



HIRA POWER & STEELS

Ref: 2040/HPSL/U2/CP/2023-24/2040

Dated : 11.05.2023

To,
The Scientist,
Ministry of Environment, Forest & Climate Change,
Integrated Regional Office, Aranya Bhawan,
North Block, Sector-19, Naya Raipur,
ATAL NAGAR, RAIPUR (C.G.)-492002

Sub: Submission of Half Yearly Environment Clearance Compliance Report of the conditions stipulated in Environmental clearance for the period of October,2022 to March,2023

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

Respected Sir,

With reference to the 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,2022 to March,2023** 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 will be highly appreciated.

Kindly acknowledge the receipt of the same.

Thanking you,

Yours faithfully,

For, **HIRA POWER AND STEELS LIMITED, UNIT- II**

for Anil Kumar

AUTHORIZED SIGNATORY

Encl: As Above

Copy to:

1. The Director, Zonal Office, Central Pollution Control Board, 4th Floor, Sahkar Bhawan, North TT Nagar, Bhopal-462003.
2. The Member Secretary, Chhattisgarh Environment Conservation Board, Paryavas Bhawan, North Block, Sector-19, Atal Nagar, Raipur (CG) – 492 002.
3. 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

Registered Office & Works : Khasra No. 511/1, 512/2, Urla Industrial Complex, Raipur - 492003, Chhattisgarh, India

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HALF YEARLY COMPLIANCE REPORT

OF

THE CONDITIONS STIPULATED IN

ENVIRONMENTAL CLEARANCE

FOR

THE PERIOD OF

OCTOBER 2022 – MARCH 2023

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 2022 – March 2023

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	Compliance Status				
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.	<p>Continuous emission monitoring facility have been installed to the common stack of 3.0 & 3.6 MVA submerged arc furnaces, stack attached to 6.0 MVA submerged arc furnace and to the common stack of 12MT/Heat CLU converter & Thermic plant.</p> <table border="1"><tr><td>Particulars</td><td>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</td></tr><tr><td>Pollution control Equipments</td><td>Offline pulse jet bag filter</td></tr></table> <p>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.</p>	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
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					
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 asphaltting 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 taken to reduce fugitive emission. Please refer to Annexure-1 for Photographs and Annexure-2 for Fugitive Emission Report.				





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Compliance report of the conditions stipulated in Environmental Clearance

		FUGITIVE EMISSION REPORT			
Sr. No.	Area	Unit	Parameter	Limit (MoEF & CC Notification)	
1	A&B Furnace	$\mu\text{g}/\text{m}^3$	1470	2000	
2	C&D Furnace	$\mu\text{g}/\text{m}^3$	1380	2000	
3	CLU Converter	$\mu\text{g}/\text{m}^3$	1448	2000	
4	Raw Material Yard	$\mu\text{g}/\text{m}^3$	1348	2000	
5	CHP Area	$\mu\text{g}/\text{m}^3$	1428	2000	
iii.	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 with.			
iv.	Total requirement of the water from Chhattisgarh Ispat Bhumi Ltd. shall not exceed $30\text{m}^3/\text{day}$. 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 premises.			
v.	Prior permission for the drawl of $30\text{m}^3/\text{day}$ water from Chhattisgarh Ispat Bhumi Ltd. shall be obtained from the concerned department.	We have obtained prior permission for drawl of 100 KL/Day from Central Groundwater Authority (CGWA) which is Attached as Annexure-3 & 500 KL/Day water from Chhattisgarh State Industrial Development Corporation Limited. Attached as Annexure-4 .			





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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 non-hazardous in nature.

- Fe-Mn slag is used as raw material for Si-Mn production or sold to SiMn 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.

vi.

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 Leachability Potential (TCLP) test. Otherwise, hazardous substance shall be recovered from the 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 be used for road construction and filling low lying areas. ETP sludge after drying shall be used as fertilizer for green belt development. Used oil shall be sold to recyclers / re-processors.

TCLP REPORT

Sample.	Parameter	Limit	Result
Fe-Mn Slag	Iron as Fe	-	71.0
	Manganese as Mn	10.0	5.4
	Zinc as Zn	250	50.6
	Lead as Pb	5.0	1.1
	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
Thermite Slag	Iron as Fe	-	77.7
	Manganese as Mn	10.0	6.0
	Zinc as Zn	250	30.1
	Lead as Pb	5.0	1.0
	Cadmium as Cd	1.0	N.D.
	Chromium as Cr	5.0	N.D.
	Arsenic as	5.0	N.D.





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Sample.	Parameter	AS	
		Limit	Result
	Mercury as Hg	0.2	N.D.
	Iron as Fe	-	70.2
	Manganese as Mn	10.0	6.8
	Zinc as Zn	250	77.8
	Lead as Pb	5.0	2.4
	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.
	Iron as Fe	-	36.9
	Manganese as Mn	10.0	7.2
	Zinc as Zn	250	58.1
	Lead as Pb	5.0	2.6
	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.
	Iron as Fe	-	16.2
	Manganese as Mn	10.0	8.6
	Zinc as Zn	250	60.8





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		Sample.	Parameter	Limit	Result
			Lead as Pb	5.0	3.2
			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.
		Fly Ash	Iron as Fe	-	51.2
			Manganese as Mn	10.0	4.1
			Zinc as Zn	250	78.0
			Lead as Pb	5.0	3.7
			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 complied 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.	Is being complied with. Solid waste utilization report is being submitted to the Ministry's Regional Office at Nagpur, CECB and CPCB and it is attached as Annexure-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.	33.28 % has been developed inside factory premises and Total of more than 40% of plantation is being developed including the outside plantation. Certified survey report by third party for Green Belt is Attached as Annexure-7 .			
x.	All the recommendations made in the charter on Corporate Responsibility for Environment	Complied.			





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Compliance report of the conditions stipulated in Environmental Clearance

	Protection (CREP) for the Ferro Alloys units shall be strictly implemented.	
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.
iv.	Continuous stack monitoring facilities for all the major stacks and adequate air pollution control system shall be provided to keep emission levels below within permissible limits and reports submitted to the Ministry's Regional Office at Bhopal and CECB/CPCB once in a six month.	Continuous emission monitoring facility have been installed to the common stack of 3.0 & 3.6 MVA submerged arc furnaces, common stack attached to 2 x 5.5 MVA submerged arc furnace, stack attached to 6.0 MVA submerged arc furnace and to the common stack of 12MT/Head CLU converter & Thermic plant. Adequate air pollution control system have been provided to keep the emission level well within permissible limits and monitoring report is being submitted regularly to the Regional Office & Head Office of the CECB, Raipur.





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Compliance report of the conditions stipulated in Environmental Clearance

Sr. No	Monitoring Stack	Month	Measured Concentration (mg/Nm ³)
1	AB Furnace (3.0 & 3.6 MVA Submerged Arc Furnace)	Oct'22	34.6
2		Nov'22	35.9
3		Dec'22	33.6
4		Jan'23	34.2
5		Feb'23	36.6
6		Mar'23	38.9
Sr. No	Monitoring Stack	Month	Measured Concentration (mg/Nm ³)
1	C Furnace (5.5 MVA Submerged Arc Furnace)	Oct'22	37.8
2		Nov'22	35.8
3		Dec'22	38.9
4		Jan'23	39.4
5		Feb'23	38.2
6		Mar'23	36.4
Sr. No	Monitoring Stack	Month	Measured Concentration (mg/Nm ³)
1	D Furnace (5.5 MVA Submerged Arc Furnace)	Oct'22	34.6
2		Nov'22	35.7
3		Dec'22	36.8
4		Jan'23	37.0





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		5		Feb'23	35.8
		6		Mar'23	37.6
		Sr. No	Monitoring Stack	Month	Measured Concentration (mg/Nm³)
		1	E Furnace (6.0 MVA Submerged Arc Furnace)	Oct'22	32.6
		2		Nov'22	33.9
		3		Dec'22	34.4
		4		Jan'23	34.9
		5		Feb'23	32.8
		6		Mar'23	35.9
		Sr. No	Monitoring Stack	Month	Measured Concentration (mg/Nm³)
		1	CLU Converter (12 MT/Heat)	Oct'22	26.8
		2		Nov'22	27.2
		3		Dec'22	29.8
		4		Jan'23	30.3
		5		Feb'23	31.7
		6		Mar'23	37.8
		Sr. No	Monitoring Stack	Month	Measured Concentra





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				tion (mg/Nm ³)																																																															
		1	Captive Power Plant (20 MW)	Oct'22	42.8																																																														
		2		Nov'22	Plant under shutdown																																																														
		3		Dec'22	Plant under shutdown																																																														
		4		Jan'23	Plant under shutdown																																																														
		5		Feb'23	Plant under shutdown																																																														
		6		Mar'23	Plant under shutdown																																																														
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 Ministry including its Regional Office at Bhopal and the CECB/CPCB once in six month.	<p>Is being complied with.</p> <p>Data on ambient air quality and stack emission is being submitted regularly to the Regional Office of the Ministry and CECB/CPCB. Please refer to the Annexure-8 (Stack emission data) mentioned above and Annexure-9 (Ambient air quality data) mentioned below:-</p> <table border="1"> <thead> <tr> <th rowspan="2">Sr. No</th> <th rowspan="2">Month</th> <th colspan="4">Near CHP Area</th> </tr> <tr> <th>PM₁₀ (µg/m³)</th> <th>PM_{2.5} (µg/m³)</th> <th>SO₂ (µg/m³)</th> <th>NO_x (µg/m³)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Oct'22</td> <td>68.2</td> <td>26.8</td> <td>13.2</td> <td>26.8</td> </tr> <tr> <td>2</td> <td>Nov'22</td> <td>67.1</td> <td>28.2</td> <td>8.4</td> <td>24.2</td> </tr> <tr> <td>3</td> <td>Dec'22</td> <td>66.4</td> <td>32.4</td> <td>14.2</td> <td>24.6</td> </tr> <tr> <td>4</td> <td>Jan'23</td> <td>66.8</td> <td>33.0</td> <td>15.0</td> <td>25.2</td> </tr> <tr> <td>5</td> <td>Feb'23</td> <td>67.4</td> <td>33.8</td> <td>16.4</td> <td>26.0</td> </tr> <tr> <td>6</td> <td>Mar'23</td> <td>67.8</td> <td>32.7</td> <td>16.6</td> <td>26.4</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th rowspan="2">Sr. No</th> <th rowspan="2">Month</th> <th colspan="4">Beside Silo</th> </tr> <tr> <th>PM₁₀ (µg/m³)</th> <th>PM_{2.5} (µg/m³)</th> <th>SO₂ (µg/m³)</th> <th>NO_x (µg/m³)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Oct'22</td> <td>62.6</td> <td>20.8</td> <td>8.6</td> <td>20.6</td> </tr> </tbody> </table>				Sr. No	Month	Near CHP Area				PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	1	Oct'22	68.2	26.8	13.2	26.8	2	Nov'22	67.1	28.2	8.4	24.2	3	Dec'22	66.4	32.4	14.2	24.6	4	Jan'23	66.8	33.0	15.0	25.2	5	Feb'23	67.4	33.8	16.4	26.0	6	Mar'23	67.8	32.7	16.6	26.4	Sr. No	Month	Beside Silo				PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	1	Oct'22	62.6	20.8	8.6	20.6
Sr. No	Month	Near CHP Area																																																																	
		PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)																																																														
1	Oct'22	68.2	26.8	13.2	26.8																																																														
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6	Mar'23	67.8	32.7	16.6	26.4																																																														
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	2	Nov'22	63.4	21.4	8.1	19.5													
	3	Dec'22	60.2	31.6	29.2	30.3													
	4	Jan'23	61.2	33.0	15.0	25.2													
	5	Feb'23	62.6	31.9	13.1	24.4													
	6	Mar'23	63.2	30.4	13.8	24.9													
	Sr. No	Month	Solar Panel Area																
			PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)													
	1	Oct'22	54.8	22.6	9.4	22.8													
	2	Nov'22	56.8	23.8	9.8	21.9													
	3	Dec'22	56.2	29.2	11.4	23.6													
	4	Jan'23	57.4	29.9	12.0	24.2													
	5	Feb'23	58.2	30.0	12.8	25.6													
	6	Mar'23	58.6	29.7	12.9	25.8													
	Sr. No	Month	Main Gate																
			PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)													
	1	Oct'22	60.2	24.6	10.8	28.4													
	2	Nov'22	61.3	23.7	11.2	22.4													
	3	Dec'22	58.6	30.3	12.4	26.8													
	4	Jan'23	58.6	31.2	13.4	27.3													
	5	Feb'23	59.4	32.1	14.5	27.7													
	6	Mar'23	60.4	32.6	14.7	28.0													
	vi.	<p>Industrial waste water shall be properly collected treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December 1993 or as amended from time to time. The treated waste water shall be utilized for plantation purpose.</p> <p>Is being complied with. Effluent Treatment Scheme is attached as Annexure-10. The treated water from siltation tank is utilized for Dust suppression, Water Sprinkling & Ash Conditioning. Wastewater Analysis Report is attached as Annexure-11.</p>																	
	<p style="text-align: center;">Effluent Analysis Report (Oct 2022)</p> <table border="1"> <thead> <tr> <th>Sr. No</th> <th>Parameter</th> <th>Unit</th> <th>Limit</th> <th>Inlet Water</th> <th>Outlet Water</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>pH</td> <td>-</td> <td>5.5 to</td> <td>8.47</td> <td>7.72</td> </tr> </tbody> </table>							Sr. No	Parameter	Unit	Limit	Inlet Water	Outlet Water	1	pH	-	5.5 to	8.47	7.72
	Sr. No	Parameter	Unit	Limit	Inlet Water	Outlet Water													
1	pH	-	5.5 to	8.47	7.72														





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			9.0		
2	TSS	mg /L	100	60	22
3	COD	mg /L	250	52	20
4	BOD	mg /L	30	13.6	5.2
5	Oil & Grease	mg /L	10	0.8	N.D.
Effluent Analysis Report (November 2022)					
S · N o	Parameter	Unit	Limit	Inlet Water	Outlet Water
1	pH	-	5.5 to 9.0	7.34	7.42
2	TSS	mg /L	100	66	24
3	COD	mg /L	250	110	34
4	BOD	mg /L	30	29.2	6.2
5	Oil & Grease	mg /L	10	0.6	N.D.
Effluent Analysis Report (December 2022)					
S · N o	Parameter	Unit	Limit	Inlet Water	Outlet Water
1	pH	-	5.5 to 9.0	8.14	7.32
2	TSS	mg /L	100	64	26
3	COD	mg /L	250	58	24
4	BOD	mg /L	30	14.2	5.6
5	Oil & Grease	mg /L	10	0.9	N.D.



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Effluent Analysis Report (January 2023)					
S · N o	Parameter	Unit	Limit	Inlet Water	Outlet Water
1	pH	-	5.5 to 9.0	8.47	7.38
2	TSS	mg /L	100	68	28
3	COD	mg /L	250	62	26
4	BOD	mg /L	30	16.71	7.42
5	Oil & Grease	mg /L	10	1.0	N.D.
Effluent Analysis Report (February 2023)					
S · N o	Parameter	Unit	Limit	Inlet Water	Outlet Water
1	pH	-	5.5 to 9.0	8.50	7.44
2	TSS	mg /L	100	70.4	30.8
3	COD	mg /L	250	64.6	28.2
4	BOD	mg /L	30	18.8	8.24
5	Oil & Grease	mg /L	10	1.1	N.D.
Effluent Analysis Report (March 2023)					
S · N o	Parameter	Unit	Limit	Inlet Water	Outlet Water
1	pH	-	5.5 to 9.0	8.48	8.12





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

		2	TSS	mg /L	100	8.7	3.2																																																																											
		3	COD	mg /L	250	44.0	8.0																																																																											
		4	BOD	mg /L	30	18.8	3.1																																																																											
		5	Oil & Grease	mg /L	10	Absent	Absent																																																																											
vii.	<p>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).</p>	<p>Is being complied with. Please refer Annexure-12 for Noise Monitoring Report.</p> <table border="1"> <thead> <tr> <th colspan="7">Noise Monitoring Report- Oct 2022</th> </tr> <tr> <th rowspan="2">S. No</th> <th rowspan="2">Location</th> <th rowspan="2">Unit</th> <th colspan="2">Limit</th> <th colspan="2">Result</th> </tr> <tr> <th>DAY</th> <th>NIGHT</th> <th>DAY</th> <th>NIGHT</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Near CHP Area</td> <td>Db (A)</td> <td rowspan="4">75</td> <td rowspan="4">70</td> <td>64.6</td> <td>52.4</td> </tr> <tr> <td>2</td> <td>Beside Silo</td> <td>Db (A)</td> <td>60.2</td> <td>50.8</td> </tr> <tr> <td>3</td> <td>Solar Panel Area</td> <td>Db (A)</td> <td>62.5</td> <td>54.2</td> </tr> <tr> <td>4</td> <td>Main Gate</td> <td>Db (A)</td> <td>56.8</td> <td>48.6</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="7">Noise Monitoring Report – November 2022</th> </tr> <tr> <th rowspan="2">S. No</th> <th rowspan="2">Location</th> <th rowspan="2">Unit</th> <th colspan="2">Limit</th> <th colspan="2">Result</th> </tr> <tr> <th>DAY</th> <th>NIGHT</th> <th>DAY</th> <th>NIGHT</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Near CHP Area</td> <td>Db (A)</td> <td rowspan="3">75</td> <td rowspan="3">70</td> <td>62.2</td> <td>53.4</td> </tr> <tr> <td>2</td> <td>Beside Silo</td> <td>Db (A)</td> <td>63.0</td> <td>51.2</td> </tr> <tr> <td>3</td> <td>Solar Panel Area</td> <td>Db (A)</td> <td>61.8</td> <td>52.5</td> </tr> </tbody> </table>						Noise Monitoring Report- Oct 2022							S. No	Location	Unit	Limit		Result		DAY	NIGHT	DAY	NIGHT	1	Near CHP Area	Db (A)	75	70	64.6	52.4	2	Beside Silo	Db (A)	60.2	50.8	3	Solar Panel Area	Db (A)	62.5	54.2	4	Main Gate	Db (A)	56.8	48.6	Noise Monitoring Report – November 2022							S. No	Location	Unit	Limit		Result		DAY	NIGHT	DAY	NIGHT	1	Near CHP Area	Db (A)	75	70	62.2	53.4	2	Beside Silo	Db (A)	63.0	51.2	3	Solar Panel Area	Db (A)	61.8	52.5
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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

o		Unit	DAY	NIGHT	DAY	NIGHT
1	Near CHP Area	Db (A)	75	70	66.7	54.8
2	Beside Silo	Db (A)			63.0	52.2
3	Solar Panel Area	Db (A)			64.5	56.5
4	Main Gate	Db (A)			58.1	50.8
Noise Monitoring Report – March 2023						
S. No	Location	Unit	Limit		Result	
			DAY	NIGHT	DAY	NIGHT
1	Near CHP Area	Db (A)	75	70	66.9	55.0
2	Beside Silo	Db (A)			63.4	52.8
3	Solar Panel Area	Db (A)			65.0	55.5
4	Main Gate	Db (A)			58.6	49.6
viii.	Occupation health surveillance of the workers shall be done on a regular basis and records maintained as per the Factory Act.	Occupation Health surveillance of the workers is maintained as per the Factory Act. A total of 556 employees and workers have been tested, sample reports are attached as Annexure-13 .				
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.				





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.	Complying. Company has constructed cremation center, toilets and intensive plantation have been done in surrounding areas.								
xi.	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.	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. <table border="1"><thead><tr><th rowspan="2">Sr. No</th><th colspan="2">Environmental Pollution Control Measures</th></tr><tr><th>Facility</th><th>Capital Cost and Recurring Cost for the period of Oct'22 to March'23 (Lakhs)</th></tr></thead><tbody><tr><td>01.</td><td>3.0 MVA, 3.6 MVA & 6.0 MVA submerged arc furnace, 12MT/Heat CLU converter and 600 MTPA Thermic Plant</td><td>163.34</td></tr></tbody></table>	Sr. No	Environmental Pollution Control Measures		Facility	Capital Cost and Recurring Cost for the period of Oct'22 to March'23 (Lakhs)	01.	3.0 MVA, 3.6 MVA & 6.0 MVA submerged arc furnace, 12MT/Heat CLU converter and 600 MTPA Thermic Plant	163.34
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01.	3.0 MVA, 3.6 MVA & 6.0 MVA submerged arc furnace, 12MT/Heat CLU converter and 600 MTPA Thermic Plant	163.34								
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. 2175/HPSL /U2 / CPP/22-23/2175, dated 24.11.2022 for the period of April 2022 to September 2022. 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	Complied.								





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

	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.	
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.





Coal Unloading using telehandler



Loader for shifting & stockpiling in coal shed



Rain gun



Rain gun



Rain gun



Fogging system on transfer points



Fogging system on transfer points



Fogging system on conveyor belt



Fogging system on conveyor belt



Covered shed for crusher



Covered vehicle transporting material



Concrete road



Concrete road



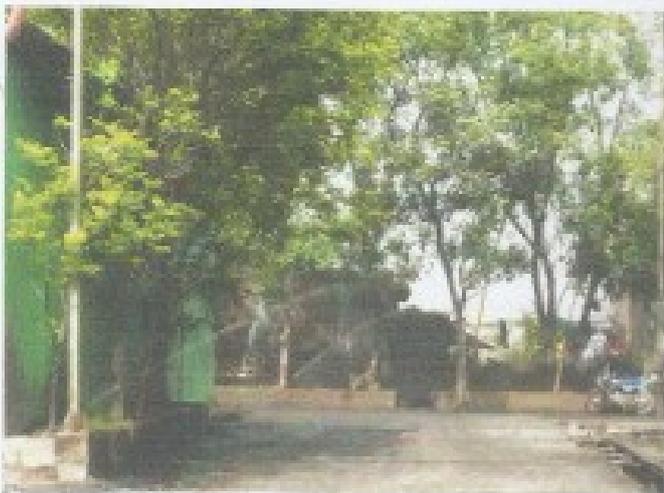
Concrete road



Concrete road



Concrete road



Water sprinkling on road



Water sprinkling on road



Water sprinkling using tanker



Mechanical sweeping of road



Mechanical sweeping of internal road



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

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

Name & Address Of The Customer		REPORT NO	UES/TR/22-23/09337		
To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		LAB REF NO	UES/22-23/FE/017912		
		DATE OF SAMPLING	10/03/2023		
		DATE OF RECEIPT	11/03/2023		
		DATE OF REPORT	15/03/2023		
		DATE OF ANALYSIS	Start:11/03/2023	End:15/03/2023	
		SAMPLE DETAILS			
MONITORING FOR	FUGITIVE EMISSION				
CUSTOMER REF. NO. & DATE	P.O. NO. 7200004006/U102, DATED: 16/06/2022				
SAMPLING LOCATION	A & B FURNACE				
DURATION OF SAMPLING	8 HOURS				
SAMPLE COLLECTED BY	LABORATORY CHEMIST				
SAMPLING PROCEDURE	AS PER METHOD REFERENCE				
SAMPLE QUANTITY/PACKING	GMF FILTER PAPER (8 X 10 INCH): 1X1 NO.				

TEST REPORT					
SR. NO.	PARAMETER	UNIT	RESULT	MOEF & CC Notification	METHOD REFERENCE
			A & B FURNACE		
1	Total Suspended Particulate Matter (as SPM)	$\mu\text{g}/\text{m}^3$	1470	2000	EPA Method IO-2.1

Note: All results are on the basis of 8 hour sampling.

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- 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

 15/03/2023 REVIEWED BY	 For ULTIMATE ENVIROLYTICAL SOLUTIONS	 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 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

Name & Address Of The Customer		REPORT NO	UES/TR/22-23/09338		
To, HIRA POWER AND STEEL LTD. KHASRA NO. : 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		LAB REF NO	UES/22-23/FE/017913		
		DATE OF SAMPLING	10/03/2023		
		DATE OF RECEIPT	11/03/2023		
		DATE OF REPORT	15/03/2023		
		DATE OF ANALYSIS	Start:11/03/2023	End:15/03/2023	
		SAMPLE DETAILS			
MONITORING FOR	FUGITIVE EMISSION				
CUSTOMER REF. NO. & DATE	P.O. NO. 7200004006/U102, DATED: 16/06/2022				
SAMPLING LOCATION	C & D FURNACE				
DURATION OF SAMPLING	8 HOURS				
SAMPLE COLLECTED BY	LABORATORY CHEMIST				
SAMPLING PROCEDURE	AS PER METHOD REFERENCE				
SAMPLE QUANTITY/PACKING	GMF FILTER PAPER (8 X 10 INCH): 1X1 NO.				

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	MOEF & CC Notification	METHOD REFERENCE
			C & D FURNACE		
1	Total Suspended Particulate Matter (as SPM)	$\mu\text{g}/\text{m}^3$	1380	2000	EPA Method IO-2.1

Note: All results are on the basis of 8 hour sampling.

REMARKS: RESULTS ARE AS ABOVE

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 15/03/2023 REVIEWED BY	 For ULTIMATE ENVIROLYTICAL SOLUTIONS	 AUTHORIZED SIGNATORY
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-----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 | Email : ultimatenviro@gmail.com

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Name & Address Of The Customer		REPORT NO	UES/TR/22-23/09339	
To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		LAB REF NO	UES/22-23/FE/017914	
		DATE OF SAMPLING	10/03/2023	
		DATE OF RECEIPT	11/03/2023	
		DATE OF REPORT	15/03/2023	
		DATE OF ANALYSIS	Start:11/03/2023	End:15/03/2023
SAMPLE DETAILS				
MONITORING FOR	FUGITIVE EMISSION			
CUSTOMER REF. NO. & DATE	P.O. NO. 7200004006/U102, DATED: 16/06/2022			
SAMPLING LOCATION	CONVERTOR CLU			
DURATION OF SAMPLING	8 HOURS			
SAMPLE COLLECTED BY	LABORATORY CHEMIST			
SAMPLING PROCEDURE	AS PER METHOD REFERENCE			
SAMPLE QUANTITY/PACKING	GMF FILTER PAPER (8 X 10 INCH): 1X1 NO.			

TEST REPORT

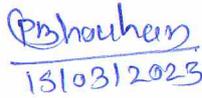
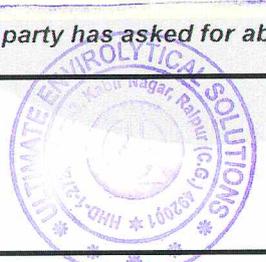
SR. NO.	PARAMETER	UNIT	RESULT	MOEF & CC Notification	METHOD REFERENCE
			CONVERTOR CLU		
1	Total Suspended Particulate Matter (as SPM)	$\mu\text{g}/\text{m}^3$	1448	2000	EPA Method IO-2.1

Note: All results are on the basis of 8 hour sampling.

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

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 13/03/2023 REVIEWED BY		For ULTIMATE ENVIROLYTICAL SOLUTIONS  AUTHORIZED SIGNATORY
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-----End of the test report-----



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Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

Name & Address Of The Customer		REPORT NO	UES/TR/22-23/09340		
To, HIRA POWER AND STEEL LTD. KHASRA NO. : 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		LAB REF NO	UES/22-23/FE/017915		
		DATE OF SAMPLING	10/03/2023		
		DATE OF RECEIPT	11/03/2023		
		DATE OF REPORT	15/03/2023		
		DATE OF ANALYSIS	Start:11/03/2023	End:15/03/2023	
		SAMPLE DETAILS			
MONITORING FOR	FUGITIVE EMISSION				
CUSTOMER REF. NO. & DATE	P.O. NO. 7200004006/U102, DATED: 16/06/2022				
SAMPLING LOCATION	RAW MATERIAL YARD				
DURATION OF SAMPLING	8 HOURS				
SAMPLE COLLECTED BY	LABORATORY CHEMIST				
SAMPLING PROCEDURE	AS PER METHOD REFERENCE				
SAMPLE QUANTITY/PACKING	GMF FILTER PAPER (8 X 10 INCH): 1X1 NO.				

TEST REPORT

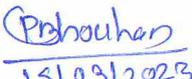
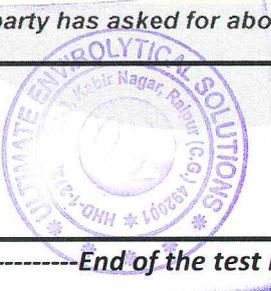
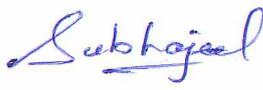
SR. NO.	PARAMETER	UNIT	RESULT	MOEF & CC Notification	METHOD REFERENCE
			RAW MATERIAL YARD		
1	Total Suspended Particulate Matter (as SPM)	$\mu\text{g}/\text{m}^3$	1384	2000	EPA Method IO-2.1

Note: All results are on the basis of 8 hour sampling.

REMARKS: RESULTS ARE AS ABOVE

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 15/03/2023 REVIEWED BY		For ULTIMATE ENVIROLYTICAL SOLUTIONS  AUTHORIZED SIGNATORY
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-----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 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

<i>Name & Address Of The Customer</i>		REPORT NO	UES/TR/22-23/09341		
To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		LAB REF NO	UES/22-23/FE/017916		
		DATE OF SAMPLING	10/03/2023		
		DATE OF RECEIPT	11/03/2023		
		DATE OF REPORT	15/03/2023		
		DATE OF ANALYSIS	Start:11/03/2023	End:15/03/2023	
		SAMPLE DETAILS			
MONITORING FOR	FUGITIVE EMISSION				
CUSTOMER REF. NO. & DATE	P.O. NO. 7200004006/U102, DATED: 16/06/2022				
SAMPLING LOCATION	CHP AREA				
DURATION OF SAMPLING	8 HOURS				
SAMPLE COLLECTED BY	LABORATORY CHEMIST				
SAMPLING PROCEDURE	AS PER METHOD REFERENCE				
SAMPLE QUANTITY/PACKING	GMF FILTER PAPER (8 X 10 INCH): 1X1 NO.				

TEST REPORT					
SR. NO.	PARAMETER	UNIT	RESULT	MOEF & CC Notification	METHOD REFERENCE
			CHP AREA		
1	Total Suspended Particulate Matter (as SPM)	$\mu\text{g}/\text{m}^3$	1428	2000	EPA Method IO-2.1

Note: All results are on the basis of 8 hour sampling.

REMARKS: RESULTS ARE AS ABOVE

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 15/03/2023 REVIEWED BY	 AUTHORIZED SIGNATORY	For ULTIMATE ENVIROLYTICAL SOLUTIONS AUTHORIZED SIGNATORY
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-----End of the test report-----



भारत सरकार
जल शक्ति मंत्रालय
जल संसाधन, नदी 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 Power And Steels Limited Unit li		
Project Address:	Urla Industrial Area		
Town:	Birgaon (m)	Block:	Dharsiwa
District:	Raipur	State:	Chhattisgarh
Pin Code:			
Communication Address:	Hira Power And Steels Ltd. Unit li, Urla Industrial Area, K.h. No. 511/1, 512/2, Dharsiwa, Raipur, Chhattisgarh - 492003		
Address of CGWB Regional Office :	Central Ground Water Board North Central Chhattisgarh, 2nd Floor, Lk Corporate And Logistic Park, Dhamtari Road, Nh-30, Dumartarai, Raipur, Chhattisgarh - 492015		

- | | | | |
|---|------------------------------|------------------------|------------|
| 1. NOC No.: | CGWA/NOC/IND/ORIG/2021/12176 | 3. Category: | Critical |
| 2. Application No.: | 21-4/1506/CT/IND/2018 | (GWRE 2017) | |
| 4. Project Status: | Existing Project | 5. NOC Type: | New |
| 6. Valid from: | 10/06/2021 | 7. Valid up to: | 09/06/2024 |
| 8. Ground Water Abstraction Permitted: | | | |

Fresh Water		Saline Water		Dewatering		Total	
m ³ /day	m ³ /year						
100.00	31820.00						

9. Details of ground water abstraction /Dewatering structures

Abstraction Structure*	Total Existing No.:4						Total Proposed No.:2					
	DW	DCB	BW	TW	MP	MPu	DW	DCB	BW	TW	MP	MPu
	0	0	4	0	0	0	0	0	2	0	0	0

*DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit;MPu-Mine Pumps

- | | |
|--|--------------------|
| 10. Ground Water Abstraction/Restoration Charges paid (Rs.): | 381840.00 |
| 11. Number of Piezometers(Observation wells) to be constructed/ monitored & Monitoring mechanism. | No. of Piezometers |

	Manual	DWLR**	DWLR With Telemetry
**DWLR - Digital Water Level Recorder	1	0	1
			0

(Compliance Conditions given overleaf)

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

18/11, जामनगर हाउस, मानसिंह रोड, 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 बचाये
SAVE WATER - SAVE LIFE

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

Mandatory conditions:

- 1) Installation of tamper proof digital water flow meter with telemetry on all the abstraction structure(s) shall be mandatory for all users seeking No Objection Certificate and intimation 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 meter calibrated from an authorized agency once in a year.
- 3) Construction of purpose-built observation wells (piezometers) 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 portal. Detailed guidelines for construction of piezometers are given in Annexure-II of the guidelines.
- 4) Proponents shall monitor quality of ground water from the abstraction structure(s) once in a year. Water samples from bore 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, pesticides/ organic compounds etc. Water quality data shall be made available to CGWA 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/ seepage from Govt. approved/ NABL accredited lab.
- 7) The firm shall report compliance of the NOC conditions online in the website (www.cgwa-noc.gov.in) within one year from the date of issue of this NOC.
- 8) Industries abstracting ground water in excess of 100 m³/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 20% 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 illegal & liable for legal 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 conservation structure/dischage of effluents 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 period).
- 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 rooftop 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 NOC 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 Hon'ble NGT/court orders in cases related to ground water or any other related matters.
- 24) Proponents, who have installed/constructed artificial recharge structures in compliance of the NOC granted to them previously and have availed rebate of upto 50% (fifty 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 washeries, 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 infiltration/harvesting.
- 28) 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.)



Chhattisgarh 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. : 22AABCM6288NSZY

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/

Raipur, Dated 22/01/2021

15479

**WATER AVAILABILITY/ NON-AVAILABILITY
CERTIFICATE FOR FRESH/TREATED WATER**

TO WHOMSOEVER IT MAY CONCERN

This is to certify 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

Executive Engineer
EXECUTIVE ENGINEER
Division
CSIDC LIMITED,
RAIPUR



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

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

<i>Name & Address Of The Customer</i>		REPORT NO.	UES/TR/22-23/09329
TO,		LAB REF NO.	UES/22-23/MISC/017905
HIRA POWER & STEELS LIMITED		DATE OF SAMPLING	10/03/2023
PLOT NO. 557, 563 & 564,		DATE OF RECEIPT	11/03/2023
URLA INDUSTRIAL COMPLEX, URLA,		DATE OF REPORT	15/03/2023
RAIPUR - 492003, CHHATTISGARH, INDIA		DATE OF ANALYSIS	Start: 11/03/2023 End: 15/03/2023
SAMPLE DETAILS			
CUSTOMER SAMPLE ID	AOD SLAG	CUSTOMER REF. NO. & DATE	VERBAL COMMUNICATION DATED: 10/03/2023
SAMPLE TYPE	SLAG	SAMPLE CONDITION AT RECEIPT	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	-	16.2
2	Manganese as Mn	mg/l	USEPA METHOD-1311	10.0	8.6
3	Zinc as Zn	mg/l	USEPA METHOD-1311	250	60.8
4	Lead as Pb	mg/l	USEPA METHOD-1311	5.0	3.2
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.

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.

<p><i>P. Ghoshan</i> 15/03/2023</p> <p>REVIEWED BY</p>		<p>For ULTIMATE ENVIROLYTICAL SOLUTIONS</p> <p><i>R. S. S.</i> 15/03/23</p> <p>AUTHORIZED SIGNATORY</p>
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-----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 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

<i>Name & Address Of The Customer</i>		REPORT NO.	UES/TR/22-23/09330
TO,		LAB REF NO.	UES/22-23/MISC/017906
HIRA POWER & STEELS LIMITED		DATE OF SAMPLING	10/03/2023
PLOT NO. 557, 563 & 564,		DATE OF RECEIPT	11/03/2023
URLA INDUSTRIAL COMPLEX, URLA,		DATE OF REPORT	15/03/2023
RAIPUR - 492003, CHHATTISGARH, INDIA		DATE OF ANALYSIS	Start: 11/03/2023 End: 15/03/2023
SAMPLE DETAILS			
CUSTOMER SAMPLE ID	Fe Mn SLAG	CUSTOMER REF. NO. & DATE	VERBAL COMMUNICATION DATED: 10/03/2023
SAMPLE TYPE	SLAG	SAMPLE CONDITION AT RECEIPT	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	-	71.0
2	Manganese as Mn	mg/l	USEPA METHOD-1311	10.0	5.4
3	Zinc as Zn	mg/l	USEPA METHOD-1311	250	50.6
4	Lead as Pb	mg/l	USEPA METHOD-1311	5.0	1.1
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.

Note: N.D. - Not Detected

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

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

Pranouhar
15/03/2023

REVIEWED BY



For ULTIMATE ENVIROLYTICAL SOLUTIONS

R. B. Ch
15/03/23

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 | Email : ultimatenviron@gmail.com

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<i>Name & Address Of The Customer</i>		REPORT NO.	UES/TR/22-23/09331
TO,		LAB REF NO.	UES/22-23/MISC/017907
HIRA POWER & STEELS LIMITED		DATE OF SAMPLING	10/03/2023
PLOT NO. 557, 563 & 564,		DATE OF RECEIPT	11/03/2023
URLA INDUSTRIAL COMPLEX, URLA,		DATE OF REPORT	15/03/2023
RAIPUR - 492003, CHHATTISGARH, INDIA		DATE OF ANALYSIS	Start: 11/03/2023 End: 15/03/2023
SAMPLE DETAILS			
CUSTOMER SAMPLE ID	Fly Ash	CUSTOMER REF. NO. & DATE	VERBAL COMMUNICATION DATED: 10/03/2023
SAMPLE TYPE	SLAG	SAMPLE CONDITION AT RECEIPT	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	-	51.2
2	Manganese as Mn	mg/l	USEPA METHOD-1311	10.0	4.1
3	Zinc as Zn	mg/l	USEPA METHOD-1311	250	78.0
4	Lead as Pb	mg/l	USEPA METHOD-1311	5.0	3.7
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.

Note: N.D. - Not Detected

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

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<p><i>P. Prabhakar</i> 15/03/2023</p>		<p>For ULTIMATE ENVIROLYTICAL SOLUTIONS</p> <p><i>R. Bell</i> 15/03/23</p>
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 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

<i>Name & Address Of The Customer</i>		REPORT NO.	UES/TR/22-23/09332
TO,		LAB REF NO.	UES/22-23/MISC/017908
HIRA POWER & STEELS LIMITED		DATE OF SAMPLING	10/03/2023
PLOT NO. 557, 563 & 564,		DATE OF RECEIPT	11/03/2023
URLA INDUSTRIAL COMPLEX, URLA,		DATE OF REPORT	15/03/2023
RAIPUR - 492003, CHHATTISGARH, INDIA		DATE OF ANALYSIS	Start: 11/03/2023 End: 15/03/2023
SAMPLE DETAILS			
CUSTOMER SAMPLE ID	MOx DUST	CUSTOMER REF. NO. & DATE	VERBAL COMMUNICATION DATED: 10/03/2023
SAMPLE TYPE	SLAG	SAMPLE CONDITION AT RECEIPT	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	-	70.2
2	Manganese as Mn	mg/l	USEPA METHOD-1311	10.0	6.8
3	Zinc as Zn	mg/l	USEPA METHOD-1311	250	77.8
4	Lead as Pb	mg/l	USEPA METHOD-1311	5.0	2.4
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.

Note: N.D. - Not Detected

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

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 13/03/2023		For ULTIMATE ENVIROLYTICAL SOLUTIONS 15/03/23
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 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

<i>Name & Address Of The Customer</i>		REPORT NO.	UES/TR/22-23/09333
TO,		LAB REF NO.	UES/22-23/MISC/017909
HIRA POWER & STEELS LIMITED		DATE OF SAMPLING	10/03/2023
PLOT NO. 557, 563 & 564,		DATE OF RECEIPT	11/03/2023
URLA INDUSTRIAL COMPLEX, URLA,		DATE OF REPORT	15/03/2023
RAIPUR - 492003, CHHATTISGARH, INDIA		DATE OF ANALYSIS	Start: 11/03/2023 End: 15/03/2023
SAMPLE DETAILS			
CUSTOMER SAMPLE ID	POLLUTION DUST	CUSTOMER REF. NO. & DATE	VERBAL COMMUNICATION DATED: 10/03/2023
SAMPLE TYPE	SLAG	SAMPLE CONDITION AT RECEIPT	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	-	36.9
2	Manganese as Mn	mg/l	USEPA METHOD-1311	10.0	7.2
3	Zinc as Zn	mg/l	USEPA METHOD-1311	250	58.1
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.

Note: N.D. - Not Detected

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

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

Prabhakar
13/03/2023

REVIEWED BY



For ULTIMATE ENVIROLYTICAL SOLUTIONS

R. B. Mehta
15/03/23

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 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

<i>Name & Address Of The Customer</i>		REPORT NO.	UES/TR/22-23/09334	
TO, HIRA POWER & STEELS LIMITED PLOT NO. 557, 563 & 564, URLA INDUSTRIAL COMPLEX, URLA, RAIPUR - 492003, CHHATTISGARH, INDIA		LAB REF NO.	UES/22-23/MISC/017910	
		DATE OF SAMPLING	10/03/2023	
		DATE OF RECEIPT	11/03/2023	
		DATE OF REPORT	15/03/2023	
		DATE OF ANALYSIS	Start: 11/03/2023	End: 15/03/2023
		SAMPLE DETAILS		
CUSTOMER SAMPLE ID	THERMITE SLAG	CUSTOMER REF. NO. & DATE	VERBAL COMMUNICATION DATED: 10/03/2023	
SAMPLE TYPE	SLAG	SAMPLE CONDITION AT RECEIPT	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	-	77.7
2	Manganese as Mn	mg/l	USEPA METHOD-1311	10.0	6.0
3	Zinc as Zn	mg/l	USEPA METHOD-1311	250	30.1
4	Lead as Pb	mg/l	USEPA METHOD-1311	5.0	1.0
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.

Note: N.D. - Not Detected

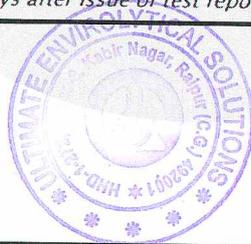
REMARKS: RESULTS ARE AS ABOVE

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.

P. Bhoirhan
15/03/2023

REVIEWED BY



For ULTIMATE ENVIROLYTICAL SOLUTIONS

R. B. Bhoirhan
15/03/23

AUTHORIZED SIGNATORY

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

HIRA

HIRA POWER & STEELS



Ref: 2022/HPSL/2023-24/2022

Date: 18.04.2023

To,
The Regional Officer,
Regional Office,
Chhattisgarh Environment Conservation Board,
Commercial Complex, Chhattisgarh Housing Board Colony,
KABIR NAGAR, RAIPUR (C.G.)-492099

Sub: Fly ash utilization annual report / return for the financial year 2022-23

Respected Sir,

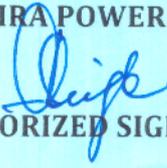
With reference to above cited subject, we are submitting herewith fly ash utilization annual Report/Return **(Annexure-I)** for the financial year 2022-23 **(April 1st 2022 to March 31st 2023)** for your ready reference and record, please.

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: As above.

- 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
3. The Scientist, Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Aranya Bhawan, North Block, Sector-19, Atal Nagar, Nava Raipur, 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.hpslindia.com, www.hiragroupindia.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 2022-23 (April 1st 2022 to March 31st 2023)

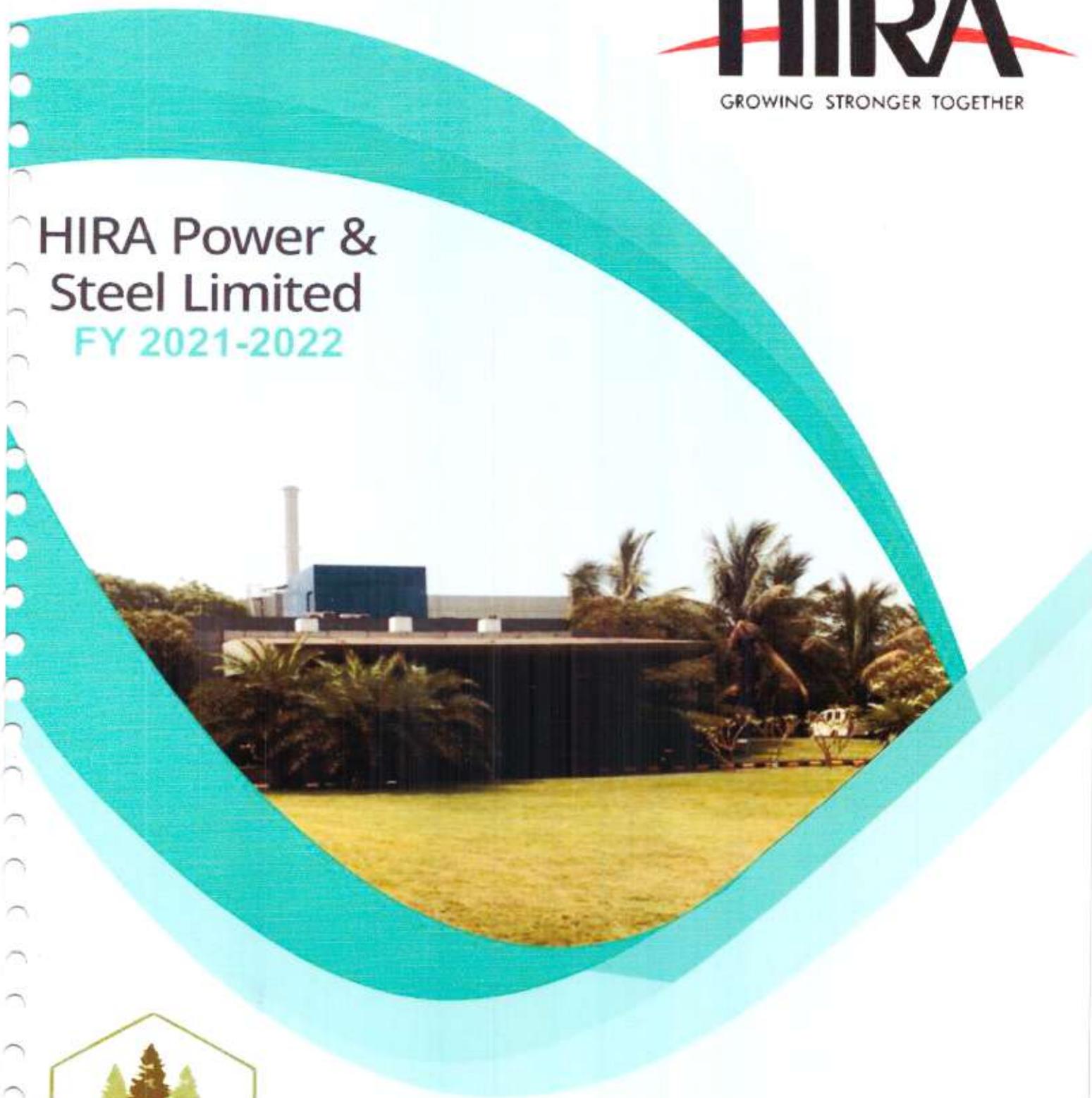
Sr. No.	Month	Fly Ash Generation in the Month (MT)	Supply to the Cement Plant (MT)	Brick Manufacturing (MT)	Land Filling (MT)	Ash Dyke Raising / Construction (MT)	Agriculture (MT)	Mine Filling (MT)	Any Other Use (MT)	Total (MT)	Percentage (%)
4	Apr-22	7560.12	0.00	7560.12	0.00	0.00	0.00	0.00	0.00	7560.12	100.00
5	May-22	7861.76	0.00	7861.76	0.00	0.00	0.00	0.00	0.00	7861.76	100.00
6	Jun-22	8459.14	0.00	8459.14	0.00	0.00	0.00	0.00	0.00	8459.14	100.00
7	Jul-22	6598.99	0.00	6598.99	0.00	0.00	0.00	0.00	0.00	6598.99	100.00
8	Aug-22	8987.80	0.00	8987.80	0.00	0.00	0.00	0.00	0.00	8987.80	100.00
9	Sep-22	8471.49	0.00	8471.49	0.00	0.00	0.00	0.00	0.00	8471.49	100.00
10	Oct-22	7962.55	0.00	7962.55	0.00	0.00	0.00	0.00	0.00	7962.55	100.00
11	Nov-22	2628.00	0.00	2628.00	0.00	0.00	0.00	0.00	0.00	2628.00	100.00
12	Dec-22		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
13	Jan-23		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
14	Feb-23		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
15	Mar-23		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
Total		58529.85	0.00	58529.85	0.00	0.00	0.00	0.00	0.00	58529.85	100.00

*Note - Our Captive Power plant is under Temporary Shutdown from 11.11.2022





**HIRA Power &
Steel Limited**
FY 2021-2022



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

**Green Belt
& Evaluation
REPORT**

PLANTATION: SURVEY & EVALUATION REPORT OF M/s HIRA POWER & STEEL LTD. UNIT-II

INDEX

S. N.	PARTICULARS	PAGE
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	Executive Summary	1
	Introduction	1
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Evaluation of Greenbelt Development

For

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

**KHASRA No. 511/1, 512/2, URLA INDUSTRIAL
COMPLEX, URLA, RAIPUR (C. G.)**

**Survey & Evaluation by –“Society for Environment &
Integrated Development Raipur” Raipur (CG)**

PART - A

EXECUTIVE SUMMARY

INTRODUCTION:

M/s HIRA POWER & STEEL LIMITED is located at Urla industrial area, Raipur. District - Raipur (C.G.)

- ❖ Regd. office - M/s Hira Power & Steel Limited- Unit - II, 511/1,512/2, Urla Industrial Complex, Raipur, Pin code - 492003 (C. G.)

1. ABOUT PROJECT

As per information provided by M/s Hira Power & Steel Limited Raipur, Details of project are as under:-

- I. 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.
- II. Ferro Alloys - 30,000 MTPA, Or 56,000 MTPA Pig Iron from 2×5.5 MVA Submerged Arc Furnaces.
- III. Captive Power Plant - 20 MW

Three rows of plantation of native species have been developed all along the periphery of plant. Tree density is approximate 2500 per ha. Development of green belt and other forms of greenery like road side and village level plantation in the nearest village shall also help in improve ecological conditions and biodiversity status of the study area. Green belt helps to capture the fugitive emission and attenuate the noise apart from improving the aesthetic quality of the region.

Plantation species act as bio-monitoring agent and helps in maintaining the project environment healthy by provide more oxygen. The two areas of air pollution by gases and by dust need to be urgently attended to, using plants. Keeping this in mind, mitigation measures have been suggested to develop green belt based on spatial and physical conditions of the areas "Green with Purpose" Drives.

Survey & Evaluation work was allotted by M/s HIRA POWER STEEL LTD. to our organization "Society for Environment & Integrated Development Raipur" Raipur (CG), work order was issued by M/s Hira Power & Steel Ltd. vide S.O. No.7200003880/1/102 Dated: 25th April 2022 Plantation survey has been carried out by expert team with the help of M/s Hira Power & Steel Ltd. management and office staffs.

2. PROJECT OBJECTIVE

- I. Field Survey
- II. Verification of Plantation area
- III. Evaluation of Plantation area within and outside of plant premises.

3. AREA DESCRIPTION:

Hira Power & Steel Ltd. (Raipur) Plant – Total Land Area – 17.60 Ha. (Approx) (Plantation Area – 5.86 Hectare Approx)

4. YEAR WISE PLANTATION DESCRIPTION

During the field survey and field study by our technical team found that, plantation work was started from the year 1994-95 and is continued till date. The tree plantation has been carried out in a phased manner with local species. M/s HIRA POWER AND STEEL LTD. has planted 5.86 Hectare area which is 33.30% of total project area (17.60 Hectare)

Plantation work was carried out within and outside of plant premises by the M/s HIRA POWER AND STEEL LTD. Year wise plantation is given in the Chart as per information provided by M/s HIRA POWER AND STEEL LTD.

5. PLANTATION SITES

Plantation work has been along the plant boundary, inside the plant premises, roadside and aerodrome garden development area. Plantation area in the **Table: No. -1**. The information provided by M/s Hira Power & Steel Ltd.

Table: No. -1.

S. n.	Year	Unit - II	Roadside	Aerodrome Garden
1.	Up to 2019-20	14000+1252	2600	2500
2.	2020-21	1326	0	0
3.	Gape Filings, 2021-22	500	400	0
4.	Total=	17078	3400	2500

I. At Unit -2, Plant Campus area.

a. Plant premises area.

b. Admin building (Office area)

II. Roadside area.

III. Airport Garden

• Roadside Plantation:

Table: No. -2.

S n.	Location of plantation	Length in Kilometer
1.	Unit -II main gate to Young India choak, Police Station around road both side	3½ K.M. (Approx)

Boundary wall has been constructed on the places factory, Due to this construction expected damage from cattle 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 observed very well.

PART - B

1. PHYSICAL VERIFICATION AND EVALUATION OF PLANTATION (GREENBELT) (Casualty replacement (Gap filing) REPORT YEAR OF 2021-22.

Table No. 3. Species wise measurement

SN	Species	Average		Maximum		Minimum	
		Girth (cm)	Height (m)	Girth (cm)	Height (m)	Girth (cm)	Height (m)
1.	Peltophorum	7.7	2.56	14	4.20	3	1.35
2.	MoulShri (Bakul)	5.92	1.56	10	3	2	0.20
3.	Badam	2.19	7.33	8	2.40	6	1.90
4.	Cassia siamea	7.3	2.25	14	4	4	0.45
5.	Arjun (Kahuwa)	8.89	1.04	28	2.50	2	0.45
6.	Neem	6.44	2	10	3	5	1.20
7.	Karanj	8.09	1.71	12	2.00	2	0.30
8.	Akash Neem	7.66	2.05	10	2.40	6	1.90
9.	Alastoia	11.85	2.35	14	2.50	2	2.10
10.	Amaltas	3.4	1.57	7	9.50	2	0.20
11.	Conocarpes	5.06	1.62	8	2.20	3	0.40
12.	Arjun (Kahuwa)	6.89	1.04	15	2.50	4	0.45
13.	Bogunvelia	6.15	1.5	8	2.70	5	0.70
14.	Rain tree	8.05	1.58	12	2.50	3	0.60
15.	PultanJiva	7.66	2.05	10	2.40	6	1.90
16.	Kadamba	6.75	0.96	14	3.50	4	0.45
17.	Pipal	5.10	1.34	8	1.80	5	1.00
18.	Kaner	4.60	0.68	12	2.80	4	0.50

Table: No. -4. Evaluation - Plantation and Causality Replacements

PLANTATION AREA	FINANCIAL YEAR	Planted Plants No.
Plant premises and admin building area	2019-20	15252
Aerodrome area	2019-20	2500
Roadside area	2020-21	3926
		21678
Causality Replacements (Survived Plants during survey 2021-22)		
Plantation area	Financial Year	Planted Plants No.
Plant premises Unit- II	2021-22	500
Road Side (3½ K.M. (Approx))	2021-22	480

Table: No. -5.

Total Plantation Area	Planted Plants	Survival as per survey	Survival %
5.86ha. +Road Side (3½ k.m. (Approx)) and Aerodrome garden area	22658	18650	82%

2. METHODOLOGY

- I. Counting - All Plants, Trees and Sapling of all sites are counted.
- II. Measurements - Height and Girth of Trees, Plants and Sapling are taken randomly.
- III. Measurements are recorded.
- IV. Survival percentage was recorded.
- V. All planted areas were inspected.
- VI. Photographs have been taken so as to show real picture of plantation at the site details of species.


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3. GRADING OF PLANTATION

Grade Card Year -2021-22

A. Grading of Plantation on scale of 1 to 10

Qualitative Aspects	Survival	9.00
	Health of Plantation	8.00
	Maintenance	8.50
	Sustainability	8.00

B. Grading of Project plantation on scale 1 to 10

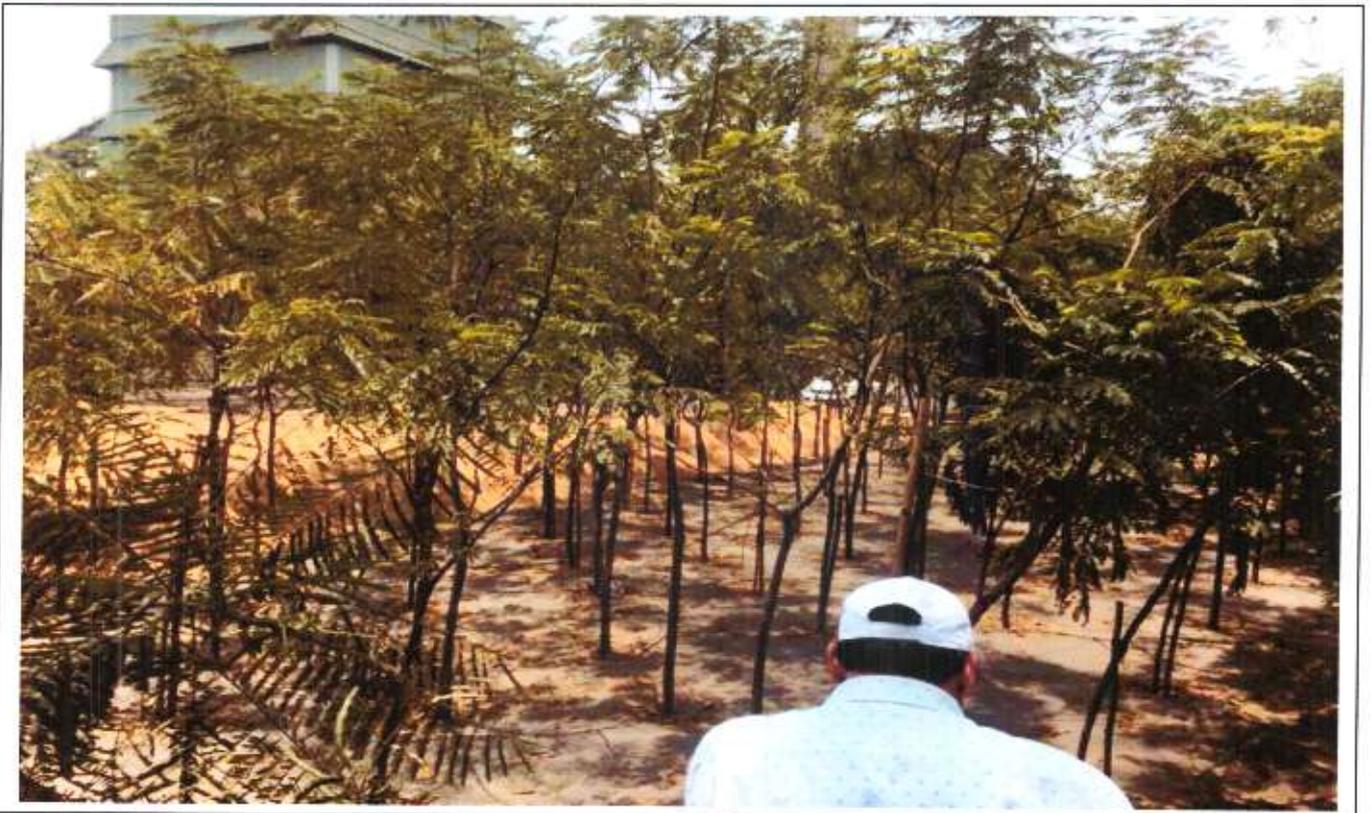
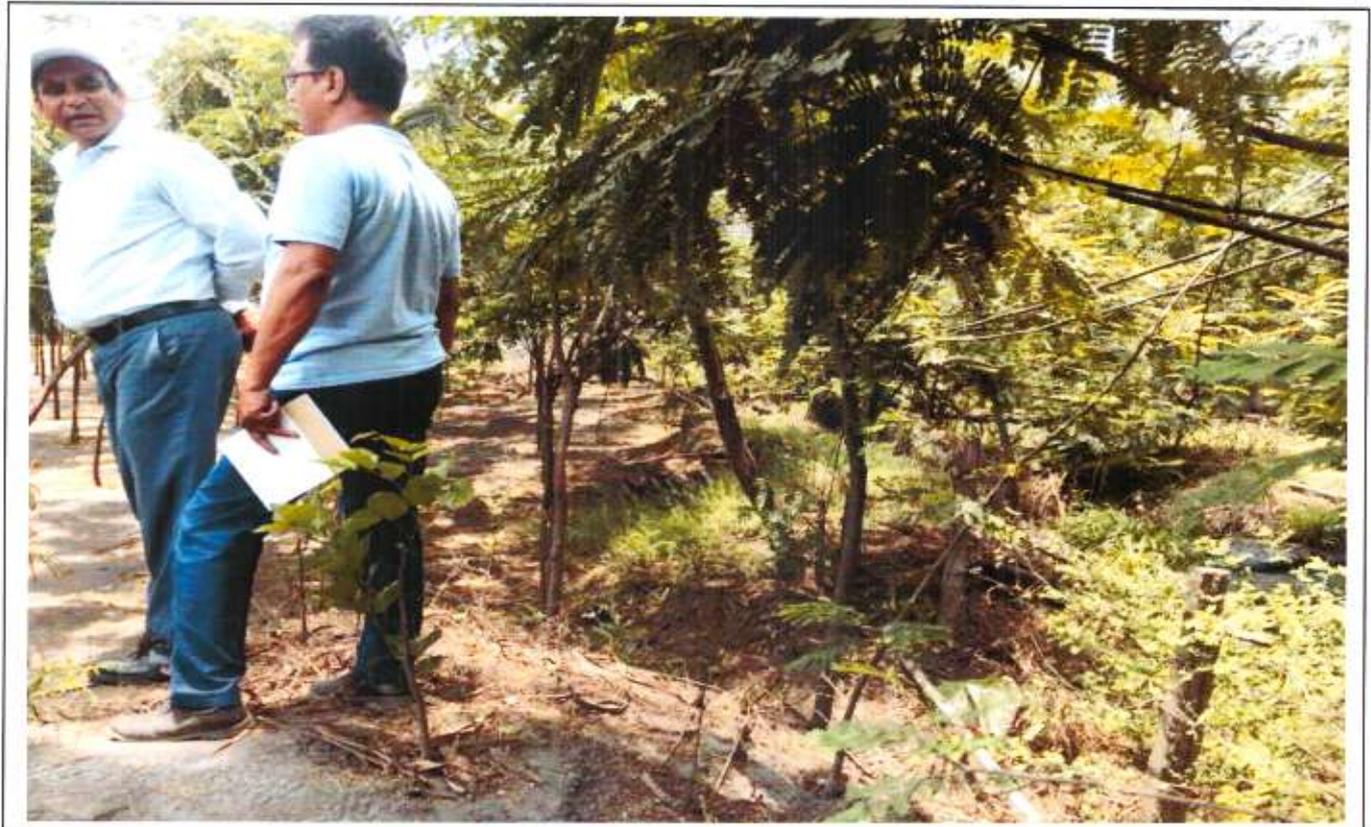
Overall Grading of Plantation	Outstanding (Excellent) (8<10)	Very Good (5<8)	Good (3<5)	Poor (>3)
		8.37		

4. Picture of Plantation

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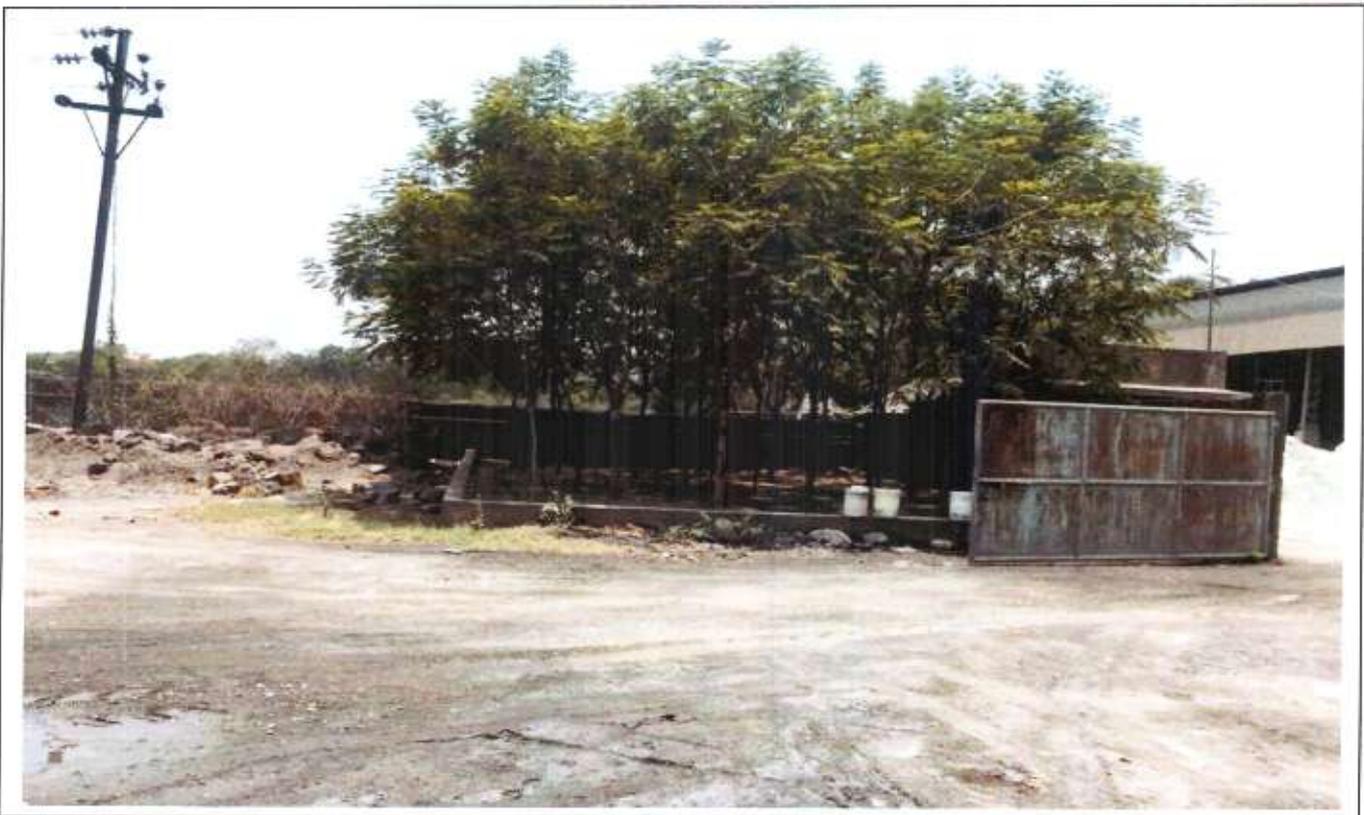
M/s HIRA POWER & STEEL LIMITED. URLA, RAIPUR (C. G.)



M/s HIRA POWER & STEEL LIMITED. URLA, RAIPUR (C. G.)



M/s HIRA POWER & STEEL LIMITED. URLA, RAIPUR (C. G.)



M/s HIRA POWER & STEEL LIMITED. URLA, RAIPUR (C. G.)



M/s HIRA POWER & STEEL LIMITED. URLA, RAIPUR (C. G.)



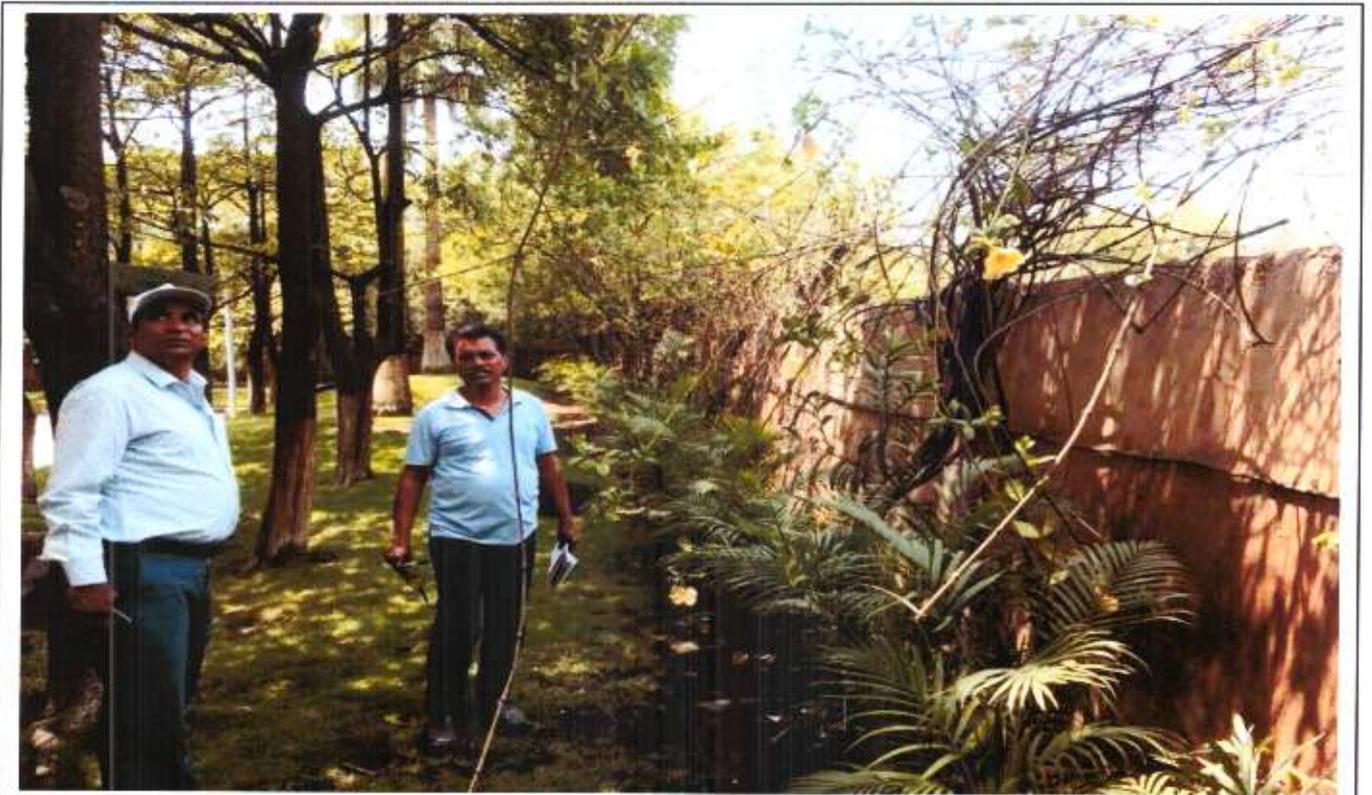
CERTIFICATE

Certified that our Survey and Evaluation Expert Team Counted all Trees, Plants, Saplings of M/s HIRA POWER & STEEL Ltd., Industrial Complex, Urla, Raipur and Found 18650 of Total 22658 Planted Plants and Covered as Green Belt 7.46 Ha. (app.) Area.

DATE :18/05/2022


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इन्टीग्रेटेड डेवेलपमेंट रायपुर
"SOCIETY FOR ENVIRONMENT & INTEGRATED DEVELOPMENT RAIPUR"

6. Pictures of Plantation



M/s HIRA POWER & STEEL LIMITED. URLA, RAIPUR (C. G.)



M/s HIRA POWER & STEEL LIMITED. URLA, RAIPUR (C. G.)



M/s HIRA POWER & STEEL LIMITED. URLA, RAIPUR (C. G.)



7. DISCUSSION WITH MANAGEMENT AND STAFF NAME AS UNDER :

1. Shri Aviral Tiwari : Senior Manager Environment
2. Shri Mahesh Verma : Senior Officer Horticulture

8. SUGGESTION FOR IMPROVEMENT :

1. Species – Fast growing to be planted.
2. Given priority to broader leaves plants.
3. Plant to be not less than one year in age and 1 meter height.
4. Space 2x2, 3x3 and maximum 4x4 according to maximum girth of trees after maturity.
5. Species may be chosen as under – Teak, Khamar, Kadamba, Acacia, Peltophorum, Conocarpus, Shisham, Pipal, Neem, Amaltas, Gulmohar, Karanja, Jamun, Bargad, Palm, Badam, Mahaneem, Bamboo etc.
6. Increase irrigation facility more to plants.
7. Soil of pits should be changed in hard soil area.
8. In waterlogged area “Kahuwa” (Arjun) should be planted.
9. Teak should be planted in hard soil area.
10. Plants to be planted regularly every year including mortality replacement.
11. Germination Time – Humic Oxide can be used for better results.
12. Manure – Compost, Vermi compost, DAP, Zhaim also to be used.
13. Termite and other pets control – Cholorocyper, Imida combine.
14. Planting work to be done in June and July.
15. Mortality should not be counted for increase in area.
16. It is compulsory to have a water pipe line for the proper growth of the planted plants.
17. Compound wall is very necessary for protection of plants. Damage by human and animal
18. Grazing should be prohibited strictly.


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A WORD OF APPRECIATION

We appreciate all management officers and staff of M/s HIRA POWER & STEEL LTD. Who has taken step to develop the greenbelt & greenness of the area we found that sapling has been taken care well after plantation.

We appreciate the commitment and their efforts taken by the management for developing the greenbelt & greenery within & outside of plant premises.


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(Society for Environment & Integrated Development Raipur)

Chhattisgarh

THE TEAM INVOLVED IN SURVEY & EVALUATION

No.	Name	JOB	EXPERIENCE
1.	Mr. D.K. Tiwari	Coordinator	14yrs Experience of monitoring & Evaluation work
2.	Shri Kamlesh Dubey	Investigator	6 yrs experience of field survey of organizational work
3.	Mr. Jasvir Singh Viridi	Investigator	5 yrs Experience of field survey of organizational work

'EXECUTIVE BODY OF 'SEIDR'

No.	Post	Name	Experience
1.	President	Mr. S. K. Roy	Retd. A.C.F. C.G Govt.
2.	Vice President	Smt. Shobha Mishra	Professional
3.	Secretary	Smt. Asha Tiwari	Professional
4.	Joint Secretary	Mr. Kamlesh Ducey	Self Employed
5.	Treasurer	Mr. D.K. Tiwari	Professional


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ABOUT THE EVALUATION AGENCY

Organization Profile

Name of Organization Society for Environment & Integrated Development Raipur.(SEIDR)
Status Non Government Organization (NGO)
And working as development and welfare facilitator.

Registration Detail

No.& Date of registration C.G. State – 3270, Date – 01.03.2011,
Registration under Society Registration Act 1973.
Resource center Address J – 9/A, ShriRannagar, phase – I
Street – II. P.O. – Shankar nagar Raipur (C.G.) Pin – 492004.
Phone +91 -771 – 3587611
Chief Functionary Mr. S. K. ROY (Retd. ACF Chhattisgarh Forest)
Contact Person Mr. D. K. Tiwari
Mobile – 098261_86813, 096695_77114
Mail at seidraipur@gmail.com
Bank with State Bank of India,
Vip Estate, colony Raipur (C.G.)
Bank Account No. Current A/C: 35731546062
Branch IFSC Code: SBIN0013004, SWIFT
PAN AAHAS3608L

SEIDR MISSION

Is to release the creative energies resources and aspirations of the poor, especially tribes, dalits 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

SEIDR is society based on the values of genuine democracy, equality and peace for all its citizens, where people and government play their respective roles effectively with transparency and accountability.

Area of Operation

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

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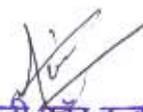
OTHER MEMBER OF EXECUTIVE BODY

NO.	NAME	EXPERIENCE
1.	Mr. Varun Tiwari	Advocate
2.	Mr. PrabhatPānday	Electrical Engineer
3.	Mr. Jasveer sing	Professional
4.	Mr. AsheeshShrivastav	Businessman
5.	Mr. M.A. Sidqki	Retd. Forest Range Asst.
6.	Mr. Laxmi Prasad Murchulia	Retd. Forester
7.	Smt. Nirmala Tiwari	Advocate
8.	Mr. Rahul Dubey	Wax chemist
9.	Mr. AkhilShrivastav	Professional
10.	Mr. Kamles Dubey	Professional

MEMBER OF ADVISORY COMMITTEE

No.	Name	Experience
1.	Mr. D. P. Varma	Hydro Geologist
2.	Mr. S. K. Shrivastava	Civil Engineer
3.	Mr. Varun Tiwari	Labor Court Advocate
4.	Mr. DilipShrivastava	Income tax Advisor

THANK YOU.


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Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | 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 AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003	REPORT NO.	UES/TR/22-23/03783	
	LAB REF NO.	UES/22-23/ST/09330	
	DATE OF SAMPLING	11/10/2022	
	DATE OF RECEIPT	13/10/2022	
	DATE OF REPORT	18/10/2022	
	DATE OF ANALYSIS	Start:13/10/2022	End:18/10/2022
SAMPLE DETAILS			
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' (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		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 level (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	-	110
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	12.8
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	55163.9
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	34.6

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

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



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<i>Name & Address Of The Customer</i> To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003	REPORT NO.	UES/TR/22-23/03784	
	LAB REF NO.	UES/22-23/ST/09331	
	DATE OF SAMPLING	11/10/2022	
	DATE OF RECEIPT	13/10/2022	
	DATE OF REPORT	18/10/2022	
	DATE OF ANALYSIS	Start:13/10/2022	End:18/10/2022
SAMPLE DETAILS			
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 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 ₂ : 30 ml X 1 No. PVC Bottle, NO _x : 25 ml X 1 No. PVC Bottle, Rubber Bladder: 1 X 1 No.,		

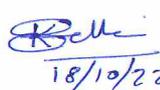
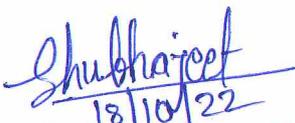
TEST REPORT

Stack details				
Stack Identity				5.5 MVA SUBMERGED ARC 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	-	114
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	13.8
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	58858.9
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 Customer To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003	REPORT NO.	UES/TR/22-23/03785	
	LAB REF NO.	UES/22-23/ST/09332	
	DATE OF SAMPLING	11/10/2022	
	DATE OF RECEIPT	13/10/2022	
	DATE OF REPORT	18/10/2022	
	DATE OF ANALYSIS	Start:13/10/2022	End:18/10/2022
SAMPLE DETAILS			
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 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 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)	5.5 MVA			
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	-	9.68
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	41286.5
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	34.6

REMARKS: RESULTS ARE AS ABOVE

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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.	UES/TR/22-23/03786	
	LAB REF NO.	UES/22-23/ST/09333	
	DATE OF SAMPLING	11/10/2022	
	DATE OF RECEIPT	13/10/2022	
	DATE OF REPORT	18/10/2022	
	DATE OF ANALYSIS	Start:13/10/2022	End:18/10/2022
SAMPLE DETAILS			
Monitoring For	Stack Emission Monitoring		
Customer Ref. No. & Date	P.O. NO. 7200004006/U102, DATED: 16/06/2022		
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 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			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	-	112
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	8.4
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	73496.5
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	32.6

REMARKS: RESULTS ARE AS ABOVE

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 18/10/22 REVIEWED BY		For ULTIMATE ENVIROLYTICAL SOLUTIONS 18/10/22 AUTHORIZED SIGNATORY
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-----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 | Email : ultimatenviro@gmail.com

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<i>Name & Address Of The Customer</i> To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003	REPORT NO.	UES/TR/22-23/03787	
	LAB REF NO.	UES/22-23/ST/09334	
	DATE OF SAMPLING	11/10/2022	
	DATE OF RECEIPT	13/10/2022	
	DATE OF REPORT	18/10/2022	
	DATE OF ANALYSIS	Start:13/10/2022	End:18/10/2022
SAMPLE DETAILS			
Monitoring For	Stack Emission Monitoring		
Customer Ref. No. & Date	P.O. NO. 7200004006/U102, DATED: 16/06/2022		
Sampling Location	CLU Converter & Thermitite (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.,		

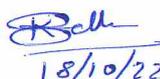
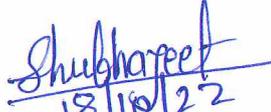
TEST REPORT

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 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	-	108
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	9.6
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	111763.5
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	40	26.8

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



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<i>Name & Address Of The Customer</i>		REPORT NO.	UES/TR/22-23/03788	
To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		LAB REF NO.	UES/22-23/ST/09335	
		DATE OF SAMPLING	11/10/2022	
		DATE OF RECEIPT	13/10/2022	
		DATE OF REPORT	18/10/2022	
		DATE OF ANALYSIS	Start:13/10/2022	End:18/10/2022
SAMPLE DETAILS				
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., SO₂: 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		RCC		
Height of the stack from ground level (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	-	20.8
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	351597.4
Sulphur Dioxide (SO₂)	mg/Nm ³	IS 11255 (Part 2):1985, RA 2003	600	254
Oxides of Nitrogen (NO_x)	mg/Nm ³	IS 11255 (Part 7):2005, RA 2012	300	124
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	42.8
Carbon Monoxide (CO)	mg/ Nm ³	IS 13270:2019	-	6.8
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 To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003	REPORT NO.	UES/TR/22-23/04502	
	LAB REF NO.	UES/22-23/ST/10342	
	DATE OF SAMPLING	22/11/2022	
	DATE OF RECEIPT	23/11/2022	
	DATE OF REPORT	28/11/2022	
	DATE OF ANALYSIS	Start: 23/11/2022	End: 28/11/2022
SAMPLE DETAILS			
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' (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	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 level (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	-	12.4
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	53720.6
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	35.9

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 28/11/2022 REVIEWED BY	 HDD-272, Phase-3, Kabir Nagar, Raipur (C.G.) 492099	For ULTIMATE ENVIROLYTICAL SOLUTIONS AUTHORIZED SIGNATORY
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-----End of the test report-----



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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.	UES/TR/22-23/04503	
	LAB REF NO.	UES/22-23/ST/10343	
	DATE OF SAMPLING	22/11/2022	
	DATE OF RECEIPT	23/11/2022	
	DATE OF REPORT	28/11/2022	
	DATE OF ANALYSIS	Start: 23/11/2022	End: 28/11/2022
SAMPLE DETAILS			
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 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 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 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	-	120
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	14.1
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	59220.4
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	42.8

REMARKS: RESULTS ARE AS ABOVE

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-----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.	UES/TR/22-23/4504	
	LAB REF NO.	UES/22-23/ST/10344	
	DATE OF SAMPLING	22/11/2022	
	DATE OF RECEIPT	23/11/2022	
	DATE OF REPORT	28/11/2022	
	DATE OF ANALYSIS	Start: 23/11/2022	End: 28/11/2022
SAMPLE DETAILS			
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 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 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)	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	-	8.9
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	37571.4
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	35.7

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 28/11/2022 REVIEWED BY	 HDD-272, Phase-3, Kabir Nagar, Raipur (C.G.) 492099	For ULTIMATE ENVIROLYTICAL SOLUTIONS AUTHORIZED SIGNATORY
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-----End of the test report-----



HDD-272, Phase III - Near JP Chowk
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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/22-23/4505	
	LAB REF NO.	UES/22-23/ST/10345	
	DATE OF SAMPLING	22/11/2022	
	DATE OF RECEIPT	23/11/2022	
	DATE OF REPORT	28/11/2022	
	DATE OF ANALYSIS	Start: 23/11/2022	End: 28/11/2022
SAMPLE DETAILS			
Monitoring For	Stack Emission Monitoring		
Customer Ref. No. & Date	P.O. NO. 7200004006/U102, DATED: 16/06/2022		
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 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	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	-	109
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	7.9
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	69664.6
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	33.9

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-----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 | email - ultimatenviro@gmail.com

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/22-23/04810	
	LAB REF NO.	UES/22-23/ST/011016	
	DATE OF SAMPLING	22/11/2022	
	DATE OF RECEIPT	23/11/2022	
	DATE OF REPORT	28/11/2022	
	DATE OF ANALYSIS	Start:23/11/2022	End:28/11/2022

SAMPLE DETAILS

Monitoring For	Stack Emission Monitoring
Customer Ref. No. & Date	P.O. NO. 7200004006/U102, 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.,

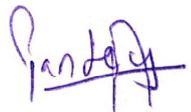
TEST REPORT

Stack 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 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	-	112
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	10.2
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	117003.5
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	40	27.2

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



HDD-272, PHASE III- NEAR JP CHOWK,
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PH - 0771 - 4027777 | email - ultimatenviro@gmail.com

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/22-23/04811	
	LAB REF NO.	UES/22-23/ST/011017	
	DATE OF SAMPLING	22/11/2022	
	DATE OF RECEIPT	23/11/2022	
	DATE OF REPORT	28/11/2022	
	DATE OF ANALYSIS	Start:23/11/2022	End:28/11/2022

SAMPLE DETAILS

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 Bottle, Rubber Bladder: 1 X 1 No.,

TEST REPORT

Stack details

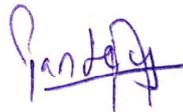
Stack Identity	20 MW AFBC
Stack Attached To	ESP
Material of Construction	RCC
Height of the stack from ground level (Meter)	73.0 MTR
Stack Diameter	2.83 MTR
Stack Shape At Top	CIRCULAR
Type of Fuel	COAL
Total Electrical Load (KW)	20 KW

Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	IS:11255: (Part -3):2008	-	129
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	21.8
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	365756.2
Sulphur Dioxide (SO ₂)	mg/Nm ³	IS 11255 (Part 2):1985, RA 2003	600	249
Oxides of Nitrogen (NO _x)	mg/Nm ³	IS 11255 (Part 7):2005, RA 2012	300	131
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	43.1
Carbon Monoxide (CO)	mg/ Nm ³	IS 13270:2019	-	6.3
Hg	mg/ Nm ³	USEPA Method No. 29	0.03	N.D.

REMARKS: RESULTS ARE AS ABOVE

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Name & Address Of The Customer To, HIRA POWER AND STEEL LTD. KHASRA NO.: 5111/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003	REPORT NO.	UES/TR/22-23/05406	
	LAB REF NO.	UES/22-23/ST/012122	
	DATE OF SAMPLING	19/12/2022	
	DATE OF RECEIPT	20/12/2022	
	DATE OF REPORT	24/12/2022	
	DATE OF ANALYSIS	Start:20/12/2022	End:24/12/2022
SAMPLE DETAILS			
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' (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	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 level (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	-	13.5
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	57878.5
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	33.6

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-----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 | Email : ultimatenviro@gmail.com

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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.	UES/TR/22-23/05407	
	LAB REF NO.	UES/22-23/ST/012123	
	DATE OF SAMPLING	19/12/2022	
	DATE OF RECEIPT	20/12/2022	
	DATE OF REPORT	24/12/2022	
	DATE OF ANALYSIS	Start:20/12/2022	End:24/12/2022
SAMPLE DETAILS			
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 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 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 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	-	116
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	14.3
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	60678.0
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	38.9

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



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	LAB REF NO.	UES/22-23/ST/012124	
	DATE OF SAMPLING	19/12/2022	
	DATE OF RECEIPT	20/12/2022	
	DATE OF REPORT	24/12/2022	
	DATE OF ANALYSIS	Start:20/12/2022	End:24/12/2022
SAMPLE DETAILS			
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 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 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)	5.5 MVA			
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	IS:11255: (Part -3):2008	-	115
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	10.8
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	45944.8
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	36.8

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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.	UES/TR/22-23/05409	
	LAB REF NO.	UES/22-23/ST/012125	
	DATE OF SAMPLING	19/12/2022	
	DATE OF RECEIPT	20/12/2022	
	DATE OF REPORT	24/12/2022	
	DATE OF ANALYSIS	Start:20/12/2022	End:24/12/2022
SAMPLE DETAILS			
Monitoring For	Stack Emission Monitoring		
Customer Ref. No. & Date	P.O. NO. 7200004006/U102, DATED: 16/06/2022		
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 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	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	-	114
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	9.4
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	81821.1
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	34.4

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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.	UES/TR/22-23/05410	
	LAB REF NO.	UES/22-23/ST/012126	
	DATE OF SAMPLING	19/12/2022	
	DATE OF RECEIPT	20/12/2022	
	DATE OF REPORT	24/12/2022	
	DATE OF ANALYSIS	Start:20/12/2022	End:24/12/2022
SAMPLE DETAILS			
Monitoring For	Stack Emission Monitoring		
Customer Ref. No. & Date	P.O. NO. 7200004006/U102, 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 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 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	-	110
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	10.3
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	119286.8
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	40	29.8

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Name & Address Of The Customer		REPORT NO.	UES/TR/22-23/05411
To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		LAB REF NO.	UES/22-23/ST/012127
		DATE OF SAMPLING	19/12/2022
		DATE OF RECEIPT	20/12/2022
		DATE OF REPORT	24/12/2022
		DATE OF ANALYSIS	Start:20/12/2022 End:24/12/2022
SAMPLE DETAILS			
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 Bottle, 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 level (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	-	128
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	20.
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	361622.4
Sulphur Dioxide (SO ₂)	mg/Nm ³	IS 11255 (Part 2):1985, RA 2003	600	248
Oxides of Nitrogen (NO _x)	mg/Nm ³	IS 11255 (Part 7):2005, RA 2012	300	122
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	41.2
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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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/22-23/06724	
	LAB REF NO.	UES/22-23/ST/014128	
	DATE OF SAMPLING	12/01/2023	
	DATE OF RECEIPT	13/01/2023	
	DATE OF REPORT	17/01/2023	
	DATE OF ANALYSIS	Start: 13/01/2023	End: 17/01/2023
SAMPLE DETAILS			
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' (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	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 level (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	-	62.3
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	15.06
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	74137.2
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	34.2

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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.	UES/TR/22-23/06725	
	LAB REF NO.	UES/22-23/ST/014129	
	DATE OF SAMPLING	12/01/2023	
	DATE OF RECEIPT	13/01/2023	
	DATE OF REPORT	17/01/2023	
	DATE OF ANALYSIS	Start: 13/01/2023	End: 17/01/2023
SAMPLE DETAILS			
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 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 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 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	-	83.1
Flue Gas Velocity	M/s	IS :11255 : (Part -3):2008	-	6.97
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	32307.6
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 : (Part -1):1985, RA 2003	50	39.4

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<i>Name & Address Of The Customer</i>		REPORT NO.	UES/TR/22-23/06726		
To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		LAB REF NO.	UES/22-23/ST/014130		
		DATE OF SAMPLING	12/01/2023		
		DATE OF RECEIPT	13/01/2023		
		DATE OF REPORT	17/01/2023		
		DATE OF ANALYSIS	Start: 13/01/2023	End: 17/01/2023	
		SAMPLE DETAILS			
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 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 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)	5.5 MVA			
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	IS:11255: (Part -3):2008	-	88.5
Flue Gas Velocity	M/s	IS :11255 : (Part -3):2008	-	6.76
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	30866.2
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 : (Part -1):1985, RA 2003	50	37.0

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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.	UES/TR/22-23/06727	
	LAB REF NO.	UES/22-23/ST/014131	
	DATE OF SAMPLING	12/01/2023	
	DATE OF RECEIPT	13/01/2023	
	DATE OF REPORT	17/01/2023	
	DATE OF ANALYSIS	Start: 13/01/2023	End: 17/01/2023
SAMPLE DETAILS			
Monitoring For	Stack Emission Monitoring		
Customer Ref. No. & Date	P.O. NO. 7200004006/U102, DATED: 16/06/2022		
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 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	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	-	64.6
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	6.51
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	64957.2
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	34.9

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

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-----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 | Email : ultimatenviro@gmail.com

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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.	UES/TR/22-23/06728	
	LAB REF NO.	UES/22-23/ST/014132	
	DATE OF SAMPLING	12/01/2023	
	DATE OF RECEIPT	13/01/2023	
	DATE OF REPORT	17/01/2023	
	DATE OF ANALYSIS	Start: 13/01/2023	End: 17/01/2023
SAMPLE DETAILS			
Monitoring For	Stack Emission Monitoring		
Customer Ref. No. & Date	P.O. NO. 720004006/U102, 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.,		

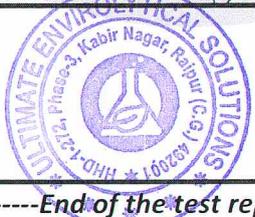
TEST REPORT

Stack 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 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	-	79.4
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	17.93
Total Gas Quantity	Nm ³ /h	IS :11255 :(Part -3):2008	-	225682.7
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	40	30.3

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-----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 | Email : ultimatenviro@gmail.com

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<i>Name & Address Of The Customer</i>		REPORT NO.	UES/TR/22-23/07107		
To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		LAB REF NO.	UES/22-23/ST/014924		
		DATE OF SAMPLING	14/02/2023		
		DATE OF RECEIPT	15/02/2023		
		DATE OF REPORT	20/02/2023		
		DATE OF ANALYSIS	Start:15/02/2023	End:20/02/2023	
		SAMPLE DETAILS			
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' (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.,				

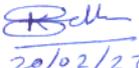
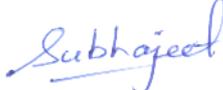
TEST REPORT

Stack details				
Stack Identity	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 level (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	-	69.0
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	15.11
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	72926.1
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	36.6

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



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<i>Name & Address Of The Customer</i>		REPORT NO.	UES/TR/22-23/07108		
To, HIRA POWER AND STEEL LTD. KHASRA NO.: 5111/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		LAB REF NO.	UES/22-23/ST/014925		
		DATE OF SAMPLING	14/02/2023		
		DATE OF RECEIPT	15/02/2023		
		DATE OF REPORT	20/02/2023		
		DATE OF ANALYSIS	Start:15/02/2023	End:20/02/2023	
		SAMPLE DETAILS			
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 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 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 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	-	91.0
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	7.3
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	33102.9
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	38.2

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<i>Name & Address Of The Customer</i>		REPORT NO.	UES/TR/22-23/07109		
To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		LAB REF NO.	UES/22-23/ST/014926		
		DATE OF SAMPLING	14/02/2023		
		DATE OF RECEIPT	15/02/2023		
		DATE OF REPORT	20/02/2023		
		DATE OF ANALYSIS	Start:15/02/2023	End:20/02/2023	
		SAMPLE DETAILS			
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 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 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)	5.5 MVA			
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	IS:11255: (Part -3):2008	-	89.0
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	7.07
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	32237.1
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	35.8

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<i>Name & Address Of The Customer</i>		REPORT NO.	UES/TR/22-23/07110		
To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		LAB REF NO.	UES/22-23/ST/014927		
		DATE OF SAMPLING	14/02/2023		
		DATE OF RECEIPT	15/02/2023		
		DATE OF REPORT	20/02/2023		
		DATE OF ANALYSIS	Start:15/02/2023	End:20/02/2023	
		SAMPLE DETAILS			
Monitoring For	Stack Emission Monitoring				
Customer Ref. No. & Date	P.O. NO. 7200004006/U102, DATED: 16/06/2022				
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 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	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	-	92.0
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	7.1
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	65526.0
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	32.8

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Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

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<i>Name & Address Of The Customer</i>		REPORT NO.	UES/TR/22-23/07111		
To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		LAB REF NO.	UES/22-23/ST/014928		
		DATE OF SAMPLING	14/02/2023		
		DATE OF RECEIPT	15/02/2023		
		DATE OF REPORT	20/02/2023		
		DATE OF ANALYSIS	Start:15/02/2023	End:20/02/2023	
		SAMPLE DETAILS			
Monitoring For	Stack Emission Monitoring				
Customer Ref. No. & Date	P.O. NO. 7200004006/U102, 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.,				

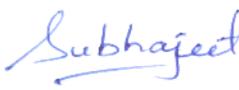
TEST REPORT

Stack 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 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	-	85.0
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	18.09
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	224134.8
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	40	31.7

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-----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 | Email : ultimatenviro@gmail.com

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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.	UES/TR/22-23/08155	
	LAB REF NO.	UES/22-23/ST/016326	
	DATE OF SAMPLING	10/03/2023	
	DATE OF RECEIPT	11/03/2023	
	DATE OF REPORT	15/03/2023	
	DATE OF ANALYSIS	Start:11/03/2023	End:15/03/2023
SAMPLE DETAILS			
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' (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			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 level (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	-	73.0
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	16.1
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	76805.8
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	38.9

REMARKS: RESULTS ARE AS ABOVE

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Rehman
15/03/23

REVIEWED BY



For ULTIMATE ENVIROLYTICAL SOLUTIONS

Parag A
AUTHORIZED SIGNATURE

-----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 | Email : ultimatenviro@gmail.com

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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.	UES/TR/22-23/08156	
	LAB REF NO.	UES/22-23/ST/016327	
	DATE OF SAMPLING	10/03/2023	
	DATE OF RECEIPT	11/03/2023	
	DATE OF REPORT	15/03/2023	
	DATE OF ANALYSIS	Start:11/03/2023	End:15/03/2023
SAMPLE DETAILS			
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 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 ₂ : 30 ml X 1 No. PVC Bottle, NO _x : 2 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 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	-	88.0
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	7.7
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	35206.9
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	41.4

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



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Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

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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.	UES/TR/22-23/08157	
	LAB REF NO.	UES/22-23/ST/016328	
	DATE OF SAMPLING	10/03/2023	
	DATE OF RECEIPT	11/03/2023	
	DATE OF REPORT	15/03/2023	
	DATE OF ANALYSIS	Start:11/03/2023	End:15/03/2023
SAMPLE DETAILS			
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 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 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)				5.5 MVA
Parameter	Unit	Method Reference	Limit	Result
Flue Gas Temperature	°C	IS:11255: (Part -3):2008	-	86.0
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	7.2
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	33104.2
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	37.6

REMARKS: RESULTS ARE AS ABOVE

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-----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 | Email : ultimatenviro@gmail.com

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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.	UES/TR/22-23/08158	
	LAB REF NO.	UES/22-23/ST/016329	
	DATE OF SAMPLING	10/03/2023	
	DATE OF RECEIPT	11/03/2023	
	DATE OF REPORT	15/03/2023	
	DATE OF ANALYSIS	Start:11/03/2023	End:15/03/2023
SAMPLE DETAILS			
Monitoring For	Stack Emission Monitoring		
Customer Ref. No. & Date	P.O. NO. 7200004006/U102, DATED: 16/06/2022		
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 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	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	-	89.0
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	7.4
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	68860.7
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	50	35.9

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

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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.	UES/TR/22-23/08159	
	LAB REF NO.	UES/22-23/ST/016330	
	DATE OF SAMPLING	10/03/2023	
	DATE OF RECEIPT	11/03/2023	
	DATE OF REPORT	15/03/2023	
	DATE OF ANALYSIS	Start:11/03/2023	End:15/03/2023
SAMPLE DETAILS			
Monitoring For	Stack Emission Monitoring		
Customer Ref. No. & Date	P.O. NO. 7200004006/U102, 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 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 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	-	90.0
Flue Gas Velocity	M/s	IS :11255 :(Part -3):2008	-	17.2
Total Gas Quantity	Nm ³ /h	IS :11255: (Part -3):2008	-	210172.4
Total Particulate Matter (TPM)	mg/Nm ³	IS :11255 :(Part -1):1985, RA 2003	40	37.8

REMARKS: RESULTS ARE AS ABOVE

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<i>Name & Address Of The Customer</i>		REPORT NO.	UES/TR/22-23/09336		
To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		LAB REF NO.	UES/22-23/ST/017911		
		DATE OF SAMPLING	10/03/2023		
		DATE OF RECEIPT	11/03/2023		
		DATE OF REPORT	15/03/2023		
		DATE OF ANALYSIS	Start:11/03/2023	End:15/03/2023	
		SAMPLE DETAILS			
Monitoring For	DG Stack Emission Monitoring				
Customer Ref. No.	P.O. No. 7200004006/u102, dated: 16/06/2022				
Sampling Location	DG Set- 1500 KVA (Power Plant 20 MW)				
Sample Collected By	Laboratory Chemist				
Sampling Procedure	As Per Method Reference.				
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., Hg: 500ml X 1 No. Glass Bottle & 500ml X 3 NO. PVC Bottle.				

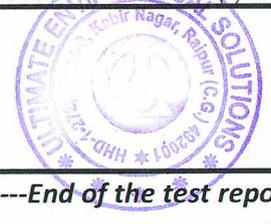
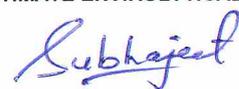
TEST REPORT

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	155	-	IS 11255 (Part 3):2008
Flue gas velocity	m/s	13.56	-	IS 11255 (Part 3):2008
Total gas quantity	Nm ³ /h	2091.8	-	IS 11255 (Part 3):2008
Total Particulate Matter (PM) (Corrected at 15 % O ₂)	mg/Nm ³	24.8	75	IS 11255 (Part 1):1985, RA 2003
Sulphur Dioxide (SO ₂)	mg/Nm ³	21.4	-	IS 11255 (Part 2):1985, RA 2003
Oxides of Nitrogen (NO _x)(Corrected at 15 % O ₂) Dry Basis	ppm	216	360	IS 11255 (Part 7):2005, RA 2012
Non-Methane hydrocarbon (NMHC) (Corrected at 15 % O ₂)	mg/Nm ³	21	100	APHA METHOD 109, P-259
Carbon Monoxide (CO)	mg/Nm ³	92	150	APHA METHOD 130, P-359

REMARKS: RESULTS ARE AS ABOVE

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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.	UES/TR/22-23/03782	
	Lab Ref No.	UES/22-23/AAQM/09326-09329	
	Date of Sampling	11/10/2022 to 12/10/2022	
	Date of Receipt	13/10/2022	
	Date of Report	18/10/2022	
	Date of Analysis	Start:13/10/2022	End:18/10/2022
SAMPLE DETAILS			
Monitoring For	Ambient Air Quality Monitoring		
Sampling Location	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: 16/06/2022		
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 _{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 Vol.-I
Particulate Matter size less than 2.5 microns (PM _{2.5})	IS:5182: (Part-24):2019 & CPCB Guidelines Vol.-I
Sulphur Dioxide (SO ₂)	IS:5182: (Part-2):2001, RA 2006 & CPCB Guidelines Vol.-I
Nitrogen Dioxide (NO ₂)	IS:5182: (Part-6):2006 & CPCB Guidelines Vol.-I

TEST REPORT

Parameter	Unit	NAAQM Standard	Results			
			Near CHP Area	Beside Silo	Solar Panel Area	Near Main Gate
PM ₁₀	µg/m ³	100	68.2	62.6	54.8	60.2
PM _{2.5}	µg/m ³	60	26.8	20.8	22.6	24.6
SO ₂	µg/m ³	80	13.2	8.6	9.4	10.8
NO ₂	µg/m ³	80	26.8	20.6	22.8	28.4
CO	mg/m ³	4.0	0.42	0.24	0.38	0.62

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<i>Name & Address of The Customer</i>		Report No.	UES/TR/22-23/04501	
To,		Lab Ref No.	UES/22-23/AAQM/10338-10341	
HIRA POWER AND STEEL LTD.		Date of Sampling	22/11/2022 to 23/11/2022	
KHASRA NO.: 511/1, 512/2,		Date of Receipt	23/11/2022	
URLA INDUSTRIAL AREA		Date of Report	28/11/2022	
RAIPUR (C. G.) 492003		Date of Analysis	Start: 23/11/2022	End: 28/11/2022
SAMPLE DETAILS				
Monitoring For	Ambient Air Quality Monitoring			
Sampling Location	<ol style="list-style-type: none"> 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 _{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 Vol.-I
Particulate Matter size less than 2.5 microns (PM _{2.5})	IS:5182: (Part-24):2019 & CPCB Guidelines Vol.-I
Sulphur Dioxide (SO ₂)	IS:5182: (Part-2):2001, RA 2006 & CPCB Guidelines Vol.-I
Nitrogen Dioxide (NO ₂)	IS:5182: (Part-6):2006 & CPCB Guidelines Vol.-I

TEST REPORT

Parameter	Unit	NAAQM Standard	Results			
			Near CHP Area	Beside Silo	Solar Panel Area	Near Main Gate
PM ₁₀	µg/m ³	100	67.1	63.4	56.8	61.3
PM _{2.5}	µg/m ³	60	28.2	21.4	23.8	23.7
SO ₂	µg/m ³	80	8.4	8.1	9.8	11.2
NO ₂	µg/m ³	80	24.2	19.5	21.9	22.4
CO	mg/m ³	4.0	0.48	0.32	0.39	0.58

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28/11/2022

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<i>Name & Address of The Customer</i>		Report No.	UES/TR/22-23/05405	
To,		Lab Ref No.	UES/22-23/AAQM/012118-012121	
HIRA POWER AND STEEL LTD.		Date of Sampling	19/12/2022 to 20/12/2022	
KHASRA NO.: 511/1, 512/2,		Date of Receipt	20/12/2022	
URLA INDUSTRIAL AREA		Date of Report	24/12/2022	
RAIPUR (C. G.) 492003		Date of Analysis	Start:20/12/2022	End:24/12/2022
SAMPLE DETAILS				
Monitoring For	Ambient Air Quality Monitoring			
Sampling Location	<ol style="list-style-type: none"> 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 _{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 Vol.-I
Particulate Matter size less than 2.5 microns (PM _{2.5})	IS:5182:(Part-24):2019 &CPCB Guidelines Vol.-I
Sulphur Dioxide (SO ₂)	IS:5182:(Part-2):2001, RA 2006 &CPCB Guidelines Vol.-I
Nitrogen Dioxide (NO ₂)	IS:5182:(Part-6):2006 & CPCB Guidelines Vol.-I

TEST REPORT

Parameter	Unit	NAAQM Standard	Results			
			Near CHP Area	Beside Silo	Solar Panel Area	Near Main Gate
PM ₁₀	µg/m ³	100	66.4	60.2	56.2	58.6
PM _{2.5}	µg/m ³	60	32.4	31.6	29.2	30.3
SO ₂	µg/m ³	80	14.2	11.8	11.4	12.4
NO ₂	µg/m ³	80	24.6	22.8	23.6	26.8
CO	mg/m ³	4.0	0.40	0.29	0.32	0.56

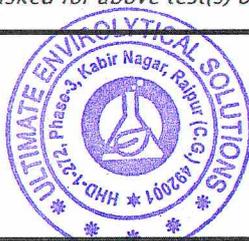
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Name & Address of The Customer		Report No.	UES/TR/22-23/06723	
To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		Lab Ref No.	UES/22-23/AAQM/014124-014127	
		Date of Sampling	12/01/2023 to 13/01/2023	
		Date of Receipt	13/01/2023	
		Date of Report	17/01/2023	
		Date of Analysis	Start: 13/01/2023	End: 17/01/2023
SAMPLE DETAILS				
Monitoring For	Ambient Air Quality Monitoring			
Sampling Location	<ol style="list-style-type: none"> Near CHP Area Beside Silo Solar Panel Area Near Main Gate 			
Customer Ref. No. & Date	P.O. NO. 720004006/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 _{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 Vol.-I
Particulate Matter size less than 2.5 microns (PM _{2.5})	IS:5182: (Part-24):2019 &CPCB Guidelines Vol.-I
Sulphur Dioxide (SO ₂)	IS:5182: (Part-2):2001, RA 2006 &CPCB Guidelines Vol.-I
Nitrogen Dioxide (NO ₂)	IS:5182: (Part-6):2006 & CPCB Guidelines Vol.-I

TEST REPORT

Parameter	Unit	NAAQM Standard	Results			
			Near CHP Area	Beside Silo	Solar Panel Area	Near Main Gate
PM ₁₀	µg/m ³	100	66.8	61.2	57.4	58.6
PM _{2.5}	µg/m ³	60	33.0	32.4	29.9	31.2
SO ₂	µg/m ³	80	15.0	12.6	12.0	13.4
NO ₂	µg/m ³	80	25.2	23.5	24.2	27.3
CO	mg/m ³	4.0	0.43	0.33	0.38	0.65

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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.	UES/TR/22-23/07106
	Lab Ref No.	UES/22-23/AAQM/014920-014923
	Date of Sampling	14/02/2023 to 15/02/2023
	Date of Receipt	15/02/2023
	Date of Report	20/02/2023
	Date of Analysis	Start: 15/02/2023 End: 20/02/2023

SAMPLE DETAILS

Monitoring For	Ambient Air Quality Monitoring
Sampling Location	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: 16/06/2022
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 _{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 Vol.-I
Particulate Matter size less than 2.5 microns (PM _{2.5})	IS:5182:(Part-24):2019 &CPCB Guidelines Vol.-I
Sulphur Dioxide (SO ₂)	IS:5182:(Part-2):2001, RA 2006 &CPCB Guidelines Vol.-I
Nitrogen Dioxide (NO ₂)	IS:5182:(Part-6):2006 & CPCB Guidelines Vol.-I

TEST REPORT

Parameter	Unit	NAAQM Standard	Results			
			Near CHP Area	Beside Silo	Solar Panel Area	Near Main Gate
PM ₁₀	µg/m ³	100	67.4	62.6	58.2	59.4
PM _{2.5}	µg/m ³	60	33.8	31.9	30.0	32.1
SO ₂	µg/m ³	80	16.4	13.1	12.8	14.5
NO ₂	µg/m ³	80	26.0	24.4	25.6	27.7
CO	mg/m ³	4.0	0.46	0.38	0.41	0.68

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Name & Address of The Customer		Report No.	UES/TR/22-23/08154	
To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		Lab Ref No.	UES/22-23/AAQM/016322-016325	
		Date of Sampling	10/03/2023 to 11/03/2023	
		Date of Receipt	11/03/2023	
		Date of Report	15/03/2023	
		Date of Analysis	Start: 11/03/2023	End: 15/03/2023
		SAMPLE DETAILS		
Monitoring For	Ambient Air Quality Monitoring			
Sampling Location	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: 16/06/2022			
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 _{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 Vol.-I
Particulate Matter size less than 2.5 microns (PM _{2.5})	IS:5182:(Part-24):2019 &CPCB Guidelines Vol.-I
Sulphur Dioxide (SO ₂)	IS:5182:(Part-2):2001, RA 2006 &CPCB Guidelines Vol.-I
Nitrogen Dioxide (NO ₂)	IS:5182:(Part-6):2006 & CPCB Guidelines Vol.-I

TEST REPORT

Parameter	Unit	NAAQM Standard	Results			
			Near CHP Area	Beside Silo	Solar Panel Area	Near Main Gate
PM ₁₀	µg/m ³	100	67.8	63.2	58.6	60.4
PM _{2.5}	µg/m ³	60	32.7	30.4	29.7	32.6
SO ₂	µg/m ³	80	16.6	13.8	12.9	14.7
NO ₂	µg/m ³	80	26.4	24.9	25.8	28.0
CO	mg/m ³	4.0	0.48	0.39	0.45	0.72

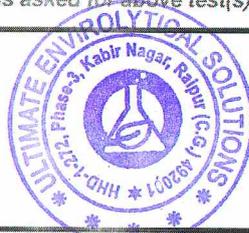
REMARKS: RESULTS ARE AS ABOVE

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

[Signature]
15/03/23

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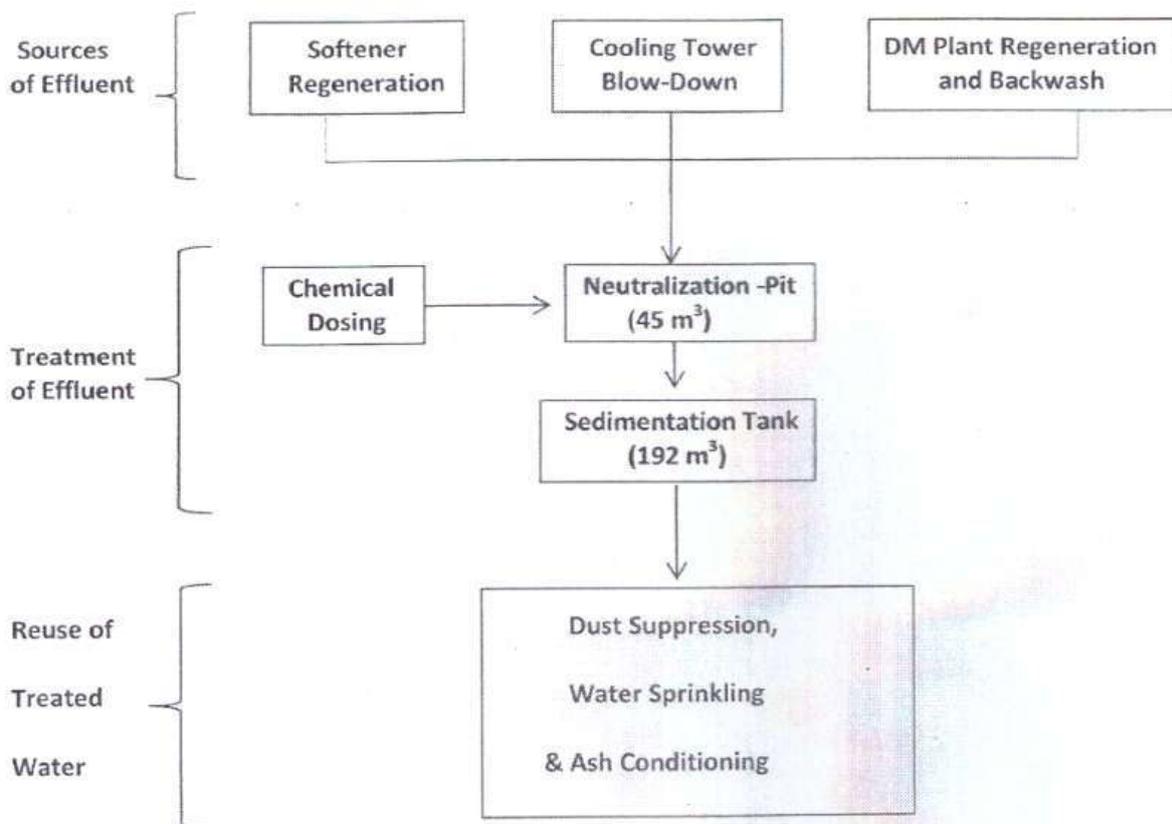
[Signature]

AUTHORIZED SIGNATORY

-----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.





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

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<i>Name & Address Of The Customer</i>		Report No	UES/TR/22-23/03781
To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		Lab. Ref. No.	UES/22-23/W/09324-09325
		Date of Sampling	11/10/2022
		Date of Receipt	13/10/2022
		Date of Report	18/10/2022
		Date of Analysis	Start:13/10/2022 End:18/10/2022
SAMPLE DETAILS			
Customer Sample ID	Siltration Tank Water	Customer Ref. No. & Date	P.O. NO. 7200004006/U102, 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	8.47	7.72
2	Total Suspended Solid	mg/L	IS:3025: (Part-17): 1984, RA 2012	100	60	22
3	Chemical Oxygen Demand	mg/L	IS:3025: (Part-58): 2006, RA 2012	250	52	20
4	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025: (Part-44): 1993 RA 2014	30	13.6	5.2
5	Oil & Grease	mg/L	IS:3025: (Part-39): 1986	10	0.8	N.D.

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

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



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<i>Name & Address Of The Customer</i>		Report No	UES/TR/22-23/04506	
To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		Lab. Ref. No.	UES/22-23/W/10346-10347	
		Date of Sampling	22/11/2022	
		Date of Receipt	23/11/2022	
		Date of Report	28/11/2022	
		Date of Analysis	Start: 23/11/2022	End: 28/11/2022
SAMPLE DETAILS				
Customer Sample ID	Siltration Tank Water	Customer Ref. No. & Date	P.O. NO. 7200004006/U102, 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	

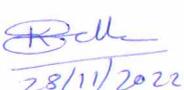
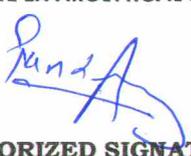
TEST REPORT						
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMITS AS PER CONSENT	Inlet Water	Outlet Water
1	pH Value at 25.2°C	-	IS:3025:(Part-11): 1983, RA 2012	5.5 To 9.0	7.34	7.42
2	Total Suspended Solid	mg/L	IS:3025:(Part-17): 1984, RA 2012	100	66	24
3	Chemical Oxygen Demand	mg/L	IS:3025:(Part-58):2006, RA 2012	250	110	34
4	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025:(Part-44):1993 RA 2014	30	29.2	6.2
5	Oil & Grease	mg/L	IS:3025:(Part-39):1986	10	0.6	N.D.

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

REMARKS: RESULTS ARE AS ABOVE

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



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Name & Address Of The Customer		Report No	UES/TR/22-23/05412	
To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		Lab. Ref. No.	UES/22-23/W/012128-012129	
		Date of Sampling	19/12/2022	
		Date of Receipt	20/12/2022	
		Date of Report	24/12/2022	
		Date of Analysis	Start:20/12/2022	End:24/12/2022
SAMPLE DETAILS				
Customer Sample ID	Siltration Tank Water	Customer Ref. No. & Date	P.O. NO. 7200004006/U102, 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	8.14	7.32
2	Total Suspended Solid	mg/L	IS:3025:(Part-17): 1984, RA 2012	100	64	26
3	Chemical Oxygen Demand	mg/L	IS:3025:(Part-58):2006, RA 2012	250	58	24
4	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025:(Part-44):1993 RA 2014	30	14.2	5.6
5	Oil & Grease	mg/L	IS:3025:(Part-39):1986	10	0.9	N.D.

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

REMARKS: RESULTS ARE AS ABOVE

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 24/12/2022 REVIEWED BY	 HNO-1-272-Phase-3, Kabir Nagar, Raipur (C.G.) 492099	For ULTIMATE ENVIROLYTICAL SOLUTIONS AUTHORIZED SIGNATORY
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-----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 | Email : ultimatenviro@gmail.com

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<i>Name & Address Of The Customer</i>		Report No	UES/TR/22-23/06729	
To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		Lab. Ref. No.	UES/22-23/W/014133-014134	
		Date of Sampling	12/01/2023	
		Date of Receipt	13/01/2023	
		Date of Report	17/01/2023	
		Date of Analysis	Start: 13/01/2023	End: 17/01/2023
SAMPLE DETAILS				
Customer Sample ID	Siltration Tank Water	Customer Ref. No. & Date	P.O. NO. 7200004006/U102, 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

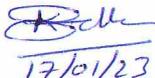
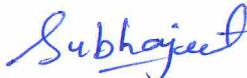
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	LIMITS AS PER CONSENT	Inlet Water	Outlet Water
1	pH Value at 25.2°C	-	IS:3025:(Part-11): 1983, RA 2012	5.5 To 9.0	8.47	7.38
2	Total Suspended Solid	mg/L	IS:3025:(Part-17): 1984, RA 2012	100	68	28
3	Chemical Oxygen Demand	mg/L	IS:3025:(Part-58):2006, RA 2012	250	62	26
4	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025:(Part-44):1993 RA 2014	30	16.71	7.42
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.

REMARKS: RESULTS ARE AS ABOVE

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



HDD-272, Phase III - Near JP Chowk
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Name & Address Of The Customer		Report No	UES/TR/22-23/07112
To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		Lab. Ref. No.	UES/22-23/W/014929-014930
		Date of Sampling	14/02/2023
		Date of Receipt	15/02/2023
		Date of Report	20/02/2023
		Date of Analysis	Start: 15/02/2023 End: 20/02/2023
SAMPLE DETAILS			
Customer Sample ID	Siltration Tank Water	Customer Ref. No. & Date	P.O. NO. 7200004006/U102, 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	8.50	7.44
2	Total Suspended Solid	mg/L	IS:3025: (Part-17): 1984, RA 2012	100	70.4	30.8
3	Chemical Oxygen Demand	mg/L	IS:3025: (Part-58): 2006, RA 2012	250	64.6	28.2
4	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025: (Part-44): 1993 RA 2014	30	18.8	8.24
5	Oil & Grease	mg/L	IS:3025: (Part-39): 1986	10	1.1	N.D.

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

REMARKS: RESULTS ARE AS ABOVE

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



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<i>Name & Address Of The Customer</i>		Report No	UES/TR/22-23/08160
To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		Lab. Ref. No.	UES/22-23/W/016331-16332
		Date of Sampling	10/03/2023
		Date of Receipt	11/03/2023
		Date of Report	15/03/2023
		Date of Analysis	Start: 11/03/2023 End: 15/03/2023
SAMPLE DETAILS			
Customer Sample ID	Siltration Tank Water	Customer Ref. No. & Date	P.O. NO. 7200004006/U102, 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	8.48	8.12
2	Total Suspended Solid	mg/L	IS:3025: (Part-17): 1984, RA 2012	100	8.7	3.2
3	Chemical Oxygen Demand	mg/L	IS:3025: (Part-58): 2006, RA 2012	250	44.0	8.0
4	Bio-chemical Oxygen Demand at 27°C for three day	mg/L	IS:3025: (Part-44): 1993 RA 2014	30	18.8	3.1
5	Oil & Grease	mg/L	IS:3025: (Part-39): 1986	10	Absent	Absent

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

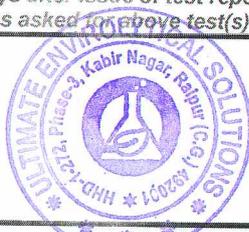
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R. Bell
15/03/23

REVIEWED BY



For ULTIMATE ENVIROLYTICAL SOLUTIONS

P. Anand

AUTHORIZED SIGNATORY

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



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Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

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<i>Name & Address of The Customer</i>		REPORT NO.	UES/TR/22-23/03789
To,		LAB REF NO.	UES/22-23/N/09336-09339
HIRA POWER AND STEEL LTD.		DATE OF REPORT	18/10/2022
KHASRA NO.: 511/1, 512/2,		DATE OF SAMPLING	11/10/2022 to 12/10/2022
URLA INDUSTRIAL AREA			
RAIPUR (C. G.) 492003			
SAMPLE DETAILS			
Monitoring For	NOISE LEVEL MONITORING		
Customer Ref. No. & Date	P.O. NO. 7200004006/U102, DATED: 16/06/2022		
Sampling Location	<ol style="list-style-type: none"> 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	RESULT		LIMIT (INDUSTRIAL ZONE)	
		DAY	NIGHT	DAY	NIGHT
Near CHP Area	dB(A)	64.6	52.4	75 dB(A)	70 dB(A)
Beside Silo	dB(A)	60.2	50.8		
Solar Panel Area	dB(A)	62.5	54.2		
Near Main Gate	dB(A)	56.8	48.6		

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

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 18/10/22 REVIEWED BY		For ULTIMATE ENVIROLYTICAL SOLUTIONS 18/10/22 AUTHORIZED SIGNATORY
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-----End of the test report-----



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<i>Name & Address of The Customer</i>		REPORT NO.	UES/TR/22-23/04507
To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		LAB REF NO.	UES/22-23/N/10348-10351
		DATE OF REPORT	28/11/2022
		DATE OF SAMPLING	22/11/2022 to 23/11/2022
SAMPLE DETAILS			
Monitoring For	NOISE LEVEL MONITORING		
Customer Ref. No. & Date	P.O. NO. 7200004006/U102, DATED: 16/06/2022		
Sampling Location	<ol style="list-style-type: none"> 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	RESULT		LIMIT (INDUSTRIAL ZONE)	
		DAY	NIGHT	DAY	NIGHT
Near CHP Area	dB(A)	62.2	53.4	75 dB(A)	70 dB(A)
Beside Silo	dB(A)	63.0	51.2		
Solar Panel Area	dB(A)	61.8	52.5		
Near Main Gate	dB(A)	62.9	50.4		

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 copy of report only.

 28/11/2022 REVIEWED BY		For ULTIMATE ENVIROLYTICAL SOLUTIONS AUTHORIZED SIGNATORY
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-----End of the test report-----



HDD-272, Phase III - Near JP Chowk
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<i>Name & Address of The Customer</i>		REPORT NO.	UES/TR/22-23/05413
To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		LAB REF NO.	UES/22-23/N/012130-012133
		DATE OF REPORT	24/12/2022
		DATE OF SAMPLING	19/12/2022 to 20/12/2022
SAMPLE DETAILS			
Monitoring For	NOISE LEVEL MONITORING		
Customer Ref. No. & Date	P.O. NO. 7200004006/U102, DATED: 16/06/2022		
Sampling Location	<ol style="list-style-type: none"> 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	RESULT		LIMIT (INDUSTRIAL ZONE)	
		DAY	NIGHT	DAY	NIGHT
Near CHP Area	dB(A)	65.2	53.7	75 dB(A)	70 dB(A)
Beside Silo	dB(A)	61.5	51.3		
Solar Panel Area	dB(A)	63.8	55.2		
Near Main Gate	dB(A)	57.0	49.6		

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.

 24/12/2022 REVIEWED BY		For ULTIMATE ENVIROLYTICAL SOLUTIONS  AUTHORIZED SIGNATORY
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-----End of the test report-----



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<i>Name & Address of The Customer</i>		REPORT NO.	UES/TR/22-23/06730
To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		LAB REF NO.	UES/22-23/N/014135-014138
		DATE OF REPORT	17/01/2023
		DATE OF SAMPLING	12/01/2023 to 13/01/2023
SAMPLE DETAILS			
Monitoring For	NOISE LEVEL MONITORING		
Customer Ref. No. & Date	P.O. NO. 7200004006/U102, DATED: 16/06/2022		
Sampling Location	<ol style="list-style-type: none"> 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	RESULT		LIMIT (INDUSTRIAL ZONE)	
		DAY	NIGHT	DAY	NIGHT
Near CHP Area	dB(A)	66.4	54.1	75 dB(A)	70 dB(A)
Beside Silo	dB(A)	62.7	51.9		
Solar Panel Area	dB(A)	64.0	55.7		
Near Main Gate	dB(A)	57.5	50.2		

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.

 17/01/23 REVIEWED BY	 HIRA POWER AND STEEL LTD., Phase-3, Kabir Nagar, Raipur (C.G.)	For ULTIMATE ENVIROLYTICAL SOLUTIONS AUTHORIZED SIGNATORY
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-----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 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

<i>Name & Address of The Customer</i>		REPORT NO.	UES/TR/22-23/07113
To, HIRA POWER AND STEEL LTD. KHASRA NO.: 511/1, 512/2, URLA INDUSTRIAL AREA RAIPUR (C. G.) 492003		LAB REF NO.	UES/22-23/N/014931-014934
		DATE OF REPORT	18/02/2023
		DATE OF SAMPLING	14/02/2023 to 15/02/2023
SAMPLE DETAILS			
Monitoring For	NOISE LEVEL MONITORING		
Customer Ref. No. & Date	P.O. NO. 7200004006/U102, DATED: 16/06/2022		
Sampling Location	<ol style="list-style-type: none"> 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	RESULT		LIMIT (INDUSTRIAL ZONE)	
		DAY	NIGHT	DAY	NIGHT
Near CHP Area	dB(A)	66.7	54.8	75 dB(A)	70 dB(A)
Beside Silo	dB(A)	63.0	52.2		
Solar Panel Area	dB(A)	64.5	56.5		
Near Main Gate	dB(A)	58.1	50.8		

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.

 18/02/23 REVIEWED BY		For ULTIMATE ENVIROLYTICAL SOLUTIONS 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 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

<i>Name & Address of The Customer</i>		REPORT NO.	UES/TR/22-23/08161
To,		LAB REF NO.	UES/22-23/N/016333-016336
HIRA POWER AND STEEL LTD.		DATE OF REPORT	15/03/2023
KHASRA NO.: 511/1, 512/2,		DATE OF SAMPLING	10/03/2023 to 11/03/2023
URLA INDUSTRIAL AREA			
RAIPUR (C. G.) 492003			
SAMPLE DETAILS			
Monitoring For	NOISE LEVEL MONITORING		
Customer Ref. No. & Date	P.O. NO. 7200004006/U102, DATED: 16/06/2022		
Sampling Location	<ol style="list-style-type: none"> 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	RESULT		LIMIT (INDUSTRIAL ZONE)	
		DAY	NIGHT	DAY	NIGHT
Near CHP Area	dB(A)	66.9	55.0	75 dB(A)	70 dB(A)
Beside Silo	dB(A)	63.4	52.8		
Solar Panel Area	dB(A)	65.0	55.5		
Near Main Gate	dB(A)	58.6	49.6		

REMARKS: RESULTS ARE AS ABOVE

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Bele
15/03/23
REVIEWED BY



For ULTIMATE ENVIROLYTICAL SOLUTIONS

Parvati
AUTHORIZED SIGNATORY

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



Ruprela

X-ray & Advanced Diagnostic Centre

(AN ISO Certified lab - certificate No. UK-RXR-0201)

OPP. TAHSIL OFFICE, BEHIND BAJRANG MANDIR

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M : 7470889922

E-Mail : ruprelahealthcare7@gmail.com

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FORM 21 (Annexure)
 [prescribed under Rule(19)]
 Health Register

(in respect of persons employed in occupation declared to be dangerous operation under section 87)

PRE-EMPLOYMENT & PERIODIC MEDICAL EXAMINATION

Registration No : 060

Date : 22-02-2023

Name : ANIL KUMAR DWIVEDI	Age (Years): 32	Gender : Male
Nature of Employment :	Employee No. : 1790	
Date of Joining :	Last Medical Date :	
Department : MECHANICAL	Designation : EOT CRANE OPERATOR	
No. of Working Year : Previous Working :	Mobile No. :	
ESIC Number :	Aadhar No. :	

1. GENERAL EXAMINATION

HEIGHT : 176 cm	WEIGHT : 80 Kg	BMI : 25.83
CHEST INSPIRATION : 97 cm	EXPIRATION : 92 cm	BUILT : Average
THROAT : Normal	THYROID : Note Palpabel	LYMPH NODES : Note Palpabel
TOUNGE : Normal	TEETH : Normal	GUMS : Normal
TONSILS : Normal	ADDITIONAL FINDING IF ANY : Absent	

2. CARDIO-VASCULAR SYSTEM

PULSE : 86/min Regular	PERIPHERAL PULSE : Felt
BP : 125/70 mmHg	MURMUR IF ANY : Absent
HEART SOUND : Normal	ADDITIONAL FINDING IF ANY : Absent

3. RESPIRATORY SYSTEM

SHAPE OF CHEST : Normal	CHEST MOVEMENTS : Normal
TRACHEA : Normal	BREATH SOUNDS : Normal

4. GASTRO-INTESTINAL SYSTEM

LIVER : Note Palpabel	SPLEEN : Note Palpabel
ANY ABDOMINAL LUMP : Absent	

5. EXAMINATION OF EYE

EXTERNAL EXAMINATIN SQUINT : Normal	NYSTAGMUS : Normal
COLOUR VISION : Normal	FUNDUS : Normal
INDIVIDUAL COLOUR IDENTIFICATION : Normal	
DISTANT VISION (WITHOUT GLASSES)	
RIGHT : 6/6 LEFT : 6/6	RIGHT : N/6 LEFT : N/6
DISTANT VISION (WITH GLASSES)	
RIGHT : LEFT :	RIGHT : LEFT :

6. EXAMINATION EAR, NOSE & THROAT : EXTERNAL EXAMINATION :- Normal

7. GENITO URINARY SYSTEM

HERNIA : Absent	HYDROCELE / VERICOCELE : Absent	CRYPTORCHISISM : Absent
PHIMOSIS : Absent	VARICOSE VEIN : Absent	SIGNS OF STD : Absent
OTHER EXAMINATIN FOR FEMALES : MENSTRUAL HISTORY OBSTERIC HISTORY		
MENARCHE AT : YRS :	GRAVIDA :	PARA:
LMP :	MENSTRUL IRREGULARITY IF ANY :	

RADIOLOGY

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 Radiologist

RADIOLOGY

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 Radiologist



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INVESTIGATION

8. LAB INVESTIGATION :

HEMOGRAM	LIPID PROFILE	HEPATIC PROFILE
HB : 13.6 gm %	Cholesterol : 168.0 mg/dl	Bilirubin : (Total) 0.69 mg %
TLC : 6500 cmm	Tryglyceride : 172.0 mg/dl	Bilirubin (Direct) : 0.20 mg %
DLC : P 47 L 48 E 02 M 03 B 00	HDL : 49.0 mg/dl	Bilirubin (Indirect) : 0.49 mg %
RBC : 5.5 million/cmm	LDL : 84.60 mg/dl	SGOT : 36.0 IU/L
Platelet : 267 lacs/cmm	VLDL : 34.40 mg/dl	SGPT : 32.0 IU/L
ESR : 05 mm/hr	CHO:HDL :	ALK PHOS 105.0 IU/L
Blood Group : O- RH Type : Negative		
METABOLIC	OTHER INVESTIGATION	URINE EXAMINATION
B.Sugar (F) : 95.0 mg/dl	Anti HIV 1 & 2 :	Urine Albumin : Nil
B.Sugar (PP) : 105.0 mg/dl	HBsAg :	Urine Sugar : Nil
Uric Acid : 4.5 mg/dl	Anti HCV :	Microscopy : Nil
Blood Urea : 23.0 mg/dl	Syphilis :	
SR CREAT : 0.75 mg/dl	THS :	
STOOL : mg/dl	WIDAL :	

9. OTHER INVESTIGATIONS :

a. ECG (In case of any abnormality further test should be carried out.) : Normal
b. X ray chest (In normal person once in 3 years, in case of any abnormality X ray can be done at shorter intervals.) : Normal
c. Ultrasound whole abdomen (In normal person once in 3 years, in case of any abnormality X ray can be done at shorter intervals.) : N/A
d. Others :

10. PULMONARY FUNCTION TESTS :

	FVC	FEC 1	FEC1/FVC
Predicted			
Measured			
% of Predicted	095	113	119

Remarks : Normal

11. AUDIOMETRY EXAMINATION : Normal

12. MEDICAL EXAMINATION OF CANTEEN STAFF :

13. Detail of other specific medical examination carried out as mentioned in the respective in the respective schedules or rule 107 of CG factories rules 1962.

Signature (with date) of factory medical officer

Signature (with date) of certifying surgeon

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REG. NO.: CGMC 6849/2016

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Name : ANIL KUMAR DWIVEDI

Age / Sex: 32 Y / Male

Report Printed ON At : 22-02-2023

Sample Received On/ At : 22-02-2023

Consultant : HIRA POWER & STEEL LTD URLA

Haematology

Parameter	Result	Unit	Normal Range
ABO Group	O-		
Rh Type	Negative		
Total WBC Count	6500	/cumm	4000-11000
Total RBC	5.5	10 ⁶ /μl	3.50-5.50
Haemoglobin	13.6	g/dl	12.0-16.5
Platelet Count	267	10 ³ /μl	150-450
Neutrophils	47	%	40-75
Lymphocytes	48	%	20-40
Eosinophils	02	%	1-6
Monocytes	03	%	1-10
Basophils	00	%	0-1
ESR	05	mm at 1hr	05-20

CHECKED BY


 DR. SHRADDHA SAHU
 MBBS.MD (Pathology)
 (Pathologist)

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 REG. NO.-C.G.M.C. 6485/2016

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Bio Chemistry

Parameter	Result	Unit	Normal Range
Urea	23.0	mg/dl	15-45
Serum Creatinine	0.75	mg/dl	0.6-1.4
Uric Acid	4.5	mg/dl	3.6-7.0
Bilirubin - Total	0.69	mg/dl	0.1-1.2
Bilirubin - Direct	0.20	mg/dl	0-0.3
Bilirubin - (Indirect)	0.49	mg/dl	0-0.6
SGOT(AST)	36.0	U/L	0-45
SGPT(ALT)	32.0	U/L	0-45
Alkaline Phosphatase(ALP)			
Alkaline Phosphatase(ALP)	105.0	U/L	41-270
Total Cholesterol	168.0	mg/dl	150-200
Triglycerides	172.0	mg/dl	35-170
HDL Cholesterol	49.0	mg/dl	35-70
VDL Cholesterol	84.60	mg/dl	Less than 100
LDL Cholesterol	34.40	mg/dl	7-35
Blood Sugar Fasting	95.0	mg/dl	70-110
Blood Sugar	105.0	mg/dl	80-140

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CLINICAL PATHOLOGY

Parameter	Result	Unit	Normal Range
URINE ROUTINE ANI			
Physical Examination			
Colour	Pale Yellow		
Quantity	30	ml	>30
Appearance	Clear	-	Clear
Reaction	Acidic	-	Acidic
Chemical Examination			
Albumin	Nil	-	NIL
Sugar	Nil	%	NIL
Microscopy Examination			
RBC	Nil	/hpf	NIL
PUS Cells	2-4	/hpf	< 5
Epithelial Cells	1-2	/hpf	< 3
Crystals	Absent	-	Absent
Casts	Absent	-	Absent
Bacteria	Absent	-	Absent
Other (Urine)			

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Age / Sex: 32 Y / Male

Report Printed ON At : 22-02-2023

Sample Received On/ At : 22-02-2023

Consultant : HIRA POWER & STEEL LTD URLA

EYE EXAMINATION

External Exam : Normal

Squint : Normal

Nystagmus : Normal

Colour Vision -

Fundus - (L): Normal (R): Normal

Individual Colour Identification : Normal

Distant Vision (without Glass)

Right : 6/6 Left : 6/6

(With Glass) Right : Left :

Near Vision (Without Glass)

Right : N/6 Left : N/6

(With Glass) Right : Left :

Night Blindness(Nyctalopia) : Normal

DR. EKTA BATAVIA JAIN
MBBS, DNB (OPHTHALMOLOGY) FVR

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X-RAY CHEST (PA) VIEW

OBSERVATION

- Both hilar shadows appear normal.
- Both lung fields are clear.
- Both costo phrenic angles are normal.
- Cardiothoracic ration is within normal limits.
- Trachea centrally placed.
- Soft tissue and bony cage appear normal.
- Both Hemidiaphragms are well outlined.

IMPRESSION

- Normal Study.

Suggest : Clinical Correlation.

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RADIOLOGY

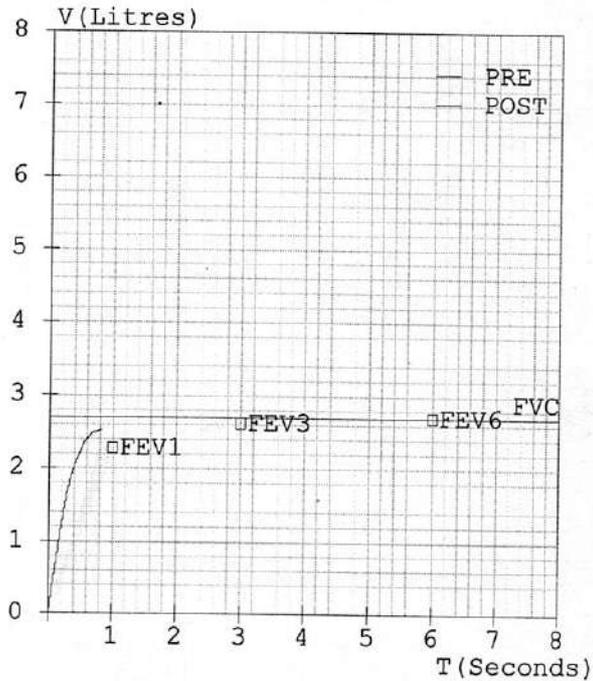
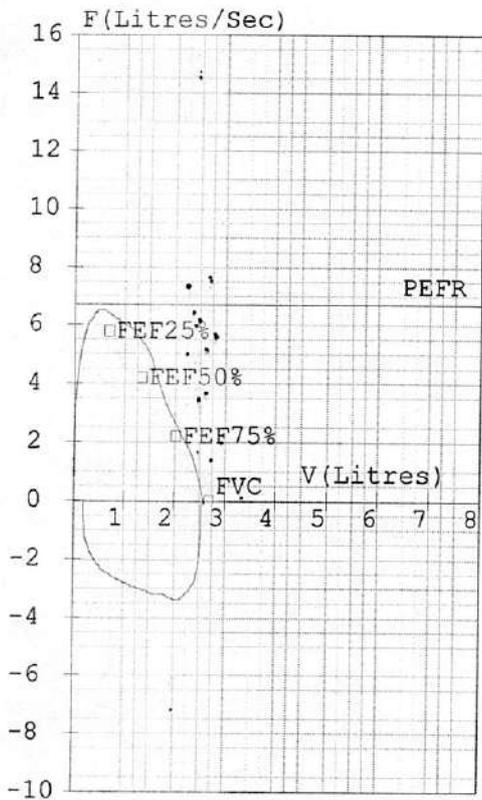
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Radiologist

RUPRELA DIAGNOSTIC CENTER RAIPUR

181/5,Phase-I,Industrial Area,Chandigarh-160002

Patient: ANIL KUMAR DWIVEDI Age : 32 Years Gender : Male
 Refd. By: HIRA POWER AND STEEL LTD Height : 176 Cms Smoker : No
 Pred.Eqns: RECORDERS Weight : 80 Kgs Eth. Corr: 70
 Date : 22-Feb-2023 12:47 PM ID: 203514 Temp :



Spirometry (FVC Results)

Parameter	Pred	M.Pre	%Pred	M.Post	%Pred	%Imp
FVC (L)	02.70	02.56	095	-----	---	---
FEV1 (L)	02.27	02.56	113	-----	---	---
FEV1/FVC (%)	84.07	100.00	119	-----	---	---
FEF25-75 (L/s)	03.09	04.93	160	-----	---	---
PEFR (L/s)	06.69	06.45	096	-----	---	---
FIVC (L)	-----	02.40	---	-----	---	---
FEV.5 (L)	-----	02.25	---	-----	---	---
FEV3 (L)	02.62	02.56	098	-----	---	---
PIFR (L/s)	-----	03.33	---	-----	---	---
FEF75-85 (L/s)	-----	02.39	---	-----	---	---
FEF.2-1.2 (L/s)	05.42	06.07	112	-----	---	---
FEF 25% (L/s)	05.78	06.35	110	-----	---	---
FEF 50% (L/s)	04.21	05.52	131	-----	---	---
FEF 75% (L/s)	02.19	02.96	135	-----	---	---
FEV.5/FVC (%)	-----	87.89	---	-----	---	---
FEV3/FVC (%)	97.04	100.00	103	-----	---	---
FET (Sec)	-----	00.92	---	-----	---	---
ExplTime (Sec)	-----	00.08	---	-----	---	---
Lung Age (Yrs)	032	028	088	-----	---	---
FEV6 (L)	02.70	-----	---	-----	---	---
FIF25% (L/s)	-----	03.29	---	-----	---	---
FIF50% (L/s)	-----	03.13	---	-----	---	---
FIF75% (L/s)	-----	02.72	---	-----	---	---

B.B
Dr. B. B. KUMAR
 MBBS, M. (Medicine)
 Reg. No. WB 52411

56

RUPRELA X-RAY AND ADVANCED DIAGNOSTIC CENTER

COMPANY : HIRA POWER AND STEEL LTD

R.D. NO. : 56

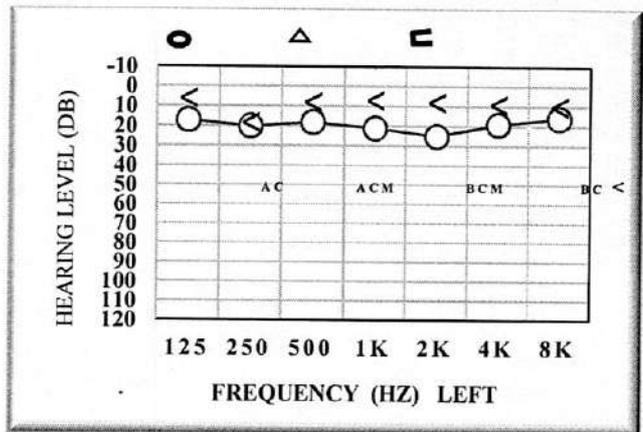
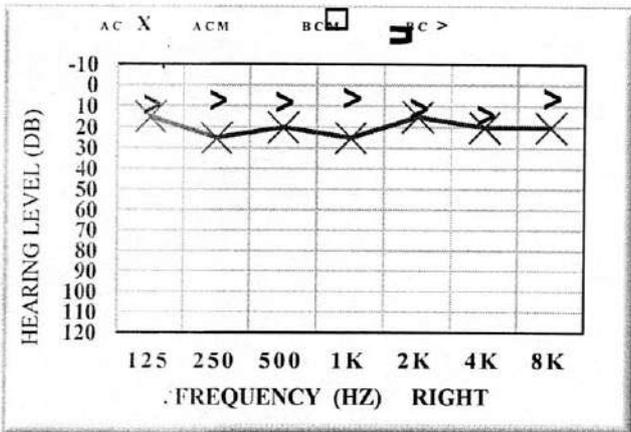
NAME : ANIL KUMAR DWIVEDI

AGE : 32/M

DATE : 22/02/2023

32/M

MANIRAM NISHAD



EAR	MODE	AIR CONDUCTION		BONE CONDUCTION		COLOUR CODE	THRESHHOLD IN dB		
		MASKED	UNMASKED	MASKED	UNMASKED		AIR CONDUCTION		
LEFT	<input type="checkbox"/>	x	☐	☐	>	BLUE	19	15	
RIGHT	<input type="checkbox"/>	△	○	☐	<	RED			
NO RESPONSE : ADD ↓ BELOW THE RESPECTIVE SYMBOLS							SPEECH		

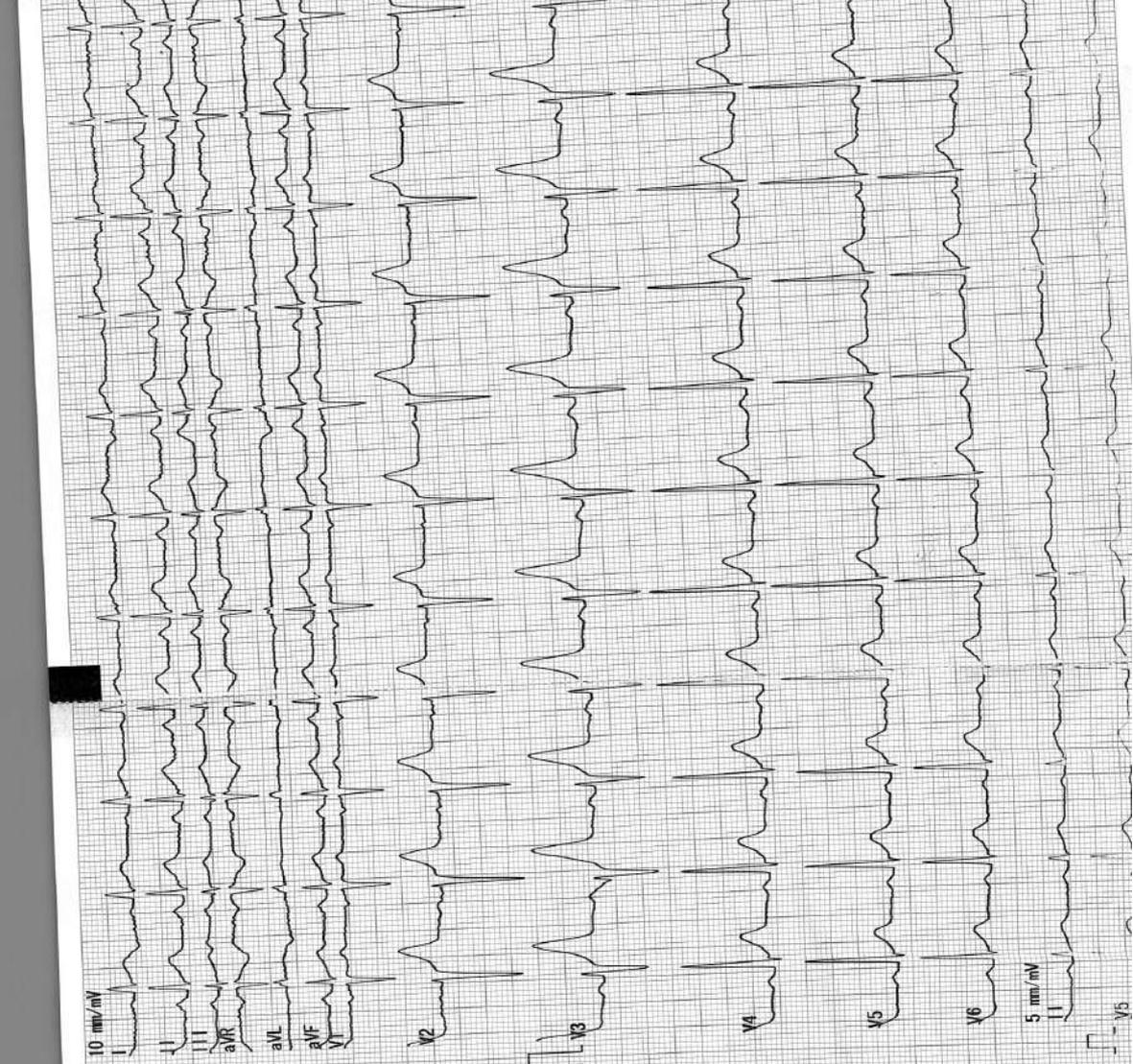
REMARK :


Dr. Gaurav Ahluwalia
 MBBS, DNB (ENT), FRCSI
 Fellowship in FESS, ACLS
 Reg. No.-CGMC 2228/2009

HR : 84
 PR : 168
 QRS : 120
 QT : 318 / 375 / 355
 QTc : 37.0 / 34.9 / 35.6
 PAX / QRSAX / TAx : 1.86 / 0.81
 R (V5) / S (V1) : 2.68
 R (V5) + S (V1) : 2.68

2022-11-22 17:25:24
 ANIL KUMAR DWIVEDI Pd
 Male Age: 32
 HIRA POWER
 Section :
 Room ID :
 Bed ID :
 Accession Number :
 Operator :

10 mm/mV 25 mm/s



<< Conclusions >>
 Cardiac electric axis normal;
 Normal Sinus Rhythm.
 #report need physician confirm#
 physician

DR. GAURAV TRIPATHI
 MBBS, D.M. (CARDIOLOGY)
 REG. NO. CGMC.10638/2020

ANIL KUMAR DWIVEDI

PID:1790

DOB:1991-02-23

Age: 032Y

Sex: M

Acc#:2023022315165989

Chest PA

Acq:2023-02-23, 15:27:06

DAP:0.0

kVp:120.0

mA: 125

mAs: 2.50

ms:20

R

20 cm

RelativeEXI: 737

EXI:122.83

DI:-3.1

Zoom:95% (T)

WW:4096

WL:2048

Virtual Hospital



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E-Mail : ruprelahealthcare7@gmail.com

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FORM 21 (Annexure)
[prescribed under Rule(19)]
Health Register

(in respect of persons employed in occupation declared to be dangerous operation under section 87)

PRE-EMPLOYMENT & PERIODIC MEDICAL EXAMINATION

Registration No : 114

Date : 22-02-2023

Name : AJAY VERMA	Age (Years): 36	Gender : Male
Nature of Employment :	Employee No. : 2036	
Date of Joining :	Last Medical Date :	
Department : CCS	Designation : SUPERVISOR	
No. of Working Year : Previous Working :	Mobile No. :	
ESIC Number :	Aadhar No. :	

1. GENERAL EXAMINATION

HEIGHT : 175 cm	WEIGHT : 89 Kg	BMI : 29.06
CHEST INSPIRATION : 109 cm	EXPIRATION : 104 cm	BUILT : Average
THROAT : Normal	THYROID : Note Palpabel	LYMPH NODES : Note Palpabel
TOUNGE : Normal	TEETH : Normal	GUMS : Normal
TONSILS : Normal	ADDITIONAL FINDING IF ANY : Absent	

2. CARDIO-VASCULAR SYSTEM

PULSE : 92/min Regular	PERIPHERAL PULSE : Felt
BP : 125/70 mmHg	MURMUR IF ANY : Absent
HEART SOUND : Normal	ADDITIONAL FINDING IF ANY : Absent

3. RESPIRATORY SYSTEM

SHAPE OF CHEST : Normal	CHEST MOVEMENTS : Normal
TRACHEA : Normal	BREATH SOUNDS : Normal

4. GASTRO-INTESTINAL SYSTEM

LIVER : Note Palpabel	SPLEEN : Note Palpabel
ANY ABDOMINAL LUMP : Absent	

5. EXAMINATION OF EYE

EXTERNAL EXAMINATIN SQUINT : Normal	NYSTAGMUS : Normal
COLOUR VISION : Normal	FUNDUS : Normal
INDIVIDUAL COLOUR IDENTIFICATION : Normal	
DISTANT VISION (WITHOUT GLASSES)	NEAR VISION (WITHOUT GLASSES)
RIGHT : 6/6 LEFT : 6/6	RIGHT : 6/9 LEFT : 6/9
DISTANT VISION (WITH GLASSES)	NEAR VISION (WITH GLASSES)
RIGHT : LEFT :	RIGHT : LEFT :

6. EXAMINATION EAR, NOSE & THROAT : EXTERNAL EXAMINATION :- Normal

7. GENITO URINARY SYSTEM

HERNIA : Absent	HYDROCELE / VERICOCELE : Absent	CRYPTORCHISISM : Absent
PHIMOSIS : Absent	VARICOSE VEIN : Absent	SIGNS OF STD : Absent
OTHER EXAMINATIN FOR FEMALES : MENSTRUAL HISTORY OBSTERIC HISTORY		
MENARCHE AT : YRS :	GRAVIDA :	PARA :
LMP :	MENSTRUL IRREGULARITY IF ANY :	

RADIOLOGY

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INVESTIGATION

8. LAB INVESTIGATION :

HEMOGRAM	LIPID PROFILE	HEPATIC PROFILE
HB : 13.7 gm %	Cholesterol : 176.0 mg/dl	Bilirubin : (Total) 0.46 mg %
TLC : 8500 cmm	Tryglyceride : 137.0 mg/dl	Bilirubin (Direct) : 0.20 mg %
DLC : P 60 L 37 E 02 M 01 B 00	HDL : 50.0 mg/dl	Bilirubin (Indirect) : 0.26 mg %
RBC : 4.9 million/cmm	LDL : 98.60 mg/dl	SGOT : 27.0 IU/L
Platelet : 216 lacs/cmm	VLDL : 27.40 mg/dl	SGPT : 31.0 IU/L
ESR : 08 mm/hr	CHO:HDL :	ALK PHOS 113.0 IU/L
Blood Group : B+ RH Type : Positive		
METABOLIC	OTHER INVESTIGATION	URINE EXAMINATION
B.Sugar (F) : 103.0 mg/dl	Anti HIV 1 & 2 :	Urine Albumin : Nil
B.Sugar (PP) : 129.0 mg/dl	HBsAg :	Urine Sugar : Nil
Uric Acid : 5.6 mg/dl	Anti HCV :	Microscopy : Nil
Blood Urea : 30 mg/dl	Syphilis :	
SR CREAT : 0.90 mg/dl	THS :	
STOOL : mg/dl	WIDAL :	

9. OTHER INVESTIGATIONS :

a. ECG (In case of any abnormality further test should be carried out.) : Normal
b. X ray chest (In normal person once in 3 years, in case of any abnormality X ray can be done at shorter intervals.) : Normal
c. Ultrasound whole abdomen (In normal person once in 3 years, in case of any abnormality X ray can be done at shorter intervals.) : N/A
d. Others :

10. PULMONARY FUNCTION TESTS :

	FVC	FEC 1	FEC1/FVC
Predicted			
Measured			
% of Predicted	077	093	121

Remarks : Normal

11. AUDIOMETRY EXAMINATION : Normal

12. MEDICAL EXAMINATION OF CANTEEN STAFF :

13. Detail of other specific medical examination carried out as mentioned in the respective in the respective schedules or rule 107 of CG factories rules 1962.

Signature (with date) of factory medical officer

Signature (with date) of certifying surgeon

DR. HARSHAD RUPRELA
MBBS, DMRO, D.N.B.
REG. NO.: CGMC 6849/2016

RADIOLOGY

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Radiologist

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Name : AJAY VERMA

Age / Sex: 36 Y / Male

Report Printed ON At : 22-02-2023

Sample Received On/ At : 22-02-2023

Consultant : HIRA POWER & STEEL LTD URLA

Haematology

Parameter	Result	Unit	Normal Range
ABO Group	B+		
Rh Type	Positive		
Total WBC Count	8500	/cumm	4000-11000
Total RBC	4.9	10 ⁶ /μl	3.50-5.50
Haemoglobin	13.7	g/dl	12.0-16.5
Platelet Count	216	10 ³ /μl	150-450
Neutrophils	60	%	40-75
Lymphocytes	37	%	20-40
Eosinophils	02	%	1-6
Monocytes	01	%	1-10
Basophils	00	%	0-1
ESR	08	mm at 1hr	05-20

CHECKED BY


 DR. SHRADDHA SAHU
 MBBS.MD (Pathology)
 (Pathologist)

DR. SHRADDHA SAHU
 MBBS. MD. (PATHOLOGY)
 REG. NO.-C.G.M.C. 6485/2016

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Age / Sex: 36 Y / Male

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Bio Chemistry

Parameter	Result	Unit	Normal Range
Urea	30	mg/dl	15-45
Serum Creatinine	0.90	mg/dl	0.6-1.4
Uric Acid	5.6	mg/dl	3.6-7.0
Bilirubin - Total	0.46	mg/dl	0.1-1.2
Bilirubin - Direct	0.20	mg/dl	0-0.3
Bilirubin - (Indirect)	0.26	mg/dl	0-0.6
SGOT(AST)	27.0	U/L	0-45
SGPT(ALT)	31.0	U/L	0-45
Alkaline Phosphatase(ALP)			
Alkaline Phosphatase(ALP)	113.0	U/L	41-270
Total Cholesterol	176.0	mg/dl	150-200
Triglycerides	137.0	mg/dl	35-170
HDL Cholesterol	50.0	mg/dl	35-70
VDL Cholesterol	98.60	mg/dl	Less than 100
LDL Cholesterol	27.40	mg/dl	7-35
Blood Sugar Fasting	103.0	mg/dl	70-110
Blood Sugar	129.0	mg/dl	80-140

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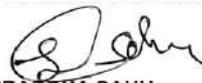
Sample Received On/ At : 22-02-2023

Consultant : HIRA POWER & STEEL LTD URLA

CLINICAL PATHOLOGY

Parameter	Result	Unit	Normal Range
URINE ROUTINE ANI			
Physical Examination			
Colour	Pale Yellow		
Quantity	30	ml	>30
Appearance	Clear	-	Clear
Reaction	Acidic	-	Acidic
Chemical Examination			
Albumin	Nil	-	NIL
Sugar	Nil	%	NIL
Microscopy Examination			
RBC	Nil	/hpf	NIL
PUS Cells	2-4	/hpf	< 5
Epithelial Cells	1-3	/hpf	< 3
Crystals	Absent	-	Absent
Casts	Absent	-	Absent
Bacteria	Absent	-	Absent
Other (Urine)			

CHECKED BY


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(Pathologist)

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Name : AJAY VERMA

Age / Sex: 36 Y / Male

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Consultant : HIRA POWER & STEEL LTD URLA

EYE EXAMINATION

External Exam : Normal

Squint : Normal

Nystagmus : Normal

Colour Vision -

Fundus - (L): Normal (R): Normal

Individual Colour Identification : Normal

Distant Vision (without Glass)

Right : 6/6 Left : 6/6

(With Glass) Right : Left :

Near Vision (Without Glass)

Right : 6/9 Left : 6/9

(With Glass) Right : Left :

Night Blindness(Nyctalopia) : Normal

DR. EKTA BATAVIA JAIN
MBBS, DNB (OPHTHALMOLOGY) FVP

RADIOLOGY

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Name : AJAY VERMA

Age / Sex: 36 Y / Male

Report Printed ON At : 22-02-2023

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Consultant : HIRA POWER & STEEL LTD URLA

X-RAY CHEST (PA) VIEW

OBSERVATION

- Both hilar shadows appear normal.
- Both lung fields are clear.
- Both costo phrenic angles are normal.
- Cardiothoracic ration is within normal limits.
- Trachea centrally placed.
- Soft tissue and bony cage appear normal.
- Both Hemidiaphragms are well outlined.

IMPRESSION

- Normal Study.

Suggest : Clinical Correlation.

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REG. NO.: CGMC 6849/2016

RADIOLOGY

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RADIOLOGY

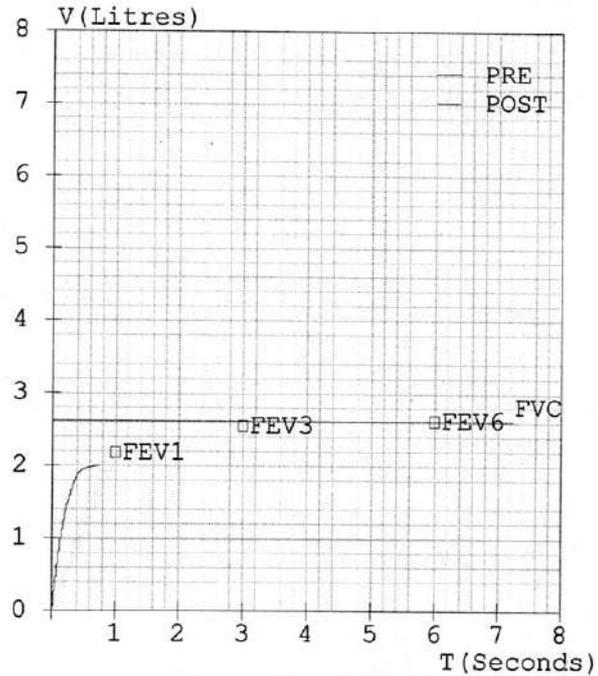
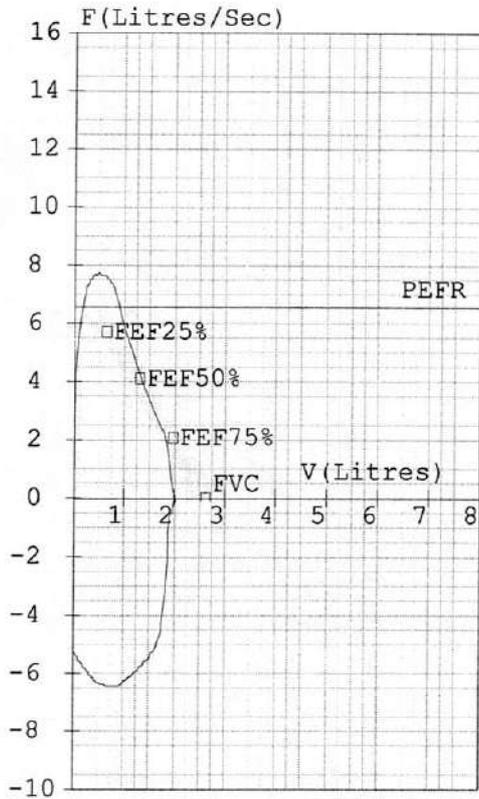
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Radiologist

RUPRELA DIAGNOSTIC CENTER RAIPUR

181/5,Phase-I,Industrial Area,Chandigarh-160002

Patient: AJAY VERMA Age : 36 Years Gender : Male
 Refd. By: HIRA POWAR AND STEEL LTD Height : 175 Cms Smoker : No
 Pred.Eqns: RECORDERS Weight : 89 Kgs Eth. Corr: 70
 Date : 22-Feb-2023 05:37 PM ID: 203587 Temp :



Spirometry (FVC Results)

Parameter	Pred	M.Pre	%Pred	M.Post	%Pred	%Imp
FVC (L)	02.63	02.02	077	-----	---	---
FEV1 (L)	02.18	02.02	093	-----	---	---
FEV1/FVC (%)	82.89	100.00	121	-----	---	---
FEF25-75 (L/s)	02.95	05.34	181	-----	---	---
PEFR (L/s)	06.54	07.68	117	-----	---	---
FIVC (L)	-----	02.67	---	-----	---	---
FEV.5 (L)	-----	01.96	---	-----	---	---
FEV3 (L)	02.55	02.02	079	-----	---	---
PIFR (L/s)	-----	06.41	---	-----	---	---
FEF75-85 (L/s)	-----	02.72	---	-----	---	---
FEF.2-1.2 (L/s)	05.19	06.61	127	-----	---	---
FEF 25% (L/s)	05.69	07.60	134	-----	---	---
FEF 50% (L/s)	04.11	05.77	140	-----	---	---
FEF 75% (L/s)	02.07	03.30	159	-----	---	---
FEV.5/FVC (%)	-----	97.03	---	-----	---	---
FEV3/FVC (%)	96.96	100.00	103	-----	---	---
FET (Sec)	-----	00.80	---	-----	---	---
ExptTime (Sec)	-----	00.06	---	-----	---	---
Lung Age (Yrs)	036	039	108	-----	---	---
FEV6 (L)	02.63	-----	---	-----	---	---
FIF25% (L/s)	-----	06.36	---	-----	---	---
FIF50% (L/s)	-----	05.32	---	-----	---	---
FIF75% (L/s)	-----	00.97	---	-----	---	---

B.B.
 Dr. B. B. KUMAR
 MBB, (Medicine)
 Reg. No. WB 52411

RUPRELA X-RAY AND ADVANCED DIAGNOSTIC CENTER

COMPANY : HIRA POWER AND STEEL LTD

R.D. NO. : 110

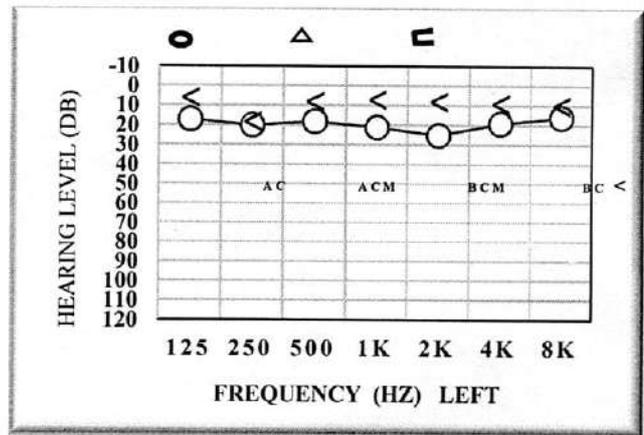
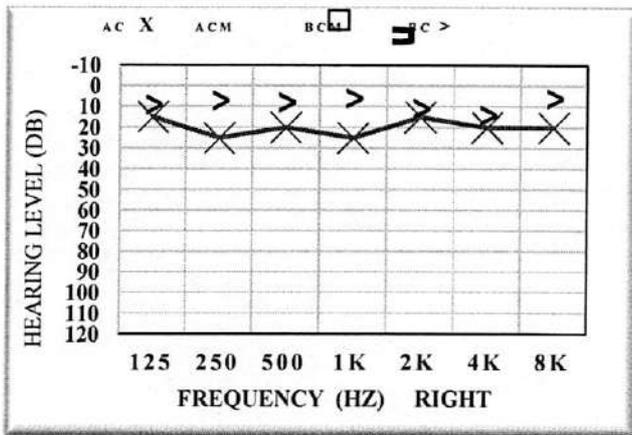
NAME : AJAY VERMA

AGE : 36/M

DATE : 22/02/2023

32/M

MANIRAM NISHAD

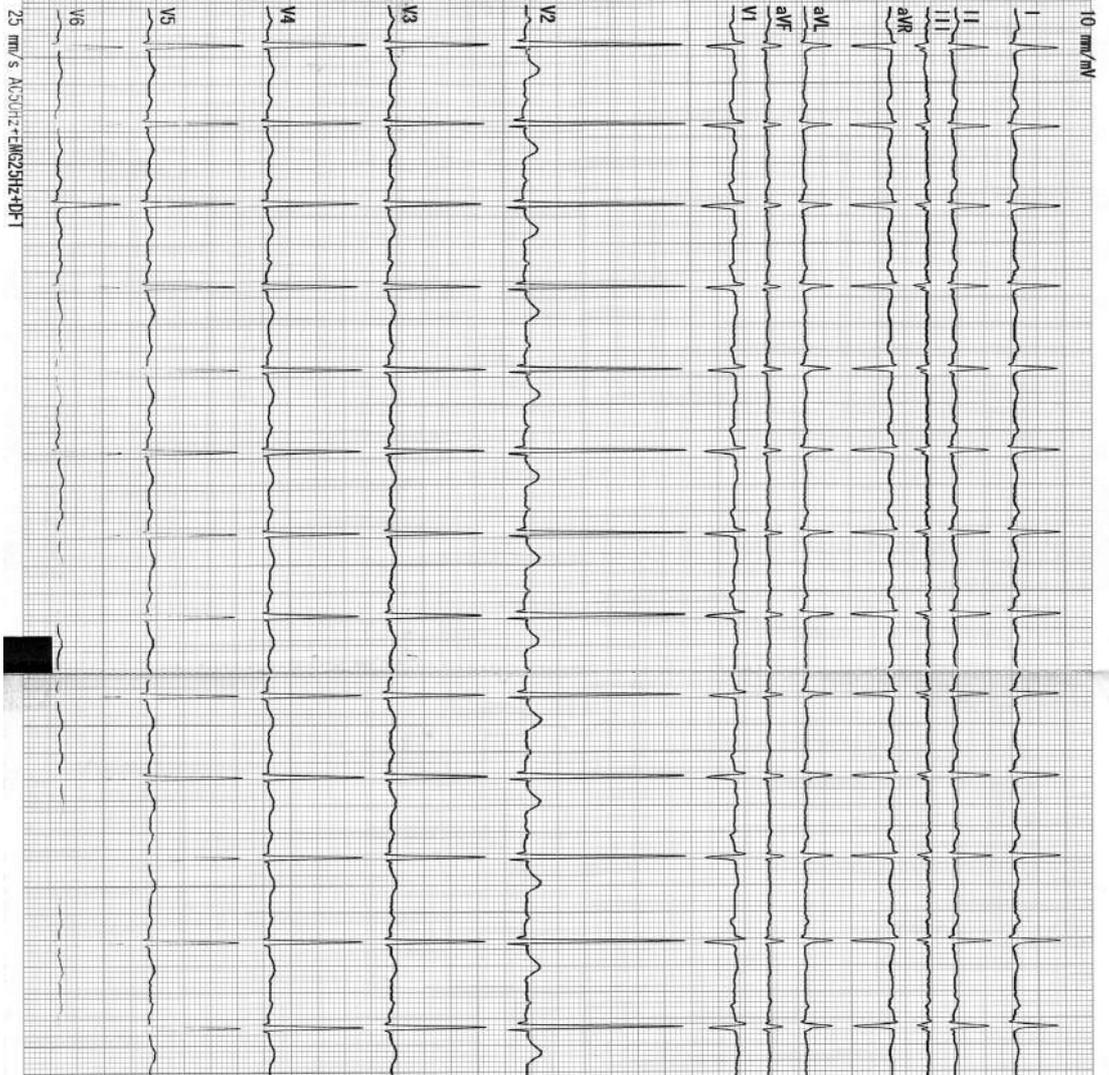


EAR	MODE	AIR CONDUCTION		BONE CONDUCTION		COLOUR CODE	THRESHOLD IN dB	
		MASKED	UNMASKED	MASKED	UNMASKED		AIR CONDUCTION	BONE CONDUCTION
LEFT		□	×	◩	>	BLUE	20	22
RIGHT		△	○	◥	<	RED		

NO RESPONSE : ADD ↓BELOW THE RESPECTIVE SYMBOLS

REMARK :


Dr. Gaurav Anilwalia
 MBBS, DNB (ENT), FRCSI
 Fellowship in FESS, ACLS
 Reg. No.-CGMC 2228/2009



2023-02-22 17:52:08 HR 99

Name: AJAY VERMA Pd
 Sex: Male Age: 36 Pd
 Section: HIRA POWER QRSd
 Room ID: Id
 Bed ID: OT/OTc/OTc
 Accession Number: PAX/QRSAX/AX
 Operator: R(V5)/S(V1) deg: 21.8/14.1/20.1
 R(V5)+S(V1) [mV]: 1.88/0.54
 [mV]: 2.21

10 mm/mV 25 mm/s
 I aVL V1 V3 V5
 II aVR aVF V2 V4 V6

<<< Conclusions >>
 I II aVL aVF V2 V3 V4 V5 V6 Abnormal T wave:

Longitudinal Left axis deviation;
 Normal Sinus Rhythm;

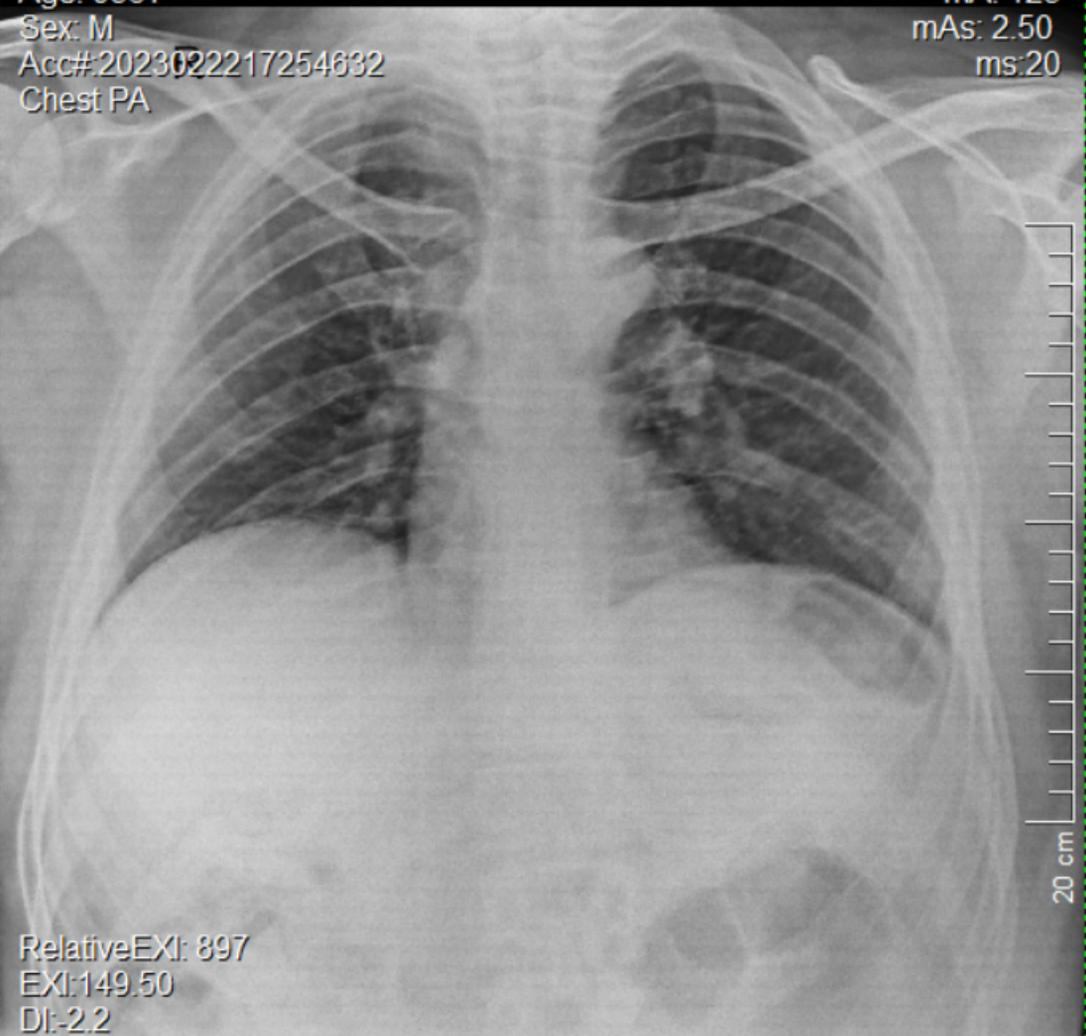
Report to med physician confirm
 physician

[Signature]
 DR. GAURAV TRIPATHI
 M.B.B.S., D.N.B. (Cardiology)
 Reg. No. CGMC 10638/2020

AJAY VERMA
PID:2036
DOB:1987-02-22

Acq:2023-02-22, 17:33:43
DAP:0.0
kVp:120.0
mA: 125
mAs: 2.50
ms:20

Age: 036Y
Sex: M
Acc#:2023022217254632
Chest PA



RelativeEXI: 897
EXI:149.50
DI:2.2

Zoom:93% (T)
WW:4096
WL:2048

HIRA

HIRA POWER & STEELS

Ref: 2175 /HPSL/U2/CPPI/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 Anil Tiwari
Authorized Signatory

Encl: As Above



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

HIRA

HIRA POWER & STEELS

Copy to:

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

COPY

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

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