MARKED AND AND AND AND AND AND AND AND AND AN			
6	Chromium as Cr	mg/1	USEPA METHOD-1311	5.0	0.84			
7	Arsenic as As	mg/1	USEPA METHOD-1311	5.0	3.4			
8	Mercury as Hg	mg/l	USEPA METHOD-1311	0.2	N.D.			

Hote real - Not beterred

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

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For ULTIMATE ENVIROLYTICAL SOLUTIONS 02/02 REVIEWED BY AUTHORIZED SIGNATORY

-----End of the test report-----



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

TO.		REPORT NO. UES/TR/21-22/06527				
HIRA POWER & STEELS LIMITED PLOT NO. 557, 563 & 564, URLA INDUSTRIAL COMPLEX, URLA, RAIPUR - 492003, CHHATTISGARH, INDIA		LAB REF NO.	UES/21-22/MI	UES/21-22/MISC/011328 28/01/2022 28/01/2022		
		DATE OF SAMPLING	28/01/2022			
		DATE OF RECEIPT	28/01/2022			
		DATE OF REPORT	02/02/2022	02/02/2022		
		DATE OF ANALYSIS	Start:28/01/2022 END:02/0		END:02/02/2022	
ALC: NOT A	SAME	PLE DETAILS	A Providence	Harris .	C USA C COM	
CUSTOMER SAMPLE ID	AOD SLAG	CUSTOMER REF. NO. & DA	ATE	VERBAL COMMUNICATION DATED: 28/01/2022		
SAMPLE TYPE	SLAG	SAMPLE CONDITION AT R	ECEIPT	OK	COLOTIENEE	
SAMPLE COLLECTED BY CUSTOMER		QUANTITY RECEIVED		1 KG.		

	TEST REPORT							
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMIT SCHEDULE II [See rule 3 (1) (17) (i0)]	RESULT			
1	Iron as Fe	mg/l	USEPA METHOD-1311	-	16.4			
2	Manganese as Mn	mg/l	USEPA METHOD-1311	10.0	8.4			
3	Zinc as Zn	mg/l	USEPA METHOD-1311	250	58.7			
4	Lead as Pb	mg/l	USEPA METHOD-1311	5.0	4.2			
5	Cadmium as Cd	mg/l	USEPA METHOD-1311	1.0	0.54			
6	Chromium as Cr	mg/l	USEPA METHOD-1311	5.0	3.5			
7	Arsenic as As	mg/l	USEPA METHOD-1311	5.0	N.D.			
8	Mercury as Hg	mg/l	USEPA METHOD-1311	0.2	N.D.			

Note: N.D. - Not Detected

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

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	AND CON	For ULTIMATE ENVIROLYTICAL SOLUTIONS
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0-04	100	202/02/22
REVIEWED BY		AUTHORIZED SIGNATORY

-----End of the test report-----

ANNEXURE - VI



Ref: 2023/HPSL/2022-23/2023

Date: 05.05.2022

To, The Regional Office, Regional Office, Chhattisgarh Environment Conservation Board, Commercial Complex, Chhattisgarh Housing Board Colony, Kabir Nagar, Raipur (C.G.)

Sub: Fly ash utilization annual report / return for the financial year 2021 - 22

Respected Sir,

With reference to above cited subject, we are submitting herewith fly ash utilization annual report / return (Annexure – I) for the financial year 2021 - 22 (April 1st 2021 to March 31st 2022) for your ready reference and record, please.

Fly ash is being disposed off by us systematically & scientifically as per Fly Ash Notification dated 14th September, 1999 and its amendments by MoEF&CC.

Kindly acknowledge the receipt of the same.

Thanking You,

Yours faithfully,

For, HIRA POWER AND STEELS LIMITED, UNIT - II

Authorized Signatory

Encl: A/a

- CC: 1. The Member Secretary, Chhattisgarh Environment Conservation Board, Paryavas Bhavan, North Block, Sector – 19, Atal Nagar, District - Raipur (C. G.) 492 002
 - The Regional Director, Central Pollution Control Board, 3rd Floor, Sahkar Bhawan, North TT Nagar, Bhopal -462003
 - The Scientist, Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Aranya Bhawan, North Block, Sector-19, Atal Nagar, District - Raipur (C. G.) 492 002.

Hira Power & Steels Limited An ISO 9001:2015 Certified Company CIN: U24117CT1984PLC002512

Registered Office & Works : Khasra No. 511/1, 512/2, Urla Industrial Complex, Raipur - 492003, Chhattisgarh, India P : +91 771 4082500, 4082600, F : +91 771 4082501, E : admin@hpslindia.com www.hpslindla.com, www.hiragroup.com

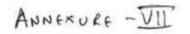
HIRA POWER & STEELS LIMITED, (UNIT - II)

Khasra No. 511/1, 512/2, Urla Industrial Complex, Raipur (C.G.) – 492 003

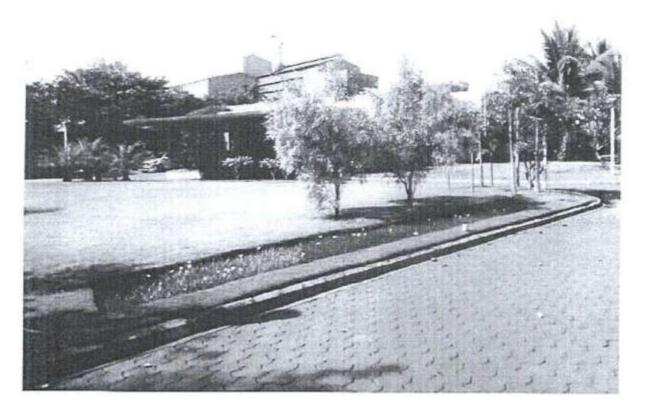
FLY ASH GENERATION & UTILIZATION REPORT FOR THE FINANCIAL YEAR 2018-19 (April 1" 2021 to March 31" 2022)

0.00	0	0.00	0.00	0.00	86299.51	0.00	86299,51	Total
0.00 0.00			0.00	0.00	6466,44	0.00	6466.44	Mar-22
0.00 0.00		-	0.00	0.00	6605.83	0.00	6605.83	Feb-22
0.00 0.00			0.00	0.00	7442.96	0.00	7442.96	Jan-22
0.00 0.00			0.00	0.00	8353.28	0.00	8353.28	Dec-21
0.00 0.00			0.00	0.00	5979.37	0.00	5979.37	Nov-21
0,00 0.00			0.00	0.00	6384.26	0.00	6384.26	Oct-21
0.00 0.00			0.00	0.00	8462.85	0.00	8462.85	Sep-21
0.00 0.00			0.00	0.00	7325.52	0.00	7325.52	Aug-21
0.00 0.00			0.00	0.00	7566.17	0.00	7566.17	Jul-21
0.00 0.00			0.00	0.00	7728.42	0.00	7728.42	Jun-21
0.00 0.00			0.00	0.00	6081.49	0.00	6081.49	May-21
0.00 0.00			0.00	0.00	7902.92	0.00	7902.92	Apr-21
(MT) (MT)			(MT)	(MT)	(MT)	(MT)	(MT)	
Agriculture Mine Filling			Ash Dyke Raising / Construction	Filling	Brick Manufactu ring	Supply to the Cement Plant	Fly Ash Generation in the Month	Month





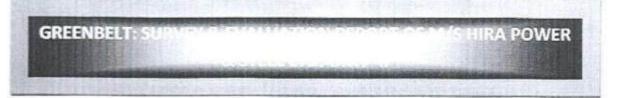


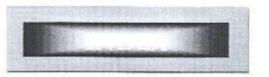


[PLANTATION SURVEY & EVALUATION REPORT] 2019 - 20, 2020-21

SEIDR

CLIDVEV & EVALUATION BY COCIETY FOR EMUIDOMMENT & INTERDATED DEVELOPMENT DATOLD





S. N.	PARTICULARS	PAGE
1.	Executive Summary (Introduction)	1
2.	Project Objective, Plantation Details	2
3.	Road Side Plantation, Methodology	3
4.	Plantation Species and Measurement	4 -6
5.	Survival Percentage of Planted Plants	6
6.	Photographs	7 - 15
7.	Gradation	16
s.	Certificate	17
9.	Discussion and Suggestion	18
10.	A word of Appreciation	19
11.	Team Involved in Survey	20
12.	ABOUT "SEIDR"	21-22

SEIDR

SURVEY & EVALUATION BY : SOCIETY FOR ENVIRONMENT & INTEGRATED DEVELOPMENT RAIPUR

Evaluation of Greenbelt Development

For

M/s HIRA POWER & STEEL LTD. UNIT - II

Plot No. 557, 563 & 564 Urla, Industrial Complex, Urla, Raipur

Survey & Evaluation by -"Society for Environment & Integrated Development Raipur" Raipur (CG)

EXECUTIVE SUMMARY

1. INTRODUCTION

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M/s HIRA POWER&STEEL LTD.is working at three places in the state of Chhattisgarh:-

- Regd. Office / Works M/s HIRA POWER AND STEEL LIMITED- Unit II, 511/1, 512/2, Urla Industrial Complex, Raipur, Pin code - 492003 (C. G.)
- Project Started As Per information provided by M/s HIRAPOWER&STEEL Ltd. Raipur, Details of Projects are as Under :-

I. HIRA POWER AND STEEL, URLA (Raipur) Plant -

- EC- F-No. J-11011/836/2008-IA-II (I) MoEF, New Delhi 11003 for Ferro Alloy plant - 600 MTPA for production of Low Medium Carbon Ferro Manganese (Ferro Alloys) - 18,000 MTPA.
- Ferro Alloys -30,000 MTPA, Or 56,000 MTPA Pig Iron from 2×5.5 MVA Submerged Arc Furnaces
- 3. Captive Power Plant 20 MW
- 4. Plant Area:-

Hira power & Steel Ltd. Urla (Raipur) Plant - Total Land Area - 17.59 Ha. (Approx) (Plantation Area - 5.86 Hectare Approx)

M/s HIRA POWER&STEEL LTD

The green belt helps to capture the fugitive emission and attenuate the noise apart from improving the aesthetic quality of the region in the total area of the project site (Core Zone). 33% area shall be developed as green belt along the periphery of the plant in Hira Power & Steel – Unit -II whereas 33% (as they come under notified industrial area) plant shall be developed as green belt area. Development of green belt and other forms of greenery at road side and plantation in nearest project affected villages shall also be helpful to improve ecological conditions and biodiversity status of the area.

Survey and Evaluation work was allotted by M/s HIRA POWER&STEEL LTD. to our organization – "SOCIETY FOR ENVIRONMENT & INTEGRATED DEVELOPMENT RAIPUR" for which one work orders was issued dtd.21/12/2020 via S.O. No. 7200003029/U102.

Survey & Evaluation By: Society for Environment & Integrated Development Raipur Page 1

5. PROJECT OBJECTIVE

Plant species act as bio-monitoring agent to monitor the air environment as well as it keeps and maintains the project environment healthy by providing more oxygen. The two areas of air pollution i.e. gases and dust need to be urgently by using plants. Keeping this in mind, alleviate measures have been suggested to develop green belt based on local and physical conditions of the areas by taking the cognizance of "Green with Purpose" drive.

6. PLANTATION DETAILS

- Area of Plantation (Green Belt):- During the field survey and field study by our technical team it has been found that plantation work was started from start of each project and is continued till date.
- A. Urla Plant Unit-2, 5.86 Ha. (Approx) in Campus Area.
- B. Aerodrome Garden development area.
- C. Road Side area 3 1/2 K. M. (Approx) in campus Area.

8. Details of Year wise Plantation:-

Road side plantation survey till date as per details given below:-M/s HIRA POWER&STEEL LTD.

A. Main gate to Jai hind chowk to near Police station and around

s.n.	Species				No. of Survival plants
1.	Kesiasemia, Sissoo,Alatoni	Peltophorum, ia, Pipal,	Gulmohar,	Karanj,	1434

B. Plantation done by Hira Power & Steel Ltd. up to 2019-20, 2020-21

Year	Unit -2	Road Side	Airport Garden
UP TO 2019-20	14000+1252	2600	2500
2020-21	1326	0	0
Total =	16578	2600	2500

Survey & Evaluation By: Society for Environment & Integrated Development Raipur

Page 2

9. Plantation Sites:-

Plantation work is in progress along the plant boundary wall and inside the plant premises. Plantation work has been done along the road side. Plantation survey has been carried out by expert team with the help of officers of M/s HIRA POWER & STEEL Ltd. Following sapling was planted by M/s HIRA POWER & STEEL Ltd.

At Unit - 2, plant Campus Area -

- A. Plant premises area.
- B. Admin building (Office area)
- II. Road Side area.
- III. Airport Garden

Road side Plantation -

s.n.	Location of plantation	Length in Kilometer
1	Unit -II main gate to Young India Choak, Police Station around Road both side	3 1/2 K M (Approx)

Boundary wall has been constructed on the places, Raipur factory, Due to this construction expected damages from cattle and unwanted social elements were controlled.

Irrigation facility was also provided at five places by drip water pipe line and tanker due to this the growth of plants has been observed very well.

10. METHODOLOGY

- All planted areas were inspected.
- > All small plants were counted and taken their measurement and same has been recorded.
- Height and girth of plants and saplings have been measured.
- Survival percentage has been recorded.
- Many places were pictures of plantation.

Survey & Evaluation By: Society for Environment & Integrated Development Raipur

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11. M/s HIRA POWER & STEEL LTD.

A. UNIT -II- PLANTATION SPECIES AND MEASUREMENT

S.N	Species		erage	M	laximum	Mit	nimum
*		Girth (cm)	Height (m)	Girth (m)	Height (m)	Girth (cm)	Fleigh
1.	Peltophorum	10.5	5.30	80	15	4	(m) 4.0
2,	Alastonia	18.4	6.93	54	13	4	11
3.	Parkia	5.7	-1.1	9	5.50	1	3.0
4.	Kesiasemia	25	5.65	45	10.50	4,	3.0
5.	Shisham	40.0	8.04	80	12	3	0.90
6.	Sirsa	7.5	4.5	12		20	5
7.	Badam	28	6.2	45	6.5	4	3.1
8.	Coconut	40	8.25		8.50	12	2.0
9.	Karanj	28		60	12	28	5
10.	Washingtonia		3.3	62	47	5	2
11.	Spethodia	57.8	3.05	90	9.0	. 40	2
	The second s	7.30	2.58	14	4.25	2	1.30
12.	Nilgiri	11.61	2.93	20	4.50	4	1.10
13.	Shisham	20.30	4.20	26	3.50	15	3
14.	Gulmohar	9	3.3	12	5	6	1.2
5.	Konocarpes	17.5	5.06	20	6.05	9	2
6.	Neem	11.66	2.61	14	3.10	5	0.95
7.	Karanj	5.12	1.06	10	2.50	2	0.50
8.	Alastonia	13	3.68	16	5	13	2.50
9.	Champa	20.5	5.8	52	12.0	6	3
0.	Sitafal	14.60	4.42	16	5.50	13	4.00
1.	Kaner	7.14	2.98	12	4.00		
2.	Kachnar	38.58	10.51	52	13	4	2.00
3.	Areca Pam	14.08	3.52	32	8.00	25	6.50
. 1	Bottle brush	8.12	2.13	18		6	4.00
_	Kadmba	12.3	5.3		6.50	4	1.20
				24	7.50	6	4.00
	Acacia	6.75	3.65	16	7.50	3	2

Survey & Evaluation By: Society for Environment & Integrated Development Raipur

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D. AIRO DROME GARDEN - PLANTATION SPECIES AND MEASUREMENT

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\$.N.	Species		erage	Max	imum	Min	mum
		Girth (cm)	i leight (m)	Girth (cm)	l keight (m)	Girth (cm)	Heigh (m)
Έ.	Spathodea	45	5.9	65	10	20	4.5
2	Champa	25	2.7	30	3.5	20	2
3.	Cycus	104	4.16	115	5	75	2.50
4.	Tikoma	6.5	1.75	12	2.6	4	1.20
5.	Akash neem	64.75	14	80	15	-45	12
6.	Kaner	8.8	1.75	60	1.80	8	1.75
7.	Bottle palm	34.5	5.6	40	6.5	25	5.00
8.	Arjun	30	7.12	70	12	12	4.00
9.	Peltophorum	54.6	7.6	160	14	20	6
10.	Nilgiri	114,4	17	130	18	1.10	10
11.	Alastonia	41	9.2	50	12	30	6
12.	Gulmohar	61.3	7.6	83	12	40	8
13.	Karanj	20.4	4.9	35	8.00	10	3.5
14.	Kachnar	23.8	4.9	35	8	10	3.5
15.	Coconut	76.4	12.14	115	16	55	6
16.	Bottle brush	34.8	56	40	6.5	25	5
17.	Bottle palm	72.2	5.0	80	5	55	3.5

G. M/s HIRA POWER&STEEL LTD. (Road Side Plantation 3 1/2 K M (Approx)

S.N.	Species	Ave	rage	Max	imum	Min	imum
		Girth (cm)	Height (m)	Girth (cm)	Height (m)	Girth (cm)	Height (m)
1.	Tikoma	9.8	4.08	20	6	3	2.5
2.	Neem	9.7	3.2	15	5.5	5	2.00
3.	Alastonia	42.8	4.5	60	7	20	2.5
4.	Khamar	29.3	6.3	35	10	12	3.00
5.	Kesiyasemia	24.8	8.4	38	2.5	4	1.5
6.	Siras	7.4	3.2	14	5.50	2	1.5
7,	Kadamba	9.3	3.3	14	5.00	5	2.00
8.	Gulmohar	33.4	9	45	12	15	5

Survey & Evaluation By: Society for Environment & Integrated Development Raipur

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9.	Kaner	20	5.3	28	7.5	10	2.5
10.	Sisco	28.7	5.54	45	7.00	18	4.5
11.	Arjun	77	10.6	90	12	60	8
12.	Karanj	14	2.4	18	3.50	10	2.00
13.	Kadmba	45	6.2	55	10	55	4
14.	Teek (Sagoun)	12	3.01	30	5.5	6	0.90
15.	Amaltas	12.6	3.5	20	4.5	, 10	2.00
16.	Guimohar	53	8.4	65	12	45	4.00

17. Number of Plantation and Survival Percentage

	PLANTED SPECIES	5 AND PLANT	'S NUMBERS	
S. N.	PLANTED SPECIES	PLANTED SPECIES NO.	SURVIVAL PLANTED	SURVIVAL PERCENTAGE
M/	s HIRAPOWER & STEEL Ltd.			
1.	Unit -II (Including Admin Buildin	ng)	Site .	
	Peltophorum, Alastonia, Parkia, Kesiasemia, Sirsa, Badam, Coconut, Karanj, Washingtonia, Spethodia, Nilgiri, Shisham, Gulmohar, Conocarpes, Neem, Karanj, Alastonia, Champa, Sitafal, Kaner, Kachnar, Areca Pam, Bottle Brush, Kadmba, Acacia, Shoobabul	16578	14428	87%
3.	Road Side			
	Neem, Alastonia, Khamar, Kesiyas amia, Siras, Kadamba, Gulmohar, Kaner, Sisoo, Arjun, Karanj etc.	2600	1434	55%
4.	Air port Garden			
	Spathodea, Champa, Cycus, Tikoma, Akash neem, Kaner, Bottle palm, Arjun, Peltophorum, Nilgiri, Alatonia, Gulmohar, Karanj, Kachnar, Coconut, Bottlebrush, Bottle Palm etc.	2500	1874	75%
	Grand Total=	21678	17736	M

Note : - Coal yard, Crusher yard, Kirtiman van, Near Pond, Near Power store Dieseltank. In the above area mentioned places or area shoobabul are very dense. 3310 3

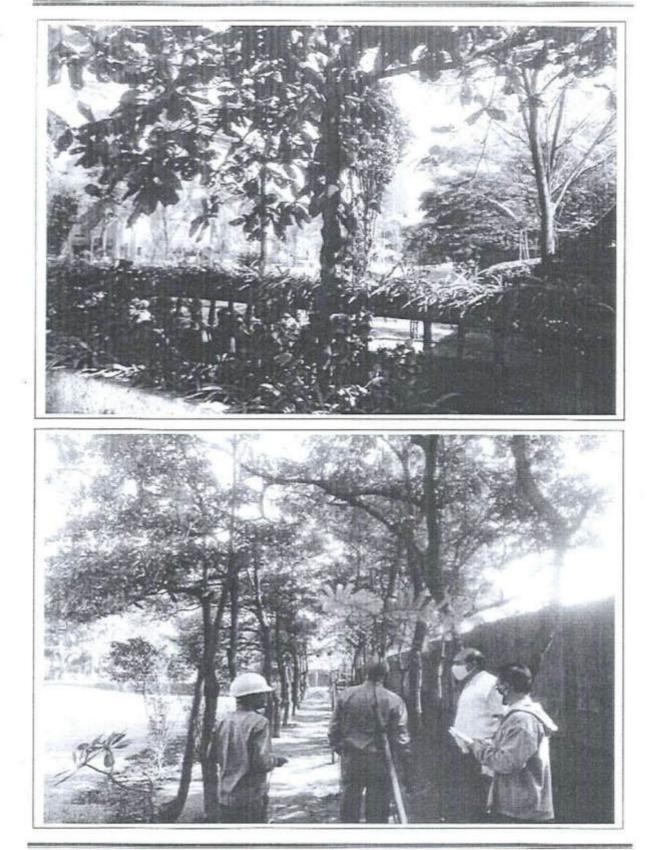
Survey & Evaluation By: Society for Environment & Integrated Development Raipur

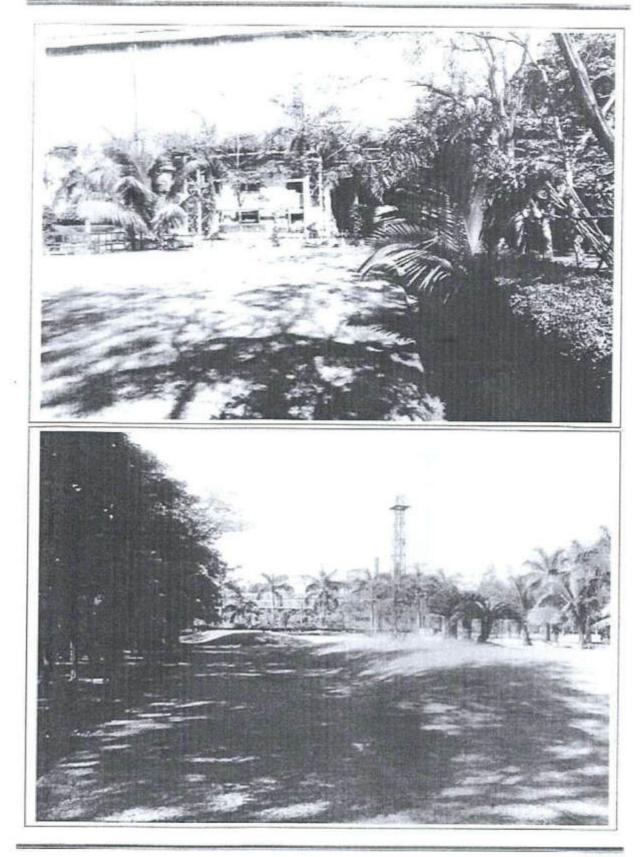
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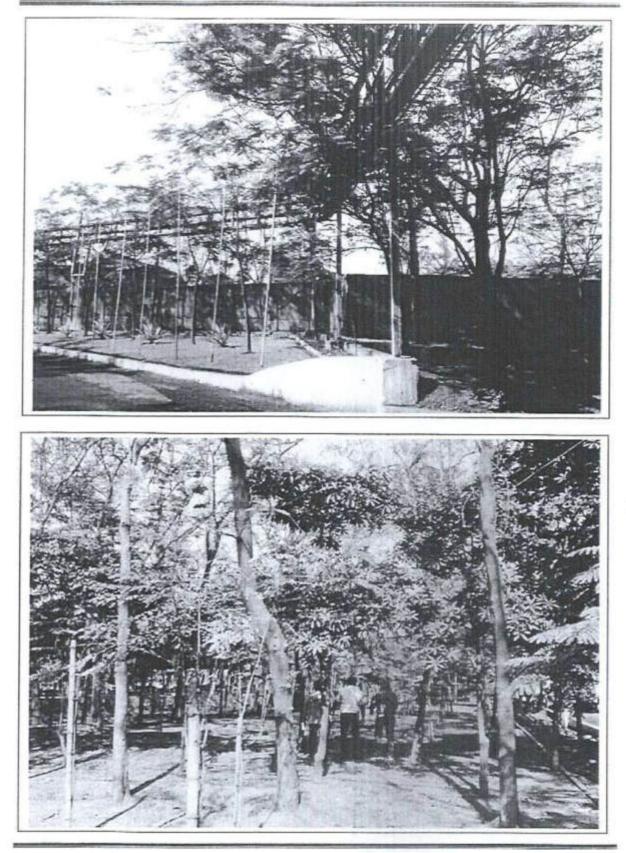
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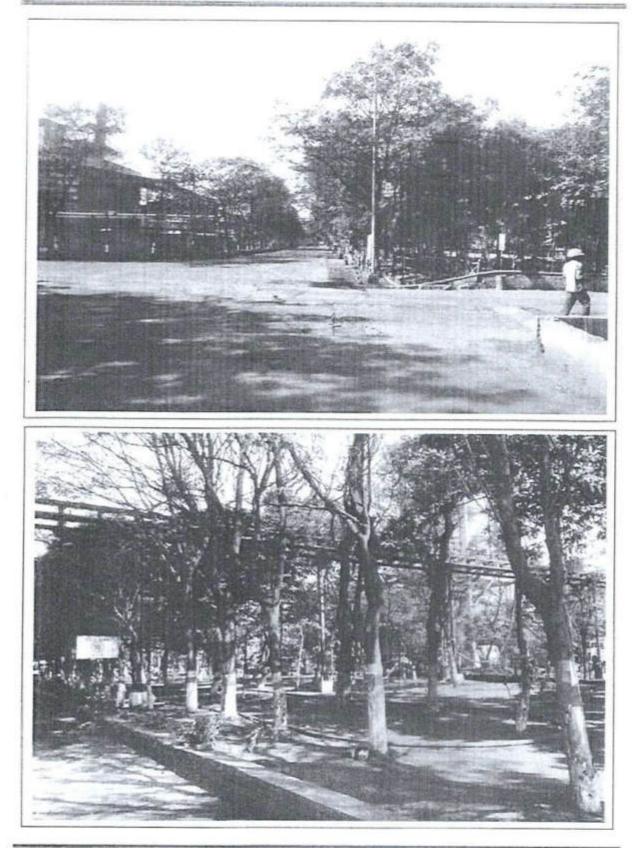
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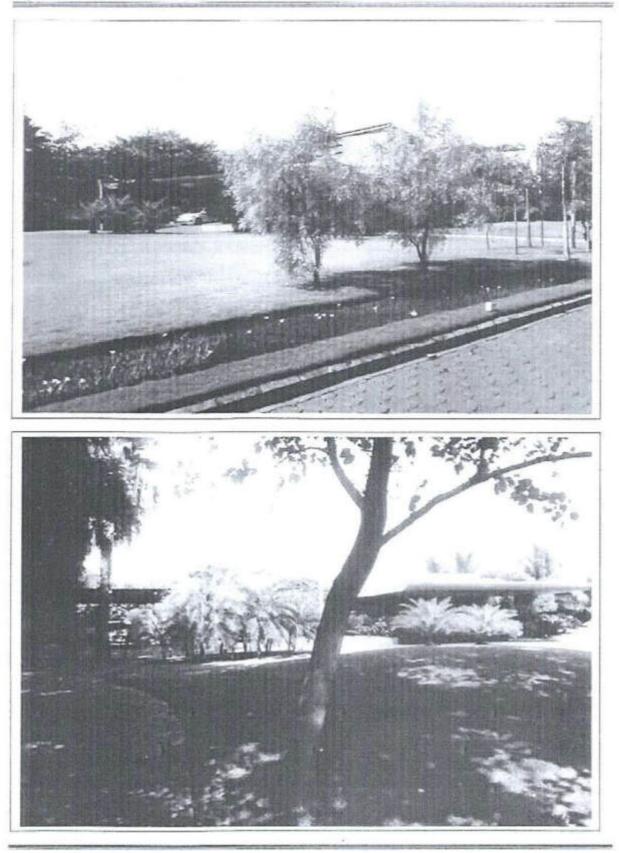
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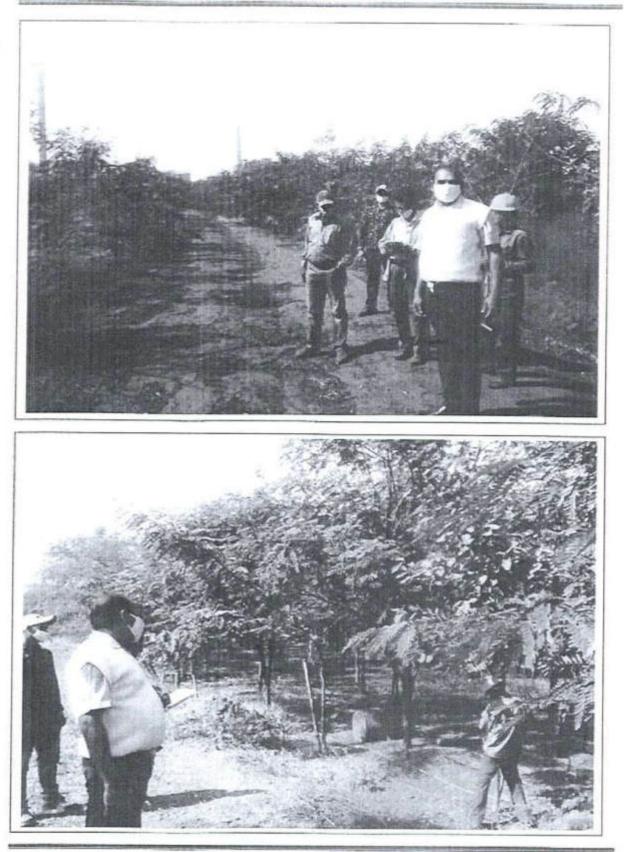


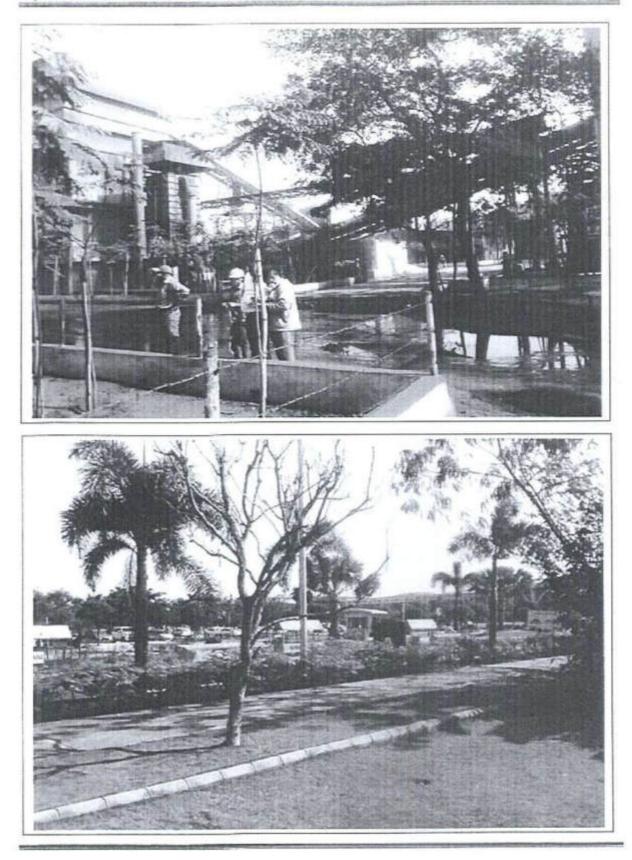




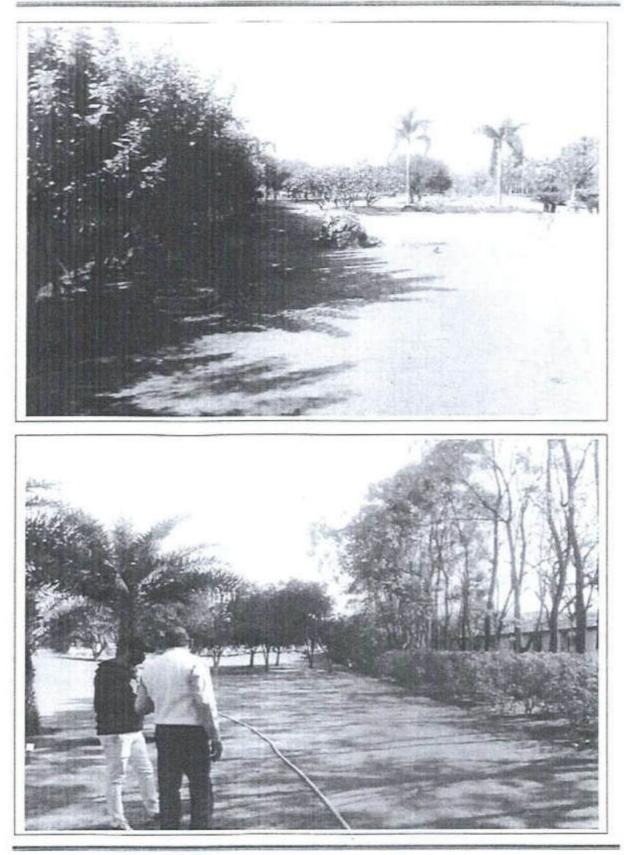


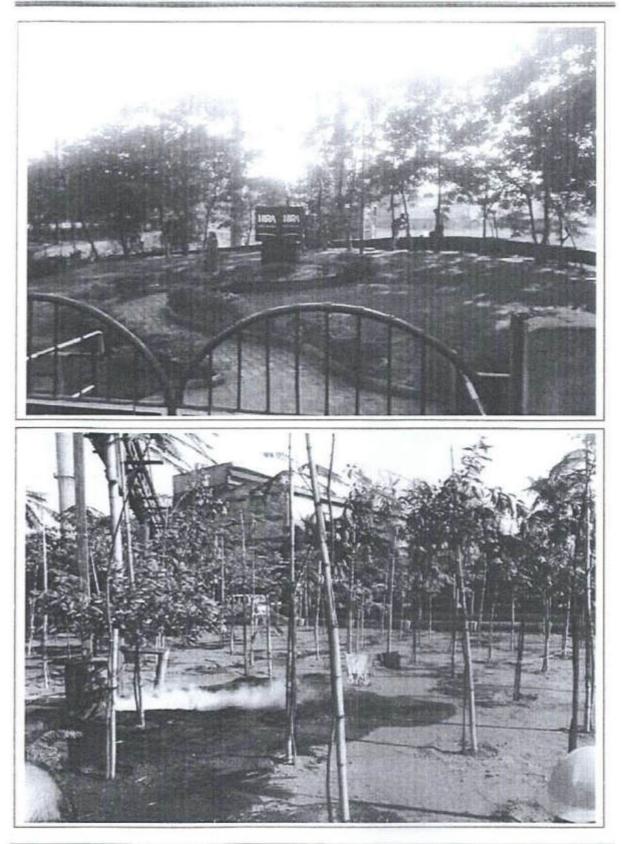






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9. GRADING OF PLANTATION

M/s HIRAPOWER&STEEL LTD. - Unit - II

Grading of Plantation on scale of 1 to 10

Qualitative Aspects	Survival	8.50
	Health of Plantation	8.00
	Maintenance	8.00
	Sustainability	8.00

Grading of project plantation on scale 1 to 10

Overall Grading of Plantation	Outstanding (excellent) (8-10)	Very Good (5<8)	Good (3<5	Poor (>3)
riamation	8.12			

E. GRADE CARD-

M/s HIRAPOWER&STEEL LTD. - Road Side

Grading of Plantation on scale of 1 to 10

Qualitative Aspects	Survival	6.00
	Health of Plantation	7.00
	Maintenance	6.00
	Sustainability	600

Grading of project plantation on scale 1 to 10

Overall Grading of Plantation	Outstanding (excellent) (8-10)	Very Good (5<8)	Good (3<5)	Poor (>3)
		6.25		

F. GRADE CARD-

M/s HIRAPOWER&STEEL LTD. - Aerodrome Garden

Grading of Plantation on scale of 1 to 10

Qualitative Aspects	Survival	9.00
	Health of Plantation	9.00
	Maintenance	9.00
	Sustainability	9.00

Grading of project plantation on scale 1 to 10

Overall Grading of Plantation	Outstanding (excellent) (8-10)	Very Good (5<8)	Good (3<5)	Poor (>3)
Tantation	9.00			



Survey & Evaluation By: Society for Environment & Integrated Development Raipur

CERTIFICATE

CERTIFIED THAT OUR SURVEY AND EVALUATION EXPERT TEAM COUNTED ALL TREE, PLANTS, SAPLING OF <u>M/S HIRA POWER</u> <u>AND STEEL LTD. UNIT -2, RAIPUR, AND FOUND</u> <u>14428 OF TOTAL 16578 PLANTED PLANTS AND</u> COVERED AS GREEN BELT <u>14.26 ACRES (APP.)</u> AREAS.

DATE:12/01/2021

"SEIDR" "SEIDR" "SOCIETY FOR ENVIRONMENT & ENTREGRATED DEVELOPMENT RAIPUR"

Survey & Evaluation By: Society for Environment & Integrated Development Raipur Page 17

- 10. DISCUSSION HELD WITH OFFICER AND MANEGMENT OF M/s HIRA POWER&STEEL LTD. AS UNDER -
- 1. Mr. Rahul Agarwal (President)
- 2. Mr. Aviral Tiwari (Senior Engineer Environment)
- 3. Mr. Mahesh Kumar Verma (Senior Office: Horticulture)

11. SUGGESTIONS FOR THE IMPROVEMENT

- 1. Species Fast growing species should be planted.
- 2. Plant should be planted after one year age.Minimum length 1 meter or above.
- 3. Irrigation facility should be provided to planted plants.
- Space should be 2×2, 3×3 and maximum 4×4 according to maximum girth of trees after maturity.
- 5. Germination time Humic Oxide should be used for better results.
- Manure Compost, Vermi compost for good age Urea, Dap, Zhaim should be used.
- 7. Priority to broader leaves plants should be planted.
- Following species may be chosen for plantation Khamar, Shisham, Teak, Kadamba, Acacia, Pelt form, Arjun, Neem, Semal, Jamun, Karanj, Sissu, Mahuwa, Ashok, Nilgiri, Pipal, Amaltas, Bottlepam, KesiaSamia, etc.
- 9. Termite& Other pests control should be done by Cholorocyper, Imida combine.
- 10. Plants should be planted regularly every year.
- 11. Soil of Pits should be change with manure before plantation.
- 12. In water locked area Kahua should be planted.
- 13. Hard and dry area Teak should be planted.
- 14. For maintain of survival percentage casually replacement should be done every year.

Survey & Evaluation By: Society for Environment & Integrated Development Raipur Page 18

A WORD OF APPRECIATION

We appreciate all management officers and staff of HIRA POWER&STEEL I.TD.Who has taken step to develop the green belt & greeneryness of area. We found that sapling has taken care well after plantaion.

We apperciate the commitment and care taken by the management for developing the green belt & greenery within & outside of plant permises.

"Society for Environment & Integrated Development Raipur"

Survey & Evaluation By: Society for Environment & Integrated Development Raipur Page 19

S.n.	Name	Job	Experience
1	Shri D K Tiwari	Team Leader	Self Employ 15years experience of monitoring & evaluation & micro planning
2	Shri Kamlesh Dubey	Coordinator	6 years experience of monitoring & evaluation Industrial Plantation
3	Shri Jasvir Singh Virdi	Investigator	7years experience of monitoring & evaluation Industrial Plantation

THE TEAM INVOLVED IN SURVEY & EVALUATION

EXECUTIVE BODY OF "SEIDR"

NO.	Post	Name	Experience
1	President	Shri S. K. Roy	Retd. A.C.F. C.G. Govt.
2	Vice President	Smt. Shobh Mishra	Professional
3	Secretary	Smt. Asha Tiwari	Teacher (Private)
4	Treasurer	Shri D. K. Tiwari	Professional

Survey & Evaluation By: Society for Environment & Integrated Development Raipur

ABOULTHE EVALUATION AGENCY

Organization profile

Society for Environment & Integrated Development Raipur, Non Government Organization (NGO) And working as Development and welfare.
C. G. State - 3270. Date - 01/03/2011
Under Society Registration Act 1973.
J-9/A, ShriRam Nagar, Phase –I, Sireet – II, Post Office Shankar Nagar Raipur, (C.G.) Pin Code – 492007.
+91-771-3557342
Mr. S. K. Roy (Reld. Forest S.D.O.) Mob. No. 094255 - 02223
Mr. D K Trwari (Retd. Forest Range Officer) Mob. No. 96695 - 77114, 98261 - 86818
seidraipur@gmail.com
State Bank of India, Vip Estate, Vip colony Raipur (C.G)
Account No 35731546052
IFS Code - SBI N0013004 SWIFT

SEIDR MISSION

Is to release the creative energies resources and aspirations of the poor. Especially tribes, equality and women to seek and obtain opportunities for full effective sustainable participation in social, economic, political and cultural life of society and nation.

SEIDR VISION

Irea of Operation

SEIDR is society based on the values of gamine demouracy, equality and peace for all its critizens, where provide and government play their respective roles effectively with transparency and acconutability.

Intensively in all districts of Chhattisgach state, with trained technical and professional staff.

Survey & Evaluation By: Society for Environment & Integrated Development Raipur

No.	Name	Experience
1	Kamlesh Dubey	Professional
2	Prabhat Panday	Electrical Engineer
3	Jasveer Singh Virdi	Professional
4	Varun Tiwari	Labor Court Lawyer
5	Smt. Nirmala	Labor Court Lawyer
5	Prdeep Sahu	Professional
	Akhil Shrivastava	Professional

OTHER MEMBER OF EXECUTIVE BODY

THANK YOU.

Survey & Evaluation By: Society for Environment & Integrated Development Raipur Pag

ANNEXURE - VIII



HDD-272, Phase III - Near JP Chowk Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099 Ph.: 0771 - 4027777 I Email : ultimateriviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

To,	REPORT NO. UES/TR/21-22/08679 LAB REF NO. UES/21-22/ST/014442		
HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA			
	DATE OF SAMPLING	25/10/2021 to 26/10/2021	
	DATE OF RECEIPT 26/10/2021		
	DATE OF REPORT	29/10/2021	
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:26/10/2021	End:29/10/2021
	SAMPLE DETAILS	and a stand the second	Contraction of the second
Monitoring For	Stack Emission Monitoring		
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/88, DATED: 24.10.2021		
Sampling Location	3.0 & 3.6 MVA Submerged Arc Furnace 'A & B' (Combine Stack)		
Sample Collected By	Laboratory Chemist		
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003		
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO _X : 25 ml X 1 No. PVC Bottle Rubber Bladder: 1 X 1 No.,		

TEST	REPO	RT
------	------	----

Stack details				
Stack Identity	×	×.	1	3.0 & 3.6 MVA SUBMERGED ARG FURNACE 'A & B' (COMBINE STACK)
Stack Attached To				the second
Material of Construction				BAG FILTER
Height of the stack from ground leve	el (Meter)			MILD STEEL PLATE
Stack Diameter	30.0 MTR			
Stack Shape At Top	1.4 MTR			
Type of Fuel	CIRCULAR			
Total Electrical Load (KW)	ELECTRICITY			
Parameter	Unit	Mathed P	The second second second	3.0 MVA & 3.5 MVA
Flue Gas Temperature	Contract of the second second	Method Reference	Limit	Result
	°C	IS:11255: (Part -3):2008	-	98.0
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	8.9
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008		
				39607.13
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	40	38.5

REMARKS: RESULTS ARE AS ABOVE

Stock details

Terms & conditions

- > The use of the report for publication, arbitration or as legal dispute is forbidden.
- > Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
- > This is for information as the party has asked for abova test(s) only

-0 10	- TOTAL	For ULTIMATE ENVIROLYTICAL SOLUTIONS
1 Uninfral		-12-)
2911	100	(mensules)
REVIEWED BY	Constant State	AUTHORIZED SIGNATORY

-End of the test report-----------



HDD-272, Phase III - Near JP Chowk Ring Road No -2, Kabir Nagar, Raipur (C.G.) - 492099 Ph - 0771 - 4027777 I Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

churs & Adams Of Fig. 2 unage	REPORT NO.	UE5/TR/21-22/0868	0
To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA	LAB REF NO. UES/21-22/5T/014443		
	DATE OF SAMPLING 25/10/2021 to 26/10/2021 DATE OF RECEIPT 26/10/2021		0/2021
	DATE OF REPORT	29/10/2021	
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:26/10/2021	End:29/10/2021
Thursday of the state of the st	SAMPLE DETAILS	and the second	Constanting of
Monitoring Far	Stack Emission Monitoring		
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/88, DATED: 24.10.2021		
Sampling Location	5.5 MVA Submerged Arc Furnace 'C'		
Sample Collected By	Laboratory Chemist		
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003		
Sample Quantity/Packing	Thimble: 1 X 1 No., SO:: 30 ml X 1 No. PVC Bottle, NO.: 25 ml X 1 No. PVC Bottle Rubber Bladder: 1 X 1 No.,		

Stack details	And in case of the local division of the loc		and the second se	
Stack Identity		÷	11. 11.	5.5 MVA SUBMERGED ARC FURNACE 'C'
Stack Attached To				BAG FILTER
Material of Construction				MILD STEEL PLATE
Height of the stack from ground leve	l (Meter)			35.0 MTR
Stack Diameter				1.4 MTR
Stack Shape At Top	CIRCULAR			
Type of Fuel	ELECTRICITY			
Total Electrical Load (KW)				5.5 MVA
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	*C	IS:11255: (Part -3):2008	-	104
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	9.6
Total Gas Quantity	Nm³/h	IS :11255: (Part -3):2008	-	42042.37
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	35.9

ANS. RESOLIS AND AS REOVI

Terms & conditions

- > The use of the report for publication, arbitration or as legal dispute is forbidden.
- > Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
- > This is for information as the party has asked for above test(s) only

For ULTIMATE ENVIROLYTICAL SOLUTIONS 2 09110 REVIEWED BY AUTHORIZED SIGNATORY

-----End of the test report-----



HDD-272, Phase III - Near JP Chowk Ring Road No -2, Kabir Nagar, Raipur (C.G.) - 492099 Ph : 0771 - 40277771 Email - ultimatenviro@gmail.com

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Stern & Labert O' The Copland	REPORT NO. UES/TR/21-22/08581			
Το,	LAB REF NO.	UES/21-22/ST/014444		
HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA	DATE OF SAMPLING	25/10/2021 to 26/10	0/2021	
	DATE OF RECEIPT			
	DATE OF REPORT	29/10/2021		
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:26/10/2021	End:29/10/2021	
	SAMPLE DETAILS	Shine and	The Product of the	
Monitoring For	Stack Emission Monitoring			
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/88, DATED: 24.10.2021 5.5 MVA Submerged Arc Furnace 'D'			
Sampling Location				
Sample Collected By	Laboratory Chemist			
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003			
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO _x : 25 ml X 1 No. PVC Bottle Rubber Bladder: 1 X 1 No.,			

TEST REPORT

Stack Identity	5.5 MVA SUBMERGED ARC FURNACE 'D'			
Stack Attached To				BAG FILTER
Material of Construction				MILD STEEL PLATE
Height of the stack from ground leve	l (Meter)			35.0 MTR
Stack Diameter	1.4 MTR			
Stack Shape At Top				
Type of Fuel	CIRCULAR			
Total Electrical Load (KW)	ELECTRICITY			
Parameter	Unit	Method Reference	Contractione and	5.5 MVA
Flue Gas Temperature	and the second sec		Limit	Result
	°C	IS:11255: (Part -3):2008	-	102
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	10.6
Total Gas Quantity	Nm³/h	IS :11255: (Part -3):2008	-	46669.37
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	38.6

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

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For ULTIMATE ENVIROLYTICAL SOLUTIONS 201 102 REVIEWED BY AUTHORIZED SIGNATORY

-----End of the test report-----



HDD-272, Phase III - Near JP Chowk Ring Road No -2, Kabir Nagar, Raipur (C.G.) - 492099 Ph : 0771 - 4027777 I Email : ultimatenviro@gmail.com

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Note: S. A service of the contraction	REPORT NO.	UES/TR/21-22/0868	2
	LAB REF NO. UES/21-22/5T/014445		
HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA	DATE OF SAMPLING 25/10/2021 to 26/10/2021)/2021
	DATE OF RECEIPT		
	DATE OF REPORT	29/10/2021	
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:26/10/2021	End:29/10/2021
化合理器 建立 人名德尔特 计自己分析 法法	SAMPLE DETAILS	August March 1997	Part Internet
Monitoring For	Stack Emission Monitoring		
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/88, DATED: 24.10.2021		
Sampling Location	6 MVA Submerged Arc Furnace 'E'		
Sample Collected By	Laboratory Chemist		
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003		
Sample Quantity/Packing	Thimble: 1 X 1 No., SO2: 30 ml X 1 No. PVC Bottle, NOx: 25 ml X 1 No. PVC Bottl Rubber Bladder: 1 X 1 No.,		

4. C		TEST REPORT		
Stack details				
Stack Identity		8	1.00	6 MVA SUBMERGED ARC FURNACE 'E'
Stack Attached To Material of Construction				BAG FILTER
Height of the stack from ground leve	1 /8 4 - 4 - 4			MILD STEEL PLATE
Stack Diameter	40.0 MTR			
Stack Shape At Top	2.0 MTR			
Type of Fuel	CIRCULAR			
Total Electrical Load (KW)	ELECTRICITY			
Parameter	C THE REPORT			6.0 MVA
	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	IS:11255: (Part -3):2008	-	114
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	10.2
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008		88841.14
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	38.6

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-----End of the test report-----



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Fame & Address OF Conference	REPORT NO. UES/TR/21-22/08683			
то,	LAB REF NO. UES/21-22/ST/014446			
HIRA POWER AND STEEL LTD.	DATE OF SAMPLING 25/10/2021 to 26/10/2021 DATE OF RECEIPT 26/10/2021			
KHASRA NO.: 511/1, 512/2,				
URLA INDUSTRIAL AREA	DATE OF REPORT	29/10/2021		
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:26/10/2021	End:29/10/2021	
and the second sec	SAMPLE DETAILS	AND STREET, INSING	A PROPERTY OF	
Monitoring Far	Stack Emission Monitoring			
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/88, DATED: 24.10.2021			
Sampling Location	CLU Converter & Thermite (Combine Stack)			
Sample Collected By	Laboratory Chemist			
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003			
Sample Quantity/Packing	Thimble: 1 X 1 No., SO2: 30 ml X 1 No. PVC Bottle, NOx: 25 ml X 1 No. PVC Bottle Rubber Bladder: 1 X 1 No.,			

TEST REPORT

Stack details

Stack Identity	CLU CONVERTER & THERMITI (COMBINE STACK)			
Stack Attached To	BAG FILTER			
Material of Construction				MILD STEEL PLATE
Height of the stack from ground leve	l (Meter)			35.0 MTR
Stack Diameter	2.295 MTR			
Stack Shape At Top	CIRCULAR			
Type of Fuel	ELECTRICITY			
Total Electrical Load (KW)	650 KW			
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	*C	IS:11255: (Part -3):2008	-	75
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008		6.2
Total Gas Quantity	Nm³/h	IS :11255: (Part -3):2008	-	79070.9
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	40	29.5

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To,	REPORT NO.	UES/TR/21-22/08684		
	LAB REF NO.	AMPLING 25/10/2021 to 26/10/2021		
HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003	DATE OF SAMPLING			
	DATE OF RECEIPT			
	DATE OF REPORT	29/10/2021		
	DATE OF ANALYSIS	Start:26/10/2021 End:29/10		
	SAMPLE DETAILS	A PROPERTY OF	Selfine of the	
Monitoring For	Stack Emission Monitoring			
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/88, DATED: 24.10.2021		21	
Sampling Location	20 MW AFBC			
Sample Collected By	Laboratory Chemist			
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003			
Sample Quantity/Packing	Thimble: 1 X 1 No., SO2: 30 ml X 1 No. PVC Bottle, NOx: 25 ml X 1 No. PVC Bottle Rubber Bladder: 1 X 1 No.,			

		TEST REPORT		
Stack details		the second s		and the second se
Stack Identity				
Stack Attached To				20 MW AFBC
Material of Construction				ESP
Height of the stack from ground leve	el (Meter)			RCC
Stack Diameter				73.0 MTR
Stack Shape At Top				2.83 MTR
Type of Fuel		CIRCULAR		
Total Electrical Load (KW)	COAL			
Parameter	Unit	Method Reference	11.17.12.10.12.2018 to	20 KW
Flue Gas Temperature	*C	the second se	Limit	Result
Flue Gas Velocity	M/s	IS:11255: (Part -3):2008	-	124
Total Gas Quantity	Nm ³ /h	IS :11255 :(Part -3):2008	-	18.6
Sulphur Dioxide (SO ₂)		IS :11255: (Part -3):2008	-	316149.02
Oxides of Nitrogen (NOx)	mg/Nm ³	IS 11255 (Part 2):1985, RA 2003	600	298.6
oxides of Mitrogen (NOX)	mg/Nm ³	IS 11255 (Part 7):2005, RA 2012	300	128.4
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	42.8
Carbon Monoxide (CO)	mg/ Nm ^s	IS 13270		
Hg	mg/Nm ³	USEPA Method No. 29	0.03	4.3
		000114100100140,29	0.03	N.D.

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Hans I Robinski W The Contenter	REPORT NO.	UES/TR/21-22/0920	8
To,	LAB REF NO. UES/21-22/ST/015075		
HIRA POWER AND STEEL LTD.	DATE OF SAMPLING 25/11/2021 to 26/11/2021		
KHASRA NO.: 511/1, 512/2,	DATE OF RECEIPT 26/11/2021		
URLA INDUSTRIAL AREA	DATE OF REPORT	29/11/2021	
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:26/11/2021	End:29/11/2021
and the second second second	SAMPLE DETAILS	formative services	A CONTRACTOR OF A
Monitoring For	Stack Emission Monitoring		
Customer Ref. No. & Date	P.O. NO. 11/HP5L U102/PO/21-22/88, DATED: 24.10.2021		
Sampling Location	3.0 & 3.6 MVA Submerged	Arc Furnace 'A & B' (Combin	e Stack)
Sample Collected By	Laboratory Chemist		to send at \$1.00 dir having press in a second
Sampling Procedure	15 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003		
Sample Quantity/Packing	Thimble: 1 X 1 No., SO2: 30 ml X 1 No. PVC Bottle, NOx: 25 ml X 1 No. PVC Bottl Rubber Bladder: 1 X 1 No.,		

TEST REPORT

Stack Identity		+		3.0 & 3.6 MVA SUBMERGED ARC
				FURNACE 'A & B' (COMBINE STACK)
Stack Attached To				BAG FILTER
Material of Construction	MILD STEEL PLATE			
Height of the stack from ground leve	l (Meter)			30.0 MTR
Stack Diameter	1.4 MTR			
Stack Shape At Top	CIRCULAR			
Type of Fuel	ELECTRICITY			
Total Electrical Load (KW)	3.0 MVA & 3.6 MVA			
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	*C	IS:11255: (Part -3):2008	-	105
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	7.6
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	33195.49
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	38.9

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teatte & Addams & the Sultaneer	REPORT NO.	UES/TR/21-22/0920	9		
то,	LAB REF NO.	LAB REF NO. UES/21-22/ST/015076			
HIRA POWER AND STEEL LTD.	DATE OF SAMPLING	1/2021			
KHASRA NO.: 511/1, 512/2,	DATE OF RECEIPT 26/11/2021				
URLA INDUSTRIAL AREA	DATE OF REPORT	29/11/2021			
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:26/11/2021	End:29/11/2021		
	SAMPLE DETAILS	and the second	Manager Collins		
Monitoring For	Stack Emission Monitoring				
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/88, DATED: 24.10.2021				
Sampling Location	5.5 MVA Submerged Arc Fu	irnace 'C'			
Sample Collected By	Laboratory Chemist				
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003				
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO _X : 25 ml X 1 No. PVC Bottl Rubber Bladder: 1 X 1 No.,				

TEST REPORT

Stack Identity		5.5 MVA SUBMERGED ARC FURNACE 'C'		
Stack Attached To		BAG FILTER		
Material of Construction	MILD STEEL PLATE			
Height of the stack from ground leve	35.0 MTR			
Stack Diameter	1.4 MTR			
Stack Shape At Top	CIRCULAR			
Type of Fuel	ELECTRICITY			
Total Electrical Load (KW)	5.5 MVA			
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	*C	IS:11255: (Part -3):2008	-	98
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	8.2
Total Gas Quantity	Nm³/h	IS :11255: (Part -3):2008	-	36491.97
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	39.5

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Direct & Advised Of The Condense	REPORT NO.	UES/TR/21-22/0921	0	
То,	LAB REF NO. UES/21-22/ST/015077			
HIRA POWER AND STEEL LTD.	DATE OF SAMPLING	25/11/2021 to 26/11	/2021	
(HASRA NO.: 511/1, 512/2,	DATE OF RECEIPT 26/11/2021			
URLA INDUSTRIAL AREA	DATE OF REPORT	29/11/2021		
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:26/11/2021	End:29/11/2021	
A PHILE PARTY AND A PHILE PARTY AND A PART	SAMPLE DETAILS	BANDIE THE OWNER	Scotting time in the	
Monitoring For	Stack Emission Monitoring			
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/88, DATED: 24.10.2021			
Sampling Location	5.5 MVA Submerged Arc Fu			
Sample Collected By	Laboratory Chemist			
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003			
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO ₈ : 25 ml X 1 No. PVC Bott Rubber Bladder: 1 X 1 No.,			

		TEST REPORT		
Stack details				
Stack Identity	8	÷		5.5 MVA SUBMERGED ARC FURNACE 'D'
Stack Attached To				BAG FILTER
Material of Construction				MILD STEEL PLATE
Height of the stack from ground leve	el (Meter)			35.0 MTR
Stack Diameter	1.4 MTR			
Stack Shape At Top	CIRCULAR			
Type of Fuel	ELECTRICITY			
Total Electrical Load (KW)				5.5 MVA
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	*C	IS:11255: (Part -3):2008	-	116
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	9.4
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	39896.57 37.8

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-----End of the test report-----End of the test report-----



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North & Standard Stand Levie and	REPORT NO.	UES/TR/21-22/0921	1	
то,	LAB REF NO. UE5/21-22/		/ST/015078	
HIRA POWER AND STEEL LTD.	DATE OF SAMPLING	25/11/2021 to 26/11/2021		
KHASRA NO.: 511/1, 512/2,	DATE OF RECEIPT	26/11/2021		
URLA INDUSTRIAL AREA	DATE OF REPORT	29/11/2021		
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:26/11/2021	End:29/11/2021	
CONFERENCE STREET	SAMPLE DETAILS	and the second second	ADURISZES 1	
Monitoring For	Stack Emission Monitoring			
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/88, DATED: 24.10.2021			
Sampling Location	6 MVA Submerged Arc Fur	nace 'E'		
Sample Collected By	Laboratory Chemist	And that had been taken to be a set to be		
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmer 2012, IS 5182 (Part 10) :2003			
Sample Quantity/Packing	Thimble: 1 X 1 No., SOz: 30 ml X 1 No. PVC Bottle, NOx: 25 ml X 1 No. PVC Bottle Rubber Bladder: 1 X 1 No.,			

TEST REPORT

Stack Identity		×.		6 MVA SUBMERGED ARC FURNACE 'E'
Stack Attached To	BAG FILTER			
Material of Construction	MILD STEEL PLATE			
Height of the stack from ground leve	40.0 MTR			
Stack Diameter	2.0 MTR			
Stack Shape At Top	CIRCULAR			
Type of Fuel	ELECTRICITY			
Total Electrical Load (KW)	6.0 MVA			
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	*C	IS:11255: (Part -3):2008	-	108
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	9.6
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	84931.97
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	39.4

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Norme de Boliveire del Year Presidentes To,	REPORT NO.	UES/TR/21-22/0921	2	
	LAB REF NO.	UE5/21-22/5T/015079		
HIRA POWER AND STEEL LTD.	DATE OF SAMPLING	25/11/2021 to 26/11	1/2021	
KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA	DATE OF RECEIPT			
	DATE OF REPORT			
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:26/11/2021	End:29/11/2021	
Strate and State and State and State and	SAMPLE DETAILS	The Assessment of the	C. C	
Monitoring For	Stack Emission Monitoring			
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/88, DATED: 24.10.2021			
Sampling Location	CLU Converter & Thermite			
Sample Collected By	Laboratory Chemist			
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003			
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO ₂ : 25 ml X 1 No. PVC Bottl Rubber Bladder: 1 X 1 No.,			

Т	ES	Т	R	E	P	0	R	Г
	_	_	_	_	_	_		-

Stack Identity			10	CLU CONVERTER & THERMITE
Stack Attached To				(COMBINE STACK)
Material of Construction	BAG FILTER			
Height of the stack from ground leve	MILD STEEL PLATE			
Stack Diameter	35.0 MTR			
Stack Shape At Top	2.295 MTR			
Type of Fuel	CIRCULAR			
Total Electrical Load (KW)	ELECTRICITY			
Parameter	11			650 KW
	Unit	Method Reference	Limit	Result
Flue Gas Temperature	*C	IS:11255: (Part -3):2008	-	78
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	8.4
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	
Total Pasticulate Mana (TRAD)		IS :11255 :(Part -1):1985, RA		106212.70
Total Particulate Matter (TPM)	mg/Nm ³	2003	40	28.5

REMARKS: RESULTS ARE AS ABOVE

Stack dotaile

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-----End of the test report-----



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Morro di Alfonda di Construccio	REPORT NO.	UES/TR/21-22/0921	3	
То,	LAB REF NO.	30		
HIRA POWER AND STEEL LTD.	DATE OF SAMPLING	25/11/2021 to 26/11/2021		
KHASRA NO.: 511/1, 512/2,	DATE OF RECEIPT	26/11/2021		
URLA INDUSTRIAL AREA	DATE OF REPORT	29/11/2021		
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:26/11/2021	End:29/11/2021	
the same little and the state of the same	SAMPLE DETAILS	THE REAL PROPERTY.	en and the El	
Monitoring For	Stack Emission Monitoring			
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/88, DATED: 24.10.2021			
Sampling Location	20 MW AFBC			
Sample Collected By	Laboratory Chemist			
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003			
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO ₄ : 25 ml X 1 No. PVC Bott Rubber Bladder: 1 X 1 No.,			

		TEST REPORT		
Stack details				
Stack Identity				20 MW AFBC
Stack Attached To				ESP
Material of Construction				RCC
Height of the stack from ground leve	l (Meter)			73.0 MTR
Stack Diameter				2.83 MTR
Stack Shape At Top	CIRCULAR			
Type of Fuel	COAL			
Total Electrical Load (KW)	20 KW			
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	*C	IS:11255: (Part -3):2008	-	120
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	19.4
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	333103.03
Sulphur Dioxide (SO ₂)	mg/Nm ³	IS 11255 (Part 2):1985, RA 2003	600	282.4
Oxides of Nitrogen (NOx)	mg/Nm ³	IS 11255 (Part 7):2005, RA 2012	300	110.6
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	38.6
Carbon Monoxide (CO)	mg/ Nm ³	IS 13270	-	4.5
Hg	mg/ Nm ³	USEPA Method No. 29	0.03	N.D.

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Name 7. Solices 26 Les Castenies	REPORT NO.	UES/TR/21-22/0930	2	
Το,	LAB REF NO.	LAB REF NO. UES/21-22/5T/015169 DATE OF SAMPLING 25/12/2021 to 26/12/2021 DATE OF RECEIPT 26/12/2021		
HIRA POWER AND STEEL LTD.	DATE OF SAMPLING			
KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA	DATE OF RECEIPT			
	DATE OF REPORT			
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:26/12/2021	End:29/12/2021	
Contraction of the second second	SAMPLE DETAILS	Hanith Ballin I I	and the second	
Monitoring For	Stack Emission Monitoring			
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/88, DATED: 24.10.2021			
Sampling Location	3.0 & 3.6 MVA Submerged			
Sample Collected By	Laboratory Chemist			
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003			
Sample Quantity/Packing	Thimble: 1 X 1 No., SO2: 30 ml X 1 No. PVC Bottle, NOx: 25 ml X 1 No. PVC Bottle Rubber Bladder: 1 X 1 No.,			

Т	E	S	Т	R	E	P	0	R	Т
-	_	*****	-	_	_	_	-		

Stack Identity	8	e 2		3.0 & 3.6 MVA SUBMERGED ARC
Stack Attached To				FURNACE 'A & B' (COMBINE STACK)
Material of Construction				BAG FILTER
Height of the stack from ground leve	(Mator)			MILD STEEL PLATE
Stack Diameter	in (interest)			30.0 MTR
Stack Shape At Top				1.4 MTR
Type of Fuel	CIRCULAR			
Total Electrical Load (KW)				ELECTRICITY
and the second se				3.0 MVA & 3.6 MVA
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	IS:11255: (Part -3):2008	-	92
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	8.2
Total Gas Quantity	Nm³/h	IS :11255: (Part -3):2008	-	37091.83
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	42.2

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Stack details

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Alasse A. Lifegens of The Guillande	REPORT NO.	UES/TR/21-22/0930	3
то,	LAB REF NO. UES/21-22/ST/015170		
HIRA POWER AND STEEL LTD.	DATE OF SAMPLING	25/12/2021 to 26/12	2/2021
KHASRA NO.: 511/1, 512/2,	DATE OF RECEIPT	26/12/2021	
URLA INDUSTRIAL AREA	DATE OF REPORT	29/12/2021	
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:26/12/2021	End:29/12/2021
and the second states of the second states of the	SAMPLE DETAILS	and States	and a state of the state
Monitoring For	Stack Emission Monitoring		
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/88, DATED: 24.10.2021		
Sampling Location	5.5 MVA Submerged Arc Fu	irnace 'C'	
Sample Collected By	Laboratory Chemist		
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003		
Sample Quantity/Packing	Thimble: 1 X 1 No., SO2: 30 ml X 1 No. PVC Bottle, NOx: 25 ml X 1 No. PVC Bottle Rubber Bladder: 1 X 1 No.,		

TEST REPORT							
Stack details							
Stack Identity	÷			5.5 MVA SUBMERGED ARC FURNACE 'C'			
Stack Attached To				BAG FILTER			
Material of Construction	_			MILD STEEL PLATE			
Height of the stack from ground leve	l (Meter)			35.0 MTR			
Stack Diameter	1.4 MTR						
Stack Shape At Top	CIRCULAR						
Type of Fuel				ELECTRICITY			
Total Electrical Load (KW)				5.5 MVA			
Parameter	Unit	Method Reference	Limit	Result			
Flue Gas Temperature	*C	IS:11255: (Part -3):2008	-	102			
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	9.4			
Total Gas Quantity	Nm³/h	IS :11255: (Part -3):2008	-	41386.04			
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	38.7			

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0-2911-1	1334	29/12/21
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tooline it defined drifter Colleman	REPORT NO.	UES/TR/21-22/0930	4	
To,	LAB REF NO. UES/21-22/ST/015171 DATE OF SAMPLING 25/12/2021 to 26/12/2021 DATE OF RECEIPT 26/12/2021			
HIRA POWER AND STEEL LTD.				
KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA				
	DATE OF REPORT	29/12/2021		
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:26/12/2021	End:29/12/2021	
HALL AND THE CALL STREET AND A DESCRIPTION OF THE	SAMPLE DETAILS	Contraction of the	de la	
Monitoring For	Stack Emission Monitoring			
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/88, DATED: 24.10.2021			
Sampling Location	5.5 MVA Submerged Arc Fu		107.	
Sample Collected By	Laboratory Chemist			
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003			
Sample Quantity/Packing	Thimble: 1 X 1 No., SO2: 30 ml X 1 No. PVC Bottle, NOx: 25 ml X 1 No. PVC Bottl Rubber Bladder: 1 X 1 No.,			

and the second se		TEST REPORT		
Stack details				
Stack Identity				5.5 MVA SUBMERGED ARC FURNACE 'D'
Stack Attached To Material of Construction				BAG FILTER
				MILD STEEL PLATE
Height of the stack from ground leve Stack Diameter	el (Meter)			35.0 MTR
	1.4 MTR			
Stack Shape At Top Type of Fuel	CIRCULAR			
Total Electrical Load (KW)				ELECTRICITY
	Contract Press	1 This place in the second second		5.5 MVA
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	*C	IS:11255: (Part -3):2008	-	108
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	10.2
Total Gas Quantity	Nm³/h	IS :11255: (Part -3):2008	-	44201.04
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	36.5

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FORMAS AND AN INC. Sectorian	REPORT NO.	UES/TR/21-22/0930	5
То,	LAB REF NO. UES/21-22/ST/015172		
HIRA POWER AND STEEL LTD.	DATE OF SAMPLING	25/12/2021 to 25/12	2/2021
KHASRA NO.: 511/1, 512/2,	DATE OF RECEIPT	26/12/2021	
URLA INDUSTRIAL AREA	DATE OF REPORT	29/12/2021	
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:26/12/2021	End:29/12/2021
the second se	SAMPLE DETAILS	hand a state of the	IN CONTRACTOR
Monitoring For	Stack Emission Monitoring		
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/88, DATED: 24.10.2021		
Sampling Location	6 MVA Submerged Arc Furr	nace 'E'	
Sample Collected By	Laboratory Chemist		
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003		
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO ₈ : 25 ml X 1 No. PVC Bottle Rubber Bladder: 1 X 1 No.,		

TEST REPORT							
Stack details							
Stack Identity		8		6 MVA SUBMERGED ARC FURNACE 'E'			
Stack Attached To				BAG FILTER			
Material of Construction				MILD STEEL PLATE			
Height of the stack from ground leve	40.0 MTR						
Stack Diameter	2.0 MTR						
Stack Shape At Top	CIRCULAR						
Type of Fuel				ELECTRICITY			
Total Electrical Load (KW)				6.0 MVA			
Parameter	Unit	Method Reference	Limit	Result			
Flue Gas Temperature	*C	IS:11255: (Part -3):2008	-	110			
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	10.8			
Total Gas Quantity	Nm³/h	IS :11255: (Part -3):2008	-	95049.51			
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	38.8			

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Hast 2 Address of the last same	REPORT NO.	UES/TR/21-22/0930	6	
	LAB REF NO.	UES/21-22/ST/015173 25/12/2021 to 26/12/2021		
HIRA POWER AND STEEL LTD.	DATE OF SAMPLING			
KHASRA NO.: 511/1, 512/2,	DATE OF RECEIPT	26/12/2021		
URLA INDUSTRIAL AREA	DATE OF REPORT	29/12/2021		
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:26/12/2021	End:29/12/2021	
	SAMPLE DETAILS	1.5 mm - 1.6 mm		
Monitoring For	Stack Emission Monitoring			
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO			
Sampling Location	CLU Converter & Thermite (21	
Sample Collected By	Laboratory Chemist	Containe Stacky		
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003			
Sample Quantity/Packing	Thimble: 1 X 1 No., SO2: 30 ml X 1 No. PVC Bottle, NOx: 25 ml X 1 No. PVC Bottle Rubber Bladder: 1 X 1 No.,			

TEST REPORT

an entre service s		and the second sec		
Stack Identity		*	÷	CLU CONVERTER & THERMITE
Stack Attached To	(COMBINE STACK)			
Material of Construction	BAG FILTER			
Height of the stack from ground leve	MILD STEEL PLATE			
Stack Diameter	35.0 MTR			
Stack Shape At Top	2.295 MTR			
Type of Fuel	CIRCULAR			
Total Electrical Load (KW)	ELECTRICITY			
Parameter	Unit	Mathed Def		650 KW
Flue Gas Temperature	°C	Method Reference	Limit	Result
Flue Gas Velocity	M/s	IS:11255: (Part -3):2008	-	82
Total Gas Quantity		IS :11255 :(Part -3):2008	-	7.6
rotal das quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	93694.77
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	40	29.9

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Hannid Address & Ter (Address)	REPORT NO.	REPORT NO. UES/TR/21-22/09307			
То,	LAB REF NO. UE5/21-22/ST/015174				
HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA	DATE OF SAMPLING 25/12/2021 to 26/12/2021 DATE OF RECEIPT 26/12/2021				
				DATE OF REPORT	29/12/2021
	RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start:26/12/2021	End:29/12/2021	
	SAMPLE DETAILS		1		
Monitoring For	Stack Emission Monitoring				
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/88, DATED: 24.10.2021 20 MW AFBC				
Sampling Location					
Sample Collected By	Laboratory Chemist				
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffir 2012, IS 5182 (Part 10) :2003				
Sample Quantity/Packing	Thimble: 1 X 1 No., SO2: 30 ml X 1 No. PVC Bottle, NOx: 25 ml X 1 No. PVC Be Rubber Bladder: 1 X 1 No.,				

		TEST REPORT		
Stack details				and the second second second
Stack Identity				20 MW AFBC
Stack Attached To				ESP
Material of Construction				RCC
Height of the stack from ground leve	el (Meter)			73.0 MTR
Stack Diameter	2			2.83 MTR
Stack Shape At Top				CIRCULAR
Type of Fuel	COAL			
Total Electrical Load (KW)	20 KW			
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	"С	IS:11255: (Part -3):2008	-	118
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	20.8
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	358968.20
Sulphur Dioxide (SO ₂)	mg/Nm ³	IS 11255 (Part 2):1985, RA 2003	600	288.8
Oxides of Nitrogen (NOx)	mg/Nm ³	IS 11255 (Part 7):2005, RA 2012	300	124.2
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	46.4
Carbon Monoxide (CO)	mg/Nm ³	IS 13270	-	4.1
Hg	mg/Nm ³	USEPA Method No. 29	0.03	N.D.

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Nor a S Address S. The "softense" To,	REPORT NO.	REPORT NO. UE5/TR/21-22/09400		
	LAB REF NO. UES/21-22/ST/015270 DATE OF SAMPLING 24/01/2022 to 25/01/2022			
HIRA POWER AND STEEL LTD.				
KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003	DATE OF RECEIPT			
	DATE OF REPORT	29/01/2022		
	DATE OF ANALYSIS	Start: 25/01/2022	End: 29/01/2022	
	SAMPLE DETAILS			
Monitoring For	Stack Emission Monitoring			
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO	/21-22/88, DATED: 24 10 20	21	
Sampling Location				
Sample Collected By	3.0 & 3.6 MVA Submerged Arc Furnace 'A & B' (Combine Stack) Laboratory Chemist IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003			
Sampling Procedure				
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO ₄ : 25 ml X 1 No. PVC Bottle Rubber Bladder: 1 X 1 No.,			

TEST REPORT

Stack details			and the balance	
Stack Identity				3.0 & 3.6 MVA SUBMERGED ARC
Stack Attached To				FURNACE 'A & B' (COMBINE STACK)
Material of Construction		the second se		BAG FILTER
Height of the stack from ground leve	(Matarl			MILD STEEL PLATE
Stack Diameter	30.0 MTR			
Stack Shape At Top	1.4 MTR			
Type of Fuel	CIRCULAR			
Total Electrical Load (KW)	ELECTRICITY			
Parameter				3.0 MVA & 3.6 MVA
the second se	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	IS:11255: (Part -3):2008	-	96
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	and the second se
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	9.4
		IS :11255 :(Part -1):1985, RA		42058.99
Total Particulate Matter (TPM)	mg/Nm ³	2003	50	37.1

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Stanio A. Address, MCThe Contessors	REPORT NO.	UES/TR/21-22/0940	1	
То,	LAB REF NO. UES/21-22/ST/015271			
HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA	DATE OF SAMPLING			
	DATE OF RECEIPT			
	DATE OF REPORT			
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start: 25/01/2022	End: 29/01/2022	
The sector of th	SAMPLE DETAILS	THE STATE	Sinte Sinte	
Monitoring For	Stack Emission Monitoring	and a second second second second	and the second se	
Customer Ref. No. & Date *	P.O. NO. 11/HPSL U102/PO/21-22/88, DATED: 24.10.2021 5.5 MVA Submerged Arc Furnace 'C'			
Sampling Location				
Sample Collected By	Laboratory Chemist			
Sampling Procedure	IS 11255 Part 1,2:1985 Reaf 2012, IS 5182 (Part 10) :200	firmed 2009; Part 3:2008, Part	art 7:2005 Reaffirmed	
Sample Quantity/Packing	Thimble: 1 X 1 No., SO2: 30 ml X 1 No. PVC Bottle, NO4: 25 ml X 1 No. PVC Bo Rubber Bladder: 1 X 1 No.,			

		TEST REPORT		
Stack details				
Stack Identity				5.5 MVA SUBMERGED ARG
Stack Attached To				BAG FILTER
Material of Construction				MILD STEEL PLATE
Height of the stack from ground leve	35.0 MTR			
Stack Diameter	1.4 MTR			
Stack Shape At Top	CIRCULAR			
Type of Fuel				ELECTRICITY
Total Electrical Load (KW)				5.5 MVA
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	*C	IS:11255: (Part -3):2008	-	103
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	9.6
Total Gas Quantity	Nm³/h	IS :11255: (Part -3):2008	-	42154.19
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	36.9

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Former de alater un de Tra Contante To,	REPORT NO.	UES/TR/21-22/0940	2	
HIRA POWER AND STEEL LTD.	LAB REF NO. UE5/21-22/ST/015272			
KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003	DATE OF SAMPLING 24/01/2022 to 25/		1/2022	
	DATE OF RECEIPT	25/01/2022		
	DATE OF REPORT	29/01/2022		
	DATE OF ANALYSIS	Start: 25/01/2022	End: 29/01/2022	
	SAMPLE DETAILS	The second second	21101 20101/2022	
Monitoring For	Stack Emission Monitoring		A St. AND BURN	
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO	/71.77/89 DATED 34 49 39		
Sampling Location	5.5 MVA Submerged Arc Fu		21	
Sample Collected By	Laboratory Chemist	mace D		
Sampling Procedure	IS 11255 Part 1,2:1985 Reaf 2012, IS 5182 (Part 10) :2003	firmed 2009; Part 3:2008, Pa	rt 7:2005 Reaffirmed	
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO ₄ : 25 ml X 1 No. PVC Bo Rubber Bladder: 1 X 1 No.,		5 ml X 1 No. PVC Bottle	

TEST REPORT Stack details Stack Identity 5.5 MVA SUBMERGED ARC Stack Attached To FURNACE 'D' **BAG FILTER** Material of Construction MILD STEEL PLATE Height of the stack from ground level (Meter) Stack Diameter 35.0 MTR Stack Shape At Top 1.4 MTR Type of Fuel CIRCULAR Total Electrical Load (KW) ELECTRICITY 5.5 MVA Parameter Unit Method Reference Limit Flue Gas Temperature Result *C IS:11255: (Part -3):2008 Flue Gas Velocity 112 M/s IS :11255 :(Part -3):2008 -**Total Gas Quantity** 10.9 Nm3/h IS :11255: (Part -3):2008 -46743.70 IS :11255 :(Part -1):1985, RA Total Particulate Matter (TPM) mg/Nm³ 50 2003 38.9

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-End of the test report---



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de no à debris de la contenter To,	REPORT NO. UES/TR/21-22/09403			
	LAB REF NO.	UES/21-22/ST/015273		
HIRA POWER AND STEEL LTD.	DATE OF SAMPLING 24/01/2022 to 25/01/2022 DATE OF RECEIPT 25/01/2022		/2022	
KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003				
	DATE OF REPORT	29/01/2022		
	DATE OF ANALYSIS	Start: 25/01/2022	End: 29/01/2022	
	SAMPLE DETAILS	The Strate State State		
Monitoring For	Stack Emission Monitoring			
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO	/21-22/88 DATED 24 10 10	21	
Sampling Location	6 MVA Submerged Arc Furn		21	
Sample Collected By	Laboratory Chemist			
Sampling Procedure	IS 11255 Part 1,2:1985 Reaf 2012, IS 5182 (Part 10) :2003	firmed 2009; Part 3:2008, Pa	rt 7:2005 Reaffirmed	
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO ₄ : 25 ml X 1 No. PVC Bot Rubber Bladder: 1 X 1 No.,			

TEST REPORT Stack details Stack Identity **6 MVA SUBMERGED ARC** FURNACE 'E' Stack Attached To BAG FILTER Material of Construction MILD STEEL PLATE Height of the stack from ground level (Meter) Stack Diameter 40.0 MTR Stack Shape At Top 2.0 MTR CIRCULAR Type of Fuel Total Electrical Load (KW) ELECTRICITY 6.0 MVA Parameter Unit Method Reference Limit Result Flue Gas Temperature °C IS:11255: (Part -3):2008 108 Flue Gas Velocity M/s IS :11255 :(Part -3):2008 **Total Gas Quantity** 10.6 Nm3/h IS :11255: (Part -3):2008 -93779.05 IS :11255 :(Part -1):1985, RA Total Particulate Matter (TPM) mg/Nm³ 50 2003 39.5

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Moste di fidellera dil Des Lordennes	REPORT NO.	UES/TR/21-22/0940	4	
To,	LAB REF NO.	UES/21-22/ST/015274		
HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003	DATE OF SAMPLING	NG 24/01/2022 to 25/01/2022		
	DATE OF RECEIPT			
	DATE OF REPORT	29/01/2022		
	DATE OF ANALYSIS	Start: 25/01/2022	End: 29/01/2022	
	SAMPLE DETAILS			
Monitoring For	Stack Emission Monitoring			
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/88, DATED: 24.10.2021			
Sampling Location	CLU Converter & Thermite	and the local state of the second state of the		
Sample Collected By	Laboratory Chemist IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003			
Sampling Procedure				
Sample Quantity/Packing	Thimble: 1 X 1 No., SO2: 30 ml X 1 No. PVC Bottle, NOx: 25 ml X 1 No. PVC Bot Rubber Bladder: 1 X 1 No.,			

		TEST REPORT		and the lot of the second s
Stack details				
Stack Identity Stack Attached To	- E			CLU CONVERTER & THERMITE (COMBINE STACK)
Material of Construction				BAG FILTER
Height of the stack from ground leve	1/11	the second s		MILD STEEL PLATE
Stack Diameter	ei (meter)			35.0 MTR
Stack Shape At Top	2.295 MTR			
Type of Fuel	CIRCULAR			
Total Electrical Load (KW)				ELECTRICITY
Parameter	Unit	Mathed D.C.	For a provent	650 KW
Flue Gas Temperature		Method Reference	Limit	Result
	°C	IS:11255: (Part -3):2008	-	86
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	8.2
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	101373.32
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	40	28.5

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To,	REPORT NO.	UES/TR/21-22/0940	5	
HIRA POWER AND STEEL LTD.	LAB REF NO.	UES/21-22/ST/0152	and the second se	
KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA	DATE OF SAMPLING			
	DATE OF RECEIPT			
	DATE OF REPORT	29/01/2022		
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start: 25/01/2022	End: 29/01/2022	
	AMPLE DETAILS	The second se		
Monitoring For	Stack Emission Monitoring			
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/58, DATED: 24.10.2021			
Sampling Location	20 MW AFBC	74.1-12/00, DATED: 24.10.20	21	
Sample Collected By	Laboratory Chemist IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003			
Sampling Procedure				
Sample Quantity/Packing	Thimble: 1 X 1 No., SO3: 30 ml X 1 No. PVC Bottle, NO3: 25 ml X 1 No. PVC Bott Rubber Bladder: 1 X 1 No.,			

		TEST REPORT		
Stack details				
Stack Identity				
Stack Attached To	-			 20 MW AFBC
Material of Construction				ESP
Height of the stack from ground lev	el (Meter)			RCC
Stack Diameter				73.0 MTR
Stack Shape At Top				2.83 MTR
Type of Fuel				CIRCULAR
Total Electrical Load (KW)				COAL
Parameter	Unit	Method Reference		20 KW
Flue Gas Temperature	°C	IS:11255: (Part -3):2008	Limit	Result
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008		122
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	19.5
Sulphur Dioxide (SO ₂)	mg/Nm ³		-	333124.76
Oxides of Nitrogen (NOx)	mg/Nm ³	IS 11255 (Part 2):1985, RA 2003	600	277.9
		IS 11255 (Part 7):2005, RA 2012	300	128.8
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	45.8
Carbon Monoxide (CO)	mg/Nm ³	IS 13270		
lg	mg/Nm ³	USEPA Method No. 29	-	4.8
EMARKS: RESULTS ARE AS ABOVE		- 00cl A Method No. 29	0.03	N.D.

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Prime & Mathematical Institutioner	REPORT NO.	UES/TR/21-22/09471	8	
То,	LAB REF NO.	UE5/21-22/ST/015354		
HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003	DATE OF SAMPLING	24/02/2022 to 25/02/2022		
	DATE OF RECEIPT	25/02/2022		
	DATE OF REPORT	28/02/2022		
	DATE OF ANALYSIS	Start: 25/02/2022 End: 28/02/20		
and the second	SAMPLE DETAILS		Carlos a	
Monitoring For	Stack Emission Monitoring P.O. NO. 11/HPSL U102/PO/21-22/88, DATED: 24.10.2021			
Customer Ref. No. & Date				
Sampling Location	3.0 & 3.6 MVA Submerged Arc Furnace 'A & B' (Combine Stack)			
Sample Collected By	Laboratory Chemist			
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003			
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO ₈ : 25 ml X 1 No. PVC Bottle Rubber Bladder: 1 X 1 No.,			

т	ES.	ΓR	EP	ο	RT	
	-	-	_	-	_	

Stack	details
SLACK	decails

Stack Identity			e	3.0 & 3.6 MVA SUBMERGED ARC FURNACE 'A & B' (COMBINE STACK)
Stack Attached To	-			BAG FILTER
Material of Construction	MILD STEEL PLATE			
Height of the stack from ground leve Stack Diameter	el (Meter)			30.0 MTR
Stack Shape At Top	1.4 MTR			
Type of Fuel				CIRCULAR
Total Electrical Load (KW)				ELECTRICITY
Parameter		The second secon		3.0 MVA & 3.6 MVA
the second second second by the second s	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	IS:11255: (Part -3):2008	-	94
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	9,1
Total Gas Quantity	Nm³/h	IS :11255: (Part -3):2008	-	40938.57
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	38.5

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To,	REPORT NO.	REPORT NO. UES/TR/21-22/09479	
HIRA POWER AND STEEL LTD.	LAB REF NO.	UE5/21-22/5T/015355	
KHASRA NO.: 511/1, 512/2,	DATE OF SAMPLING	24/02/2022 to 25/02	/2022
	DATE OF RECEIPT	25/02/2022	all the second sec
URLA INDUSTRIAL AREA	DATE OF REPORT	28/02/2022	
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start: 25/02/2022	End: 28/02/2022
	SAMPLE DETAILS		district of the second
Monitoring For	Stack Emission Monitoring		
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/88, DATED: 24.10.2021 5.5 MVA Submerged Arc Furnace 'C'		
Sampling Location			
Sample Collected By	Laboratory Chemist		
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003		
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO ₈ : 25 ml X 1 No. PVC Bottle, Rubber Bladder: 1 X 1 No.,		

TEST REPORT

Stack details

Stack Identity			+	5.5 MVA SUBMERGED ARC
Stack Attached To				FURNACE 'C'
Material of Construction				BAG FILTER
Height of the stack from ground leve	(Meter)			MILD STEEL PLATE
Stack Diameter				35.0 MTR
Stack Shape At Top				1.4 MTR
Type of Fuel	CIRCULAR			
Total Electrical Load (KW)				ELECTRICITY
Parameter	Unit	Method Reference		5.5 MVA
Flue Gas Temperature	°C		Limit	Result
Flue Gas Velocity	M/s	IS:11255: (Part -3):2008	-	102
Total Gas Quantity	a sector and a sector and a sector and a sector	IS :11255 :(Part -3):2008	-	9.8
	Nm ³ /h	IS :11255: (Part -3):2008	-	43147.15
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	37.4

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To,	REPORT NO.	UES/TR/21-22/0948	0
	LAB REF NO. UES/21-22/ST/015356 DATE OF SAMPLING 24/02/2022 to 25/02/2022 DATE OF RECEIPT 25/02/2022		
HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA			
	RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start: 25/02/2022
	SAMPLE DETAILS	and the second se	
Monitoring For	Stack Emission Monitoring P.O. NO. 11/HPSL U102/PO/21-22/85, DATED: 24.10.2021 S.5 MVA Submerged Arc Furnace 'D' Laboratory Chemist IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003 Thimble: 1 X 1 No., SO2: 30 ml X 1 No. PVC Bottle, NOx: 25 ml X 1 No. PVC Bottle, Rubber Bladder: 1 X 1 No.,		
Customer Ref. No. & Date			
Sampling Location			
Sample Collected By			
Sampling Procedure			
Sample Quantity/Packing			

		TEST REPORT		
Stack details				
Stack Identity			÷	5.5 MVA SUBMERGED ARC
Stack Attached To Material of Construction				BAG FILTER
Height of the stack from ground leve	1/1	the second s		MILD STEEL PLATE
Stack Diameter	ei (ivieter)			35.0 MTR
Stack Shape At Top				1.4 MTR
Type of Fuel				CIRCULAR
Total Electrical Load (KW)				ELECTRICITY
Parameter	Unit	Method Reference		5.5 MVA
Flue Gas Temperature	*C		Limit	Result
Flue Gas Velocity		IS:11255: (Part -3):2008	-	114
	M/s	IS :11255 :(Part -3):2008	-	11.0
Total Gas Quantity	Nm³/h	IS :11255: (Part -3):2008	-	46928.76
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	35.5

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Model 2 Contract Of Tex southers	REPORT NO.	REPORT NO. UES/TR/21-22/09481		
	LAB REF NO.	UES/21-22/ST/015357		
HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2,	DATE OF SAMPLING	24/02/2022 to 25/02/2022		
	DATE OF RECEIPT	25/02/2022	(i=1,	
URLA INDUSTRIAL AREA	DATE OF REPORT	28/02/2022		
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start: 25/02/2022 End: 28/02/20		
	SAMPLE DETAILS	A REAL PROPERTY	ALC: NO.	
Monitaring For	Stack Emission Monitoring			
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/88, DATED: 24.10.2021			
Sampling Location	6 MVA Submerged Arc Furnace 'E'			
Sample Collected By	Laboratory Chemist			
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003			
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO ₂ : 25 ml X 1 No. PVC Bottle, Rubber Bladder: 1 X 1 No.,			

TEST REPORT

Stack details

Stack Identity	7	•		6 MVA SUBMERGED ARC FURNACE 'E'
Stack Attached To				BAG FILTER
Material of Construction				MILD STEEL PLATE
Height of the stack from ground leve	l (Meter)			40.0 MTR
Stack Diameter				2.0 MTR
Stack Shape At Top	CIRCULAR			
Type of Fuel	ELECTRICITY			
Total Electrical Load (KW)				6.0 MVA
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	*C	IS:11255: (Part -3):2008	-	
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	110
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008		10.4
		the second se		91529.16
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	38.5

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HIRA POWER AND STEEL LTD.	LAB REF NO.	UES/21-22/ST/015356		
	DATE OF SAMPLING 24/02/2022 to 25/02/2022			
KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003	DATE OF RECEIPT 25/02/2022			
	DATE OF REPORT	28/02/2022		
	DATE OF ANALYSIS	Start: 25/02/2022	End: 28/02/2022	
	SAMPLE DETAILS		2001 207 027 2022	
Monitoring For	Stack Emission Monitoring			
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO	(31.32/00 DATED AL 10.00		
Sampling Location	5.5 MVA Submerged Arc Fu		21	
Sample Collected By	Laboratory Chemist	mace //		
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003			
Sample Quantity/Packing	Thimble: 1 X 1 No., SOJ: 30 ml X 1 No. PVC Bottle, NOx: 25 ml X 1 No. PVC Bott Rubber Bladder: 1 X 1 No.,			

TEST REPORT

Stack Identity				5.5 MVA SUBMERGED ARC
Stack Attached To				FURNACE 'D'
Material of Construction				BAG FILTER
Height of the stack from ground leve	el (Meter)			MILD STEEL PLATE
Stack Diameter				35.0 MTR
Stack Shape At Top				1.4 MTR
Type of Fuel				CIRCULAR
Total Electrical Load (KW)				ELECTRICITY
Parameter	Unit	Method Reference	12.00	5.5 MVA
Flue Gas Temperature	*C	I5:11255: (Part -3):2008	Limit	Result
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008		114
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008		11.0
			-	46928.76
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	36.5

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Norma 2 - Alternate Of 71-9 - confirmation	REPORT NO.	UES/TR/21-22/0948	1	
	LAB REF NO.	UES/21-22/ST/015357		
HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2,	DATE OF SAMPLING 24/02/2022 to 25/0 DATE OF RECEIPT 25/02/2022		2/2022	
URLA INDUSTRIAL AREA	DATE OF REPORT	28/02/2022		
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start: 25/02/2022	End: 28/02/2022	
	SAMPLE DETAILS	The second second	all an information	
Monitoring For	Stack Emission Monitoring			
Customer Ref. No. & Date		/21-22/88, DATED: 24.10.20		
Sampling Location	6 MVA Submerged Arc Furn		21	
Sample Collected By	Laboratory Chemist			
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003			
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO ₂ : 25 ml X 1 No. PVC Bottle, Rubber Bladder: 1 X 1 No.,			

TEST REPORT

Stack details

Stack Identity Stack Attached To				6 MVA SUBMERGED ARC FURNACE 'E'
Material of Construction	BAG FILTER			
Height of the stack from ground leve	(Mater)			MILD STEEL PLATE
Stack Diameter	in [interest]			40.0 MTR
Stack Shape At Top	2.0 MTR			
Type of Fuel	CIRCULAR			
Total Electrical Load (KW)				ELECTRICITY
Parameter	Unit	Mathed Defense		6.0 MVA
Flue Gas Temperature	°C	Method Reference	Limit	Result
Flue Gas Velocity		IS:11255: (Part -3):2008	-	110
	M/s	IS :11255 :(Part -3):2008	-	10.4
Total Gas Quantity	Nm³/h	IS :11255: (Part -3):2008	-	91529.16
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	38.5

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Tanes & Adericas d' fac dustriere To,	REPORT NO.	UES/TR/21-22/0948	2	
HIRA POWER AND STEEL LTD.	LAB REF NO.	UES/21-22/ST/015358		
KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003	DATE OF SAMPLING 24/02/2022 to 25/02/202 DATE OF RECEIPT 25/02/2022		2/2022	
	DATE OF REPORT	28/02/2022		
	DATE OF ANALYSIS	Start: 25/02/2022	End: 28/02/2022	
the second se	SAMPLE DETAILS	A HARRING CONTRACTOR		
Monitoring For	Stack Emission Monitoring			
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO	121-32/88 DATED 24 10 20		
Sampling Location	CLU Converter & Thermite (21	
Sample Collected By	Laboratory Chemist	combine Stack)		
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003			
Sample Quantity/Packing	Thimble: 1 X 1 No., SO2: 30 ml X 1 No. PVC Bottle, NO4: 25 ml X 1 No. PVC Bottle Rubber Bladder: 1 X 1 No.,			

TEST REPORT

Stack details

Stack Identity Stack Attached To			•	CLU CONVERTER & THERMITE (COMBINE STACK)
Material of Construction				BAG FILTER
Height of the stack from ground leve	(Meter)			MILD STEEL PLATE
Stack Diameter	(including)			35.0 MTR
Stack Shape At Top	2.295 MTR			
Type of Fuel	CIRCULAR			
Total Electrical Load (KW)				ELECTRICITY
Parameter	Unit	Method Reference	The second second	650 KW
Flue Gas Temperature	*r		Limit	Result
Flue Gas Velocity	M/s	IS:11255: (Part -3):2008	-	88
Total Gas Quantity	Nm ³ /h	IS :11255 :(Part -3):2008	-	7.9
	Will-/h	IS :11255: (Part -3):2008	-	97123.46
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	40	28.4

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-End of the test report-



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Part & Select a Constant	REPORT NO.	UES/TR/21-22/0948	3	
	LAB REF NO.	UES/21-22/ST/015359		
HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2,	DATE OF SAMPLING	DATE OF SAMPLING 24/02/2022 to 25/02/2022 DATE OF RECEIPT 25/02/2022 DATE OF REPORT 28/02/2022		
	DATE OF RECEIPT			
URLA INDUSTRIAL AREA	DATE OF REPORT			
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start: 25/02/2022	End: 28/02/2022	
· 小学生的问题: · · · · · · · · · · · · · · · · · · ·	SAMPLE DETAILS		International Content	
Monitoring For	Stack Emission Monitoring			
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/88, DATED: 24.10.2021			
Sampling Location	20 MW AFBC			
Sample Collected By	Laboratory Chemist			
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003			
Sample Quantity/Packing	Thimble: 1 X 1 No., SO2: 30 ml X 1 No. PVC Bottle, NOz: 25 ml X 1 No. PVC Bottle Rubber Bladder: 1 X 1 No.,			

		TEST REPORT		and the second se
Stack details		and the second se		
Stack Identity				201000
Stack Attached To				20 MW AFBC
Material of Construction				ESP
Height of the stack from ground leve	el (Meter)			RCC
Stack Diameter	Contraction Carlos			73.0 MTR
Stack Shape At Top				2.83 MTR
Type of Fuel	CIRCULAR			
Total Electrical Load (KW)				COAL
Parameter	Unit	Method Reference	11.00	20 KW
Flue Gas Temperature	*C	IS:11255: (Part -3):2008	Limit	Result
Flue Gas Velocity	M/s	the second se	-	119
Total Gas Quantity	Nm ³ /h	IS :11255 :(Part -3):2008	-	19.2
Sulphur Dioxide (SO ₂)		IS :11255: (Part -3):2008	-	330509.97
and the second se	mg/Nm ³	IS 11255 (Part 2):1985, RA 2003	600	255.6
Oxides of Nitrogen (NOx)	mg/Nm ³	IS 11255 (Part 7):2005, RA 2012	300	138.5
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	45.5
Carbon Monoxide (CO)	mg/ Nm ³	IS 13270	-	10
Hg	mg/ Nm ³	USEPA Method No. 29	0.03	4.9
			0.05	N.D.

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For ULTIMATE ENVIROLYTICAL-SOLUTIONS 2 REVIEWED BY AUTHORIZED SIGNATORY

-----End of the test report-----End of the test report-----



HDD-272, Phas	e III - Near JP	Chewk		
Ring Road No	2, Kabir Nagar	Raipur (C(G) - 49	12099
Ph : 0771 - 402	7777 I Email	ultimatenv	/ire@gma	ul com

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Manat in deduces to the device. To,	REPORT NO.	UES/TR/21-22/0956	1	
	LAB REF NO.	UE5/21-22/ST/015443		
HIRA POWER AND STEEL LTD.	DATE OF SAMPLING 24/03/2022 to 25/03/2022		3/2022	
KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003	DATE OF RECEIPT	EIPT 25/03/2022		
	DATE OF REPORT			
	DATE OF ANALYSIS	Start: 25/03/2022	End: 28/03/2022	
	SAMPLE DETAILS	100 all 100 all 100	A COLORED OF A COLORED	
Monitoring For	Stack Emission Monitoring			
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO	/21-22/88 DATED: 24 10 20		
Sampling Location	3.0 & 3.6 MVA Submerged			
Sample Collected By	Laboratory Chemist	artennee a feamane sta	ick)	
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003			
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO _x : 25 ml X 1 No. PVC Bottle Rubber Bladder: 1 X 1 No.,			

TEST REPORT

Stack details				
Stack Identity	2			3.0 & 3.6 MVA SUBMERGED ARC
Stack Attached To				FURNACE 'B' (COMBINE STACK)
Material of Construction				BAG FILTER
Height of the stack from ground leve	of (Motor)			MILD STEEL PLATE
Stack Diameter	30.0 MTR			
Stack Shape At Top				1.4 MTR
Type of Fuel	CIRCULAR			
Total Electrical Load (KW)				ELECTRICITY
Parameter	Unit	1	1	3.0 MVA & 3.6 MVA
the second s		Method Reference	Limit	Result
Flue Gas Temperature	°C	IS:11255: (Part -3):2008	-	91
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	9.2
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	41729.56 42.2

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Roley 2 Address of Philosophies	REPORT NO.	UES/TR/21-22/09562	2	
то,	LAB REF NO. UES/21-22/ST/015444			
HIRA POWER AND STEEL LTD.	DATE OF SAMPLING 24/03/2022 to 25/0		3/2022	
KHASRA NO.: 511/1, 512/2,	DATE OF RECEIPT	25/03/2022 28/03/2022		
URLA INDUSTRIAL AREA	DATE OF REPORT			
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start: 25/03/2022	End: 28/03/2022	
And the second	SAMPLE DETAILS	"Linbarba	The mouth of the second	
Monitoring For	Stack Emission Monitoring			
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PC	0/21-22/88, DATED: 24.10.20	021	
Sampling Location	5.5 MVA Submerged Arc Fe	rmace 'C'		
Sample Collected By	Laboratory Chemist			
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003			
Sample Quantity/Packing	Thimble: 1 X 1 No., SO:: 30 ml X 1 No. PVC Bottle, NOx: 25 ml X 1 No. PVC Bottle Rubber Bladder: 1 X 1 No.,			

TEST REPORT

Stack details 5.5 MVA SUBMERGED ARC Stack Identity FURNACE 'C' Stack Attached To **BAG FILTER** Material of Construction MILD STEEL PLATE Height of the stack from ground level (Meter) 35.0 MTR Stack Diameter 1.4 MTR Stack Shape At Top CIRCULAR Type of Fuel ELECTRICITY Total Electrical Load (KW) 5.5 MVA Parameter Unit **Method Reference** Limit Result Flue Gas Temperature *C IS:11255: (Part -3):2008 105 Flue Gas Velocity M/s IS :11255 :(Part -3):2008 10.1 **Total Gas Quantity** Nm3/h IS:11255: (Part -3):2008 -44115.06 IS :11255 :(Part -1):1985, RA Total Particulate Matter (TPM) mg/Nm³ 50 43.5 2003

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To,	REPORT NO. UES/TR/21-22/09563			
HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA	LAB REF NO. UES/21-22/ST/015445			
	DATE OF SAMPLING	24/03/2022 to 25/03/2022 25/03/2022		
	DATE OF RECEIPT			
	DATE OF REPORT	28/03/2022		
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start: 25/03/2022	End: 28/03/2022	
Monitoring For	SAMPLE DETAILS		20/03/2022	
	Stack Emission Monitoring P.O. NO. 11/HPSL U102/PO/21-22/88, DATED: 24.10.2021			
Customer Ref. No. & Date				
Sampling Location	5.5 MVA Submerged Arc Fu	mace 'D'	.2021	
Sample Collected By	Laboratory Chemist			
Sampling Procedure	15 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003			
Sample Quantity/Packing	Thimble: 1 X 1 No., SO2: 30 ml X 1 No. PVC Bottle, NO2: 25 ml X 1 No. PVC Bot Rubber Bladder: 1 X 1 No.,			

TEST REPORT Stack details Stack Identity 5.5 MVA SUBMERGED ARC Stack Attached To FURNACE 'D' Material of Construction **BAG FILTER** Height of the stack from ground level (Meter) MILD STEEL PLATE Stack Diameter 35.0 MTR Stack Shape At Top 1.4 MTR Type of Fuel CIRCULAR Total Electrical Load (KW) ELECTRICITY Parameter 5.5 MVA Unit Method Reference Limit Flue Gas Temperature Result *C IS:11255: (Part -3):2008 Flue Gas Velocity 113 M/s IS :11255 :(Part -3):2008 **Total Gas Quantity** 10.8 Nm3/h IS :11255: (Part -3):2008 -46194.87 IS :11255 :(Part -1):1985, RA Total Particulate Matter (TPM) mg/Nm³ 2003 50 41.8

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alar or it children di the barretes	REPORT NO.	۱		
То,	LAB REF NO. UES/21-22/5T/015446			
HIRA POWER AND STEEL LTD.	DATE OF SAMPLING	24/03/2022 to 25/03	2022	
KHASRA NO.: 511/1, 512/2,	DATE OF RECEIPT	25/03/2022 28/03/2022		
URLA INDUSTRIAL AREA	DATE OF REPORT			
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start: 25/03/2022	End: 28/03/2022	
Lie Sten of the second second second second	SAMPLE DETAILS	A CONTRACTOR		
Monitoring For	Stack Emission Monitoring			
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/88, DATED: 24.10.2021			
Sampling Location	5.5 MVA Submerged Arc Fi	umace 'E'		
Sample Collected By	Laboratory Chemist			
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003			
Sample Quantity/Packing	Thimble: 1 X 1 No., SO2: 30 ml X 1 No. PVC Bottle, NOx: 25 ml X 1 No. PVC Bottle Rubber Bladder: 1 X 1 No.,			

TEST REPORT

Stack Identity	5.5 MVA SUBMERGED ARC FURNACE 'E'			
Stack Attached To				BAG FILTER
Material of Construction				MILD STEEL PLATE
Height of the stack from ground leve	(Meter)			40.0 MTR
Stack Diameter				2.0 MTR
Stack Shape At Top	CIRCULAR			
Type of Fuel	ELECTRICITY			
Total Electrical Load (KW)	6.0 MVA			
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	*C	IS:11255: (Part -3):2008	-	107
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	10.1
Total Gas Quantity	Nm³/h	IS :11255: (Part -3):2008	-	92251.76
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	46.8

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To.	REPORT NO.	UES/TR/21-22/0956	5	
HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA	LAB REF NO.	UES/21-22/ST/015447		
	DATE OF SAMPLING	24/03/2022 to 25/03/2022 25/03/2022		
	DATE OF RECEIPT			
	DATE OF REPORT	28/03/2022		
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start: 25/03/2022 End: 28/03/20		
the second se	SAMPLE DETAILS	1 10 2 2 1 2 2 2	21101 2070372022	
Monitoring For	Stack Emission Monitoring			
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/88, DATED: 24.10.2021 Process (Combine Stack)			
Sampling Location				
Sample Collected By	Laboratory Chemist			
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003			
Sample Quantity/Packing	Thimble: 1 X 1 No., SO ₂ : 30 ml X 1 No. PVC Bottle, NO ₂ : 25 ml X 1 No. PVC B Rubber Bladder: 1 X 1 No.,			

		TEST REPORT		
Stack details				
Stack Identity				
Stack Attached To	The second second	1		PROCESS (COMBINE STACK
Material of Construction				BAG FILTER
Height of the stack from ground lev	el (Meter)			MILD STEEL PLATE
Stack Diameter				35.0 MTR
Stack Shape At Top	2.295 MTR			
Type of Fuel	CIRCULAR			
Total Electrical Load (KW)				ELECTRICITY
Parameter	Unit	Method Reference	E. C.	650 KW
Flue Gas Temperature	°C		Limit	Result
Flue Gas Velocity	M/s	IS:11255: (Part -3):2008	-	86
Total Gas Quantity	Nm ³ /h	IS :11255 :(Part -3):2008	-	8.3
	Nin-yn	IS :11255: (Part -3):2008	-	102609.58
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	43.8

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T 1203/22		- In
REVIEWED BY		28/03/22
	64	AUTHORIZED SIGNATORY

------End of the test report-----



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	and the Walkshop of the location of the state of the stat	the product of the second state of the second	And a state of the second s	
Barred Lifer and States and	REPORT NO.	UES/TR/21-22/0956	5	
То,	LAB REF NO. UES/21-22/ST/015448			
HIRA POWER AND STEEL LTD.	DATE OF SAMPLING	ATE OF RECEIPT 25/03/2022		
KHASRA NO.: 511/1, 512/2,	DATE OF RECEIPT			
URLA INDUSTRIAL AREA	DATE OF REPORT			
RAIPUR (C. G.) 492003	DATE OF ANALYSIS	Start: 25/03/2022	End: 28/03/2022	
DIKE CONTRACTOR	SAMPLE DETAILS	and the second s	Manager trees	
Monitoring For	Stack Emission Monitoring			
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/88, DATED: 24.10.2021			
Sampling Location	20 MW AFBC			
Sample Collected By	Laboratory Chemist			
Sampling Procedure	IS 11255 Part 1,2:1985 Reaffirmed 2009; Part 3:2008, Part 7:2005 Reaffirmed 2012, IS 5182 (Part 10) :2003			
Sample Quantity/Packing	Thimble: 1 X 1 No., SOz: 30 ml X 1 No. PVC Bottle, NOz: 25 ml X 1 No. PVC Bottle Rubber Bladder: 1 X 1 No.,			

		TEST REPORT		
Stack details			and a second dealer	
Stack Identity				20 MW AFBC
Stack Attached To			•	ESP
Material of Construction				RCC
Height of the stack from ground leve	l (Meter)			73.0 MTR
Stack Diameter				2.83 MTR
Stack Shape At Top				CIRCULAR
Type of Fuel				COAL
Total Electrical Load (KW)	20 KW			
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	*C	IS:11255: (Part -3):2008	-	122
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	22.8
Total Gas Quantity	Nm³/h	IS :11255: (Part -3):2008	-	389499.73
Sulphur Dioxide (SO ₂)	mg/Nm ³	IS 11255 (Part 2):1985, RA 2003	600	245.2
Oxides of Nitrogen (NOx)	mg/Nm ³	IS 11255 (Part 7):2005, RA 2012	300	139
Total Particulate Matter (TPM)	mg/Nm ^a	IS :11255 :(Part -1):1985, RA 2003	50	45.9
Carbon Monoxide (CO)	mg/ Nm ³	IS 13270	-	4.6
Hg	mg/ Nm ³	USEPA Method No. 29	0.03	N.D.

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-----End of the test report-----

ANNEXURE - IX



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To,		Report No.	UES/TR/21-22/086	/21-22/08678		
HIRA POWER AN	D STEEL I TD	Lab Ref No.	UES/21-22/AAQM/014438 - 01444			
KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		Date of Sampling	25/10/2021 to 26/1	0/2021		
		Date of Receipt	the second se			
		Date of Report	29/10/2021			
		Date of Analysis	Start: 26/10/2021	End: 29/10/2021		
	SAMPI	E DETAILS	an a			
Monitoring For	Ambient Air Quality Monitoring					
Sampling Location	Near CHP Area Beside Silo Solar Panel Area Near Main Gate	Near CHP Area Beside Silo Solar Panel Area				
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/88, 0	DATED: 24.10 2021				
Duration Of Sampling	As per CPCB norms					
Sample Collected By	Laboratory Chemist					
Sampling Procedure	As Per Method Reference					
Sample Quantity/Packing	Filter Paper (PM1a): 1X1 No., Filter Paper (PM2a): 1X1 No. SO2: 30mIX1 No. PVC Bottle, NO2: 30mIX1 NO. PVC Bottle,					

Test Method for Ambient Air Quality Monitoring					
Method Reference					
IS:5182: (Part-23):2006 & CPCB Guidelines VolI					
IS:5182: (Part-24):2019 & CPCB Guidelines VolI					
IS:5182: (Part-2):2001, RA 2006 & CPCB Guidelines VolI					
IS:5182: (Part-6):2006 & CPCB Guidelines VolI					

TEST REPORT							
Parameter	Unit	NAAQM	编进行 推广的	Re			
of a state of the		Standard	Near CHP Area	Beside Silo	Solar Panel	Near Main Gate	
PM10	µg/m³	100	78.4	80.5	Area 85.25	an a	
PM2.5	µg/m ³	60	33.5	39.8	44.90	79.86	
SO ₂	µg/m ³	80	17.44	12.6	the second s	39.87	
NO ₂	$\mu g/m^3$	80	29.80	and the second se	17.45	14.56	
CO	mg/m ³	4.0	0.66	26.8	28.96	28.25	
			0.00	0.53	0.51	0.59	

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To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		Report No. Lab Ref No. Date of Sampling Date of Receipt	UES/TR/21-22/0922 UES/21-22/AAQM/ 25/11/2021 to 26/1 26/11/2021	015092-015095
		Date of Report	29/11/2021	
		Date of Analysis	Start:26/11/2021	End:29/11/2021
terreture (provide) LE	SAM	PLE DETAILS	ALL	AND STOLEN
Monitoring For Sampling Location	Ambient Air Quality Monitoring			
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/8	8, DATED: 24.10.2021		
Duration Of Sampling	As per CPCB norms			
Sample Collected By	Laboratory Chemist			
Sampling Procedure	As Per Method Reference		All sources and a second	
Sample Quantity/Packing	Filter Paper (PM ₃₆): 1X1 No., Filter Paper (PM ₁₁): 1X1 No. SO ₂ : 30mlX1 No. PVC Bottle, NO ₂ : 30mlX1 NO. PVC Bottle,			

Test Method for Ambient Air Quality Monitoring				
Parameter Method Reference				
Particulate Matter size less than 10 microns (PM10)	IS:5182:(Part-23):2006 GCPCB Guidelines VolI			
Particulate Matter size less than 2.5 microns (PM2.5)	IS:5182:(Part-24):2019 &CPCB Guidelines VolI			
Sulphur Dioxide (SO2)	IS:5182: (Part-2):2001, RA 2006 &CPCB Guidelines VolI			
Nitrogen Dioxide (NO2)	IS:5182: (Part-6):2006 & CPCB Guidelines VolI			

TEST REPORT						
C IN RELENCE	Unit NAAQM Standard	NAAOM	and the	Res	sults	- material I.
Parameter		Contraction of the second seco	Near CHP Area	Beside Silo	Solar Panel Area	Near Main Gate
PM10	µg/m ³	100	86.8	75.2	79.5	70.4
PM2.5	µg/m ³	60	45.5	41.1	43.5	39.8
SO ₂	µg/m ³	80	19.7	12.5	17.9	13.8
NO ₂	µg/m ³	80	29.5	30.8	23.6	24.8
со	mg/m ³	4.0	0.55	0.57	0.61	0.48

REMARKS: RESULTS ARE AS ABOVE

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- > This is fur information as the party has asked for above test(s) only.





HDD-272, Phase III - Near JP Chowk Ring Road No.-2, Kabir Nagar, Raiput (C.G.) - 492099 Ph.: 0771 - 4027777 I Email - ultimater/Viro@gmail.com

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To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		Report No. Lab Ref No.	UES/TR/21-22/0931	And a second sec	
		Date of Sampling	25/12/2021 to 26/1	2/2021	
		Date of Receipt	26/12/2021		
		Date of Report	29/12/2021		
		Date of Analysis	Start:26/12/2021	End:29/12/2021	
	SAMP	LE DETAILS	P allagan	States and	
Monitoring For	Ambient Air Quality Monitoring	Ambient Air Quality Monitoring			
Sampling Location	Near CHP Area Beside Silo Solar Panel Area Near Main Gate	2. Beside Silo 3. Solar Panel Area			
Customer Ref. No. & Date	P.O. NO. 11/HP5L U102/PO/21-22/88	DATED: 24.10.2021			
Duration Of Sampling	As per CPCB norms				
Sample Collected By	Laboratory Chemist	Laboratory Chemist			
Sampling Procedure	As Per Method Reference				
Sample Quantity/Packing		Filter Paper (PM ₁₀): 1X1 No., Filter Paper (PM ₂₃): 1X1 No. SO ₂ : 30mlX1 No. PVC Bottle, NO ₂ : 30mlX1 NO. PVC Bottle,			

Test Method for Ambient Air Quality Monitoring					
Parameter Method Reference					
Farticulate Matter size less than 10 microns (PM10)	IS:5182: (Part-23):2006 & CPCB Guidelines VolI				
Particulate Matter size less than 2.5 microns (PM2.5)	IS:5182: (Part-24):2019 & CPCB Guidelines VolI				
Sulphur Dioxide (SO2)	IS:5182: (Part-2):2001, RA 2006 &CPCB Guidelines VolI				
Nitrogen Dioxide (NO2)	IS:5182: (Part-6):2006 & CPCB Guidelines VolI				

TEST REPORT						
		NAAOM	and the second	Re	sults	Shuther - HT
Parameter	Unit	Standard	Near CHP Area	Beside Silo	Solar Panel Area	Near Main Gate
PM10	µg/m ³	100	79.5	75.2	70.5	68.5
PM2.5	µg/m ³	60	33.5	39.5	34.4	32.5
SO ₂	µg/m ³	80	17.4	14.5	15.3	14.8
NO ₂	µg/m ³	80	29.2	26.5	23.8	25.8
co	mg/m ³	4.0	0.48	0.52	0.58	0.52

REMARKS: RESULTS ARE AS ABOVE

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> This is for information as the party has asked in above text(s) dely.

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HDD-272, Phase III - Near JP Chowk Ring Road No.-2, Kabir Nagar, Reipur (C.G.) - 492099 Ph : 0771 - 4027777 I Email : ultimatenviro@gmail.com

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To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		Report No.	UES/TR/21-22/0939	19	
		Lab Ref No.	UE5/21-22/AAQM/	015266-015269	
		Date of Sampling	24/01/2022 to 25/0	1/2022	
		Date of Receipt	25/01/2022		
		Date of Report	29/01/2022		
		Date of Analysis	Start: 25/01/2022	End: 29/01/2022	
and all the first of the	SAMPLE	DETAILS	The second	14 1.00	
Monitoring For	Ambient Air Quality Monitoring	Ambient Air Quality Monitoring			
Sampling Location	Near CHP Area Beside Silo Solar Panel Area Near Main Gate				
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/88, D/	P.O. NO. 11/HPSL U102/PO/21-22/88, DATED: 24.10.2021			
Duration Of Sampling	As per CPC8 norms				
Sample Collected 8y	Laboratory Chemist				
Sampling Procedure	As Per Method Reference				
Sample Quantity/Packing		Filter Paper (PM ₁₀): 1X1 No., Filter Paper (PM ₁₀): 1X1 No. SO ₂ : 30mlX1 No. PVC Bottle, NO ₂ : 30mlX1 NO. PVC Bottle,			

Test Method for Ambient Air Quality Monitoring				
Parameter Method Reference				
Particulate Matter size less than 10 microns (PM10)	IS:5182: (Part-23):2006 & CPCB Guidelines VolI			
Particulate Matter size less than 2.5 microns (PM2.5)	IS:5182: (Part-24):2019 & CPCB Guidelines VolI			
Sulphur Dioxide (SO2)	IS:5182: (Fart-2):2001, RA 2006 & CPCB Guidelines VolI			
Nitrogen Dioxide (NO2)	IS:5182: (Part-6):2006 & CPCB Guidelines VolI			

	AL SHOUL	NAAOM	The fight of the	Re	sults	WILLING AS	
Parameter	Unit	nit Standard Near C		Beside Silo Solar Pano Area		Near Main Gate	
PM10	µg/m ³	100	82.2	80.5	76.6	70.1	
PM2.5	µg/m ³	60	44.2	41.5	39.5	37.4	
SO ₂	µg/m ³	80	17.8	16.9	15.8	16.5	
NO ₂	µg/m ³	80	27.9	26.8	25.5	26.6	
со	mg/m ³	4.0	0.58	0.55	0.47	0.51	

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

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> Test semple will be retained for 15 days after issue of test import unless otherwise agreed with customer.

> This is for information as the party has asked for above residul only.

No. 1	For ULTIMATE ENVIROLYTICAL SOLUTION
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To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		Report No.	UE5/TR/21-22/0947	COLUMN TRANSPORT		
		Lab Ref No.	UES/21-22/AAQM/	015350 - 15353		
		Date of Sampling	24/02/2022 to 25/0	2/2022		
		Date of Receipt	25/02/2022			
		Date of Report	28/02/2022			
		Date of Analysis	Start: 25/02/2022	End: 28/02/2022		
P STORE STORE	SAMPI	E DETAILS	100	1 200		
Monitoring For	Ambient Air Quality Monitoring	Ambient Air Quality Monitoring				
Sampling Location	Near CHP Area Beside Silo Solar Panel Area Near Main Gate	Near CHP Area Beside Silo Solar Panel Area				
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/88, 0	DATED: 24.10.2021				
Duration Of Sampling	As per CPCB norms					
Sample Collected By	Laboratory Chemist					
Sampling Procedure	As Per Method Reference					
Sample Quantity/Packing		Filter Paper (PM ₁₀): 1X1 No., Filter Paper (PM _{2.3}): 1X1 No. SO ₂ : 30mlX1 No. PVC Bottle, NO ₂ : 30mlX1 NO. PVC Bottle,				

Test Method for Ambient Air Quality Monitoring				
Parameter	Method Reference			
Particulate Matter size less than 10 microns (PM10)	IS:5182: (Part-23):2006 & CPCB Guidelines VolI			
Particulate Matter size less than 2.5 microns (PM2.5)	IS:5182: (Part-24):2019 & CPCB Guidelines VolI			
Sulphur Dioxide (SO ₂)	IS:5182: (Part-2):2001, RA 2006 & CPCB Guidelines VolI			
Nitrogen Dioxide (NO2)	IS:5182: (Part-6):2006 & CFCB Guidelines VolI			

Parameter		NAAQM	Results			
Farameter	Unit	Standard	Near CHP Area	Beside Silo	Solar Panel Area	Near Main Gate
PM10	µg/m³	100	78.5	80.1	75.2	68.7
PM2.5	µg/m ³	60	35.5	39.8	40.4	32.5
SO ₂	µg/m ³	80	14.4	15.8	14.2	15.5
NO ₂	µg/m ³	80	26.6	27.6	28.0	27.1
co	mg/m ³	4.0	0.59	0.60	0.54	0.48

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

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		For ULTIMATE ENVIROLYTICAL SOLUTION
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21 28102122		- torr 1 2/22
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	End of the toot	AUTHORIZED SIGNATORY

End of the test report-----



HDD-272, Phase II: Near JP Chowk Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099 Ph : 0771 - 4027777 I Email - ultimateriviro@gmail.com

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То,		Report No. Lab Ref No.	UES/TR/21-22/0956 UES/21-22/AAQM/		
HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		Date of Sampling	24/03/2022 to 25/03/2022 25/03/2022 28/03/2022		
		Date of Receipt			
		Date of Report			
		Date of Analysis	Start: 25/03/2022	End: 28/03/2022	
	SAMPL	E DETAILS	The second second		
Monitoring For	Ambient Air Quality Monitoring	Ambient Air Quality Monitoring			
Sampling Location	Near CHP Area Beside Power Store 20 MW Solar Panel Area Near Main Gate				
Customer Ref. No. & Date	P.O. NO. 11/HPSL U102/PO/21-22/88, D	ATED: 24.10.2021			
Duration Of Sampling	As per CPC8 norms	and the second			
Sample Collected By	Laboratory Chemist				

Sampling Procedure	As Per Method Reference
Sample Quantity/Packing	Filter Paper (PM ₃₀): 1X1 No., Filter Paper (PM ₂₅): 1X1 No. SO ₂ : 30mIX1 No. PVC Bottle, NO ₂ : 30mIX1 NO. PVC Bottle.

Test Method for Ambient Air Quality Monitoring				
Parameter	Method Reference			
Particulate Matter size less than 10 microns (PM10)	IS:5182: (Part-23):2006 & CPCB Guidelines VolI			
Particulate Matter size less than 2.5 microns (PM _{2.5})	IS:5182: (Part-24):2019 & CPCB Guidelines VolI			
Sulphur Dioxide (SO2)	IS:5182: (Part-2):2001, RA 2006 & CPCB Guidelines VolI			
Nitrogen Dioxide (NO2)	IS:5182: (Part-6):2006 & CPCB Guidelines VolI			

TEST REPORT						
	15 10	NAAQM	The Party of the P	Res	arthurs (14 Karth	
Parameter	Unit	Standard	Near CHP Area	Beside Power Store 20 MW	Solar Panel Area	Near Main Gate
PM10	µg/m ³	100	77.5	80.5	74.4	70.1
PM2.5	µg/m ³	60	40.1	42.2	39.0	36.8
SO ₂	µg/m ³	80	15.7	16.2	14.9	15.8
NO ₂	µg/m ³	80	25.6	26.9	25.4	26.8
со	mg/m ³	4.0	0.58	0.62	0.54	0.47

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

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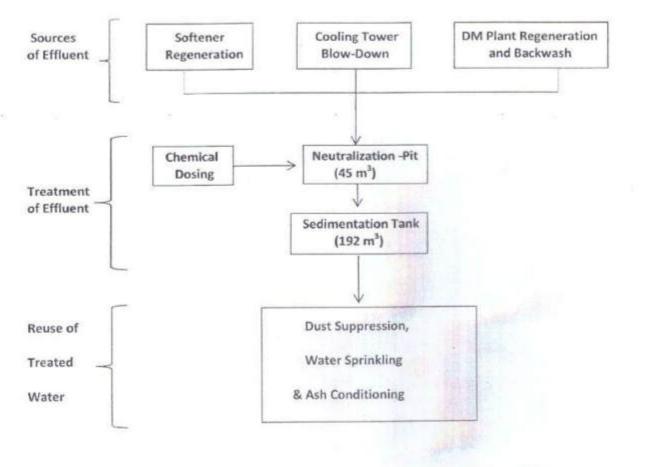
> This is for information as the party has asked for above test(s) only.

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1 4 - 5 Va	28/03/22	
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-----End of the test report-----

EFFLUENT TREATMENT SCHEME

No waste water is discharged outside factory premises. Waste water generated from Cooling Tower Blow-down, Softener Regeneration and Backwash & DM Water Regeneration and Backwash is taken to Neutralization-Pit (45 m³) where sample is taken and after Analysis chemical dosing is done along with air scouring and then after chemical dosing the water is sent to Sedimentation tank (192 m³) for settling of suspended particles, After sedimentation the treated water is used for Dust suppression, Water sprinkling on the road and Ash conditioning. Hence, Zero liquid discharge condition is maintained.





ANNEXURE - SI



HDD-272, Phase III - Near JP Chowk Ring Road No. 2, Kabir Nagar, Raipur (C.G.) - 492099 Ph : 9771 - 4027777 I Email : ultimateriviro@gmail.com

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To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		Report No Lab. Ref. No. Date of Sampling Date of Receipt Date of Report Date of Analysis	UES/TR/21-22/0868 UES/21-22//014448 25/10/2021 26/10/2021 29/10/2021 Start:26/10/2021	
al societion	and the second second	SAMPLE DETAILS	5661.2072021	End:29/10/2021
Customer Sample ID	Silteration Tank Water	Customer Ref. No. & Date	P.O. No. 11/HPSL U102 Dated: 24.10.2021	2/PO/21-22/88,
Sample Type	1. Inlet Water 2.Outlet Water	Sample Condition At Receipt	Ok	
Packing of Sample	Jerry Cane (3 itr. *2) Glass bottle (1 itr. *2)	Sample Collected By	Laboratory Chemist	
Other Details	Sealed	Quantity Received	Approx. 4Ltr. Each	

	TEST REPORT					
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMITS AS PER CONSENT	Inlet Water	Outlet Water
1	pH Value at 25.2°C	-	IS:3025:(Part- 11): 1983, RA 2012	5.5 To 9.0	7.25	7.75
2	Total Suspended Solid	mg/L	IS:3025:(Part- 17): 1984, RA 2012	100	145	23.0
3	Chemical Oxygen Demand	mg/L	IS:3025:(Part- 58):2006, RA 2012	250	138.0	32.0
4	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025:(Part- 44):1993 RA 2014	30	28.1	8.6
5	Oil & Grease	mg/L	1S:3025:(Part- 39):1986	10	1.7	N.D.

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

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> This is fur information as the party has asked for above results) only.

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HDD-272, Phase III - Near JP Chowk Ring Read No.-2, Kabir Nagar, Raipur (C.G.) - 492099 Ph.: 0771 - 4027777 I Email : ultimatenviro@gmail.com

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To,		Report No Lab. Ref. No.	UES/TR/21-22/09214 UES/21-22//0150810	
HIRA POWER AN	ID STEEL LTD.	Date of Sampling	25/11/2021	
KHASRA NO.: 51	1/1, 512/2,	Date of Receipt	26/11/2021	
URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		Date of Report	29/11/2021	
		Date of Analysis	Start: 26/11/2021	1 End: 29/11/2021
1. 白油的 公理的代码 4	UTADENT SALES	SAMPLE DETAILS	Contraction of the second	and the second
Customer Sample ID	Siltration Tank Water	Customer Ref. No. & Date	P.O. No. 11/HPSL U102 Dated: 24.10.2021	2/PO/21-22/88,
Sample Type	1. Inlet Water 2. Outlet Water	Sample Condition At Receipt	Ok	
Packing of Sample	Jerry Cane (3 ltr. *2) Glass bottle (1 ltr. *2)	Sample Collected By	Laboratory Chemist	
Other Details	Sealed	Quantity Received	Approx. 4 Ltr. each	

TEST REPORT						
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMITS AS PER CONSENT	Inlet Water	Outlet Water
1	pH Value at 25.2°C	-	IS:3025:(Part- 11): 1983, RA 2012	5.5 To 9.0	7.10	7.78
2	Total Suspended Solid	mg/L	IS:3025:(Part- 17): 1984, RA 2012	100	162	22.0
3	Chemical Oxygen Demand	mg/L	IS:3025:(Part- 58):2006, RA 2012	250	153.0	34.0
4	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025:(Part- 44):1993 RA 2014	30	27.8	7.4
5	Oil & Grease	mg/L	1S:3025:(Part- 39):1986	10	1.9	N.D.

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To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		Report No Lab, Ref. No. Date of Sampling Date of Receipt Date of Report	UES/TR/21-22/09308 UES/21-22//015175 25/12/2021 26/12/2021 29/12/2021	5/21-22//015175 /12/2021 /12/2021	
		Date of Analysis	Start: 26/12/2021 End: 29/2		
and the second	and the second se	SAMPLE DETAILS	(100)	The Willerson	
Customer Sample ID	Silteration Tank Water	Customer Ref. No. & Date	P.O. No. 11/HPSL U10 Dated: 24.10.2021	2/PO/21-22/88,	
Sample Type	1. Inlet Water 2. Outlet Water	Sample Condition At Receipt	Ok		
Packing of Sample	Jerry Cane (3 ltr. *2) Glass bottle (1 ltr. *2)	Sample Collected By	Laboratory Chemist		
Other Details	Sealed	Quantity Received	Approx. 4 Ltr. Each		

TEST REPORT							
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMITS AS PER CONSENT	Inlet Water	Outlet Water	
1	pH Value at 25.2°C	-	IS:3025:(Part- 11): 1983, RA 2012	5.5 To 9.0	7.19	7.85	
2	Total Suspended Solid	mg/L	IS:3025:(Part- 17): 1984, RA 2012	100	165	25.5	
3	Chemical Oxygen Demand	mg/L	IS:3025:(Part- 58):2006, RA 2012	250	168.0	29.8	
4	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025:(Part- 44):1993 RA 2014	30	29.4	8.4	
5	Oil & Grease	mg/L	IS:3025:(Part- 39):1986	10	1.5	N.D.	

REMARKS: RESULTS ARE AS ABOVE

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> This is for information as the party has asked for above test(s) only.

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HDD-272, Phase III - Near JP Chowk Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099 Ph : 0771 - 40277771 Email : ultimatenviro@gmail.com

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To, HIRA POWER AN KHASRA NO.: 51 URLA INDUSTRI	ID STEEL LTD. 1/1, 512/2,	Report No Lab. Ref. No. Date of Sampling Date of Receipt Date of Report	UES/TR/21-22/09406 UES/21-22//015276 24/01/2022 25/01/2022 29/01/2022	
RAIPUR (C. G.) 492003		Date of Analysis	Start: 25/01/2022 End: 29/01/2	
State - Har	Contraction of the second	SAMPLE DETAILS		
Customer Sample ID	Silteration Tank Water	Customer Ref. No. & Date	P.O. No. 11/HPSL U102 Dated: 24.10.2021	/PO/21-22/88,
Sample Type	1. Inlet Water 2. Outlet Water	Sample Condition At Receipt	Ok	
Packing of Sample	Jerry Cane (3 ltr. *2) Glass bottle (1 ltr. *2)	Sample Collected By	Laboratory Chemist	
Other Details	Sealed	Quantity Received	Approx. 4 Ltr. Each	

TEST REPORT						
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMITS AS PER CONSENT	Inlet Water	Outlet Water
1	pH Value at 25.2°C	-	IS:3025:(Part- 11): 1983, RA 2012	5.5 To 9.0	7.05	7.95
2	Total Suspended Solid	mg/L	IS:3025:(Part- 17): 1984, RA 2012	100	165	28.0
3	Chemical Oxygen Demand	mg/L	IS:3025:(Part- 58):2006, RA 2012	250	132.0	36.0
4	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025:(Part- 44):1993 PA 2014	30	26.6	7.1
5	Oil & Grease	mg/L	IS:3025:(Part- 39):1986	10	2.0	N.D.

Note : mg/lit.: milligram per liter. N.D.: Not Detected.

REMARKS: RESULTS ARE AS ABOVE

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REVIEWED BY

For ULTIMATE ENVIROLYTICAL SOLUTIONS 22 3 01 2 AUTHORIZED SIGNATORY

-----End of the test report-----



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To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		Report No Lab. Ref. No. Date of Sampling Date of Receipt Date of Report	UES/TR/21-22/09484 UES/21-22//015360 24/02/2022 25/02/2022 28/02/2022	1
IGHI ON (C. C.) -	the state of the s	Date of Analysis SAMPLE DETAILS	Start: 25/02/2022	End: 28/02/2022
Customer Sample ID	Silteration Tank Water	Customer Ref. No. & Date	P.O. No. 11/HPSL U102 Dated: 24.10.2021	2/PO/21-22/88,
Sample Type	le Type 1. Inlet Water Sample Condition At 2. Outlet Water Receipt		Ok	
Packing of Sample	Jerry Cane (3 ltr. *2) Glass bottle (1 ltr. *2)	Sample Collected By	Laboratory Chemist	
Other Details	Sealed	Quantity Received	Approx. 4 Ltr. Each	

	TEST REPORT							
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMITS AS PER CONSENT	Inlet Water	Outlet Water		
1	pH Value at 25.2°C	-	IS:3025:(Part- 11): 1983, RA 2012	5.5 To 9.0	7.09	7.80		
2	Total Suspended Solid	mg/L	IS:3025:(Part- 17): 1984, RA 2012	100	160	18.0		
3	Chemical Oxygen Demand	mg/L	TS:3025:(Part- 58):2006, RA 2012	250	152.0	26.0		
4	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025:(Part- 44):1993 FA 2014	30	26.2	6.3		
5	Oil & Grease	mg/L	IS:3025:(Part- 39):1986	10	1.5	N.D.		

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

> The use of the report for publication, arbitration or as legal dispute is forbidden.

> Test sample will be retained for 15 days after issue of test caport unless otherwise agreed with customer.

> This is for information as the party has asked for above testily only.

REVIEWED BY

For ULTIMATE ENVIROLYDEAT SOLUTIONS 200 AUTHORIZED SIGNATORY

End of the test report------End of the test report------



HDD-272, Phase III - Near JP Chowk Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099 Ph : 0771 - 4027777 I Email : ultimatenviro@gmail.com

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To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		Report No Lab. Ref. No. Date of Sampling Date of Receipt	UE5/TR/21-22/09563 UE5/21-22//015449 24/03/2022 to 25/03 25/03/2022	
		Date of Report Date of Analysis	28/03/2022 Start: 25/03/2022	End: 28/03/2022
		SAMPLE DETAILS		
Customer Sample ID	Silteration Tank Water	Customer Ref. No. & Date	P.O. No. 11/HPSL U102 Dated: 24.10.2021	2/PO/21-22/88,
Sample Type	1. Inlet Water 2. Outlet Water	Sample Condition At Receipt	Ok	
Packing of Sample	Jerry Cane (3 ltr. *2) Glass bottle (1 ltr. *2)	Sample Collected By	Laboratory Chemist	
Other Details	Sealed	Quantity Received	Approx. 4 Ltr. Each	

	TEST REPORT						
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMITS AS PER CONSENT	Inlet Water	Outlet Wate	
1	pH Value at 25.2°C	-	IS:3025:(Part- 11): 1983, RA 2012	5.5 To 9.0	7.10	7.88	
2	Total Suspended Solid	mg/L	IS:3025:(Part- 17): 1964, RA 2012	100	163	21.0	
3	Chemical Oxygen Demand	mg/L	IS:3025:(Part- 58):2006, RA 2012	250	138.0	25.0	
4	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025:(Part- 44):1093 RA 2014	30	27.0	8.3	
5	Oil & Grease	mg/L	IS:3025:(Part- 39):1986	10	1.6	N.D.	

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions.

> The use of the report for publication, arbitration or as least dispute is forbidden.

> Fest sample will be retained for 15 days after usue of test report onless otherwise agreed with contomer,

> This is fee information as the party has asked for above rest(s) only.

For ULTIMATE ENVIROLYTICAL SOLUTIONS 28103122 **REVIEWED BY** AUTHORIZED SIGNATORY

ANNEXURE-XIT



HDD-272, Phase III - Near JP Chowk Ring Road No -2, Kabir Nagar, Raipur (C.G.) - 492099 Ph : 0771 - 4027777 I Email : ultimaterviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

To, HIRA POWER AND ST KHASRA NO.: 511/1, 3 URLA INDUSTRIAL A RAIPUR (C. G.) 49200	512/2, REA	REPORT NO. LAB REF NO. DATE OF REPORT DATE OF SAMPLING	UES/TR/21-22/08686 UES/21-22/N/014450 - 014453 29/10/2021 25/10/2021		
	SAM	PLE DETAILS	the Martin States of the		
Monitoring For	Noise Level Monitorin	g			
Customer Ref. No. & Date	P.O. No. 11/HPSL U102	2/PO/21-22/88, Dated: 24.10.20	021		
Sampling Location	Near CHP Area Beside Silo Solar Panel An	1. Near CHP Area 2. Beside Silo			
Sample Collected By	Laboratory Chemist	99,			
Sampling Procedure	Manufacturer's Instruc	tion			

TEST REPORT					
LOCATION	UNIT	RESULT		LIMIT (INDUSTRIAL ZONE	
		DAY	NIGHT	DAY	NIGHT
Near CHP Area	dB(A)	71.5	67.8		70 dB(A)
Beside Silo	dB(A)	70.4	62.5	75 dB(A)	
Solar Panel Area	dB(A)	69.8	58.5		
Near Main Gate	dB(A)	65.1	56.5		

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

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> Test sample will be retained for 15days after issue of test report unless otherwise agreed with customer.

> This is for information as the party has asked for above trist(s) only.

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End of the test report-----



HDD-272, Phase III - Near JP Chowk Ring Road No.-2, Kabir Nagar, Rapur (C.G.) - 492099 Ph : 0771 - 4027777 I Email - ultimatenviro@gmail.com

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To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		REPORT NO. LAB REF NO. DATE OF REPORT DATE OF SAMPLING	UE5/TR/21-22/09220 UE5/21-22/N/015087 - 015090 29/11/2021 25/11/2021
1 Charles one	SAMP	LE DETAILS	And And And And
Monitoring For	Noise Level Monitoring		
Customer Ref. No. & Date	P.O. No. 11/HPSL U102/	/PO/21-22/88, Dated: 24.10.2	021
Sampling Location	Near CHP Area Beside Silo Solar Panel Area Near Main Gate		
Sample Collected By	Laboratory Chemist		
Sampling Procedure	Manufacturer's Instruct	ion	

TEST REPORT					
AT HE REPORTED THE REPORT		RES	ULT	LIMIT (INDUS	TRIAL ZONE)
LOCATION	UNIT	DAY	NIGHT	DAY	NIGHT
Near CHP Area	dB(A)	72.2	68.5	75 dB(A)	70 dB(A)
Beside Silo	dB(A)	70.4	64.1		
Solar Panel Area	dB(A)	68.5	63.2		
Near Main Gate	dB(A)	62.5	55.5		

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

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- > Test sample will be retained for 15days after issue of test report unless otherwise agreed with distorter.
- > This is for information as the party has asked for above test(s) only.

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HDD-272, Phase III - Near JP Chowk Ring Road No -2, Kabir Nager, Reipur (C.G.) - 492099 Ph : 0771 - 4027777 I Email : ultimater/viro@gmail.com

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To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		REPORT NO.	UE5/TR/21-22/09309 UE5/21-22/N/015176 - 015179		
		DATE OF SAMPLING	29/12/2021 25/12/2021		
the file the the		LE DETAILS	EN ELEVEL		
Monitoring For	Noise Level Monitoring				
Customer Ref. No. & Date	P.O. No. 11/HPSL U102/	P.O. No. 11/HP5L U102/PO/21-22/88, Dated: 24.10.2021			
Sampling Location	1, Near CHP Area 2. Beside Silo 3. Solar Panel Area 4. Near Main Gate				
Sample Collected By	Laboratory Chemist				
Sampling Procedure	Manufacturer's Instructi	00			

TEST REPORT					
LOCATION	UNIT	RE	SULT	LIMIT (INDU	STRIAL ZONE)
and the second second		DAY	NIGHT	DAY	NIGHT
Near CHP Area	dB(A)	72.2	65.5		70 dB(A)
Beside Silo	dB(A)	70.2	63.4	75 dB(A)	
Solar Panel Area	dB(A)	69.8	61.2	1 1 11	
Near Main Gate	dB(A)	62.5	54.8		

REMARKS: RESULTS ARE AS ABOVE

- Terms & conditions
- > The use of the report for publication, arbitration or as legal dispute is forbidden.
- > Test sample will be retained for 15days after issue of test report unless otherwise agreed with customer.
- > This is for information as the party has asked for above test(s) only.

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To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		LAB REF NO.	UES/TR/21-22/09407 UES/21-22/N/015277-015280
		DATE OF REPORT	29/01/2022
		DATE OF SAMPLING	24/01/2022
The state of the second second	SA	MPLE DETAILS	A A A A A A A A A A A A A A A A A A A
Monitoring For	Noise Level Monitori	ng	
Customer Ref. No. & Date	P.O. No. 11/HPSL U1	02/PO/21-22/88, Dated: 24.10.20	021
Sampling Location	1. Near CHP Ar 2. Beside Silo 3. Solar Panel A 4. Near Main G	ea irea	
Sample Collected By	Laboratory Chemist		
Sampling Procedure	Manufacturer's Instru	rction	

TEST REPORT					
LOCATION	UNIT	RES	SULT	LIMIT (INDUSTRIAL ZONE	
		DAY	NIGHT	DAY	NIGHT
Near CHP Area	dB(A)	72.9	65.5		70 dB(A)
Beside Silo	dB(A)	71.2	62.2	75 dB(A)	
Solar Panel Area	dB(A)	69.2	60.8	10 00(11)	
Near Main Gate	dB(A)	65.5	52.2		

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

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> Test sample will be retained for 15 days after issue of test report onless out-crowse agreed with container.

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-----End of the test report-----



HDD-272, Phase III - Near JP Chowk Ring Road No.-2, Kabir Nagar, Ralpur (C.G.) - 492099 Ph.: 0771 - 4027777 1 Email - ultimateriviro@gmail.com

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To, HIRA POWER AND STEEL LTD.		REPORT NO.	UE5/TR/21-22/09485 UE5/21-22/N/015361-15364
	KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA		28/02/2022
RAIPUR (C. G.) 49200	3	DATE OF SAMPLING	24/02/2022
	SAMPI	E DETAILS	
Monitoring For	Noise Level Monitoring		100000000000000000000000000000000000000
Customer Ref. No. & Date	P.O. No. 11/HPSL U102/P	0/21-22/88, Dated: 24.10.20	194
Sampling Location	1. Near CHP Area 2. Beside Silo 3. Solar Panel Area 4. Near Main Gate	-,,,,,,,,,,,,,,,,	
Sample Collected By	Laboratory Chemist		
Sampling Procedure	Manufacturer's Instructio		

TEST REPORT								
LOCATION	UNIT	RESULT		LIMIT (INDUSTRIAL ZONE				
		DAY	NIGHT	DAY	NIGHT			
Near CHP Area	dB(A)	71.5	65.5					
Beside Silo	dB(A)	70.0	61.2	75 dB(A)				
Solar Panel Area	dB(A)	68.8	59.8	75 UB(A)	70 dB(A)			
Near Main Gate	dB(A)	63.3	52.3					

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

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Fest sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.

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-End of the test report-----



HDD-272, Phase III.- Near JP Chowk Ring Road No.-2, Kebir Nagar, Raipur (C.G.) - 492099 Ph : 0771 - 4027777 I Email : ultimaterviro@gmail.com

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To, HIRA POWER AND ST KHASRA NO.: 511/1, 5	CONSIGNATION CONTRACTOR -	REPORT NO.	UE5/TR/21-22/09568 UES/21-22/N/015450-15453		
URLA INDUSTRIAL A		DATE OF REPORT	28/03/2022		
RAIPUR (C. G.) 49200	3	DATE OF SAMPLING	24/03/2022		
	S7	MPLE DETAILS	active and the second		
Monitoring For	Noise Level Monitor	ing			
Customer Ref. No. & Date	P.O. No. 11/HPSL U1	02/PO/21-22/88, Dated: 24.10.20	021		
Sampling Location	1. Near CHP A	rea er Store 20 MW Area			
Sample Collected By	Laboratory Chemist				
Sampling Procedure	Manufacturer's Instr	Manufacturer's Instruction			

TEST REPORT								
LOCATION	UNIT	RESULT		LIMIT (INDUSTRIAL ZONE)				
	Address in	DAY	NIGHT	DAY	NIGHT			
Near CHP Area	dB(A)	70.5	65.9		70 dB(A)			
Beside Power Store 20 MW	dB(A)	71.2	64.3	75 dB(A)				
Solar Panel Area	dB(A)	68.9	61.1		70 UD(N)			
Near Main Gate	dB(A)	61.2	57.7					

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

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Fest sample will be retained for 15 days after issue of tast report unless otherwise agreed with customer.

> This is for information as the party has asked for above (es:(s) only.

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-----End of the test report-----

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Vestime: Data: 06/05/2072



Record For Year

If You have already entered the below form then click on add Worker Button given in List

HIRA POWER & STEEL LTD, UNIT-II [FERRO	DePavan Kumar	14/03/2022 11402928270352 FORM-21	0	600
ALLOYS DIVISION)	Gautano	Transferrer Transferrer and Construction	- C.,	

View Workers Details

The Detty Science	Molialut			EntryDate	10.01_500		Carlin Worldets			
HIRA POWER & STEEL LTD. UNIT-II (FERRO ALLOYS DIVISION)				19/04/2017	11402928270352	250	384	FORM-21	2017	1
HIRA POWER & STEEL LTD. UNIT-II (FERRO ALLOYS DIVISION)	Dr.Pavan Kumar Gautam	M.B.B.S., MD(MEDICINE)	9685691056	14/03/2022	11402928270352	550	605	FORM-21	2022	tindere Glass
HIRA POWER & STEEL LTD: UNIT-II (FERRO ALLOYS DIVISION)	Dr.Pavan Kumar Gautam	MBBS MD Medicine	0771408252	13/07/2018	11402928270352	500	376 -	FORM-21	2018	100
HIRA POWER & STEEL LTD. UNIT-II (FERRO ALLOYS DIVISION)	Dr.Pawan S.Gautam	MBBS MD Medicine	07714082525	17/05/2019	11402928270352	500	415	FORM-21	2019	Sare Walter
HIRA POWER & STEEL LTD. UNIT-II (FERRO ALLOYS DIVISION)	Mr. Pavan Kuamr Gautam	MBBS, MD (MEDICINE)	9685691056	04/06/2020	11402928270352	500	390	FORM-21	2020	inter Lint
HIRA POWER & STEEL LTD. UNIT-II (FERRO ALLOYS DIVISION)	Dr.Pavan Kumar Gautam	MBBS, MD (MEDICINE)	9685691056	14/06/2021	11402928270352	550	696	FORM-21	2021	Nife William

Remarks :

Surre Vent	FormType	Che Chandler	Stories.	Tiomark	Remail(d).+
2019	FORM-21	Deprateek Khare	VIOLATION OF FACTORY ACT	1)AS PER THE ENTRIES MADE IN THE PORTAL. IN TYPE OF EXAMINATION, IN DATE OF EMPLOYMENT AND DATE OF EXAMINATION IT IS CLEAR THAT false entries has been done or PRE EMPLOYMENT AND PERIODIC MEDICAL EXAMINATION IS NOT DONE IN TIME WHICH IS VIOLATION OF RULE 41C AND 131 OF FACTORIES ACT. (2)all the test reports not uploaded like usg etc.(3)TEST AS PER RULE 107 SCHEDULE 20 NOT DONE.(4)GIVE A COPY OF MEDICAL REPORTS TO ALL THE WORKERS WORKERS HAVING POSITIVE FINDINGS SHOULD BE REGULARILY FOLLOW UP BY THE FACTORY MEDICAL OFFICER AND CARE SHOULD BE TAKEN THAT THEY SHOULD NOT BE EMPLOYED IN THOSE AREA WHERE THERE DISEASE GET AGGRAVATED.	29/07/2019
2017	FORM-21	DEPRATEEK KILARE	AUDIOMETRY TEST AND DO TEST OF MANGANESE ACCORDING TO	THE REPORT OF A DESCRIPTION OF A DESCRIP	

				ACCORDING TO SHEDULE28 OF RULE 197 HAS NOT HEEN DONE ONLY BLOOD MANGANESE LEVEL OF BE WORKERS DONE REST OF THEST OF SCHEDULE NOT DONE AND MENTIONED. 1)COVID-19-SCREENING OF WORKERS SHOULD BE DONE AS PER GOVERNMENT CUIDELINE FOR COVID 19 BEFORE APPOINTING WORK AND REGULAR FOLLOW UP SHOULD ALSO BE DONE, PLEASE TAKE ALL PERSONAL PROTECTION PRECADITION IN FACTORY LIKE HAND	
2020	FORM-21	Dr.PRATEEK KMARE	3	DONE, PLEASE TAKE ALL PERSONAL PROTECTION PRODUCTION TREEAD FIGH IN PALLORY DRE TAKED WASHING, SOCIAL DISTANCING, FACE MASK AND WORK RELATED PPES. People with COVID-19 have bad a wide range of symptoms reported - ranging from mild symptoms to severe illness. Symptoms may appear 2-14 days after exposure to the virus. People with these symptoms or combinations of symptoms may have COVID-19: • Cough • Shortness of breath or difficulty breathing Or at least two of these symptoms: • Fever • Chills • Repeated shaking with chills • Muscle pain • Headache • Sorn throat • New loss of taste or smell, COUNSEL AND AWARE WORKERS ABOUT COVID 19.1F ANY SUSPECTED CASE COME TO YOUR NOTICE IMMEDIATELY INFORM TO AUTHORITY (2) GIVE A COPY OF MEDICAL REPORTS TO ALL THE WORKERS WORKERS HAVING POSITIVE FINDINGS SHOULD BE REGULARLY FOLLOW UP BY THE FACTORY MEDICAL OFFICER AND CARE SHOULD BE TAKEN THAT THEY SHOULD NOT BE EMPLOYED IN THOSE AREA WHERE THERE DISEASE GET AGGRAVATED, (3) AS PER FORM 4* Number of workers to be ordinarily employed in the factory : 500° BUT MEDICAL REPORTS OF ONLY 139 WORKERS UPLOADED HENCE INCOMPLETE [4] test are not done as per cg factories rule 1962 rule107 prescribed under section 87 of factories act 1948	04/12/2020
2018	FORM-21	Dr.PRATEEK KHARE	VIOLATION OF RULE 41C AND 131 OF FACTORIES ACT	AS PER THE ENTRIES MADE IN THE PORTAL, IN TYPE OF EXAMINATION, IN DATE OF EMPLOYMENT AND DATE OF EXAMINATION IT IS CLEAR THAT PRE EMPLOYMENT AND PERIODIC MEDICAL EXAMINATION IS NOT DONE IN TIME WHICH IS VIOLATION OF RULE 41C AND 131 OF FACTORIES ACT. AS PER THE SECTION 41C OF FACTORIES ACT 1948 IT IS THE RESPONSIBILITY OF FACTORY OCCUPIER TO MAINTAIN ACCURATE AND UP TO DATE HEALTH RECORDS & PROVIDE FOR MEDICAL EXAMINATION OF EVERY WORKER BEFORE EMPLOYMENT AND IN PERIODIC INTERVAL NOT EXCEEDING TWELVE MONTH.	27/12/2018

ANNEXURE - XIV



Ref: 1039/HPSL/U2/CPP/21-22/1039

Dated-16.11.2021

To, The Scientist, Ministry of Environment, Forest & Climate Change, Integrated Regional Office, Aranya Bhawan, North Block, Sector-19, Naya Raipur, Atal Nagar, Chhattisgarh - 492002

Sub: Submission of Half Yearly Environment Clearance Compliance Report of the conditions stipulated in Environmental clearance for the period of April 2021 to September 2021

Ref: Environmental Clearance F.No. J-11011/836/2008/IA.II(I) Dated 11.02.2009

Respected Sir,

With reference to above subject, we are enclosing herewith Half Yearly Environment Clearance Compliance Report of the conditions stipulated in Environmental clearance accorded by MOEF vide F.No.J-11011/836/2008/IA.II(I) Dated 11.02.2009 for the period of April 2021 to September 2021 in respect of Hira Power and Steels Ltd. Unit-II (Ferro Division), Urla Industrial Complex, Raipur (C.G.)

We hope you will find the above Half Yearly Environment Clearance Compliance Report upto your satisfaction. Your valuable guidance further in this regard shall be highly appreciated.

Kindly acknowledge the receipt of the same.

Yours faithfully,

For, HIRA POWER AND STEELS LIMITED, UNIT- II

(Ferro Division)

Authorized Signatory

Encl: As Above

Hira Power & Steels Limited An ISO 9001:2015 Certified Company CIN: U24117CT1984PLC002512

Registered Office & Works : Khasra No. 511/1, 512/2, Uria Industrial Complex, Raipur - 492003, Chhattisgarh, India P : +91 771 4082500, 4082600, F : +91 771 4082501, E : admin@hpslindia.com www.hpslindia.com, www.hiragroup.com



Copy to:

- The Director, Zonal Office, Central Pollution Control Board, 4th Floor, Sahkar Bhawan, North TT Nagar, Bhopal-462003.
- The Member Secretary, Chhattisgarh Environment Conservation Board, Paryavas Bhawan, North Block, Sector-19, Atal Nagar, Raipur (CG) – 492 002.
- The Regional Officer, Regional Office, Chhattisgarh Environment Conservation Board Commercial Complex Chhattisgarh Housing Board Colony, Kabir Nagar, Raipur (CG) – 492 001.