SHRI BAJRANG
POWER AND ISPAT LTD.
BELIEF, STRONGER THAN STEEL.
POWER | STEEL | MINING

SBPIL/ENV/TMT/22 -23/ 1438

Date: 30.12.2022

To
The Regional Officer,
Integrated Regional Office,
Ministry of Environment and Forest, Climate Change
Ground Floor Aranya Bhavan, North Block, Sec- 19
Atal Nagar, Naya Raipur (C.G.) - 492002

Sub: Submission of Six monthly Compliance Report for the period Apr`22 – Sept`22.

Ref:

1. **Environmental Clearance No. F.No.J-11011/218/2007-IA II (I) dated 11.02.2008 from Govt of India, Ministry of Environment and Forests, New Delhi regarding expansion by installing Re Rolling Mill (1,50,000 TPA) and Coal based Power plant (16 MW) at Shri Bajrang Power & Ispat Ltd.(TMT), Gondwara, Raipur(C.G.).**

Dear Sir,

With reference to above cited subject, please find enclosed herewith Compliance conditions status for the period **Apr`22 – Sept`22** as required by your good office in compliance of Environmental Clearance granted by Govt of India, Ministry of Environment and Forests, New Delhi vide their letter No. **F.No.J-11011/218/2007-IA II (I) dated 11.02.2008** for expansion by installing Re Rolling Mill (1,50,000 TPA) and Coal based Power Plant(16 MW) at Shri Bajrang Power & Ispat Ltd. (TMT Division) situated at Kh. No. 2/3, Village - Gondwara, Urla Industrial Complex, Raipur 493221 (C.G.).

Hope, you will find the above in order.

Thanking you,
For SHRI BAJRANG POWER & ISPAT LTD., (TMT Division)

G.R. Telang
(AGM – EHS)

Encl: As above Mentioned.

CC- 1. Regional officer, Chhattisgarh Environment Conservation Board, Kabir Nagar, Raipur (C.G.).
2. Member Secretary, Chhattisgarh Environment Conservation Board, Paryavas bhawan, North Block, Sector-19, Atal Nagar, Raipur (C.G.).

Compliance Report of Specific and General Condition of Environment Clearance granted by Ministry of Environment and Forest, for Re-rolling Mill (1,50,000 TPA) and Coal Based power plant (16 MW) at M/s Shri Bajrang Power and Ispat Limited situated (TMT Division) formerly Known as M/s Bajrang Metallics & Power Ltd. situated at Kh. No. 2/3, Village - Gondwara, Urla Industrial Complex, Raipur 493221 (C.G.)

Ref. : **Environment Clearance ; File No. J-11011/218/2007-IA II-(I) dated 11/02/2008.**

Sr. No.	SPECIFIC CONDITIONS:	STATUS AS ON 30.09.2022
1.	No additional induction furnace shall be installed. The Re-Rolling Mill and CPP shall operate for 300 and 330 days respectively.	Earlier we have been granted Permission to Establish and operate for Steel Melting Shop unit of capacity-1,05,600 TPA, against which we have installed 04 Nos. Induction furnace of 6T each, however we could not achieve desired production, hence without increase in production capacity we have installed One No. additional Induction Furnace of same capacity i.e. 6T at same premises area after getting amendment in Permission to Establish and permission to operate from concerned authority i.e. Member Secretary, Head Office, Chhattisgarh Environment Conservation Board, Raipur vide letter Nos. 6317 Dated-22/03/2016 and 1914 and 1916 Dated-30/06/2016 respectively. Though we have been granted Permission to Establish for 2 Nos. Induction Furnace of capacity 6T each at same campus.
2.	The gaseous emission from various process units, especially CO and HC shall confirm to the load/based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time. The State Board may specify more stringent standards for the relevant parameters. At no time the emission level shall go beyond the prescribed standards. On-line Continuous monitoring system for particular emissions shall be provided and shall make necessary arrangements for submission of On-line real time emission data to CPCB website. Interlocking facility shall be provided between pollution control equipment and the process operations that in the event of the pollution control equipment not working, the respective unit (s) is shut down automatically.	On-line Continuous Stack gas monitoring system for PM, SO_x, NO_x has been installed at stack of Power plant and necessary arrangements for submission of On-line real time emission data to CPCB website has been made. Inter locking system has been installed between Pollution control equipment and Process operation, to ensure the smooth and regular operation of pollution control equipment. **On- Line real time emission data attached as Annexure - I**
3.	Air emissions from AFBC boiler shall be controlled using ESPs to limit the SPM to 50 mg/Nm^3. 70 m high stack shall be provided with the boiler. The oil / coal gas fired reheating furnace of Rolling Mill shall have a minimum of 30 m stack. SPM emission from the Stacks will be restricted within 50 mg/Nm^3.	To control and maintain Air emission from AFBC boiler within prescribed limit i.e. 50 mg/Nm3, suitable & effective ESP has been installed and attached with RCC stack of 70 meters height and emission level is being maintained well within the norms. Rolling Mill stack height is 30 meters and air emission is also being maintained well within the latest prescribed norms.

4.	Recuperator shall be installed for heat recovery from the flue gas from the reheating Furnaces.	Recuperator have been installed and working effectively.
5.	In plant control measures for checking fugitive emissions from all the vulnerable sources like spillage/Raw materials/Coal handling etc. shall be provided. Further, specific measures like provision of dust extraction and suppression system consisting of Water Sprinkling, Suction hoods, Fans, Bag Filters, etc. shall be installed at Material Transfer Points, Furnace Stock House and other enclosed Raw Material Handling Areas. Centralized De-Dusting System i.e. collection of fugitive emissions through suction hood shall be provided with Bag Filters and a stack of appropriate height, as prescribed above, shall be provided for Induction Furnaces. Fugitive emissions, especially in the work zone shall be regularly monitored and records be maintained.	Following arrangements are made to control Fugitive emission :- 1. Constructed RCC roads are being cleaned by Mechanical Sweeping Machine on regular basis. 2. Intermittent water sprinkling on internal roads, Raw Material Yards by our own water tankers for dust suppression. 3. Movable Water sprinklers installed at different locations of plant and are being operated intermittently. 4. Most of the Belt Conveyor is fully covered with canopy cover. 5. Mist water spraying arrangement installed at conveyor belts transfer points, crusher, loading/unloading area etc. 6. Suitable capacity bag filter are also installed at different locations of plant. 7. Installed wheel wash system at near main gate of plant to control fugitive emission from vehicle movement. Fugitive Emission is being controlled and monitored regularly and records are being maintained.
6.	Raw material shall be stored in covered yards. Water sprinkling arrangement shall be made in the raw material stock yard to control fugitive emissions. Materials will be transported in tippers, covered trucks, covered containers, covered rail wagons etc.	Raw materials are being kept at their designated place with proper precautions. Water sprinklers & water spraying arrangements are provided at Raw Material Stock Yard, for control fugitive emissions. Materials are being transport in covered vehicles.
7.	Wind breakers shall be provided to restrict fugitive dust.	Necessary actions like installation & operation of movable water sprinklers at desired locations, developed dense plantation, etc. has been taken for control the fugitive dust.
8.	No waste water shall be discharged outside the Plant and 'Zero Discharge' shall be strictly followed. The wastewater, after treatment, shall be reused for cooling, slag quenching, gardening, green belt development and dust suppression. Treated Waste water will also be recycled in the process. The domestic waste water will be treated in the soak pita and used for gardening/ green belt development.	The generated domestic waste water after treatment is being used for slag quenching and dust suppression. No waste water is being discharged outside the plant; hence zero discharge is being maintained.
9.	ESP dust shall be used for captive fly ash brick manufacturing or will be given to cement manufacturing plants. Slag from the existing SMS shall be used as replacement of sand for brick making or road making and land filling. Char accumulated at the Borjhara, Urla Plant shall be used in the CPP at this site. Mill scale shall be sold	Generated ESP dust is being used for captive Fly Ash Brick manufacturing in our own Bricks plant, situated at same premises as well as being supplied to others Bricks manufactures. Slag from the existing SMS unit, after crushing, screening and material removing, it is being used as replacement of sand for Brick making

	to Ferro Alloys Plants or exported. Bag filter Dust shall be either sold or used in brick making, Coal Washery Rejects and Fines shall be stored in the premises for use in the AFBC Boiler. These shall be stored properly to avoid any fugitive dust and impact to the environment.	in our own Fly Ash Bricks plant and if balance, is being used for internal bypass Road construction. Char accumulated at Borjhara unit's SID Plant, is being used as a raw material in the 16 MW Captive Power Plants situated at this site. Mill scale is being re-used in Furnaces of SMS unit, supplied to our Borjhara unit's Ferro Alloys Plant. Bag Filter Dust is being used in Brick making, Moreover Coal Washery plant is situated at our Borjhara unit, not here.
10.	Fly ash shall be utilized as per the Fly Ash Utilization Notifications No. S.O. 763(E) dated 14.9.1999 and S.O. No. 513(E) dated 3.4.2007 of the Ministry of Environment and Forests.	Most of the Fly Ash quantity is being used in our own Fly Ash Brick manufacturing plant, balance quantity is being supplied to other Fly Ash Bricks manufacturing units and also being used in filling low lying area, bypass roads construction etc. as and when required.
11.	Acoustic enclosures shall be installed to limit the noise levels below 85 dBA.	Noise level is being maintained well within the prescribed norms. Personal Protective Equipment like ear plug/Muffs are being provided for noise prone area employees. **Report are attached as Annexure- II.**
12.	Minimum Cycle of Concentration (COC) for the CPP shall be 5.0.	In our captive power plant, we are maintaining cycle of concentration between 6.0 to 7.0.
13.	The company shall strictly follow all the recommendations mentioned for the Steel plants in the Charter on Corporate Responsibility for Environmental Protection (CREP).	We are following all the recommendations mentioned in the Charter on Corporate Responsibility for Environmental Protection like 100% disposed off of generated Fly ash in making Bricks & Blocks in our own Bricks plant, supply to cement plant & other outside Bricks Plant units, while Steel slag is also being disposed off in safe & scientific manner.
14.	Green belt shall be further developed up to an area of 37,000 m^2.	We have been developed plantation in 7.4 Hect @ 2500/Hect i.e. 40% area of total plant area.
15.	The company shall harvest surface as well as rainwater from the roof tops of the buildings proposed in the expansion project and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.	Agreed and being followed. 05 Nos. of Rain Water harvesting system has been constructed at different locations of plant area to recharge the ground water. **Photographs of RWH is enclosed as Annexure- III.**

Sr. No.	GENERAL CONDITIONS:	STATUS AS ON 30.09.2022
1.	The project authorities must strictly adhere to the stipulations made by the Chhattisgarh Environment Conservation Board (CECB) and the State Government.	We are complying all condition, as and when prescribed by the Chhattisgarh Environment Conservation board (CECB) and the state Government.
2.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	Agreed. In case of further expansion or modifications in the plant, we shall take prior approval of the Ministry of Environment and Forests.

3.	Regular Ambient Air Quality Monitoring shall be carried out including CO and HC. The locations of ambient air quality monitoring stations shall be reviewed in consultation with the State Pollution Control Board (SPCB) and additional stations shall be installed, if required, in the downwind direction as well as where maximum ground level concentrations are anticipated for SPM. SO_2 and NO_x. It will be ensured that at least One monitoring station is set up in up-wind & in down-wind direction along with those in other directions. On-line data for air emissions shall be transferred to the CPCB and CECB once in six months. The instruments used for ambient air quality monitoring shall be calibrated regularly.	Rolling Mill and Captive Power Plant are Situated at same plant premises along with other units, hence Ambient Air quality monitoring stations are common for all units. Ambient Air quality is being monitored regularly by the outside authorized agency and reports are being submitted timely to concerned authorities. **Reports are enclosed as Annexure-IV**
4.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report.	We are complying all the environment protection measures and safeguards recommended in the EIA/EMP report.
5.	Industrial waste water shall be properly collected and 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 wastewater shall be utilized for plantation purpose.	In rolling Mill, water is being used only for cooling purpose, in re-circulating manner and cooling tower blow down is being used for dust suppression as well as plantation purpose.
6.	The overall noise levels in and around the plant area shall be limited within the prescribed standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.	Noise level is being maintained well within the norms. Personal safety equipment like ear plugs/muffs are being provided for noise prone area employees.
7.	Proper Housekeeping and adequate occupational health programs shall be taken up. Regular Occupational Health Surveillance Programme for the employees and contract workers shall be carried as per the Factories Act and records shall be maintained properly for at least 30-40 years.	Good housekeeping practice is being adopted. Under Occupational Health Surveillance Program, health checkup camps are being conducted for all employees and records are being maintained. **Form-21 Enclosed as Annexure – V.**
8.	A separate environment management cell with full fledge laboratory facilities to carry out various management and monitoring functions shall be set up under the control of a Senior Executive.	A separate environment management cell has been developed. Environment related monitoring & analysis function are being carried out by Technical staff, under shall be set up under the control of a senior executive.
9.	Adequate funds shall be earmarked for the environmental protection measures and shall be used judiciously to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.	Adequate funds has been earmarked for the environment protection measures and same is being used for implementation of the conditions, stipulated by the ministry of Environment and Forests as well as the State Government. The funds, which earmarked for the environment protection measures are not being diverted for any other purpose.
10.	Regional Office of this Ministry at Bhopal / Chhattisgarh Environment Conservation Board / Central Pollution Control Board shall monitor the implementation of the stipulated conditions. Six	Officer of the Regional Office of this Ministry at Bhopal/Chhattisgarh Environment Conservation Board/Central Pollution Control Board are time to time monitoring, the

	monthly compliance status report and monitoring data along with statistical interpretation shall be submitted to them regularly.	implementation of the stipulated conditions. We are regularly submitted the six monthly compliance status report and monitoring data along with statically interpretation. [Note: Nagpur office shifted to Raipur Chhattisgarh Hence we are submitting report to MoEF&CC Regional office Raipur Chhattisgarh instead of Nagpur Office).
11.	The Project Proponent should advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the Chhattisgarh Environment Conservation Board / Committee and may also seen of Website of the Ministry and Forests at http://envfor.nic.in. The advertisement should be made within 7 days from the date of issue of the clearance letter and a copy of the same should be forwarded to the Ministry's Regional Office at Bhopal.	Already published in newspapers and copies also send to Ministry's regional Office, Bhopal (M.P.).
12.	The Project Authorities 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 start of land development work.	Already informed. Plants are already in operation.
13.	The ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed
14.	The ministry reserve the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.	Agreed
15.	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & control of pollution) Act, 1974, the Air (Prevention & control of pollution) Act, 1981. The environment(Protection) Act,1986, the public Liability Insurance Act,1991, Hazardous Waste(Management & Handling) Rules,1989 and Manufacture, storage and import of Hazardous Chemical Rules,1989 along with their amendments and rules.	Agreed

Annexure- I

s portal is as per CPCB prescribed procedure published at cpcb.nic.in (http://cpcb.nic.in)

SHRI BAJRANG POWER & ISPAT LTD_ TMT Raipur, Chhattisgarh Stack-1 CPP

POLLUTANT(S) All Custom 24-Sep-2022 - 24-Sep-2022 AVG: 30 m

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Dashboard Data Diagnostic Alerts

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Scan Timestamp	NOX (mg/Nm3)	PM (mg/Nm3)	SO2 (mg/Nm3)
24-Sep-2022 23:30:01	6.54	31.42	45.85
24-Sep-2022 23:00:01	4.50	31.67	40.08
24-Sep-2022 22:30:01	5.69	30.74	42.69
24-Sep-2022 22:00:01	4.14	32.20	34.29
24-Sep-2022 21:30:01	6.31	31.62	44.38
24-Sep-2022 21:00:01	3.77	32.52	36.23
24-Sep-2022 20:30:01	3.57	31.54	37.36
24-Sep-2022 20:00:01	3.50	31.91	32.00
24-Sep-2022 19:30:01	5.00	32.41	41.43
24-Sep-2022 19:00:01	5.85	31.91	46.38
24-Sep-2022 18:30:01	6.08	31.30	45.08
24-Sep-2022 18:00:01	2.85	32.36	32.54
24-Sep-2022 17:30:01	4.62	31.48	37.38
24-Sep-2022 17:00:01	3.00	32.45	36.42
24-Sep-2022 16:30:01	2.38	31.55	36.08
24-Sep-2022 16:00:01	5.29	31.77	38.71
24-Sep-2022 15:30:01	1.57	32.36	28.50
24-Sep-2022 15:00:01	2.00	32.22	31.62
24-Sep-2022 14:30:01	4.85	31.14	40.15
24-Sep-2022 14:00:01	3.31	31.82	31.77
24-Sep-2022 13:30:01	7.00	31.20	50.25
24-Sep-2022 13:00:01	-	-	-
24-Sep-2022 12:30:01	4.60	31.07	42.60
24-Sep-2022 12:00:01	1.86	32.39	28.71
24-Sep-2022 11:30:01	4.43	32.12	40.43
24-Sep-2022 11:00:01	3.00	32.06	35.92
24-Sep-2022 10:30:01	1.75	32.42	26.50
24-Sep-2022 10:00:01	3.17	31.16	34.67
24-Sep-2022 09:30:01	6.08	31.55	45.23
24-Sep-2022 09:00:01	2.85	32.08	30.38
24-Sep-2022 08:30:01	4.69	31.48	39.00
24-Sep-2022 08:00:01	4.69	31.70	39.15
24-Sep-2022 07:30:01	4.15	32.43	38.00
24-Sep-2022 07:00:01	5.38	31.80	43.00
24-Sep-2022 06:30:01	5.62	31.85	42.46
24-Sep-2022 06:00:01	1.92	31.48	32.00
24-Sep-2022 05:30:01	5.15	31.18	41.85
24-Sep-2022 05:00:01	4.57	31.55	37.43
24-Sep-2022 04:30:01	6.08	31.80	44.62
24-Sep-2022 04:00:01	3.08	31.39	37.54
24-Sep-2022 03:30:01	4.69	31.91	38.92
24-Sep-2022 03:00:01	1.92	31.82	32.77
24-Sep-2022 02:30:01	3.31	31.26	35.23
24-Sep-2022 02:00:01	1.00	31.85	28.00

Scan Timestamp	NOX (mg/Nm3)	PM (mg/Nm3)	SO2 (mg/Nm3)
24-Sep-2022 01:30:01	6.07	31.12	43.50
24-Sep-2022 01:00:01	4.46	31.57	38.38
24-Sep-2022 00:30:01	3.62	31.68	37.69
24-Sep-2022 00:00:01	4.00	31.94	39.21

SHREE BAJRANG Raipur, Chhattisgarh Shree Bajrang Power Ispat

POLLUTANT(S) All Custom 24-Sep-2022 - 24-Sep-2022

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Dashboard Data Alerts

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Scan Timestamp	Dummy	PM (mg/m3)
24-Sep-2022 23:55:01	-10.00	22.69
24-Sep-2022 23:50:01	-10.00	22.91
24-Sep-2022 23:45:01	-10.00	23.00
24-Sep-2022 23:40:01	-10.00	22.98
24-Sep-2022 23:35:01	-10.00	22.74
24-Sep-2022 23:30:01	-10.00	22.56
24-Sep-2022 23:25:01	-10.00	22.83
24-Sep-2022 23:20:01	-10.00	23.28
24-Sep-2022 23:15:01	-10.00	23.47
24-Sep-2022 23:10:01	-10.00	23.15
24-Sep-2022 23:05:01	-10.00	22.80
24-Sep-2022 23:00:01	-10.00	22.32
24-Sep-2022 22:55:01	-10.00	22.14
24-Sep-2022 22:50:01	-10.00	22.13
24-Sep-2022 22:45:01	-10.00	22.33
24-Sep-2022 22:40:01	-10.00	22.51
24-Sep-2022 22:35:01	-10.00	22.62
24-Sep-2022 22:30:01	-10.00	22.93
24-Sep-2022 22:25:01	-10.00	23.43
24-Sep-2022 22:20:01	-10.00	23.87
24-Sep-2022 22:15:01	-10.00	24.02
24-Sep-2022 22:10:01	-10.00	24.08
24-Sep-2022 22:05:01	-10.00	24.20
24-Sep-2022 22:00:01	-10.00	24.38
24-Sep-2022 21:55:01	-10.00	24.46
24-Sep-2022 21:50:01	-10.00	24.56
24-Sep-2022 21:45:01	-10.00	24.58
24-Sep-2022 21:40:01	-10.00	24.42
24-Sep-2022 21:35:01	-10.00	24.45
24-Sep-2022 21:30:01	-10.00	24.56
24-Sep-2022 21:25:01	-10.00	24.37
24-Sep-2022 21:20:01	-10.00	24.11
24-Sep-2022 21:15:01	-10.00	23.78
24-Sep-2022 21:10:01	-10.00	23.43
24-Sep-2022 21:05:01	-10.00	22.98
24-Sep-2022 21:00:01	-10.00	22.41
24-Sep-2022 20:55:01	-10.00	22.07
24-Sep-2022 20:50:01	-10.00	22.18
24-Sep-2022 20:45:01	-10.00	22.29
24-Sep-2022 20:40:01	-10.00	22.43
24-Sep-2022 20:35:01	-10.00	22.66
24-Sep-2022 20:30:01	-10.00	22.96
24-Sep-2022 20:25:01	-10.00	23.35
24-Sep-2022 20:20:01	-10.00	23.71
24-Sep-2022 20:15:01	-10.00	24.00

Scan Timestamp	Dummy	PM (mg/m3)
24-Sep-2022 20:10:01	-10.00	24.02
24-Sep-2022 20:05:01	-10.00	23.92
24-Sep-2022 20:00:01	-10.00	23.78
24-Sep-2022 19:55:01	-10.00	23.59
24-Sep-2022 19:50:01	-10.00	23.45

Ultimate
ENVIROLYTICAL SOLUTIONS

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, **M/S SHRI BAJRANG POWER & ISPAT LTD (TMT DIVISION) KHASRA NO.2/3, VILL: GONDWARA, URLA INDUSTRIAL AREA COMPLEX RAIPUR (C.G.) 493221**	REPORT NO	UES/TR/22-23/02534
	LAB REF NO	UES/22-23/N/07141-07144
	DATE OF SAMPLING	04/04/2022 to 05/04/2022
	DATE OF REPORT	08/04/2022

SAMPLE DETAILS	
CUSTOMER REF. NO. & DATE	SBPIL(GONDWARA)/ENV/22-23/932 DATED: 31.03.2022
MONITORING FOR	NOISE LEVEL MONITORING
SAMPLING LOCATION	INSIDE PLANT (AS DESCRIBED BELOW)
SAMPLE RECEIVED ON	MONITORING AT
SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	MANUFACTURER'S INSTRUCTION
SAMPLE QUANTITY/PACKING	NOT APPLICABLE

TEST REPORT

LOCATION	UNIT	RESULT		LIMIT (INDUSTRIAL ZONE)	
		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
NEAR BOILER AND CHP	dB(A)	64	53	75	70
NEAR BRICK PLANT	dB(A)	72	62		
NEAR POWER PLANT	dB(A)	68	52		
NEAR ADMIN BUILDING	dB(A)	60	58		

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- *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.*

REVIEWED BY

For **ULTIMATE ENVIROLYTICAL SOLUTIONS**

AUTHORIZED SIGNATORY

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

Annexure- III

Rainwater Harvesting Photographs _

Pit-1

Pit -2

Pit -3

Pit -4

Pit -5

Rainwater Harvesting Pits, Gondwara

Ultimate
ENVIROLYTICAL SOLUTIONS

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

Name & Address Of The Customer			
To, **SHRI BAJRANG POWER & ISPAT LTD.** **KHASRA NO. 2/3, VILL: GONDWARA,** **URLA INDUSTRIAL COMPLEX,** **RAIPUR, (C.G.) 493221**	REPORT NO.	UES/TR/22-23/03084	
	LAB REF NO.	UES/22-23/AAQM/08268-8271	
	DATE OF SAMPLING	04/04/2022 to 05/04/2022	
	DATE OF RECEIPT	05/04/2022	
	DATE OF REPORT	08/04/2022	
	DATE OF ANALYSIS	START: 05/04/2022	END:08/04/2022

SAMPLE DETAILS

MONITORING FOR	HYDROCARBON IN AMBIENT AIR QUALITY MONITORING		
SAMPLING LOCATION	NEAR POWER PLANT	LATITUDE	21.29294
		LONGITUDE	81.61916
	NEAR WIRE DRAWING MILL	LATITUDE	21.292594
		LONGITUDE	81.615405
	NEAR ROLLING MILL	LATITUDE	21.292596
		LONGITUDE	81.619106
	NEAR POWER PLANT	LATITUDE	21.292944
		LONGITUDE	81.619162
CUSTOMER REF. NO.	SBPIL(GONDWARA)/ENV/22-23/932 DATED: 31.03.2022		
SAMPLE COLLECTED BY	LABORATORY CHEMIST	DURATION OF SAMPLING	24 HOURS
SAMPLE QUANTITY/PACKING	CARCOAL TUBE	SAMPLING PROCEDURE	AS PER METHOD REFERENCE

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT			
			NEAR ADMIN OFFICE	NEAR WIRE DRAWING MILL	NEAR ROLLING MILL	NEAR POWER PLANT
Polynuclear Aromatic Hydrocarbon						
1	Acenaphthene	ng/m^3	N.D.	N.D.	N.D.	N.D.
2	Acenaphthylene	ng/m^3	N.D.	N.D.	N.D.	N.D.
3	Anthracene	ng/m^3	N.D.	N.D.	N.D.	N.D.
4	Benz{a}entrance	ng/m^3	N.D.	N.D.	N.D.	N.D.
5	Benzo{a}pyrene	ng/m^3	0.04	0.02	0.06	0.03

Ultimate
ENVIROLYTICAL SOLUTIONS

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

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT			
			NEAR ADMIN OFFICE	NEAR WIRE DRAWING MILL	NEAR ROLLING MILL	NEAR POWER PLANT
6	Benzo{g,h,i}perylene	ng/m^3	N.D.	N.D.	N.D.	N.D.
7	Benzo{b}fluoranthene	ng/m^3	N.D.	N.D.	N.D.	N.D.
8	Benzo{k}fluoranthene	ng/m^3	N.D.	N.D.	N.D.	N.D.
9	Chrysene	ng/m^3	N.D.	N.D.	N.D.	N.D.
10	Dibenz{ah}anthracene	ng/m^3	N.D.	N.D.	N.D.	N.D.
11	Fluoranthene	ng/m^3	N.D.	N.D.	N.D.	N.D.
12	Fluorene	ng/m^3	N.D.	N.D.	N.D.	N.D.
13	Indeno{1,2,3-c,d}pyrene	ng/m^3	N.D.	N.D.	N.D.	N.D.
14	Naphthalene	ng/m^3	N.D.	N.D.	N.D.	N.D.
15	Phenanthrene	ng/m^3	N.D.	N.D.	N.D.	N.D.
16	Pyrene	ng/m^3	N.D.	N.D.	N.D.	N.D.

Note: All results are on the basis of 24hour 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 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*

08/04/22
REVIEWED BY

ULTIMATE ENVIROLYTICAL SOLUTIONS HDD-272 PHASE-3 RING ROAD-2 RAIPUR (C.G.)

For ULTIMATE ENVIROLYTICAL SOLUTIONS

08/04/22
AUTHORIZED SIGNATORY

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

Ultimate
ENVIROLYTICAL SOLUTIONS

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

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

Name & Address Of The Customer

To,
SHRI BAJRANG POWER & ISPAT LTD.
VILL: BORJHARA,ULRA-GUMA ROAD,
URLA GROWTH CENTER,
RAIPUR,(C.G.)493221

REPORT NO	UES/TR/22-23/0644	
LAB REF NO	UES/22-23/AAQM/0979	
DATE OF SAMPLING	02/04/2022 to 03/04/2022	
DATE OF RECEIPT	03/04/2022	
DATE OF REPORT	06/04/2022	
DATE OF ANALYSIS	START: 03/04/2022	END: 06/04/2022

SAMPLE DETAILS

MONITORING FOR	AMBIENT AIR QUALITY MONITORING		
SAMPLING LOCATION	NEAR ADMIN OFFICE	LATITUDE	21.310258
		LONGITUDE	81.588542
CUSTOMER REF. NO.	SBPIL(BORJHARA)/ENV./2021-22/2820, DATED:31/03/2022		
SAMPLE COLLECTED BY	LABORATORY CHEMIST		
DURATION OF SAMPLING	24 HOURS		
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 RUBBER BLADDER: 1X1 NO.		

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size lessthan 10 microns (as PM_{10})	$\mu g/m^3$	68	100	IS:5182(Part-23):2017
2	Particulate Matter size less than 2.5 microns (as $PM_{2.5}$)	$\mu g/m^3$	36	60	IS:5182(Part-24):2019
3	Sulphur Dioxide (as SO_2)	$\mu g/m^3$	14	80	IS:5182(Part-2):2017
4	Nitrogen Dioxide (as NO_2)	$\mu g/m^3$	24	80	IS:5182(Part-6):2017
5	Carbon Monoxide (as CO)	mg/m^3	0.9	4.0	IS 5182(Part 10):1999,RA 2003
6	Mercury as Hg	$\mu g/m^3$	N.D.	-	CPCB Guidelines Vol.-I/AAS method
7	Arsenic as As	ng/m^3	N.D.	06	CPCB Guidelines Vol.-I/AAS method
8	Lead as Pb	$\mu g/m^3$	0.07	1.0	CPCB Guidelines Vol.-I/AAS method
9	Chromium as Cr	$\mu g/m^3$	N.D.	-	CPCBGuidelines Vol.-I/AAS Method

Note: All results are on the basis of 24hour sampling.

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

06/04/22

REVIEWED BY

For ULTIMATE ENVIROLYTICAL SOLUTIONS

AUTHORIZED SIGNATORY

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

Ultimate
ENVIROLYTICAL SOLUTIONS

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

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

Name & Address Of The Customer

To,
SHRI BAJRANG POWER & ISPAT LTD.
VILL: BORJHARA,ULRA-GUMA ROAD,
URLA GROWTH CENTER,
RAIPUR,(C.G.)493221

REPORT NO	UES/TR/22-23/0645	
LAB REF NO	UES/22-23/AAQM/0980	
DATE OF SAMPLING	02/04/2022 to 03/04/2022	
DATE OF RECEIPT	03/04/2022	
DATE OF REPORT	06/04/2022	
DATE OF ANALYSIS	START: 03/04/2022	END: 06/04/2022

SAMPLE DETAILS

MONITORING FOR	AMBIENT AIR QUALITY MONITORING		
SAMPLING LOCATION	NEAR MAIN GATE	LATITUDE	21.31203
		LONGITUDE	81.591842
CUSTOMER REF. NO.	SBPIL(BORJHARA)/ENV./2021-22/2820, DATED:31/03/2022		
SAMPLE COLLECTED BY	LABORATORY CHEMIST		
DURATION OF SAMPLING	24 HOURS		
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 RUBBER BLADDER: 1X1 NO.		

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size lessthan 10 microns (as PM_{10})	$\mu g/m^3$	72	100	IS:5182(Part-23):2017
2	Particulate Matter size lessthan 2.5 microns (as $PM_{2.5}$)	$\mu g/m^3$	54	60	IS:5182(Part-24):2019
3	Sulphur Dioxide (as SO_2)	$\mu g/m^3$	25	80	IS:5182(Part-2):2017
4	Nitrogen Dioxide (as NO_2)	$\mu g/m^3$	31	80	IS:5182(Part-6):2017
5	Carbon Monoxide (as CO)	mg/m^3	1.1	4.0	IS 5182(Part 10):1999,RA 2003
6	Mercury as Hg	$\mu g/m^3$	N.D.	-	CPCB Guidelines Vol.-I /AAS method
7	Arsenic as As	ng/m^3	N.D.	06	CPCB Guidelines Vol.-I /AAS method
8	Lead as Pb	$\mu g/m^3$	0.04	1.0	CPCB Guidelines Vol.-I /AAS method
9	Chromium as Cr	$\mu g/m^3$	N.D.	-	CPCB Guidelines Vol.-I /AAS Method

Note: All results are on the basis of 24 hour sampling.

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

06/04/22

REVIEWED BY

ULTIMATE ENVIROLYTICAL SOLUTIONS (P) LTD. KABIR NAGAR RING ROAD NO.2 RAIPUR (C.G.)

For **ULTIMATE ENVIROLYTICAL SOLUTIONS**

AUTHORIZED SIGNATORY

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

Ultimate
ENVIROLYTICAL SOLUTIONS

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

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

Name & Address Of The Customer			
TO, **SHRI BAJRANG POWER & ISPAT LTD.** **VILL: BORJHARA, ULRA-GUMA ROAD,** **URLA GROWTH CENTER, RAIPUR,** **(C.G.)493221**	REPORT NO	UES/TR/22-23/0646	
	LAB REF NO	UES/22-23/AAQM/0981	
	DATE OF SAMPLING	02/04/2022 to 03/04/2022	
	DATE OF RECEIPT	03/04/2022	
	DATE OF REPORT	06/04/2022	
	DATE OF ANALYSIS	START: 03/04/2022	END: 06/04/2022

SAMPLE DETAILS

MONITORING FOR	AMBIENT AIR QUALITY MONITORING		
SAMPLING LOCATION	NEAR ROLLING MILL	LATITUDE	21.311607
		LONGITUDE	81.593498
CUSTOMER REF. NO.	SBPIL(BORJHARA)/ENV./2021-22/2820, DATED:31/03/2022		
SAMPLE COLLECTED BY	LABORATORY CHEMIST		
DURATION OF SAMPLING	24 HOURS		
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 RUBBER BLADDER: 1X1 NO.		

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (as PM_{10})	$\mu g/m^3$	92	100	IS:5182(Part-23):2017
2	Particulate Matter size less than 2.5 microns (as $PM_{2.5}$)	$\mu g/m^3$	47	60	IS:5182(Part-24):2019
3	Sulphur Dioxide (as SO_2)	$\mu g/m^3$	17	80	IS:5182(Part-2):2017
4	Nitrogen Dioxide (as NO_2)	$\mu g/m^3$	23	80	IS:5182(Part-6):2017
5	Carbon Monoxide (as CO)	mg/m^3	0.89	4.0	IS 5182(Part 10):1999,RA 2003
6	Mercury as Hg	$\mu g/m^3$	N.D.	-	CPCB Guidelines Vol.-I /AAS method
7	Arsenic as As	$\mu g/m^3$	N.D.	06	CPCB Guidelines Vol.-I /AAS method
8	Lead as Pb	$\mu g/m^3$	0.10	1.0	CPCB Guidelines Vol.-I /AAS method
9	Chromium as Cr	$\mu g/m^3$	N.D.	-	CPCB Guidelines Vol.-I /AAS Method

Note: All results are on the basis of 24 hour sampling.

REMARKS: RESULTS ARE AS ABOVE

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

06/04/22

REVIEWED BY

ULTIMATE ENVIROLYTICAL SOLUTIONS HDD-272, PHASE-3, KABIR NAGAR, RING ROAD NO.2, RAIPUR (C.G.)

For **ULTIMATE ENVIROLYTICAL SOLUTIONS**

AUTHORIZED SIGNATORY

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

Ultimate
ENVIROLYTICAL SOLUTIONS

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

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

Name & Address Of The Customer			
TO, **SHRI BAJRANG POWER & ISPAT LTD.** **VILL: BORJHARA, ULRA-GUMA ROAD,** **URLA GROWTH CENTER, RAIPUR,** **(C.G.)493221**	REPORT NO	UES/TR/22-23/0647	
	LAB REF NO	UES/s22-23/AAQM/0982	
	DATE OF SAMPLING	02/04/2022 to 03/04/2022	
	DATE OF RECEIPT	03/04/2022	
	DATE OF REPORT	06/04/2022	
	DATE OF ANALYSIS	START: 03/04/2022	END: 06/04/2022

SAMPLE DETAILS			
MONITORING FOR	AMBIENT AIR QUALITY MONITORING		
SAMPLING LOCATION	NEAR FERRO ALLOYS	LATITUDE	21.308702
		LONGITUDE	81.593498
CUSTOMER REF. NO.	SBPIL(BORJHARA)/ENV./2021-22/2820, DATED:31/03/2022		
SAMPLE COLLECTED BY	LABORATORY CHEMIST		
DURATION OF SAMPLING	24 HOURS		
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, RUBBER BLADDER: 1X1 NO.		

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (as PM_{10})	$\mu g/m^3$	94	100	IS:5182(Part-23):2017
2	Particulate Matter size less than 2.5 microns (as $PM_{2.5}$)	$\mu g/m^3$	46	60	IS:5182(Part-24):2019
3	Sulphur Dioxide (as SO_2)	$\mu g/m^3$	24	80	IS:5182(Part-2):2017
4	Nitrogen Dioxide (as NO_2)	$\mu g/m^3$	30	80	IS:5182(Part-6):2017
5	Carbon Monoxide (as CO)	mg/m^3	1.3	4.0	IS 5182(Part 10):1999, RA 2003
6	Mercury as Hg	$\mu g/m^3$	N.D.	-	CPCB Guidelines Vol.-I /AAS method
7	Arsenic as As	ng/m^3	N.D.	06	CPCB Guidelines Vol.-I /AAS method
8	Lead as Pb	$\mu g/m^3$	0.06	1.0	CPCB Guidelines Vol.-I /AAS method
9	Chromium as Cr	$\mu g/m^3$	N.D.	-	CPCB Guidelines Vol.-I /AAS Method

Note: All results are on the basis of 24-hour sampling.

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

06/04/22

REVIEWED BY

ULTIMATE ENVIROLYTICAL SOLUTIONS PHASE-3, KABIR NAGAR RING ROAD NO.2 RAIPUR (C.G.)

For ULTIMATE ENVIROLYTICAL SOLUTIONS

AUTHORIZED SIGNATORY

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

Parameter Report

Shri Bajrang Power & Ispat Limited(Borjhara)

Online Real time data of AAQMS

Generated On	2022-12-30 11:12:15	**Generated By**	vikas.agrawal@goelgroup.co.in
Period	2022-09-28 00:00:00 - 2022-09-29 11:11:00	**Station Type**	CAAQMS
Stations	CAAMS	**Parameters**	CAAQMS PM10,CAAQMS PM2.5,CAAQMS CO,CAAQMS SO2,CAAQMS NOX

S.No.	Time	CAAMS CAAQMS CO (mg/m³)(avg)	CAAMS CAAQMS NOX (ug/m³)(avg)	CAAMS CAAQMS PM10 (ug/m³)(avg)	CAAMS CAAQMS PM2.5 (ug/m³)(avg)	CAAMS CAAQMS SO2 (ug/m³)(avg)
1	2022-09-28 00:00:00:000	0.15	8.36	13.43	6.71	0.58
2	2022-09-28 01:00:00:000	0.16	9.0	13.43	6.71	0.65
3	2022-09-28 02:00:00:000	0.12	9.74	13.43	6.71	0.8
4	2022-09-28 03:00:00:000	0.18	8.6	13.43	6.71	0.88
5	2022-09-28 04:00:00:000	0.12	8.65	13.19	6.71	0.76
6	2022-09-28 05:00:00:000	0.18	8.77	13.43	6.71	0.78
7	2022-09-28 06:00:00:000	0.17	8.86	13.43	6.71	0.78
8	2022-09-28 07:00:00:000	0.19	9.59	13.43	6.71	0.92
9	2022-09-28 08:00:00:000	0.2	8.54	13.43	6.71	0.79
10	2022-09-28 09:00:00:000	0.17	9.53	13.43	6.71	0.83
11	2022-09-28 10:00:00:000	0.15	8.83	13.43	6.71	0.81
12	2022-09-28 11:00:00:000	0.15	9.21	13.43	6.71	0.78
13	2022-09-28 12:00:00:000	0.16	9.22	13.43	6.71	0.62

S.No.	Time	CAAMS CAAQMS CO (mg/m³)(avg)	CAAMS CAAQMS NOX (ug/m³)(avg)	CAAMS CAAQMS PM10 (ug/m³)(avg)	CAAMS CAAQMS PM2.5 (ug/m³)(avg)	CAAMS CAAQMS SO2 (ug/m³)(avg)
14	2022-09-28 13:00:00:000	0.19	8.91	13.43	6.71	0.56
15	2022-09-28 14:00:00:000	0.2	9.64	13.18	6.71	0.67
16	2022-09-28 15:00:00:000	0.12	9.97	13.43	6.71	0.74
17	2022-09-28 16:00:00:000	0.16	10.48	13.43	6.71	0.86
18	2022-09-28 17:00:00:000	0.15	11.08	13.43	6.71	0.66
19	2022-09-28 18:00:00:000	0.17	9.79	13.43	6.71	0.82
20	2022-09-28 19:00:00:000	0.13	9.29	13.43	6.71	0.7
21	2022-09-28 20:00:00:000	0.13	8.97	13.43	6.71	0.74
22	2022-09-28 21:00:00:000	0.12	9.24	13.43	6.71	0.7
23	2022-09-28 22:00:00:000	0.1	9.72	13.43	6.71	0.7
24	2022-09-28 23:00:00:000	0.15	9.95	13.43	6.71	0.83
25	2022-09-29 00:00:00:000	0.15	10.58	13.43	6.71	0.88
26	2022-09-29 01:00:00:000	0.14	9.71	13.43	6.71	0.57
27	2022-09-29 02:00:00:000	0.19	9.9	13.43	6.71	0.69
28	2022-09-29 03:00:00:000	0.14	9.1	13.43	6.71	1.02
29	2022-09-29 04:00:00:000	0.2	8.99	13.43	6.71	0.7
30	2022-09-29 05:00:00:000	0.18	8.23	13.43	6.71	0.73

S.No.	Time	CAAMS CAAQMS CO (mg/m³)(avg)	CAAMS CAAQMS NOX (ug/m³)(avg)	CAAMS CAAQMS PM10 (ug/m³)(avg)	CAAMS CAAQMS PM2.5 (ug/m³)(avg)	CAAMS CAAQMS SO2 (ug/m³)(avg)
31	2022-09-29 06:00:00:000	0.21	8.78	13.43	6.71	0.5
32	2022-09-29 07:00:00:000	0.17	9.01	13.43	6.71	0.62
33	2022-09-29 08:00:00:000	0.18	9.04	13.43	6.71	0.71
34	2022-09-29 09:00:00:000	0.14	9.04	13.43	6.71	0.59
35	2022-09-29 10:00:00:000	0.13	8.8	13.43	6.71	0.48
36	2022-09-29 11:00:00:000	0.15	8.98	13.43	6.71	0.51

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Ruprela
(SINCE 1982)
X-ray & Advanced Diagnostic Centre
(AN ISO Certificated lab - certificate No. UK-RXR-0201)

OPP. TAHSIL OFFICE, BEHIND BAJRANG MANDIR
G.E.ROAD KATCHERY CHOWK RAIPUR
TEL: 0771-2234270
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E-Mail : ruprelahealthcare7@gmail.com

FACILITY AVAILABLE : •NON VASCULAR INTERVENTION •16 SLICE CT SCAN •3D & 4D SONOGRAPHY WITH COLOR DOPPLER •TRANS RECTAL ULTRASOUND •TRANS ANAL ULTRASOUND •FULL LEG SPINE SCANOGRAM •DIGITAL X-RAY WITH IMAGE INTENSIFIER •DIGITAL OPG •DIGITAL MAMOGRAPHY •SONOMAMMOGRAPHY •ELASTOGRAPHY •BMD/DEXA SCAN •ECHOCARDIOGRAPHY •COMPUTERISED ECG •VIDEO DIGITAL EEG •BERA •SPIROMETER •PATHOLOGY •HISTO-PATHOLOGY •CYTOLOGY

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-EMPLOYEMENT & PERIODIC MEDICAL EXAMINATION

Registration No : 012 **Date : 12-07-2022**

Name : JANAK RAM VERMA	Age (Years) : 51	Gender : Male
Nature of Employment :	Employee No. : 100037	
Date of Joining :	Last Medical Date :	
Department : POWER PLANT	Designation : CHP OPERATOR	
No. of Working Year : Previous Working :	Mobile No. :	
ESIC Number :	Aadhar No. :	

1. GENERAL EXAMINATION

HEIGHT : 164 cm	WEIGHT : 52 Kg	BMI : 19.33
CHEST INSPIRATION : 83 cm	EXPIRATION : 90 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 : 81/min Regular	PERIPHERAL PULSE : Felt
BP : 140/71 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 : N/6 LEFT : N/6
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
DR. RAJESH RUPRELA
MBBS, DMRE, FICA (USA), MRSH (LONDON)
Radiologist

RADIOLOGY
DR. HARSHAD RUPRELA
MBBS, DMRD, DNB (MUMBAI)
Radiologist

Ruprela

(SINCE 1982)

X-ray & Advanced Diagnostic Centre

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

OPP. TAHSIL OFFICE, BEHIND BAJRANG MANDIR
G.E.ROAD KATCHERY CHOWK RAIPUR
TEL: 0771-2234270
M: 7470889922
E-Mail : ruprelahealthcare7@gmail.com

FACILITY AVAILABLE : •NON VASCULAR INTERVENTION •16 SLICE CT SCAN •3D & 4D SONOGRAPHY WITH COLOR DOPPLER •TRANS RECTAL ULTRASOUND •TRANS ANAL ULTRASOUND •FULL LEG SPINE SCANOGRAM •DIGITAL X-RAY WITH IMAGE INTENSIFIER •DIGITAL OPG •DIGITAL MAMOGRAPHY •SONOMAMMOGRAPHY •ELASTOGRAPHY •BMD/DEXA SCAN •ECHOCARDIOGRAPHY •COMPUTERISED ECG •VIDEO DIGITAL EEG •BERA •SPIROMETER •PATHOLOGY •HISTO-PATHOLOGY •CYTOLOGY

INVESTIGATION

8. LAB INVESTIGATION :

HEMOGRAM	LIPID PROFILE	HEPATIC PROFILE
HB : 12.7 gm %	Cholesterol : 176.0 mg/dl	Billirubin : (Total) 0.83 mg %
TLC : 8500 cmm	Tryglycaride : 150.0 mg/dl	Billirubin (Direct) : 0.20 mg %
DLC : P 60 L 35 E 01 M 04 B 00	HDL : 50.0 mg/dl	Billirubin (Indirect) : 0.63 mg %
RBC : 4.5 million/cmm	LDL : 93.00 mg/dl	SGOT : 19.0 IU/L
Platelet : 360 lacs/cmm	VLDL : 30.00 mg/dl	SGPT : 31.0 IU/L
ESR : 07 mm/hr	CHO:HDL :	ALK PHOS 106.0 IU/L
Blood Group : O+ RH Type : Positive		
METABOLIC	**OTHER INVESTIGATION**	**URINE EXAMINATION**
B.Sugar (F) : 97.0 mg/dl	Anti HIV 1 & 2 :	Urine Albumin : Nil
B.Sugar (PP): 118.0 mg/dl	HBsAg :	Urine Sugar : Nil
Uric Acid : 4.5 mg/dl	Anti HCV :	Microscopy : Nil
Blood Urea : 26.0 mg/dl	Syphilis :	
SR CREAT : 0.65 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.) : Normal
d. **Others :**

10. PULMONARY FUNCTION TESTS :

	FVC	FEC 1	FEC1/FVC
Predicted			
Measured			
% of Predicted	088	114	116

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
DR. RAJESH RUPRELA
MBBS, DMRE, FICA (USA), MRSH (LONDON)
Radiologist

RADIOLOGY
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MBBS, DMRD, DNB (MUMBAI)
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Ruprela

(SINCE 1982)

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Name : JANAK RAM VERMA | Age / Sex: 51 Y / Male

Report Printed ON At : 12-07-2022 | Sample Received On/ At : 12-07-2022

Consultanct : SHRI BAJRANG POWER & ISPAT LTD. (TMT DIVISION) KH. NO. 2/3, VILL. :GONDWARA, URLA INDUSTRIAL COMPLEX, RAIPUR

Haematology

Parameter	Result	Unit	Normal Range
ABO Group	O+		
Rh Type	Positive		
Total WBC Count	8500	/cumm	4000-11000
Total RBC	4.5	10^6/µl	3.50-5.50
Haemoglobin	12.7	g/dl	12.0-16.5
Platelet Count	360	10^3/µl	150-450
Neutrophils	60	%	40-75
Lymphocytes	35	%	20-40
Eosinophils	01	%	1-6
Monocytes	04	%	1-10
Basophils	00	%	0-1
ESR	07	mm at 1hr	05-20

CHECKED BY

DR. LAVESH RUPRELA
MBBS.MD (Pathology)
(Pathologist)

DR. LAVESH RUPRELA
MBBS. MD. (PATHOLOGY)
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Bio Chemistry

Parameter	Result	Unit	Normal Range
Urea	26.0	mg/dl	15-45
Serum Creatinine	0.85	mg/dl	0.6-1.4
Uric Acid	4.5	mg/dl	3.6-7.0
Bilirubin - Total	0.83	mg/dl	0.1-1.2
Bilirubin - Direct	0.20	mg/dl	0-0.3
Bilirubin - (Indirect)	0.63	mg/dl	0-0.8
SGOT(AST)	19.0	U/L	0-45
SGPT(ALT)	31.0	U/L	0-45
Alkaline Phosphatase(ALP)			
Alkaline Phosphatase(ALP)	106.0	U/L	41-270
Total Cholesterol	176.0	mg/dl	150-200
Triglycerides	150.0	mg/dl	35-170
HDL Cholesterol	50.0	mg/dl	35-70
VDL Cholestero	96.00	mg/dl	Less than 100
LDL Cholestrol	30.00	mg/dl	7-35
Blood Sugar Fasting	97.0	mg/dl	70-110
Blood Sugar	118.0	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	0-1	/hpf	< 5
Epithelial Cels	0-1	/hpf	< 3
Crystals	Absent	-	Absent
Casts	Absent	-	Absent
Bacteria	Absent	-	Absent
Other (Urine)			

CHECKED BY

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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 normally placed.
- Soft tissue and bony cage appear normal.
- Both Hemidiaphragms are well outlined.

IMPRESSION

- Normal Study.

Suggest : Clinical Correlation.

HR

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MBBS,DMRE,FICA(USA), MRSH(London)

DR. HARSHAD RUPRELA
MBBS DMRD DNB (Mumbai)
DR. HARSHAD RUPRELA
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Reg No	: 133984	Date 12/07/2022
Name	: JANAK RAM VERMA 100073 Sex/Age : M/51 Y	
Referred By	: Dr. SHREE BAJRANG POWER ISPAT LTD(TMT DIVISION)	

USG ABDOMEN AND PELVIS

LIVER : Normal in size, shape & echotexture.
No focal or diffuse lesion seen.
IHBRS & CBD are normal in appearance.
Portal vein is normal in size, hepatopetal flow.

GALL BLADDER : Lumen is well distended & echofree. No calculus or sludge is seen.

SPLEEN : Normal in size, shape & echotexture.
No focal lesion seen. splenic vein - normal.

RETROPERITONEUM : Pancreas normal in size and echotexture.
No retroperitoneal / paraaortic lymphadenopathy.
Aorta and IVC normal.

KIDNEYS : Both kidneys appear normal in size, shape & echotexture.
Cortical thickness & corticomedulary differentiation normal.
No calculus and no hydronephrosis.

PROSTATE : Prostate is normal in size.
No median lobe bulge.echotexture normal.
No focal lesion seen.capsule is intact.

URINARY BLADDER : Shows normal uniform wall thickness with smooth inner margin.

IMPRESSION :

- **NO SONOGRAPHIC ABNORMALITY DETECTED IN CURRENT SCAN.**

Suggest- Clinical Correlation.

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RUPRELA XRAY AND ADVANCED DIAGNOSTIC CENTER

COMPANY : BAJRANG POWER TMT

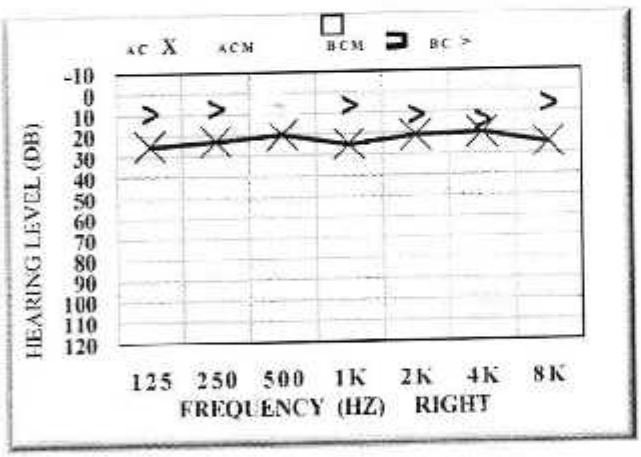
R.D. NO. : 12

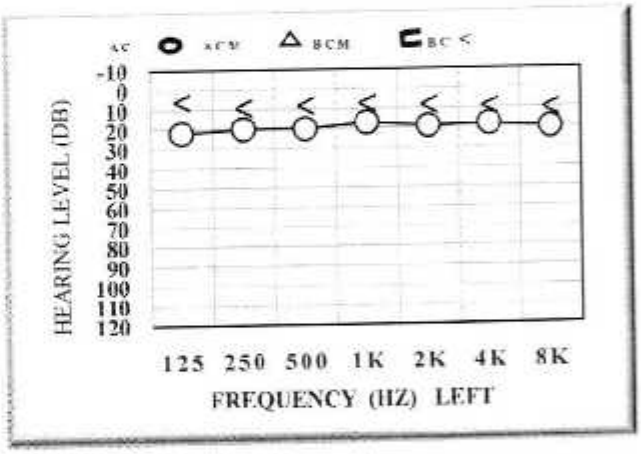
NAME : JANAK RAM VERMA

AGE : 51/M

DATE : 12/07/2022

AUDIOGRAM





MODE / EAR	AIR CONDUCTION MASKED	AIR CONDUCTION UNMASKED	BONE CONDUCTION MASKED	BONE CONDUCTION UNMASKED
LEFT	□	×	⊐	>
RIGHT	△	○	⊏	<

NO RESPONSE : ADD ↓BELOW THE RESPECTIVE SYMBOLS

COLOUR CODE	THRESHHOLD IN dB	RIGHT	LEFT
	AIR CONDUCTION	18	15
BLUE	BONE CONDUCTION		
RED	SPEECH		

REMARK :

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

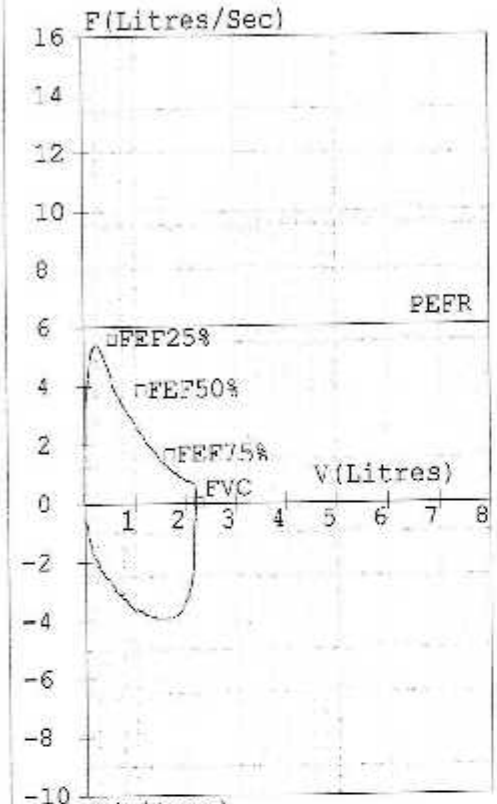
RUPRELA ADVANCED DIAGNOSTIC

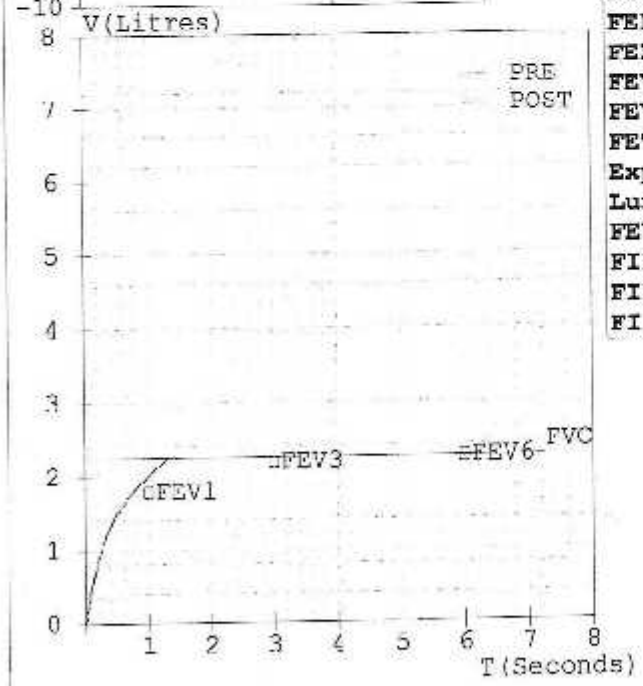
NEAR TAHASIL OFFICE .

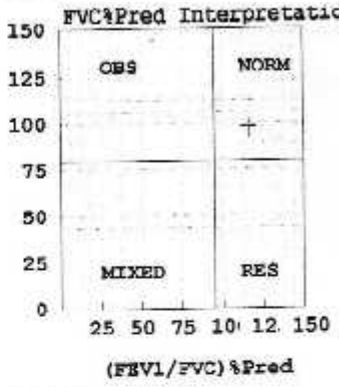
Patient: JANAK RAM VERMA
Refd. By: BAJRANG POWER TMT
Pred.Eqns: RECORDERS
Date : 12-Jul-2022 12:04 PM

Age : 51 Years
Height : 164 Cms
Weight : 52 Kgs
ID: 86467098

Gender : Male
Smoker : No
Eth. Corr: 75
Temp :







Spirometry(FVC Results)

Parameter		Pred	M.Pre	%Pred	M.Post	%Pred	%Imp
FVC	(L)	02.25	02.20	098	-----	---	---
FEV1	(L)	01.77	02.01	114	-----	---	---
FEV1/FVC	(%)	78.67	91.36	116	-----	---	---
FEF25-	(L/s)	02.50	02.16	086	-----	---	---
PEFR	(L/s)	06.03	05.32	088	-----	---	---
FIVC	(L)	-----	02.23	---	-----	---	---
FEV.5	(L)	-----	01.50	---	-----	---	---
FEV3	(L)	02.18	02.20	101	-----	---	---
PIFR	(L/s)	-----	03.92	---	-----	---	---
FEF75-85	(L/s)	-----	00.99	---	-----	---	---
FEF.2-1.2	(L/s)	04.38	03.36	077	-----	---	---
FEF 25%	(L/s)	05.59	04.06	073	-----	---	---
FEF 50%	(L/s)	03.85	02.37	062	-----	---	---
FEF 75%	(L/s)	01.64	01.19	073	-----	---	---
FEV.5/FVC	(%)	-----	68.18	---	-----	---	---
FEV3/FVC	(%)	96.89	100.00	103	-----	---	---
FET	(Sec)	-----	01.28	---	-----	---	---
ExplTim	(Sec)	-----	00.05	---	-----	---	---
Lung Age	(Yrs)	051	044	086	-----	---	---
FEV6	(L)	02.25	-----	---	-----	---	---
FIF25%	(L/s)	-----	03.91	---	-----	---	---
FIF50%	(L/s)	-----	03.64	---	-----	---	---
FIF75%	(L/s)	-----	02.66	---	-----	---	---

BB

Dr. B. B. KUMAR
MBBS, MD, Medicine
Reg. No. WB 52411

Pre Medication Report Indicates
Spirometry within normal limits as (FEV1/FVC)%Pred >95 and FVC%Pred >80.

The contents of this report require cl... al co-relation before any clinic... action.

http://www.rmsindia.com © RMS Spirometer(Helios v3.1.65)

2022-07-12 12:23:46

Name	JANAK RAM	HR	[bpm
Sex	Male Age:51	PQd	[ms
Section	BAJRANG POWER	Pd	[ms
RoomID		QRSd	[ms
BedID		Td	[ms
AccessionNumber		QT/QTc/ JTcF	[ms
Operator		PAx/QRSAx/TAx	[deg
		R(V5)/S(V1)	[mV
		R(V5)+S(V1)	[mV

10 mm/mV 25 mm/s

<< Conclusions >>
Cardiac electric axis normal;
Normal Sinus Rhythm;

Report need physician confirm
physician

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