



**SHRI BAJRANG  
POWER AND ISPAT LTD.**

BELIEF, STRONGER THAN STEEL.

**POWER | STEEL | MINING**

SBPIL/ENV/TMT/25-26/0689

Date: 27/06/2025

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 Oct' 24- Mar' 25.**

Ref: 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 Oct' 24- Mar' 25 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  
(DGM - EHS)

Encl: As above Mentioned.

CC-

1. Regional officer, RO, CECB, New Office Building, Ring Road No.-2, Tatibandh, Dist.- Raipur (C.G.).
2. Member Secretary, Chhattisgarh Environment Conservation Board, Paryavasbhanan, North Block, Sector-19, AtalNagar, Raipur (C.G.).

CIN No. : U27106CT2002PLC015184

Office & Works : Kh. No. 2/3, Vill. Gondwara, Urla Industrial Complex, Raipur 493 221 (C.G.)  
Ph. : +91-771-4288111, Fax : +91-771-4288150, E-mail : info.tmt@goelgroup.co.in, Web. : www.sbpil.co.in  
Regd. Office : Vill. Borjhara, Urla Industrial Area, Raipur 493 221 (C.G.) Ph. : +91-771-4288019 / 29 / 39



**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 31.03.2025
1.	No additional induction furnace shall be installed. The Re-Rolling Mill and CPP shall operate for 300 and 330 days respectively.	<p>Agreed and shall be followed.</p> <p>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 the desired production, hence without an 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 for additions of 2 nos Induction furnace of capacity 6T each from concerned authority i.e. Member Secretary, Head Office, Chhattisgarh Environment Conservation Board, Raipur vide letter Nos. 6317 Dated- 22/03/2016. Now we have <b>granted Permission to Establish" vide letter no. 2137 /TS/CECB/2019 dated 25/06/2019 for replacement of existing induction furnaces (05 induction furnace of 06T capacity each &amp; not installed 01 induction furnace of 06 tonne capacity) for production of Steel Melting Shop Division (M.S. Ingots &amp; Billets capacity of - 1,05,600 Metric Tonnes per Year) by new induction furnaces (03 induction furnace of 12 tonnes capacity each) for production of Steel Melting Shop Division (M.S. Ingots &amp; Billets capacity of - 1,05,600 Metric Tonnes per Year) and for this we have also obtained Consent to operate vide letter no. 7051 /TS/CECB/2024 Nava Raipur Atal Nagar, Raipur, Dated 11/11/2024</b></p>

2.	<p>The gaseous emission from various process units, especially CO and HC shall conform to the load/based standards notified by this Ministry on 19<sup>th</sup> 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.</p>	<p>On-line Continuous Stack gas monitoring system for PM, SO<sub>x</sub>, NO<sub>x</sub> has been installed at the stack of Power plant and necessary arrangements for submission of Online real-time emission data to CPCB website has been made. Interlocking system has been installed between Pollution control equipment and Process operation, to ensure the smooth and regular operation of pollution control equipment.</p> <p><b>Online real-time data attached as Annexure-1</b></p>
3.	<p>Air emissions from AFBC boiler shall be controlled using ESPs to limit the SPM to 50 mg/Nm<sup>3</sup>. 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<sup>3</sup>.</p>	<p>To control and maintain Air emission from AFBC boiler within the prescribed limit i.e. 50 mg/Nm<sup>3</sup>, suitable &amp; effective ESP has been installed and attached with RCC stack of 70 meters height and the emission level is being maintained well within the norms. Rolling Mill stack height is 30 meters and air emission is being maintained well within the latest prescribed norms.</p>
4.	<p>Recuperate shall be installed for heat recovery from the flue gas from the reheating Furnaces.</p>	<p>The recuperate has been installed and is working effectively.</p>
5.	<p>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.</p>	<p>Following arrangements are made to control Fugitive emission:-</p> <ol style="list-style-type: none"> <li>1. Constructed RCC roads are being cleaned by the Mechanical Sweeping Machine on regular basis.</li> <li>2. Intermittent water sprinkling on internal roads and raw Material Yards by our own water tankers for dust suppression.</li> <li>3. Movable Water sprinklers installed at different locations of plant and are being operated intermittently.</li> <li>4. Most of the Belt Conveyors are fully covered with canopy cover.</li> <li>5. Mist water spraying arrangement installed at conveyor belt, transfer points, crusher, loading/unloading area, etc.</li> <li>6. Suitable capacity bag filters are also installed at different locations of plant.</li> </ol>



		<p>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.</p>
6.	<p>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.</p>	<p>Raw materials are being kept at their designated place with proper precautions. Water sprinklers &amp; water spraying arrangements are provided at Raw Material Stock Yard, for control fugitive emissions. Materials are being transported in covered vehicles.</p>
7.	<p>Wind breakers shall be provided to restrict fugitive dust.</p>	<p>Necessary actions like installation &amp; operation of movable water sprinklers at desired locations, developed dense plantation, etc. has been taken for control fugitive dust.</p>
8.	<p>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</p>	<p>In process water is being used only for cooling purposes in recirculating manner. The generated domestic waste water after treatment is being used for slag quenching, gardening and dust suppression. No waste water is being discharged outside the plant; hence zero discharge is being maintained.</p>
9.	<p>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 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.</p>	<p>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, used for internal bypass Road construction or being sold to outside crusher units. 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 and it is stopped since April 2019.</p>
10.	<p>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</p>	<p>Most of the Fly Ash quantity is being used in our own Fly Ash Brick manufacturing plant, balance quantity is</p>

	3.4.2007 of the Ministry of Environment and Forests.	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 by regular maintenance and lubrication of machineries. Personal Protective Equipment like ear plug/Muffs are being provided for noise prone area's employees. <b>Report is attached as Annexure-2</b>
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 being supplied to outside crusher units. <b>Compliance conditions of CREP is enclosed as Annexure 3</b>
14.	Green belt shall be further developed up to an area of 37,000 m <sup>2</sup> .	We have planted around 18500 Nos. (33% plantation inside the plant in 6.105 Hect. i.e. 15200 Nos. and 7% plantation outside the plant in 1.295 Hect. i.e. around 3300 Nos) Species in and around the plant premises. Most of the open space is used for plantation. At Present, 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 roof top Rain Water harvesting system has been constructed at different locations of plant area to recharge the ground water. Photographs of RWH are enclosed as <b>Annexure-4</b>



Sr. No.	GENERAL CONDITIONS:	STATUS AS ON 31.03.2025
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 <sub>2</sub> and NO <sub>x</sub> . 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 the 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. <b>Reports are enclosed as Annexure-5</b>
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 19 <sup>th</sup> May 1993 and 31 <sup>st</sup> 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's 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	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. <b>Form-21 is enclosed as Annexure-6</b>



	years.	
8.	A separate environment management cell with full fledged 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 have been earmarked for the environmental 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 monthly compliance status report and monitoring data along with statistical interpretation shall be submitted to them regularly.	Officer of the Regional Office of Ministry at Bhopal/Chhattisgarh Environment Conservation Board/Central Pollution Control Board are being visiting the plant and monitoring, time to time the implementation of the stipulated conditions. We are regularly submitting 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 <a href="http://envfor.nic.in">http://envfor.nic.in</a> . 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 sent to the Ministry's regional Office, Bhopal (M.P.).

12/1

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. Plant is 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





SHRI BAJRANG POWER &amp; ISPAT LTD\_ TMT

Raipur, Chhattisgarh

Stack-1 CPP

POLLUTANT(S)

All

Custom

03-Mar-2025 - 20-Mar-2025

AVG: 12 hrs

Go

Dashboard

Data

Diagnostic

Alerts

Download

1-36 of 36

« »



Scan Timestamp	NOX (mg/Nm3)	PM (mg/Nm3)	SO2 (mg/Nm3)
20-Mar-2025 22:00:01	101.53	27.97	76.96
20-Mar-2025 10:00:01	87.93	28.31	75.71
19-Mar-2025 22:00:01	77.39	28.33	73.40
19-Mar-2025 10:00:01	83.41	28.33	81.50
18-Mar-2025 22:00:01	73.51	28.23	71.99
18-Mar-2025 10:00:01	76.69	28.34	76.60
17-Mar-2025 22:00:01	82.93	28.34	76.31
17-Mar-2025 10:00:01	69.35	28.22	73.08
16-Mar-2025 22:00:01	80.34	28.39	74.17
16-Mar-2025 10:00:01	75.71	28.26	71.37
15-Mar-2025 22:00:01	74.09	28.31	69.10
15-Mar-2025 10:00:01	85.50	28.22	83.15
14-Mar-2025 22:00:01	64.52	28.29	63.84
14-Mar-2025 10:00:01	62.84	28.15	59.67
13-Mar-2025 22:00:01	65.46	28.33	65.52
13-Mar-2025 10:00:01	67.24	28.30	73.89
12-Mar-2025 22:00:01	74.37	28.27	73.23
12-Mar-2025 10:00:01	83.11	28.26	83.74
11-Mar-2025 22:00:01	76.34	28.22	76.78
11-Mar-2025 10:00:01	74.52	28.29	74.79
10-Mar-2025 22:00:01	74.34	28.33	71.60
10-Mar-2025 10:00:01	78.25	28.26	76.83
09-Mar-2025 22:00:01	69.86	28.25	68.05
09-Mar-2025 10:00:01	82.82	28.25	79.57
08-Mar-2025 22:00:01	77.54	28.33	74.11
08-Mar-2025 10:00:01	71.61	28.36	86.46
07-Mar-2025 22:00:01	58.12	28.34	72.49
07-Mar-2025 10:00:01	62.44	28.27	79.64
06-Mar-2025 22:00:01	68.62	28.22	70.89
06-Mar-2025 10:00:01	80.97	28.15	77.28
05-Mar-2025 22:00:01	64.56	24.37	61.87
05-Mar-2025 10:00:01	69.96	23.61	75.41
04-Mar-2025 22:00:01	57.95	23.23	59.15
04-Mar-2025 10:00:01	69.49	23.52	83.55
03-Mar-2025 22:00:01	61.05	24.31	68.77
03-Mar-2025 10:00:01	63.59	23.49	82.10

Sample Number: VTL/ N/01-04  
 Name & Address of Party: M/s SHRI BAJRANG POWER AND ISPAT LTD.  
 (TMT Division), Khasra No.2/3, Village-  
 Gondwara, Urla Industrial Complex, Raipur,  
 Chhattisgarh, 493221  
 Sample Description: Ambient Noise Level Monitoring  
 Report No.: VTL/N/2411300005-08  
 Format No.: 7.8 F-04  
 Party Reference No.: NIL  
 Report Date: 05/12/2024  
 Receipt Date: 30/11/2024

General Information:-

Sample collected by : VTL Team  
 Instrument Used : Sound Level Meter  
 Instrument Calibration Status : Calibrated  
 Instrument Code : VTL/SLM/01-04  
 Meteorological condition during monitoring : Clear Sky  
 Scope of Monitoring : Regulatory Requirement  
 Sampling & Analysis Protocol : IS 9989-1981 RA: 2020  
 Parameter Required : As per Work Order

S. No.	Location	Date	Test Parameter	Test Result dB (A)	
				Day Time	Night Time
1.	Near Power Plant	26-27/11/2024	Leq	70.2	63.8
2.	Near Brick Plant	26-27/11/2024	Leq	61.5	52.7
3.	Near Admin Building	26-27/11/2024	Leq	60.3	51.4
4.	Near Boiler and CHP	26-27/11/2024	Leq	58.9	48.2

Category of Zones	Leq in dB (A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.  
 2. Night Time is reckoned between 10.00 PM to 6.00 AM.  
 3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.  
 Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply

Checked By



RK Yadav

Lab Incharge  
Authorized Signatory

Approved & Certified

EPA 1986 Recognised, ISO:9001 and OHSAS:45001 Certified

Vibrant Techno Lab Pvt. Ltd.

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**CORPORATE RESPONSIBILITY FOR ENVIRONMENTAL PROTECTION (CREP)  
CONDITIONS AND ITS COMPLIANCE**

S.NO	POSSIBLE EMERGENCY	PREVENTIVE MEASURES
1.	<p><b>COKE OVEN PLANTS</b></p> <p>To meet the parameters PLD (% leaking colors), PLL (% leaking lids), PLO (% leaking off take), of the notified standards under EPA within three years by December 2005). Industry will submit time bound action plan and PER Chart along with the Bank Guarantee for the implementation of the time.</p> <p>To rebuild at least 40% of the coke oven batteries in next 10 years (by December 2012).</p>	Not applicable as there is no coke oven plant
2.	<p><b>STEEL MELTING SHOP</b></p> <p>Fugitive emissions- To reduce 30% by March 2004 and 100% by March 2008 (including installation of secondary de-dusting facilities).</p>	Achieved and being maintained
3.	<p><b>BLAST FURNACE</b></p> <p>Direct inject of reducing agents by June 2013.</p>	Not applicable since there is no blast furnace
4.	<p><b>SOLID WASTE /HAZARDOUS WASTE MANAGEMENT</b></p> <p>Utilization of Steel/ Melting shop (SMS)/ Blast Furnace (BF) Slag as per the following schedule:</p> <p>By 2004 - 70%</p> <p>By 2006 - 80% and</p> <p>By 2007 - 100 %.</p>	SMS slag is being sold to outside slag crusher units and if required is being used for by pass/approach roads construction or Low-lying area filling purposes.
	<p><b>HAZARDOUS WASTES</b></p> <p>Charge of tar sludge/ ETP sludge to Coke Oven by June 2003.</p> <p>Inventorization of the Hazardous waste as per Hazardous Waste (M&amp; H), Rules, 1989 as amended in 2000 and implementation of the Rules by Dec. 2003. (tar sludge, acid sludge, waste lubricating oil and type fuel falls in</p>	Hazardous Waste Management Rules 2016 are being followed for only used oil & Resin.



S.NO	POSSIBLE EMERGENCY	PREVENTIVE MEASURES
	the category of Hazardous waste).	
5.	<b>WATER CONSERVATION/ WATER POLLUTION</b>  To reduce specific water consumption to 5 m <sup>3</sup> /t for long products and 8 m <sup>3</sup> /t for flat products by December 2005.  To operate the Co-BP effluent treatment plant efficiently to achieve the notified effluent discharge standards. - by June 2003.	The plant is based on water consumption of 3.53 m <sup>3</sup> /t
6	Installation of Continuous stacks monitoring system & its calibration in major stacks and setting up of the online ambient air quality monitoring stations by June 2005.	Continuous online stack monitoring system for PM/SO <sub>x</sub> /NO <sub>x</sub> installed on our major stack.
7	To operate the existing pollution control equipment efficiently and to keep proper record of run hours, failure time and efficiency with immediate effect. Compliance report in this regard is submitted to CPCB/SPCB every three months.	We have provided electric meters on all installed pollution control equipment for their running hrs. & Failure time. Compliance report is being submitted to CECB every month and to MoEFCC Regional Office, Raipur
8	To implement the recommendations of Life Cycle Assessment (LCA) study sponsored by MoEF by December 2003.	Being implemented.
9	The industry will initiate the steps to adopt the following clean technologies measures to improve the performance of industry towards production, energy and land environment.	Being implementing
	<ul style="list-style-type: none"> <li>Energy recovery of top Blast Furnace (BF) gas.</li> </ul>	Not Applicable
	<ul style="list-style-type: none"> <li>Use of Tar- free runner linings.</li> </ul>	No tar runner linings are proposed
	<ul style="list-style-type: none"> <li>De- dusting of Cast house at tap holes, runners, skimmers ladle and charging points.</li> </ul>	Dedusting has been provided.
	<ul style="list-style-type: none"> <li>Suppression of fugitive emissions using nitrogen gas or other inert gas</li> </ul>	Fugitive emission is being controlled by installed bag filters, uses of Mist water spray at all transfer points.

S.NO	POSSIBLE EMERGENCY	PREVENTIVE MEASURES
	<ul style="list-style-type: none"> <li>To study the possibility of slag and fly ash transportation back to the abandoned mines, to fill up the cavities through empty railway wagons while they return back to the mines and its implementation.</li> </ul>	Slag and Fly Ash is being used for brick making in our own Fly Ash Brick plant situated at same premises, while slag is being supplied to outsider slag crusher units.
	<ul style="list-style-type: none"> <li>Processing of the waste containing flux &amp; ferrous wastes through waste recycling plant.</li> </ul>	Not applicable to us.
	<ul style="list-style-type: none"> <li>To implement rainwater harvesting</li> </ul>	Rainwater harvesting structures have been constructed at different locations of plant premises.
	<ul style="list-style-type: none"> <li>Reduction Green House Gases by: <ul style="list-style-type: none"> <li>➤ Reduction in power consumption</li> <li>➤ Use of by -products gases for power generation</li> <li>➤ Promotion of Energy Optimization technology including energy/ audit</li> </ul> </li> </ul>	<p>Green houses gases are being reduced by adopting Direct Hot Rolling Technology in Rolling Mill, use of Furnace oil as a Fuel.</p> <p>Implemented the energy efficiency measures and over achieved the energy efficiency target.</p> <p>Not applicable for us.</p> <p>We are conducting self-audit for Energy Optimization.</p>
	<ul style="list-style-type: none"> <li>Up- gradation in the monitoring and analysis facilities for air and water pollution. Also, to impart elaborate training to the manpower so that realistic data is obtained in the environmental monitoring laboratories.</li> </ul>	NABL and MOEF recognized Laboratories are engaged to monitor air and water pollution levels. In house well, equipped Environment Lab is developed with qualified and experienced technical staff.
	<ul style="list-style-type: none"> <li>To improve overall housekeeping and Green belt.</li> </ul>	<p>Greenbelt has been developed to control fugitive dust and Noise.</p> <p>Good housekeeping is being maintained in the plant.</p>



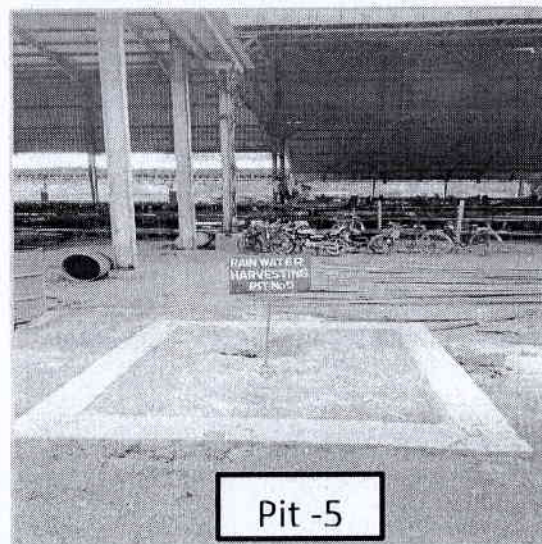
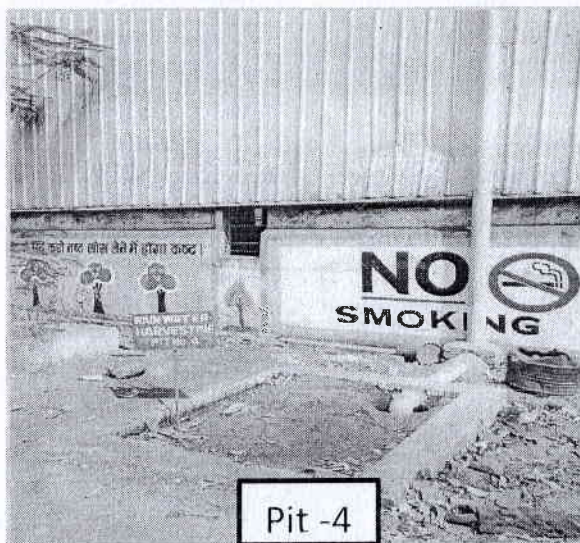
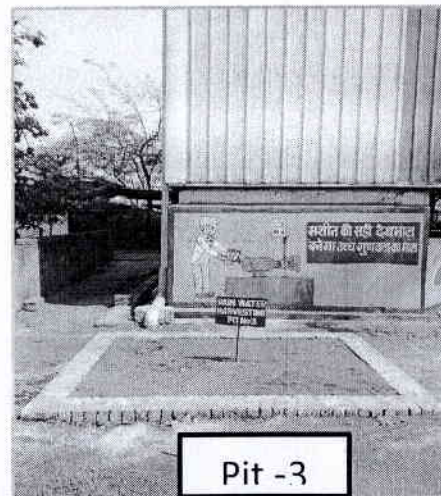


10	<b>SPONGE IRON PLANTS</b>  Inventorisation of sponge iron plants to be completed by SPCBs/CPCE by June 2003 and units will be asked to install proper air pollution control equipment by December 2003 to control primary and secondary emissions. As per rebuilding schedule submitted to CPCB/MoEF.	Not applicable as there is no Sponge Iron Plant
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*10/12*



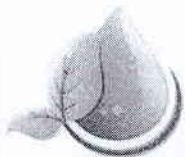
## Rainwater Harvesting Photographs



Rainwater Harvesting Pits, Gondwara

*[Handwritten signature]*



**VIBRANT****TEST REPORT**

Annexure - 5

Sample Number: "Emission free &amp; sustainable"

Name &amp; Address of the Party

VTL/AA/01-04

M/s SHRI BAJRANG POWER AND ISPAT LTD.  
(TMT Division), Khasra No.2/3, Village-  
Gondwara, Urla Industrial Complex, Raipur,  
Chhattisgarh, 493221

Report No.:

VTL/A/2411300005-08

Format No.:

7.8 F 02

Party Reference No.:

NIL

Report Date:

05/12/2024

Period of Analysis:

30/11/2024-05/12/2024

Receipt Date

30/11/2024

Sample Description :

Ambient Air Quality Monitoring

**General Information:-**

Date of Sampling

: 26-27/11/2024

Sample collected by

: VTL Team

Instrument Calibration Status

: Calibrated

Meteorological condition during monitoring

: Clear sky

Surrounding Activity

: Human, Vehicular &amp; Other Activities

Scope of Monitoring

: Regulatory Requirement

Sampling &amp; Analysis Protocol

: IS-5182 &amp; CPCB Guidelines

Latitude

: 21.487669

Longitude

: 81.769348

Sampling Duration

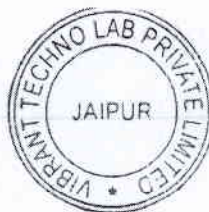
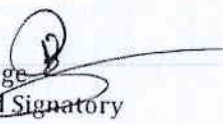
: 24 hrs.

Parameter Required

: As Per Work Order

Sr.	Sampling Location	PM 10 ( $\mu\text{g}/\text{m}^3$ )	PM 2.5 ( $\mu\text{g}/\text{m}^3$ )	NO2 ( $\mu\text{g}/\text{m}^3$ )	SO2 ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )	HC ( $\text{mg}/\text{m}^3$ )
1.	Near Power Plant	82.76	44.18	19.59	10.74	0.61	0.92
2.	Near Rolling Mill	80.96	42.15	21.26	12.35	0.72	0.87
3.	Near Admin Building	65.42	33.91	17.41	9.48	0.59	0.78
4.	Near wire drawing mill	70.29	36.69	18.12	8.96	0.56	0.88
Limit		100	60	80	80	4	--
Protocol		IS:5182 (P-23)2006, RA 2017	IS:5182 (P-24)2019	IS:5182 (P-6)2006	IS:5182 (P-2)2001	IS:5182 (P-10)NDIR	IS:5182 (P-17)

-----End of the Report-----

  
 Checked By

 RK Yadav  
 Lab Incharge  
 Authorized Signatory
 
**Approved & Certified**

EPA 1986 Recognised, ISO:9001 and OHSAS:45001 Certified

**Vibrant Techno Lab Pvt. Ltd.**

SC-40, 3rd Floor, Narayan Vihar S, Ajmer Road, Jaipur Raj. 302020

9929106691, 9810205356, 8005707098, 9549956601

☎ 0141-2954638

✉ bd@vibranttechnolab.com

🌐 www.vibranttechnolab.com

**FORM 21**  
**(Prescribed under Rule(19)1**  
**Health Register**

(In respect person employed in occupations declared to be dangerous operation under section 87)

Name of Worker Mr. Haresh Chandra Age/Sex 38y. 1m  
 Name of Company:- Bayreung Power Employee Code .....  
 Nature of occupation ..... Date - 11/10/2024

**Annexure**  
**PRE-EMPLOYMENT & PERIODIC MEDICAL EXAMINATION**

**(1) GENERAL EXAMINATION:**

Height 160 cm, Weight 50 kg, BMI .....  
 Chest Inspiration 75 cm, Expiration 71 cm  
 Throat (N) Tongue (N) Tonsils (N) Teeth (N)  
 Gums (N) Thyroid (N)  
 Lymph nodes: NO  
 Additional finding: NO

**(2) CARDIO-VASCULAR SYSTEM:**

Pulse: 76 mt. Regular/Irregular Peripheral Pulse-felt/not felt  
 BP 120/80 min of Hg Heart Sound: NORMAL/ABNORMAL....  
 Murmur, if any - NO Additional finding (s), if any NO

**(3) RESPIRATORY SYSTEM:**

Shape of Chest: Tubular Chest movements: Symmetrical  
 Trachea Centrally Breath sound - Vesicular

**(5) GASTRO-INTESTINAL SYSTEM:**

Liver NP Spleen NP  
 Any abdominal lumps: NO/ YES

**(6) EXAMINATION OF EYES :**

External Exam - NORMAL/ABNORMAL Squint: YES/NO  
 Nystagmus: YES/NO Fundus L / R .....  
 Night Blindness YES/NO  
 Colour vision - Normal / Defective  
 Individual colour identification - Normal / Defective

Distance vision (without glasses) Right 6/6 Left 6/6  
 (with glasses) Right ..... Left .....  
 Near-vision (without glasses) Right N/6 Left N/6  
 (with glasses) Right ..... Left .....

**(6) EXAMINATION OF EAR, NOSE & THROAT:**

External Examination: NAD

**(7) GENITO URINARY SYSTEM:**

Hernia - YES/NO Hydrocele - YES/NO Varicocele - YES/NO  
 Cryptorchidism - YES/NO Phimosis - YES/NO Varicose veins - YES/NO  
 Signs of STD YES/NO

**Other Examinations For Females :**

Menarche ..... yr. G. Para ..... Menstrual irregularity ..... if any



INV NS

(8) L ations:

Hae.  
Bloo

B Rh factor Negative Hb 13.7 gm%

RBC  
DLC

4.9 Platelets Count 291 TLC 5500  
64 L 30 E 02 M 64 B 20

Ren

Bloo

25.0 S. Creatinine 0.86

He

-SGOT 32 SGPT 35 Alkaline Phosphate 77 S. Bilirubin

Lipi

Ser

Me

Bloo

154 Triglycerides 115 HDL 47.0 LDL 84.  
110 Blood Sugar PP S. Uric Acid 5.5

Uri

Sto

Nil Sugar Nil Microscopy Nil

(10)

igation

X-I

(In

EC

Ult

.....  
..... (In case of any abnormality x-ray can be done at shorter intervals)  
..... (In case of any abnormality further test should be carried out)  
..... (In normal person once in three years in case of any abnormality can be done at shorter interval)

Otl

(10)

unction Test

	FCV	FEV 1	FEV 1/FVC
PRL	02.08	01.73	83.17
MEA	02.50	02.61	96.40
% OI	120	139	116

Ren

(11)

examination

PT

L. Ear 16.6 Rt. Ear 13.3

Re

BIL Hearing sensitivity

PT

at frequency 150, 250, 500, 1000, 2000, 4000, 8000 Cycles/sec

(12)

amination of canteen staff

(a)

(b)

(c)

(d)

ation for venereal disease and routine blood examination  
examination for worm infection  
skin diseases (scabies and others)  
ner tests for T. B.

specific medical examination carried out as mentioned in the respective schedules of rules 1962-

(date) of  
cal Officer

Dr. Paras Jain  
Signature (with date)  
Certifying surgeon

Apollo Diagnostic Centre  
RAIPUR (C.G.)



FORM 21  
(Prescribed under Rule(19)1  
Health Register

(In respect person employed in occupations declared to be dangerous operation under section 87)

Name of Worker. MR. J. P. K. R. A. M. V. E. R. M. A. Age/Sex. 53 Y/M  
Name of Company:- B. P. J. R. A. N. G. T. M. T. Employee Code .....  
Nature of occupation ..... Date - 11/10/24

Annexure  
PRE-EMPLOYMENT & PERIODIC MEDICAL EXAMINATION

**(1) GENERAL EXAMINATION:**

Height 1.59 cm, Weight 58 kg, BMI .....  
Chest Inspiration 78 cm, Expiration 74 cm  
Throat (N) Tongue (N) Tonsils (N) Teeth (N)  
Gums (N) Thyroid (N)  
Lymph nodes: NO  
Additional finding: NO

**(2) CARDIO-VASCULAR SYSTEM:**

Pulse: 76 mt. Regular/Irregular Peripheral Pulse-felt/not felt  
BP 120/80 min of Hg Heart Sound: NORMAL/ABNORMAL....  
Murmur, if any - NO Additional finding (s), if any NO....

**(3) RESPIRATORY SYSTEM:**

Shape of Chest: Tubular Chest movements: Symmetrical.....  
Trachea Centrally Breath sound - Vesicular.....

**(5) GASTRO-INTESTINAL SYSTEM:**

Liver .....NP..... Spleen .....NP.....  
Any abdominal lumps: NO/YES

**(6) EXAMINATION OF EYES .:**

External Exam NORMAL/ABNORMAL..... Squint: YES/NO.....  
Nystagmus : YES/NO..... Fundus L / R  
Night Blindness YES/NO.....  
Colour vision - Normal / Defective  
Individual colour identification- Normal / Defective  
Distance vision (without glasses) Right 6/6 Left 6/6  
(with glasses) Right ..... Left .....  
Near-vision (without glasses) Right N/6 Left N/6  
(with glasses) Right ..... Left .....

**(6) EXAMINATION OF EAR, NOSE & THROAT:**

External Examination: NAD.....

**(7) GENITO URINARY SYSTEM:**

Hernia - YES/NO..... Hydrocele - YES/NO..... Varicocele - YES/NO.....  
Cryptorchidism- YES/NO..... Phimosis ... YES/NO..... Varicose veins- YES/NO.....  
Signs of STD ... YES/NO.....

**Other Examinations For Females :**

Menarche ..... yr. G. Para ..... Menstrual irregularity ..... if any



## INVESTIGATIONS

### (8) Lab Investigations:

**Haemogram** (0) Rh factor Positive Hb 13.2 gm%  
 Blood Group .....  
 RBC 4.9 Platelets Count 341 TLC 8810  
 DLC :- P 60 L 34 E 01 M 05 B 00

### Renal profile

Blood Urea : 29.0 S. Creatinine : L.O.

**Hepatic profile** - SGOT 23 SGPT 20 Alkaline Phosphate : 82 S. Bilirubin

### Lipid profile :

Serum Cholesterol 161 Triglycerides 135 HDL 39.0 LDL 95

### Metabolic

Blood Sugar F 125 Blood Sugar PP ..... S. Uric Acid 5.7

Urine: Albumin Nil Sugar Nil Microscopy Nil  
 Stool : .....

### (10) Other Investigation

#### X-Ray Chest. PA

(In normal person once in three year), (in case of any abnormality x-ray can be done at shorter intervals)

#### ECG-

(In case of any abnormality further test should be carried out)

#### Ultra Sound-

Whole abdomen (in normal person once in three years in case of any abnormality can be done at shorter interval)

### Other

### (10) Pulmonary Function Test

	FCV	FEV1	FEV1/FVC
PREDICATED	<u>01.90</u>	<u>01.48</u>	<u>77.89</u>
MEASURED	<u>01.73</u>	<u>01.33</u>	<u>76.88</u>
% OF PREDICATED	<u>091</u>	<u>090</u>	<u>099</u>

Remark:

### (11) Audiometry examination

PTA Lt. Ear 18.3 Rt. Ear 21.6  
 Remark Bic ↑ Hearing sensitivity.

PTA of both ears at frequency 150, 250, 500, 1000, 2000, 4000, 8000 Cycles/sec

### (12) Medical examination of canteen staff

- Blood examination for venereal disease and routine blood examination
- Stool and urine examination for worm infection

- Screening for skin diseases (scabies and others)
- X-ray and other tests for T. B.

Details of Other specific medical examination carried out as mentioned in the respective schedule of C.G. Factory rules 1962-

DR MANISH KUMAR SHREY  
 MEDICAL OFFICER  
 SBPIL (TMT) DIS

Signature (with date) of  
 Factory Medical Officer

अध्यक्ष निमित्त पदाधिकारी

अध्यक्ष निमित्त पदाधिकारी  
 अ.प्र. नि. सेवार्थ  
 अ.प्र. नि. सेवार्थ

Signature (with date)  
 Certifying surgeon

Regd. No. 3850  
 Apollo Diagnostic Centre  
 RAIPUR (C.G.)