

बोकारो पावर सप्लाय कम्पनी (प्रा.) लिमिटेड
(सेल एवं डी.वी.सी. का एक संयुक्त उपक्रम)
हॉल सं.-एम-01, पुराना प्रशासनिक भवन,
इस्पताल भवन, बोकारो स्टील सिटी-827001
दूरभाष : 06542-223747 (का. एवं प्र.) 240380 (क्र. एवं सं.)
फैक्स : 06542-247062, 246101 (पावर प्लान्ट)

बोकारो पावर सप्लाय कम्पनी लि
B P S C L

CIN : U40300DL2001PTC112074

Bokaro Power Supply Company (P) Ltd.
(A Joint Venture of SAIL & DVC)
Hall No. M-01, Old ADM Building,
Ispat Bhawan, Bokaro Steel City - 827001
Tel : 06542-223747 (P&A), 240380 (P&C)
Fax : 06542-247062, 246101 (Power Plant)

No. BPSCL/PP/ENV/06/5725



Date: 09.06.22


To
The Board Analyst
Jharkhand State Pollution Control Board,
T.A. Division Building (Ground Floor), H.E.C.
Dhurwa, Ranchi - 834004

Sub: CREP- COMPLIANCE REPORT
Ref: Your letter no. L-1895 dt. 23.09.10

Dear Sir,
Enclosed please find herewith the compliance report of CREP for the year 2021-22.

Thanking you.

Yours faithfully


24.06.2022

(A.K Das)
CGM (MM,CED&ENV)

Encl.: As stated.

1. Ministry of Environment Forest and Climate Change, Regional Office, Bungalow No. A-2, Shyamli Colony, Ranchi - 834002
2. The Regional Officer, Jharkhand State Pollution Control Board, Housing Colony, HIG - 1, Bartand, Dhanbad - 826001; Jharkhand

3/ O/c

From: Sri. V Agarwal, Chief General Manager I/C (PP) Bokaro Power Supply Co. (P) Ltd. B. S. City	To: The Member Secretary, Jharkhand State Pollution Control Board, T.A. Division Building (Ground Floor), H.E.C. Dhurwa, Ranchi - 834004
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**CORPORATE RESPONSIBILITY FOR ENVIRONMENT PROTECTION
(CREP) OF POWER PLANT/BOKARO POWER SUPPLY CO. (P) LTD.**

CREP ACTION POINTS	STATUS OF COMPLIANCE
STACK EMISSION	a) All Boilers in Power Plant are provided with Electrostatic Precipitators (ESPs) to restrict Stack Emission. b) Stack Emission parameters related to all Boilers are maintained within the prescribed limit of 100 PPM for old Boilers and 50 PPM for New Boiler (Unit #9 only). c) Round the clock surveillance, Monitoring & maintenance of ESPs are done to maintain the prescribed norms. d) Installation of online Sox, NOx analyzer is already done in four boilers. Procurement of Sox, NOx analyzer for remaining four boilers along with commissioning of real time data transfer to JSPCB & CPCB is in pipeline. e) Online stack emission monitoring system has been installed and working successfully. Monitoring is being done by Yokogawa System and parameter is being display in CPCB & JSPCB.
SOLID WASTE / HAZARDOUS WASTE	a) Fly ash along with bottom ash is being sent to ash pond and presently used in road construction activities/back filling of low laying areas. b) Silos are in place for boiler 6,7,8 and 9 for collecting dry fly ash. c) 15 KL of Burnt industrial oil have been auctioned to recycler M/s Balajee Refining Industries in 2021 through e-auction by M/s MSTC. Another 40 KL of Burnt Transformer oil is in stock has been already auctioned and is awaiting to be lifted by the recycle agency. d) Metallic Scrap are being sent to BSL for re-use. e) Batteries are being disposed of to recycle through the buyback arrangement while procurement of new batteries. f) Used conveyer belts, motors, cables etc are e-auctioned through M/s MSTC to vendors for recycling. g) E -waste is in the process of being e-auctioned through M/s MSTC to vendors for recycling.

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UTILIZATION OF DRY FLY
ASH/POND ASH

a) Utilisation of Pond Ash for Road Construction

- We have signed MoU with NHAI for utilization of pond ash for their road construction activities in dhanbad division.
- In Last financial year approx.. 7053 cum of Ash has been utilized by NHAI, Dhanbad in NH#2 road construction

b) Utilisation of Pond Ash for low lying areas/embankment

- A quantity of 80,000 cum ash has been filled for construction of hazardous waste pit of BSL.
- Approx. 4,52,680 cum of ash has been used in filling up of low lying areas in and around our ash pond and plant premises.

c) **DRY ASH COLLECTION SYSTEM**

- The dry ash collection system exists and in working condition for CPP Boilers and unit # 9.
- We have been supplying fly ash from silo to M/s. Dalmia Cement as per their requirement.
- In last year 3078 MT of ash has been lifted by local brick manufacturers from our silos.
- Necessary arrangements are being done for utilization of bricks in the plant via circulars both in BPSCL and BSL stating, "only ash bricks is to be used for all construction activities.
- Dry fly ash is being used for in house production of fly ash bricks for internal use.
- One semi- automatic (capacity 8000 to 10000 per shift) and one Manual machine (capacity 2500 to 3000 per shift) have been commissioned for in-house brick manufacturing.
- Last year 25,462 bricks have been manufactured in house for internal consumption and for supply to BSL.
- Two nos of Fly Ash Bagging Machine have been commissioned for bagging of fly ash and transportation to end users by railway wagons.
- 330 mtr. long platform has been erected at railway siding to facilitate easy loading of ash bags into the wagons.
- Agreement has been signed with M/S Orient Exports Pvt. Ltd. for bagging and transportation of Ash by railway wagons. Bagging work is under progress. 10566 cum of Ash has been sent

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	<p>through rail mode to darshana, Bangladesh. A target of transportation of fly ash bags @ 01-02 rake per month has been kept.</p> <p>Detailed Utilization report year wise attached.</p>
<p>WATER CONSERVATION/WATER POLLUTION</p>	<p>a) Industrial water consumption is 6607cum/day, which is recycled and sent back to BSL network.</p> <p>b) Water sent along with ash slurry to ash pond which after after settlement of suspended solids is reused . A <i>water flow diagram is attached.</i></p> <p>c) On-line Effluent Monitoring System has been installed and working successfully. Real time data transmission is being done through NEVCO server to JSPCB & CPCB. The parameters being monitored are PH, COD, BOD and TSS.</p> <p>d) Zero liquid discharge system in outfall of BSL commonly used by BPSCL also is installed and no industrial effluent is discharged to outside water body.</p>
<p>RAIN WATER CONSERVATION/ HARVESTING MANAGEMENT</p>	<p>a) The existing power plant has a well-designed storm drainage system.</p> <p>b) Storm Water/ Rain water drains are connected to BSL network and discharges the same to cooling pond of Bokaro Steel Plant through Zero liquid discharge.</p> <p>c) The cooling pond also acts as the raw water reservoir</p> <p>d) The water collected in the cooling pond also recharges the ground water table.</p> <p>e) Installation of Rain Water Harvesting for individual buildings is under progress</p>
<p>CONSERVATION OF ENVIRONMENT</p>	<p>a) Trees were planted in and around the plant area during last year.</p> <p>b) 50 kg of grass seed (Estilo Hamata) planted in ash pond area for environment protection. Additionally, samplings of Kadam and bamboo trees are planted to develop the greenery. Regular plantation in and around peripheral areas will be carried out.</p> <p>c) Bio-stabilization of ash dumps with use of Jute geo textile, coconut coir logs, and vetiver grass are being carried out to develop green belt.</p> <p>d) Power Plant is committed to maintain an eco friendly environment. We have developed the eco-friendly garden in plant. It is a continuous process and plant is adhering to this principle.</p>
<p>GREEN PROJECT MISSION</p>	<p>a) BPSCL has installed 100 KW of solar Power on the roof-top of its office buildings for clean energy production.</p> <p>b) BPSCL has also installed 02 MW of solar Power project on rooftops of different BSL buildings like Administrative building, Bokaro general hospital etc.</p>

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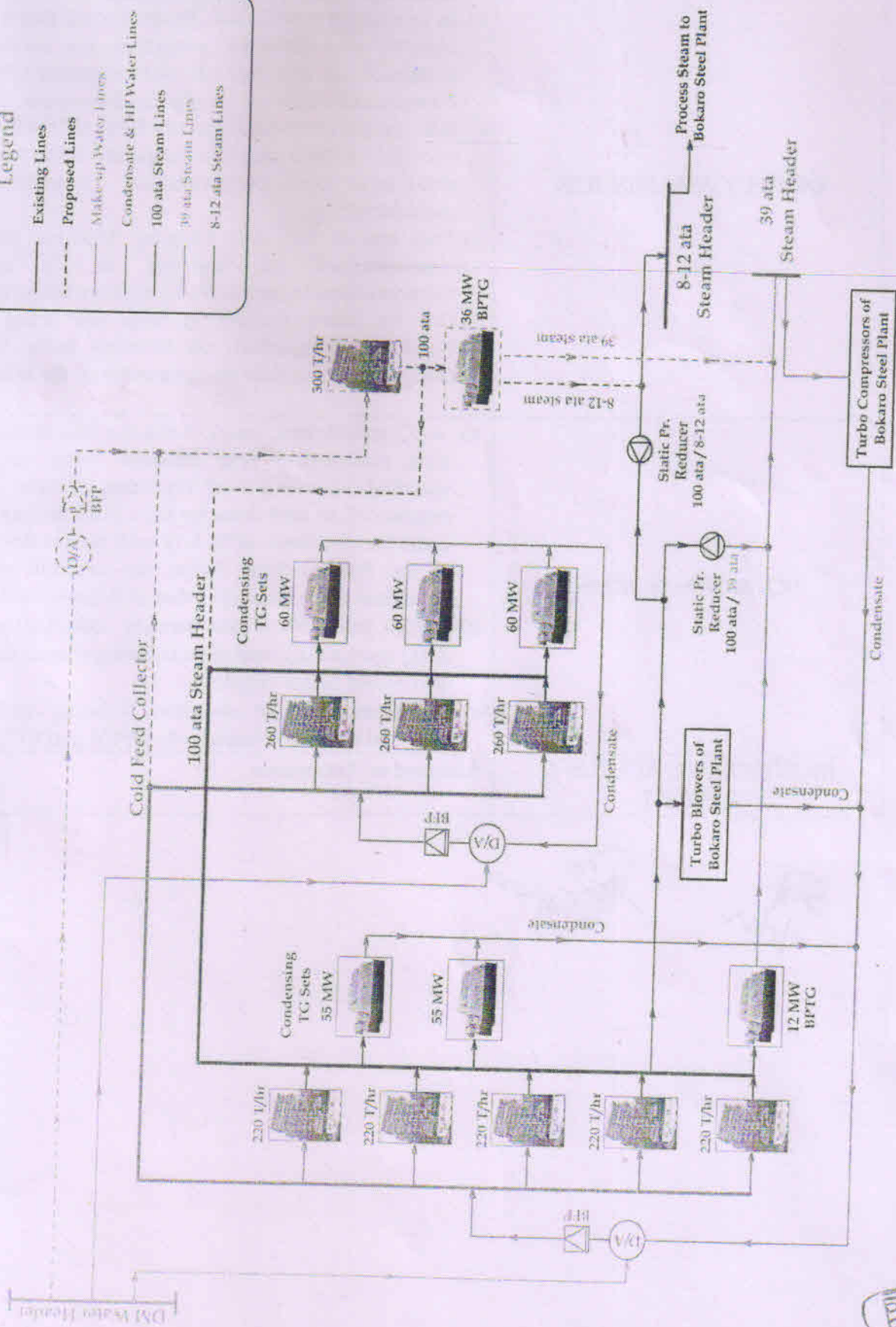
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<p>DRY FLY ASH MISSION</p>	<p>a) A conference for Fly Ash Utilization and disposal has been organized by BPSCL at Bokaro Steel City.</p> <p>b) In consultation with BSL Environment Deptt., we are carrying out different programs for awareness of utilization of dry fly ash. Advertisement by Poster News paper and local TV channels are done.</p> <p>c) One semi- automatic (capacity 8000 to 10000 per shift) and one Manual machine (capacity 2500 to 3000 per shift) have been commissioned for in-house brick manufacturing</p> <p>d) Two nos of Fly Ash Bagging Machine have been commissioned for bagging of fly ash and transportation to end users by railway wagons.</p> <p>e) Dry fly ashes packed in bags are being sent to Darshana, Bangladesh on monthly basis. Steps are being take to increase the frequency of the rakes.</p>
<p>SO_x & NO_x NORMS</p>	<p>a) AAQ monitoring, stack emission monitoring, Noise level monitoring and Effluent water analysis at specified frequency with reporting of data" has been outsourced to and done by M/s Pollution and Project Consultants. Since BPSCL is well within the premises of the Bokaro Steel Plant, the ambient quality is presumed to be similar to that of Bokaro Steel Plant.</p> <p>b) Bokaro Steel Plant has already installed an online AAQ monitoring and data is being shared for BPSCL also as and when required.</p> <p>c) Monitoring of dust emission, is being done on-line with real time data transfer to JSPCB and CPCB.</p>
<p>MONITORING STATUS & REPORT</p>	<p>Attached as Annexures.</p>

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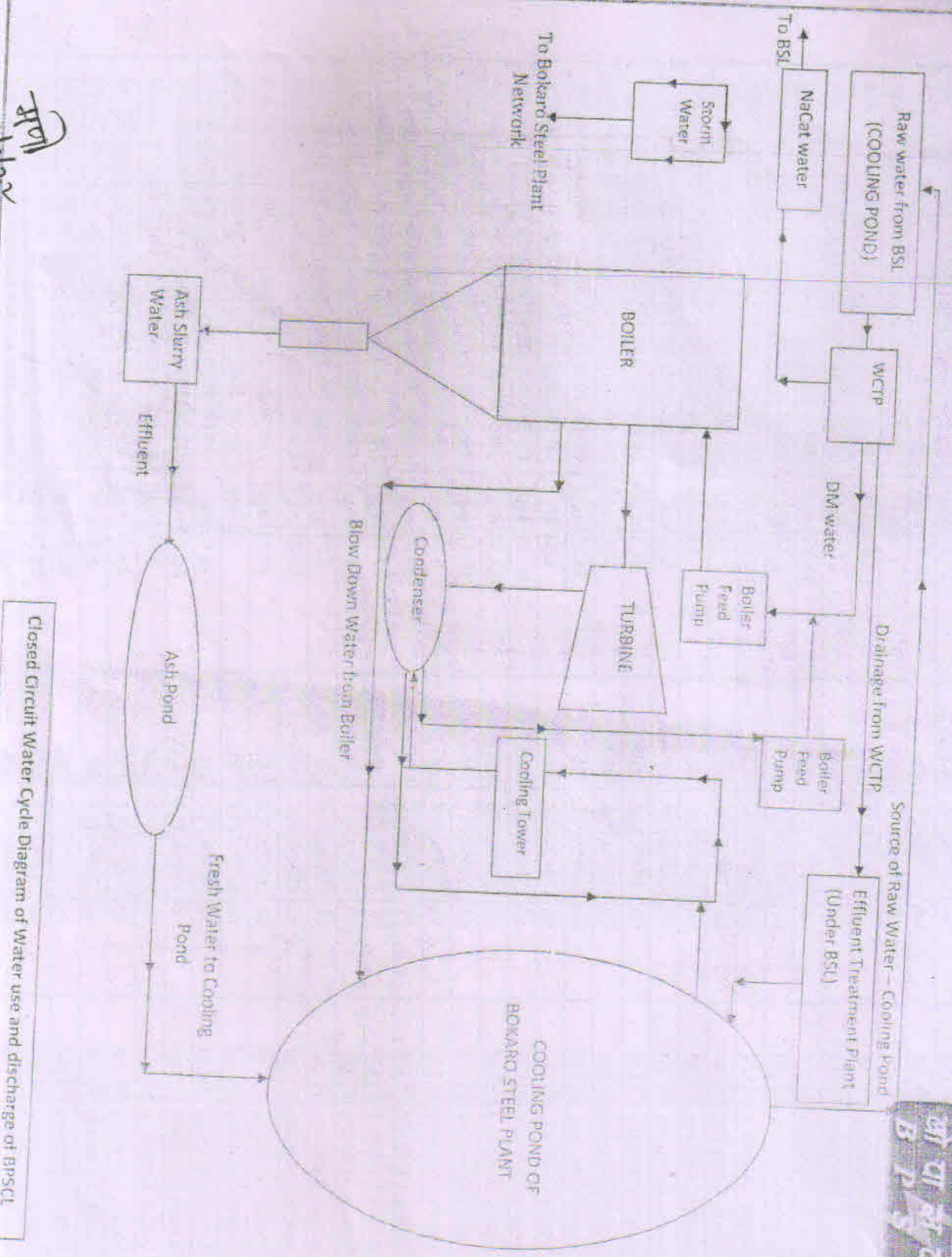
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WATER FLOW CHART



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Note

अपना
अक्षर



Closed Circuit Water Cycle Diagram of Water use and discharge of BPSCL

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Sl. No.	Company Name	Parameter	Unit	Submitted Date	Timestamp of Analyser
1	Bokaro Power Supply Company (P) Ltd	66 15BPSCLPT	TSS	09-06-2022 10:02	2022-06-09:09:45:00.AM
2	Bokaro Power Supply Company (P) Ltd	66 15BPSCLPLP	pH	09-06-2022 10:02	2022-06-09:09:45:00.AM
3	Bokaro Power Supply Company (P) Ltd	66 15BPSCLPLC	COD	09-06-2022 10:02	2022-06-09:09:45:00.AM
4	Bokaro Power Supply Company (P) Ltd	66 15BPSCLPLB	BOD	09-06-2022 10:02	2022-06-09:09:45:00.AM
5	Bokaro Power Supply Company (P) Ltd	66 15BPSCLPT	TSS	09-06-2022 09:47	2022-06-09:09:30:00.AM
6	Bokaro Power Supply Company (P) Ltd	66 15BPSCLPLP	pH	09-06-2022 09:47	2022-06-09:09:30:00.AM
7	Bokaro Power Supply Company (P) Ltd	66 15BPSCLPLC	COD	09-06-2022 09:47	2022-06-09:09:30:00.AM
8	Bokaro Power Supply Company (P) Ltd	66 15BPSCLPLB	BOD	09-06-2022 09:47	2022-06-09:09:30:00.AM
9	Bokaro Power Supply Company (P) Ltd	66 15BPSCLPT	TSS	09-06-2022 09:32	2022-06-09:09:15:00.AM
10	Bokaro Power Supply Company (P) Ltd	66 15BPSCLPLP	pH	09-06-2022 09:32	2022-06-09:09:15:00.AM
11	Bokaro Power Supply Company (P) Ltd	66 15BPSCLPLC	COD	09-06-2022 09:31	2022-06-09:09:15:00.AM
12	Bokaro Power Supply Company (P) Ltd	66 15BPSCLPLB	BOD	09-06-2022 09:17	2022-06-09:09:00:00.AM
13	Bokaro Power Supply Company (P) Ltd	66 15BPSCLPT	TSS	09-06-2022 09:17	2022-06-09:09:00:00.AM
14	Bokaro Power Supply Company (P) Ltd	66 15BPSCLPLP	pH	09-06-2022 09:17	2022-06-09:09:00:00.AM
15	Bokaro Power Supply Company (P) Ltd	66 15BPSCLPLC	COD	09-06-2022 09:17	2022-06-09:09:00:00.AM
16	Bokaro Power Supply Company (P) Ltd	66 15BPSCLPLB	BOD	09-06-2022 09:17	2022-06-09:09:00:00.AM
17	Bokaro Power Supply Company (P) Ltd	66 15BPSCLPT	TSS	09-06-2022 09:02	2022-06-09:08:45:00.AM
18	Bokaro Power Supply Company (P) Ltd	66 15BPSCLPLP	pH	09-06-2022 09:02	2022-06-09:08:45:00.AM
19	Bokaro Power Supply Company (P) Ltd	66 15BPSCLPLC	COD	09-06-2022 09:02	2022-06-09:08:45:00.AM
20	Bokaro Power Supply Company (P) Ltd	66 15BPSCLPLB	BOD	09-06-2022 09:02	2022-06-09:08:45:00.AM
21	Bokaro Power Supply Company (P) Ltd	66 15BPSCLPT	TSS	09-06-2022 08:47	2022-06-09:08:30:00.AM
22	Bokaro Power Supply Company (P) Ltd	66 15BPSCLPLP	pH	09-06-2022 08:47	2022-06-09:08:30:00.AM
23	Bokaro Power Supply Company (P) Ltd	66 15BPSCLPLC	COD	09-06-2022 08:47	2022-06-09:08:30:00.AM
24	Bokaro Power Supply Company (P) Ltd	66 15BPSCLPLB	BOD	09-06-2022 08:47	2022-06-09:08:30:00.AM
25	Bokaro Power Supply Company (P) Ltd	66 15BPSCLPT	TSS	09-06-2022 08:32	2022-06-09:08:15:00.AM
26	Bokaro Power Supply Company (P) Ltd	66 15BPSCLPLP	pH	09-06-2022 08:32	2022-06-09:08:15:00.AM
27	Bokaro Power Supply Company (P) Ltd	66 15BPSCLPLC	COD	09-06-2022 08:32	2022-06-09:08:15:00.AM
28	Bokaro Power Supply Company (P) Ltd	66 15BPSCLPLB	BOD	09-06-2022 08:32	2022-06-09:08:15:00.AM
29	Bokaro Power Supply Company (P) Ltd	66 15BPSCLPT	TSS	09-06-2022 08:17	2022-06-09:08:00:00.AM
30	Bokaro Power Supply Company (P) Ltd	66 15BPSCLPLP	pH	09-06-2022 08:17	2022-06-09:08:00:00.AM
31	Bokaro Power Supply Company (P) Ltd	66 15BPSCLPLC	COD	09-06-2022 08:17	2022-06-09:08:00:00.AM
32	Bokaro Power Supply Company (P) Ltd	66 15BPSCLPLB	BOD	09-06-2022 08:17	2022-06-09:08:00:00.AM
33	Bokaro Power Supply Company (P) Ltd	66 15BPSCLPT	TSS	09-06-2022 08:02	2022-06-09:07:45:00.AM
34	Bokaro Power Supply Company (P) Ltd	66 15BPSCLPLP	pH	09-06-2022 08:02	2022-06-09:07:45:00.AM
35	Bokaro Power Supply Company (P) Ltd	66 15BPSCLPLC	COD	09-06-2022 08:02	2022-06-09:07:45:00.AM
36	Bokaro Power Supply Company (P) Ltd	66 15BPSCLPLB	BOD	09-06-2022 08:02	2022-06-09:07:45:00.AM
37	Bokaro Power Supply Company (P) Ltd	66 15BPSCLPT	TSS	09-06-2022 07:47	2022-06-09:07:30:00.AM
38	Bokaro Power Supply Company (P) Ltd	66 15BPSCLPLP	pH	09-06-2022 07:47	2022-06-09:07:30:00.AM
39	Bokaro Power Supply Company (P) Ltd	66 15BPSCLPLC	COD	09-06-2022 07:47	2022-06-09:07:30:00.AM

80	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLB	BOD	27.7	mg/l	09-06-2022 05:17	2022-06-09:05:00:00 AM
81	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLT	TSS	19.27	mg/l	09-06-2022 05:02	2022-06-09:04:45:00 AM
82	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLP	pH	6.81	pH	09-06-2022 05:02	2022-06-09:04:45:00 AM
83	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLC	COD	61.5	mg/l	09-06-2022 05:02	2022-06-09:04:45:00 AM
84	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLB	BOD	27.8	mg/l	09-06-2022 05:02	2022-06-09:04:45:00 AM
85	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLT	TSS	19.83	mg/l	09-06-2022 04:47	2022-06-09:04:30:00 AM
86	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLP	pH	6.85	pH	09-06-2022 04:47	2022-06-09:04:30:00 AM
87	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLC	COD	61.6	mg/l	09-06-2022 04:47	2022-06-09:04:30:00 AM
88	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLB	BOD	27.93	mg/l	09-06-2022 04:47	2022-06-09:04:30:00 AM
89	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLT	TSS	19.1	mg/l	09-06-2022 04:32	2022-06-09:04:15:00 AM
90	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLP	pH	6.92	pH	09-06-2022 04:32	2022-06-09:04:15:00 AM
91	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLC	COD	61.43	mg/l	09-06-2022 04:32	2022-06-09:04:15:00 AM
92	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLB	BOD	27.77	mg/l	09-06-2022 04:32	2022-06-09:04:15:00 AM
93	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLT	TSS	19.8	mg/l	09-06-2022 04:17	2022-06-09:04:00:00 AM
94	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLP	pH	6.98	pH	09-06-2022 04:17	2022-06-09:04:00:00 AM
95	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLC	COD	61.83	mg/l	09-06-2022 04:17	2022-06-09:04:00:00 AM
96	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLB	BOD	28.03	mg/l	09-06-2022 04:17	2022-06-09:04:00:00 AM
97	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLT	TSS	21.13	mg/l	09-06-2022 04:02	2022-06-09:03:45:00 AM
98	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLP	pH	7.09	pH	09-06-2022 04:02	2022-06-09:03:45:00 AM
99	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLC	COD	62.33	mg/l	09-06-2022 04:02	2022-06-09:03:45:00 AM
100	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLB	BOD	28.4	mg/l	09-06-2022 04:02	2022-06-09:03:45:00 AM
101	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLP	pH	7.26	pH	09-06-2022 03:50	2022-06-09:03:30:00 AM
102	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLC	COD	62.2	mg/l	09-06-2022 03:49	2022-06-09:03:30:00 AM
103	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLB	BOD	28.3	mg/l	09-06-2022 03:49	2022-06-09:03:30:00 AM
104	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLT	TSS	18.6	mg/l	09-06-2022 03:32	2022-06-09:03:15:00 AM
105	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLP	pH	7.45	pH	09-06-2022 03:32	2022-06-09:03:15:00 AM
106	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLC	COD	61.23	mg/l	09-06-2022 03:32	2022-06-09:03:15:00 AM
107	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLB	BOD	27.63	mg/l	09-06-2022 03:32	2022-06-09:03:15:00 AM
108	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLT	TSS	17.67	mg/l	09-06-2022 03:17	2022-06-09:03:00:00 AM
109	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLP	pH	7.34	pH	09-06-2022 03:17	2022-06-09:03:00:00 AM
110	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLC	COD	60.8	mg/l	09-06-2022 03:17	2022-06-09:03:00:00 AM
111	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLB	BOD	27.33	mg/l	09-06-2022 03:17	2022-06-09:03:00:00 AM
112	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLC	COD	60.73	mg/l	09-06-2022 03:04	2022-06-09:02:45:00 AM
113	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLB	BOD	27.3	mg/l	09-06-2022 03:03	2022-06-09:02:45:00 AM
114	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLT	TSS	18.37	mg/l	09-06-2022 02:48	2022-06-09:02:30:00 AM
115	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLP	pH	7.26	pH	09-06-2022 02:47	2022-06-09:02:30:00 AM
116	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLC	COD	60.97	mg/l	09-06-2022 02:47	2022-06-09:02:30:00 AM
117	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLB	BOD	27.45	mg/l	09-06-2022 02:47	2022-06-09:02:30:00 AM
118	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLT	TSS	18.87	mg/l	09-06-2022 02:32	2022-06-09:02:15:00 AM
119	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLP	pH	7.26	pH	09-06-2022 02:32	2022-06-09:02:15:00 AM

121	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLB	COD	61.17	mg/l	09-06-2022 02:32	2022-06-09:02:15:00:AM
121	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLB	BOD	27.57	mg/l	09-06-2022 02:32	2022-06-09:02:15:00:AM
122	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLT	TSS	18.53	mg/l	09-06-2022 02:17	2022-06-09:02:00:00:AM
123	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLP	pH	7.2	pH	09-06-2022 02:17	2022-06-09:02:00:00:AM
124	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLC	COD	61.2	mg/l	09-06-2022 02:17	2022-06-09:02:00:00:AM
125	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLB	BOD	27.63	mg/l	09-06-2022 02:17	2022-06-09:02:00:00:AM
126	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLT	TSS	18.83	mg/l	09-06-2022 02:02	2022-06-09:01:45:00:AM
127	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLP	pH	7.21	pH	09-06-2022 02:02	2022-06-09:01:45:00:AM
128	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLC	COD	61.27	mg/l	09-06-2022 02:02	2022-06-09:01:45:00:AM
129	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLB	BOD	27.63	mg/l	09-06-2022 02:02	2022-06-09:01:45:00:AM
130	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLT	TSS	19.37	mg/l	09-06-2022 01:47	2022-06-09:01:30:00:AM
131	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLP	pH	7.21	pH	09-06-2022 01:47	2022-06-09:01:30:00:AM
132	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLC	COD	61.4	mg/l	09-06-2022 01:47	2022-06-09:01:30:00:AM
133	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLB	BOD	27.73	mg/l	09-06-2022 01:47	2022-06-09:01:30:00:AM
134	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLT	TSS	18.03	mg/l	09-06-2022 01:32	2022-06-09:01:15:00:AM
135	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLP	pH	7.21	pH	09-06-2022 01:32	2022-06-09:01:15:00:AM
136	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLC	COD	60.97	mg/l	09-06-2022 01:32	2022-06-09:01:15:00:AM
137	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLB	BOD	27.43	mg/l	09-06-2022 01:32	2022-06-09:01:15:00:AM
138	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLT	TSS	18.53	mg/l	09-06-2022 01:17	2022-06-09:01:00:00:AM
139	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLP	pH	7.21	pH	09-06-2022 01:17	2022-06-09:01:00:00:AM
140	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLC	COD	61.13	mg/l	09-06-2022 01:17	2022-06-09:01:00:00:AM
141	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLB	BOD	27.57	mg/l	09-06-2022 01:17	2022-06-09:01:00:00:AM
142	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLT	TSS	18.8	mg/l	09-06-2022 01:03	2022-06-09:12:45:00:AM
143	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLP	pH	7.22	pH	09-06-2022 01:02	2022-06-09:12:45:00:AM
144	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLC	COD	61.03	mg/l	09-06-2022 01:02	2022-06-09:12:45:00:AM
145	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLB	BOD	27.5	mg/l	09-06-2022 01:02	2022-06-09:12:45:00:AM
146	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLT	TSS	18.77	mg/l	09-06-2022 00:47	2022-06-09:12:30:00:AM
147	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLP	pH	7.24	pH	09-06-2022 00:47	2022-06-09:12:30:00:AM
148	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLC	COD	61.17	mg/l	09-06-2022 00:47	2022-06-09:12:30:00:AM
149	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLB	BOD	27.57	mg/l	09-06-2022 00:47	2022-06-09:12:30:00:AM
150	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLT	TSS	18.45	mg/l	09-06-2022 00:32	2022-06-09:12:15:00:AM
151	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLP	pH	7.29	pH	09-06-2022 00:32	2022-06-09:12:15:00:AM
152	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLC	COD	61.23	mg/l	09-06-2022 00:32	2022-06-09:12:15:00:AM
153	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLB	BOD	27.63	mg/l	09-06-2022 00:32	2022-06-09:12:15:00:AM
154	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLP	pH	7.38	pH	09-06-2022 00:19	2022-06-09:12:00:00:AM
155	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLC	COD	61.4	mg/l	09-06-2022 00:18	2022-06-09:12:00:00:AM
156	Bokaro Power Supply Company (P) Ltd	66	15BPSCPLB	BOD	27.73	mg/l	09-06-2022 00:18	2022-06-09:12:00:00:AM

39	Bokaro Power Supply Company Pvt Ltd.	STACK_4_Boiler_4	jhar_analyzer_12	PM	31.15	mg/Nm3	09-06-2022 13:51	09-06-2022 13:30
40	Bokaro Power Supply Company Pvt Ltd.	STACK_2_Boiler_2	jhar_analyzer_12	PM	0	mg/Nm3	09-06-2022 13:51	09-06-2022 13:30
41	Bokaro Power Supply Company Pvt Ltd.	STACK_7_Boiler_7	jhar_analyzer_12	PM	17.11	mg/Nm3	09-06-2022 13:50	09-06-2022 13:30
42	Bokaro Power Supply Company Pvt Ltd.	STACK_5_Boiler_5	jhar_analyzer_12	PM	43.29	mg/Nm3	09-06-2022 13:50	09-06-2022 13:30
43	Bokaro Power Supply Company Pvt Ltd.	STACK_6_Boiler_6	jhar_analyzer_12	PM	23.35	mg/Nm3	09-06-2022 13:35	09-06-2022 13:30
44	Bokaro Power Supply Company Pvt Ltd.	STACK_9_Boiler_9	jhar_analyzer_12	PM	14.71	mg/Nm3	09-06-2022 13:35	09-06-2022 13:30
45	Bokaro Power Supply Company Pvt Ltd.	STACK_7_Boiler_7	jhar_analyzer_12	PM	17.09	mg/Nm3	09-06-2022 13:35	09-06-2022 13:15
46	Bokaro Power Supply Company Pvt Ltd.	STACK_3_Boiler_3	jhar_analyzer_12	PM	53.02	mg/Nm3	09-06-2022 13:35	09-06-2022 13:15
47	Bokaro Power Supply Company Pvt Ltd.	STACK_5_Boiler_5	jhar_analyzer_12	PM	42.24	mg/Nm3	09-06-2022 13:35	09-06-2022 13:15
48	Bokaro Power Supply Company Pvt Ltd.	STACK_4_Boiler_4	jhar_analyzer_12	PM	31.18	mg/Nm3	09-06-2022 13:35	09-06-2022 13:15
49	Bokaro Power Supply Company Pvt Ltd.	STACK_2_Boiler_2	jhar_analyzer_12	PM	0	mg/Nm3	09-06-2022 13:35	09-06-2022 13:15
50	Bokaro Power Supply Company Pvt Ltd.	STACK_7_Boiler_7	jhar_analyzer_12	PM	15.66	mg/Nm3	09-06-2022 13:35	09-06-2022 13:15
51	Bokaro Power Supply Company Pvt Ltd.	STACK_4_Boiler_4	jhar_analyzer_12	PM	33.02	mg/Nm3	09-06-2022 13:20	09-06-2022 13:15
52	Bokaro Power Supply Company Pvt Ltd.	STACK_3_Boiler_3	jhar_analyzer_12	PM	61.09	mg/Nm3	09-06-2022 13:20	09-06-2022 13:00
53	Bokaro Power Supply Company Pvt Ltd.	STACK_9_Boiler_9	jhar_analyzer_12	PM	19.44	mg/Nm3	09-06-2022 13:20	09-06-2022 13:00
54	Bokaro Power Supply Company Pvt Ltd.	STACK_2_Boiler_2	jhar_analyzer_12	PM	0	mg/Nm3	09-06-2022 13:20	09-06-2022 13:00
55	Bokaro Power Supply Company Pvt Ltd.	STACK_5_Boiler_5	jhar_analyzer_12	PM	42.75	mg/Nm3	09-06-2022 13:20	09-06-2022 13:00
56	Bokaro Power Supply Company Pvt Ltd.	STACK_6_Boiler_6	jhar_analyzer_12	PM	23.34	mg/Nm3	09-06-2022 13:20	09-06-2022 13:00
57	Bokaro Power Supply Company Pvt Ltd.	STACK_3_Boiler_3	jhar_analyzer_12	PM	54.44	mg/Nm3	09-06-2022 13:20	09-06-2022 13:00
58	Bokaro Power Supply Company Pvt Ltd.	STACK_6_Boiler_6	jhar_analyzer_12	PM	23.28	mg/Nm3	09-06-2022 13:06	09-06-2022 12:45
59	Bokaro Power Supply Company Pvt Ltd.	STACK_9_Boiler_9	jhar_analyzer_12	PM	13.63	mg/Nm3	09-06-2022 13:06	09-06-2022 12:45
60	Bokaro Power Supply Company Pvt Ltd.	STACK_2_Boiler_2	jhar_analyzer_12	PM	0	mg/Nm3	09-06-2022 13:06	09-06-2022 12:45
61	Bokaro Power Supply Company Pvt Ltd.	STACK_7_Boiler_7	jhar_analyzer_12	PM	16.75	mg/Nm3	09-06-2022 13:06	09-06-2022 12:45
62	Bokaro Power Supply Company Pvt Ltd.	STACK_4_Boiler_4	jhar_analyzer_12	PM	31.52	mg/Nm3	09-06-2022 13:06	09-06-2022 12:45
63	Bokaro Power Supply Company Pvt Ltd.	STACK_5_Boiler_5	jhar_analyzer_12	PM	42.06	mg/Nm3	09-06-2022 13:06	09-06-2022 12:45
64	Bokaro Power Supply Company Pvt Ltd.	STACK_9_Boiler_9	jhar_analyzer_12	PM	14.1	mg/Nm3	09-06-2022 13:06	09-06-2022 12:45
65	Bokaro Power Supply Company Pvt Ltd.	STACK_3_Boiler_3	jhar_analyzer_12	PM	58.59	mg/Nm3	09-06-2022 12:50	09-06-2022 12:30
66	Bokaro Power Supply Company Pvt Ltd.	STACK_7_Boiler_7	jhar_analyzer_12	PM	16.18	mg/Nm3	09-06-2022 12:50	09-06-2022 12:30
67	Bokaro Power Supply Company Pvt Ltd.	STACK_2_Boiler_2	jhar_analyzer_12	PM	0	mg/Nm3	09-06-2022 12:50	09-06-2022 12:30
68	Bokaro Power Supply Company Pvt Ltd.	STACK_6_Boiler_6	jhar_analyzer_12	PM	23.34	mg/Nm3	09-06-2022 12:50	09-06-2022 12:30
69	Bokaro Power Supply Company Pvt Ltd.	STACK_5_Boiler_5	jhar_analyzer_12	PM	42.56	mg/Nm3	09-06-2022 12:50	09-06-2022 12:30
70	Bokaro Power Supply Company Pvt Ltd.	STACK_9_Boiler_9	jhar_analyzer_12	PM	31.77	mg/Nm3	09-06-2022 12:50	09-06-2022 12:30
71	Bokaro Power Supply Company Pvt Ltd.	STACK_3_Boiler_3	jhar_analyzer_12	PM	13.84	mg/Nm3	09-06-2022 12:50	09-06-2022 12:30
72	Bokaro Power Supply Company Pvt Ltd.	STACK_6_Boiler_6	jhar_analyzer_12	PM	23.3	mg/Nm3	09-06-2022 12:36	09-06-2022 12:15
73	Bokaro Power Supply Company Pvt Ltd.	STACK_5_Boiler_5	jhar_analyzer_12	PM	41.86	mg/Nm3	09-06-2022 12:36	09-06-2022 12:15
74	Bokaro Power Supply Company Pvt Ltd.	STACK_9_Boiler_9	jhar_analyzer_12	PM	57.8	mg/Nm3	09-06-2022 12:36	09-06-2022 12:15
75	Bokaro Power Supply Company Pvt Ltd.	STACK_3_Boiler_3	jhar_analyzer_12	PM	30.14	mg/Nm3	09-06-2022 12:36	09-06-2022 12:15
76	Bokaro Power Supply Company Pvt Ltd.	STACK_6_Boiler_6	jhar_analyzer_12	PM	0	mg/Nm3	09-06-2022 12:36	09-06-2022 12:15
77	Bokaro Power Supply Company Pvt Ltd.	STACK_5_Boiler_5	jhar_analyzer_12	PM	41.74	mg/Nm3	09-06-2022 12:20	09-06-2022 12:00

78	Bokaro Power Supply Company Pvt Ltd.	STACK_6_Boiler_6	jhar_analyzer_12	PM	23.26	mg/Nm3	09-06-2022 12:20	09-06-2022 12:00
79	Bokaro Power Supply Company Pvt Ltd.	STACK_2_Boiler_2	jhar_analyzer_12	PM	0	mg/Nm3	09-06-2022 12:20	09-06-2022 12:00
80	Bokaro Power Supply Company Pvt Ltd.	STACK_7_Boiler_7	jhar_analyzer_12	PM	13.39	mg/Nm3	09-06-2022 12:20	09-06-2022 12:00
81	Bokaro Power Supply Company Pvt Ltd.	STACK_3_Boiler_3	jhar_analyzer_12	PM	67.82	mg/Nm3	09-06-2022 12:20	09-06-2022 12:00
82	Bokaro Power Supply Company Pvt Ltd.	STACK_9_Boiler_9	jhar_analyzer_12	PM	13.84	mg/Nm3	09-06-2022 12:20	09-06-2022 12:00
83	Bokaro Power Supply Company Pvt Ltd.	STACK_4_Boiler_4	jhar_analyzer_12	PM	29.31	mg/Nm3	09-06-2022 12:20	09-06-2022 12:00
84	Bokaro Power Supply Company Pvt Ltd.	STACK_3_Boiler_3	jhar_analyzer_12	PM	65.34	mg/Nm3	09-06-2022 12:05	09-06-2022 11:45
85	Bokaro Power Supply Company Pvt Ltd.	STACK_5_Boiler_5	jhar_analyzer_12	PM	41.3	mg/Nm3	09-06-2022 12:05	09-06-2022 11:45
86	Bokaro Power Supply Company Pvt Ltd.	STACK_9_Boiler_9	jhar_analyzer_12	PM	15.95	mg/Nm3	09-06-2022 12:05	09-06-2022 11:45
87	Bokaro Power Supply Company Pvt Ltd.	STACK_6_Boiler_6	jhar_analyzer_12	PM	23.29	mg/Nm3	09-06-2022 12:05	09-06-2022 11:45
88	Bokaro Power Supply Company Pvt Ltd.	STACK_2_Boiler_2	jhar_analyzer_12	PM	0	mg/Nm3	09-06-2022 12:05	09-06-2022 11:45
89	Bokaro Power Supply Company Pvt Ltd.	STACK_7_Boiler_7	jhar_analyzer_12	PM	15.06	mg/Nm3	09-06-2022 12:05	09-06-2022 11:45
90	Bokaro Power Supply Company Pvt Ltd.	STACK_4_Boiler_4	jhar_analyzer_12	PM	35.08	mg/Nm3	09-06-2022 12:05	09-06-2022 11:45
91	Bokaro Power Supply Company Pvt Ltd.	STACK_6_Boiler_6	jhar_analyzer_12	PM	11.68	mg/Nm3	09-06-2022 11:50	09-06-2022 11:30
92	Bokaro Power Supply Company Pvt Ltd.	STACK_9_Boiler_9	jhar_analyzer_12	PM	11.87	mg/Nm3	09-06-2022 11:50	09-06-2022 11:30
93	Bokaro Power Supply Company Pvt Ltd.	STACK_3_Boiler_3	jhar_analyzer_12	PM	65.11	mg/Nm3	09-06-2022 11:50	09-06-2022 11:30
94	Bokaro Power Supply Company Pvt Ltd.	STACK_2_Boiler_2	jhar_analyzer_12	PM	0	mg/Nm3	09-06-2022 11:50	09-06-2022 11:30
95	Bokaro Power Supply Company Pvt Ltd.	STACK_4_Boiler_4	jhar_analyzer_12	PM	28.38	mg/Nm3	09-06-2022 11:50	09-06-2022 11:30
96	Bokaro Power Supply Company Pvt Ltd.	STACK_7_Boiler_7	jhar_analyzer_12	PM	13.61	mg/Nm3	09-06-2022 11:50	09-06-2022 11:30
97	Bokaro Power Supply Company Pvt Ltd.	STACK_5_Boiler_5	jhar_analyzer_12	PM	41.55	mg/Nm3	09-06-2022 11:50	09-06-2022 11:30
98	Bokaro Power Supply Company Pvt Ltd.	STACK_6_Boiler_6	jhar_analyzer_12	PM	19.93	mg/Nm3	09-06-2022 11:35	09-06-2022 11:15
99	Bokaro Power Supply Company Pvt Ltd.	STACK_2_Boiler_2	jhar_analyzer_12	PM	0	mg/Nm3	09-06-2022 11:35	09-06-2022 11:15
100	Bokaro Power Supply Company Pvt Ltd.	STACK_4_Boiler_4	jhar_analyzer_12	PM	30.84	mg/Nm3	09-06-2022 11:35	09-06-2022 11:15
101	Bokaro Power Supply Company Pvt Ltd.	STACK_7_Boiler_7	jhar_analyzer_12	PM	18.98	mg/Nm3	09-06-2022 11:35	09-06-2022 11:15
102	Bokaro Power Supply Company Pvt Ltd.	STACK_9_Boiler_9	jhar_analyzer_12	PM	13.08	mg/Nm3	09-06-2022 11:35	09-06-2022 11:15
103	Bokaro Power Supply Company Pvt Ltd.	STACK_5_Boiler_5	jhar_analyzer_12	PM	41.55	mg/Nm3	09-06-2022 11:35	09-06-2022 11:15
104	Bokaro Power Supply Company Pvt Ltd.	STACK_3_Boiler_3	jhar_analyzer_12	PM	59.9	mg/Nm3	09-06-2022 11:35	09-06-2022 11:15
105	Bokaro Power Supply Company Pvt Ltd.	STACK_9_Boiler_9	jhar_analyzer_12	PM	13.12	mg/Nm3	09-06-2022 11:20	09-06-2022 11:00
106	Bokaro Power Supply Company Pvt Ltd.	STACK_6_Boiler_6	jhar_analyzer_12	PM	23.19	mg/Nm3	09-06-2022 11:20	09-06-2022 11:00
107	Bokaro Power Supply Company Pvt Ltd.	STACK_7_Boiler_7	jhar_analyzer_12	PM	16.85	mg/Nm3	09-06-2022 11:20	09-06-2022 11:00
108	Bokaro Power Supply Company Pvt Ltd.	STACK_4_Boiler_4	jhar_analyzer_12	PM	26.27	mg/Nm3	09-06-2022 11:20	09-06-2022 11:00
109	Bokaro Power Supply Company Pvt Ltd.	STACK_3_Boiler_3	jhar_analyzer_12	PM	66.41	mg/Nm3	09-06-2022 11:20	09-06-2022 11:00
110	Bokaro Power Supply Company Pvt Ltd.	STACK_5_Boiler_5	jhar_analyzer_12	PM	42.81	mg/Nm3	09-06-2022 11:20	09-06-2022 11:00
111	Bokaro Power Supply Company Pvt Ltd.	STACK_2_Boiler_2	jhar_analyzer_12	PM	0	mg/Nm3	09-06-2022 11:20	09-06-2022 11:00
112	Bokaro Power Supply Company Pvt Ltd.	STACK_9_Boiler_9	jhar_analyzer_12	PM	12.77	mg/Nm3	09-06-2022 11:06	09-06-2022 10:45
113	Bokaro Power Supply Company Pvt Ltd.	STACK_6_Boiler_6	jhar_analyzer_12	PM	21.64	mg/Nm3	09-06-2022 11:06	09-06-2022 10:45
114	Bokaro Power Supply Company Pvt Ltd.	STACK_3_Boiler_3	jhar_analyzer_12	PM	61.43	mg/Nm3	09-06-2022 11:06	09-06-2022 10:45
115	Bokaro Power Supply Company Pvt Ltd.	STACK_7_Boiler_7	jhar_analyzer_12	PM	19.6	mg/Nm3	09-06-2022 11:05	09-06-2022 10:45
116	Bokaro Power Supply Company Pvt Ltd.	STACK_4_Boiler_4	jhar_analyzer_12	PM	27.72	mg/Nm3	09-06-2022 11:05	09-06-2022 10:45

117	Bokaro Power Supply Company Pvt Ltd.	STACK_2_Boiler_2	jhar_analyzer_12	PM	0 mg/Nm3	09-06-2022 11:05	09-06-2022 10:45
118	Bokaro Power Supply Company Pvt Ltd.	STACK_5_Boiler_5	jhar_analyzer_12	PM	42.72 mg/Nm3	09-06-2022 11:05	09-06-2022 10:45
119	Bokaro Power Supply Company Pvt Ltd.	STACK_4_Boiler_4	jhar_analyzer_12	PM	22.59 mg/Nm3	09-06-2022 10:50	09-06-2022 10:30
120	Bokaro Power Supply Company Pvt Ltd.	STACK_2_Boiler_2	jhar_analyzer_12	PM	0 mg/Nm3	09-06-2022 10:50	09-06-2022 10:30
121	Bokaro Power Supply Company Pvt Ltd.	STACK_6_Boiler_6	jhar_analyzer_12	PM	23.09 mg/Nm3	09-06-2022 10:50	09-06-2022 10:30
122	Bokaro Power Supply Company Pvt Ltd.	STACK_7_Boiler_7	jhar_analyzer_12	PM	17.3 mg/Nm3	09-06-2022 10:50	09-06-2022 10:30
123	Bokaro Power Supply Company Pvt Ltd.	STACK_3_Boiler_3	jhar_analyzer_12	PM	54.24 mg/Nm3	09-06-2022 10:50	09-06-2022 10:30
124	Bokaro Power Supply Company Pvt Ltd.	STACK_5_Boiler_5	jhar_analyzer_12	PM	43.08 mg/Nm3	09-06-2022 10:50	09-06-2022 10:30
125	Bokaro Power Supply Company Pvt Ltd.	STACK_3_Boiler_3	jhar_analyzer_12	PM	58.11 mg/Nm3	09-06-2022 10:36	09-06-2022 10:15
126	Bokaro Power Supply Company Pvt Ltd.	STACK_4_Boiler_4	jhar_analyzer_12	PM	24.79 mg/Nm3	09-06-2022 10:36	09-06-2022 10:15
127	Bokaro Power Supply Company Pvt Ltd.	STACK_6_Boiler_6	jhar_analyzer_12	PM	23.05 mg/Nm3	09-06-2022 10:36	09-06-2022 10:15
128	Bokaro Power Supply Company Pvt Ltd.	STACK_9_Boiler_9	jhar_analyzer_12	PM	12.93 mg/Nm3	09-06-2022 10:35	09-06-2022 10:15
129	Bokaro Power Supply Company Pvt Ltd.	STACK_2_Boiler_2	jhar_analyzer_12	PM	0 mg/Nm3	09-06-2022 10:35	09-06-2022 10:15
130	Bokaro Power Supply Company Pvt Ltd.	STACK_5_Boiler_5	jhar_analyzer_12	PM	43.81 mg/Nm3	09-06-2022 10:35	09-06-2022 10:15
131	Bokaro Power Supply Company Pvt Ltd.	STACK_7_Boiler_7	jhar_analyzer_12	PM	16.69 mg/Nm3	09-06-2022 10:35	09-06-2022 10:15
132	Bokaro Power Supply Company Pvt Ltd.	STACK_9_Boiler_9	jhar_analyzer_12	PM	12.75 mg/Nm3	09-06-2022 10:05	09-06-2022 09:45
133	Bokaro Power Supply Company Pvt Ltd.	STACK_6_Boiler_6	jhar_analyzer_12	PM	22.77 mg/Nm3	09-06-2022 10:05	09-06-2022 09:45
134	Bokaro Power Supply Company Pvt Ltd.	STACK_7_Boiler_7	jhar_analyzer_12	PM	19.42 mg/Nm3	09-06-2022 10:05	09-06-2022 09:45
135	Bokaro Power Supply Company Pvt Ltd.	STACK_4_Boiler_4	jhar_analyzer_12	PM	25.43 mg/Nm3	09-06-2022 10:05	09-06-2022 09:45
136	Bokaro Power Supply Company Pvt Ltd.	STACK_5_Boiler_5	jhar_analyzer_12	PM	42.43 mg/Nm3	09-06-2022 10:05	09-06-2022 09:45
137	Bokaro Power Supply Company Pvt Ltd.	STACK_3_Boiler_3	jhar_analyzer_12	PM	72.14 mg/Nm3	09-06-2022 10:05	09-06-2022 09:45
138	Bokaro Power Supply Company Pvt Ltd.	STACK_2_Boiler_2	jhar_analyzer_12	PM	0 mg/Nm3	09-06-2022 10:05	09-06-2022 09:45
139	Bokaro Power Supply Company Pvt Ltd.	STACK_9_Boiler_9	jhar_analyzer_12	PM	13.56 mg/Nm3	09-06-2022 09:51	09-06-2022 09:30
140	Bokaro Power Supply Company Pvt Ltd.	STACK_6_Boiler_6	jhar_analyzer_12	PM	22.6 mg/Nm3	09-06-2022 09:51	09-06-2022 09:30
141	Bokaro Power Supply Company Pvt Ltd.	STACK_7_Boiler_7	jhar_analyzer_12	PM	16.04 mg/Nm3	09-06-2022 09:50	09-06-2022 09:30
142	Bokaro Power Supply Company Pvt Ltd.	STACK_3_Boiler_3	jhar_analyzer_12	PM	55.18 mg/Nm3	09-06-2022 09:50	09-06-2022 09:30
143	Bokaro Power Supply Company Pvt Ltd.	STACK_4_Boiler_4	jhar_analyzer_12	PM	21.18 mg/Nm3	09-06-2022 09:50	09-06-2022 09:30
144	Bokaro Power Supply Company Pvt Ltd.	STACK_5_Boiler_5	jhar_analyzer_12	PM	41.62 mg/Nm3	09-06-2022 09:50	09-06-2022 09:30
145	Bokaro Power Supply Company Pvt Ltd.	STACK_2_Boiler_2	jhar_analyzer_12	PM	0 mg/Nm3	09-06-2022 09:50	09-06-2022 09:30
146	Bokaro Power Supply Company Pvt Ltd.	STACK_5_Boiler_5	jhar_analyzer_12	PM	42.19 mg/Nm3	09-06-2022 09:35	09-06-2022 09:15
147	Bokaro Power Supply Company Pvt Ltd.	STACK_3_Boiler_3	jhar_analyzer_12	PM	57.72 mg/Nm3	09-06-2022 09:35	09-06-2022 09:15
148	Bokaro Power Supply Company Pvt Ltd.	STACK_6_Boiler_6	jhar_analyzer_12	PM	22.45 mg/Nm3	09-06-2022 09:35	09-06-2022 09:15
149	Bokaro Power Supply Company Pvt Ltd.	STACK_9_Boiler_9	jhar_analyzer_12	PM	14.4 mg/Nm3	09-06-2022 09:35	09-06-2022 09:15
150	Bokaro Power Supply Company Pvt Ltd.	STACK_7_Boiler_7	jhar_analyzer_12	PM	18.76 mg/Nm3	09-06-2022 09:35	09-06-2022 09:15
151	Bokaro Power Supply Company Pvt Ltd.	STACK_4_Boiler_4	jhar_analyzer_12	PM	25.41 mg/Nm3	09-06-2022 09:35	09-06-2022 09:15
152	Bokaro Power Supply Company Pvt Ltd.	STACK_2_Boiler_2	jhar_analyzer_12	PM	0 mg/Nm3	09-06-2022 09:35	09-06-2022 09:15
153	Bokaro Power Supply Company Pvt Ltd.	STACK_9_Boiler_9	jhar_analyzer_12	PM	14.45 mg/Nm3	09-06-2022 09:21	09-06-2022 09:00
154	Bokaro Power Supply Company Pvt Ltd.	STACK_6_Boiler_6	jhar_analyzer_12	PM	22.28 mg/Nm3	09-06-2022 09:21	09-06-2022 09:00
155	Bokaro Power Supply Company Pvt Ltd.	STACK_3_Boiler_3	jhar_analyzer_12	PM	54.72 mg/Nm3	09-06-2022 09:21	09-06-2022 09:00

312	Bokaro Power Supply Company Pvt Ltd.	STACK 7_Boiler_7	jhar_analyzer_12	PM		17.98	mg/Nm3	09-06-2022 01:06	09-06-2022 00:45
313	Bokaro Power Supply Company Pvt Ltd.	STACK 2_Boiler_2	jhar_analyzer_12	PM		0	mg/Nm3	09-06-2022 01:06	09-06-2022 00:45
314	Bokaro Power Supply Company Pvt Ltd.	STACK 4_Boiler_4	jhar_analyzer_12	PM		19.49	mg/Nm3	09-06-2022 00:51	09-06-2022 00:30
315	Bokaro Power Supply Company Pvt Ltd.	STACK 6_Boiler_6	jhar_analyzer_12	PM		22.76	mg/Nm3	09-06-2022 00:51	09-06-2022 00:30
316	Bokaro Power Supply Company Pvt Ltd.	STACK 5_Boiler_5	jhar_analyzer_12	PM		43.65	mg/Nm3	09-06-2022 00:51	09-06-2022 00:30
317	Bokaro Power Supply Company Pvt Ltd.	STACK 7_Boiler_7	jhar_analyzer_12	PM		18.04	mg/Nm3	09-06-2022 00:51	09-06-2022 00:30
318	Bokaro Power Supply Company Pvt Ltd.	STACK 3_Boiler_3	jhar_analyzer_12	PM		49.99	mg/Nm3	09-06-2022 00:51	09-06-2022 00:30
319	Bokaro Power Supply Company Pvt Ltd.	STACK 9_Boiler_9	jhar_analyzer_12	PM		18.33	mg/Nm3	09-06-2022 00:51	09-06-2022 00:30
320	Bokaro Power Supply Company Pvt Ltd.	STACK 2_Boiler_2	jhar_analyzer_12	PM		0	mg/Nm3	09-06-2022 00:51	09-06-2022 00:30
321	Bokaro Power Supply Company Pvt Ltd.	STACK 6_Boiler_6	jhar_analyzer_12	PM		22.98	mg/Nm3	09-06-2022 00:37	09-06-2022 00:15
322	Bokaro Power Supply Company Pvt Ltd.	STACK 3_Boiler_3	jhar_analyzer_12	PM		49.3	mg/Nm3	09-06-2022 00:37	09-06-2022 00:15
323	Bokaro Power Supply Company Pvt Ltd.	STACK 9_Boiler_9	jhar_analyzer_12	PM		17.71	mg/Nm3	09-06-2022 00:37	09-06-2022 00:15
324	Bokaro Power Supply Company Pvt Ltd.	STACK 5_Boiler_5	jhar_analyzer_12	PM		47.06	mg/Nm3	09-06-2022 00:36	09-06-2022 00:15
325	Bokaro Power Supply Company Pvt Ltd.	STACK 7_Boiler_7	jhar_analyzer_12	PM		21.99	mg/Nm3	09-06-2022 00:36	09-06-2022 00:15
326	Bokaro Power Supply Company Pvt Ltd.	STACK 4_Boiler_4	jhar_analyzer_12	PM		23.23	mg/Nm3	09-06-2022 00:36	09-06-2022 00:15
327	Bokaro Power Supply Company Pvt Ltd.	STACK 2_Boiler_2	jhar_analyzer_12	PM		0	mg/Nm3	09-06-2022 00:36	09-06-2022 00:15
328	Bokaro Power Supply Company Pvt Ltd.	STACK 6_Boiler_6	jhar_analyzer_12	PM		23.05	mg/Nm3	09-06-2022 00:22	09-06-2022 00:00
329	Bokaro Power Supply Company Pvt Ltd.	STACK 4_Boiler_4	jhar_analyzer_12	PM		28.19	mg/Nm3	09-06-2022 00:21	09-06-2022 00:00
330	Bokaro Power Supply Company Pvt Ltd.	STACK 9_Boiler_9	jhar_analyzer_12	PM		16.61	mg/Nm3	09-06-2022 00:21	09-06-2022 00:00
331	Bokaro Power Supply Company Pvt Ltd.	STACK 3_Boiler_3	jhar_analyzer_12	PM		49.68	mg/Nm3	09-06-2022 00:21	09-06-2022 00:00
332	Bokaro Power Supply Company Pvt Ltd.	STACK 5_Boiler_5	jhar_analyzer_12	PM		44.03	mg/Nm3	09-06-2022 00:21	09-06-2022 00:00
333	Bokaro Power Supply Company Pvt Ltd.	STACK 7_Boiler_7	jhar_analyzer_12	PM		15.94	mg/Nm3	09-06-2022 00:21	09-06-2022 00:00
334	Bokaro Power Supply Company Pvt Ltd.	STACK 2_Boiler_2	jhar_analyzer_12	PM		0	mg/Nm3	09-06-2022 00:21	09-06-2022 00:00

**REPORTS
ON
STACK EMISSION, AMBIENT AIR,
NOISE LEVEL & EFFLUENT WATER
MONITORING AND ANALYSIS**

OF

**M/s. BOKARO POWER SUPPLY COMPANY (P) LTD.,
BOKARO STEEL CITY, JHARKHAND**

(PERIOD: MARCH, 2022)

Reports Prepared By:

POLLUTION AND PROJECT CONSULTANTS,

P-145, Bangur Avenue, Block – A,

Kolkata – 700 055

Phone: (033) 2574-3418



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TEST REPORT

STACK GAS

Customer Name : M/s. Bokaro Power Supply Company (P) Ltd., Address : Bokaro Steel City, Bokaro, Jharkhand	Report No. : G/22(03)/15 Report Date : 30-03-2022 Date of Sampling : 23-03-2022 Time of Sampling : 10:45 A.M. Sample Received Date : 26-03-2022 Sample Id No. : GS/22(03)/15 Test Start Date : 26-03-2022 Test End Date : 30-03-2022			
Type of Sample : Stack Air Sampling Location : Boiler Unit # 2				
A : GENERAL INFORMATION ABOUT STACK : 1 Stack connected to : Boiler Unit # 2 2 a) Material of construction of the Stack : R.C.C. b) Material of construction of the Duct : M.S. 3 a) Shape of the stack : Circular b) Shape of the duct : Rectangular 4 Height of the stack : a) From Ground Level (M) : 180 b) From Roof Level (M) : -- 5 Dimension of the duct : a) Top (M) : -- b) Bottom (M) : -- c) Sampling Point (M) : 1.5 X 1.3 6 Height of the Sampling Port : a) From Ground Level (M) : -- b) From Lower Disturbing Zone (M) : -- 7 Whether Stack is provided with permanent Platform/Ladder : Yes	C : ANALYSIS/CHARACTERISTICS OF FUEL : 1 Emission due to : Burning of Fuel 2 Fuel used : Coal+ B.F.Gas +CO.Gas 3 Fuel consumption : Coal: 7 (TPH), B.F.Gas: 67000 (M ³ /Hr), CO Gas : 5800 (M ³ /Hr) 4 Calorific value (k-cal/kg) : -- 5 Sulphur content (% by wt) : -- 6 Ash content (% by wt) : -- 7 Air flow : --	D : STEAM GENERATION CAPACITY: a) Rated : 140.0 Ton/Hr. b) Running : -- Load: a) Rated : -- b) Running : --		
		E : Pollution control device : ESP		
B : Result of Sampling				
Sl.	Parameters tested	Unit	Method of Test (Reference)	Result
1	TEMPERATURE OF EMISSION	deg C	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	163
2	BAROMETRIC PRESSURE	mmHg	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	755
3	VELOCITY OF GAS FLOW	M/Sec	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	21.65
4	QUANTITY OF GAS FLOW	Nm ³ /Hr.	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	103194.8
5	CONCENTRATION OF PARTICULATE MATTER	mg/Nm ³	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	46
6	PARTICULATE MATTER NORMALISED TO 12% CO ₂	mg/Nm ³	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	52.07
7	CONCENTRATION OF SULPHUR DIOXIDE	mg/Nm ³	IS 11255 (Part 2): 1985 (RA 2014)	51
8	CONCENTRATION OF NITROGEN DIOXIDE	mg/Nm ³	IS 11255 (Part 7): 2005 (RA 2017)	70
9	CONCENTRATION OF OXYGEN	% v/v	APHA (Air Analysis) (3 rd Edition) Method -134	9.4
10	CONCENTRATION OF CARBON DIOXIDE	% v/v	APHA (Air Analysis) (3 rd Edition) Method -134	10.6
11	CONCENTRATION OF CARBON MONOXIDE	% v/v	APHA (Air Analysis) (3 rd Edition) Method -134	<0.2

The results relate only to the parameter

.....end of report

(Signature)

Authorized Signatory
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 Phone : 98309 47639 • E-mail : ppconsultants@awsppc.in • Web : www.awsppcenvirogroup.com



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TEST REPORT STACK GAS

Customer Name : M/s. Bokaro Power Supply Company (P) Ltd.,	Report No. : G/22(03)/16
Address : Bokaro Steel City, Bokaro, Jharkhand	Report Date : 30-03-2022
	Date of Sampling : 23-03-2022
	Time of Sampling : 12:25 P.M.
	Sample Received Date : 26-03-2022
	Sample Id No. : GS/22(03)/16
Type of Sample : Stack Air	Test Start Date : 26-03-2022
Sampling Location : Boiler Unit # 3	Test End Date : 30-03-2022
A : GENERAL INFORMATION ABOUT STACK :	
1 Stack connected to : Boiler Unit # 3	
2 a) Material of construction of the Stack : R.C.C.	
b) Material of construction of the Duct : M.S.	
3 a) Shape of the stack : Circular	
b) Shape of the duct : Rectangular	
4 Height of the stack :	
a) From Ground Level (M) : 180	
b) From Roof Level (M) : --	
5 Dimension of the duct :	
a) Top (M) : --	
b) Bottom (M) : --	
c) Sampling Point (M) : 1.5 X 1.3	
6 Height of the Sampling Port :	
a) From Ground Level (M) : --	
b) From Lower Disturbing Zone (M) : --	
7 Whether Stack is provided with permanent Platform/Ladder : Yes	
B : Result of Sampling	
C : ANALYSIS/CHARACTERISTICS OF FUEL :	
1 Emission due to : Burning of Fuel	
2 Fuel used : Coal+ B.F.Gas +CO.Gas	
3 Fuel consumption : Coal: 7 (TPH), B.F.Gas: 54000 (M ³ /Hr), CO Gas: 8000 (M ³ /Hr)	
4 Calorific value (k-cal/kg) : --	
5 Sulphur content (% by wt) : --	
6 Ash content (% by wt) : --	
7 Air flow : --	
D : STEAM GENERATION CAPACITY:	
a) Rated : 160.0 Ton/Hr	
b) Running : --	
Load: a) Rated : --	
b) Running : --	
E : Pollution control device : ESP	

Sl. No.	Parameters tested	Unit	Method of Test (Reference)	Result
1	TEMPERATURE OF EMISSION	deg C	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	176
2	BAROMETRIC PRESSURE	mmHg	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	755
3	VELOCITY OF GAS FLOW	M/Sec	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	21.72
4	QUANTITY OF GAS FLOW	Nm ³ /Hr.	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	100531.04
5	CONCENTRATION OF PARTICULATE MATTER	mg/Nm ³	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	44
6	PARTICULATE MATTER NORMALISED TO 12% CO ₂	mg/Nm ³	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	48.8
7	CONCENTRATION OF SULPHUR DIOXIDE	mg/Nm ³	IS 11255 (Part 2): 1985 (RA 2014)	69
8	CONCENTRATION OF NITROGEN DIOXIDE	mg/Nm ³	IS 11255 (Part 7): 2005 (RA 2017)	76
9	CONCENTRATION OF OXYGEN	% v/v	APHA (Air Analysis) (3 rd Edn.) Method -134	9.2
10	CONCENTRATION OF CARBON DIOXIDE	% v/v	APHA (Air Analysis) (3 rd Edn.) Method -134	10.8
11	CONCENTRATION OF CARBON MONOXIDE	% v/v	APHA (Air Analysis) (3 rd Edn.) Method -134	<0.2

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.....end of report



Thakraborty
Tannoy Chakraborty
Quality Manager
Authorized Signatory

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**TEST REPORT
STACK GAS**

<p>Customer Name : M/s. Bokaro Power Supply Company (P) Ltd., Address : Bokaro Steel City, Bokaro, Jharkhand</p> <p>Type of Sample : Stack Air Sampling Location : Boiler Unit # 4</p>	<p>Report No. : G/22(03)/17 Report Date : 30-03-2022 Date of Sampling : 23-03-2022 Time of Sampling : 2:40 P.M. Sample Received Date : 26-03-2022 Sample Id No. : GS/22(03)/17 Test Start Date : 26-03-2022 Test End Date : 30-03-2022</p>
<p>A: GENERAL INFORMATION ABOUT STACK :</p> <p>1 Stack connected to : Boiler Unit # 4 2 a) Material of construction of the Stack : R.C.C. b) Material of construction of the Duct : M.S. 3 a) Shape of the stack : Circular b) Shape of the duct : Rectangular 4 Height of the stack : a) From Ground Level (M) : 180 b) From Roof Level (M) : -- 5 Dimension of the duct : a) Top (M) : -- b) Bottom (M) : -- c) Sampling Point (M) : 1.5 X 1.3 6 Height of the Sampling Port : a) From Ground Level (M) : -- b) From Lower Disturbing Zone (M) : -- 7 Whether Stack is provided with permanent Platform/Ladder : Yes</p>	
<p>B: Result of Sampling : Yes</p>	
<p>C: ANALYSIS/CHARACTERISTICS OF FUEL :</p> <p>1 Emission due to : Burning of Fuel 2 Fuel used : Coal+ B.F.Gas +CO.Gas 3 Fuel consumption : Coal: 8 (TPH), B.F.Gas: 49900 (M³/Hr), CO Gas: 4500 (M³/Hr) 4 Calorific value (k-cal/kg) : -- 5 Sulphur content (% by wt) : -- 6 Ash content (% by wt) : -- 7 Air flow : --</p>	
<p>D: STEAM GENERATION CAPACITY:</p> <p>a) Rated : 148.0 Ton/Hr b) Running : -- Load: a) Rated : -- b) Running : --</p>	
<p>E: Pollution control device : ESP</p>	

Sl. No.	Parameters tested	Unit	Method of Test (Reference)	Result
1	TEMPERATURE OF EMISSION	deg C	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	173
2	BAROMETRIC PRESSURE	mmHg	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	755
3	VELOCITY OF GAS FLOW	M/Sec	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	21.84
4	QUANTITY OF GAS FLOW	Nm ³ /Hr.	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	101766.5
5	CONCENTRATION OF PARTICULATE MATTER	mg/Nm ³	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	39
6	PARTICULATE MATTER NORMALISED TO 12% CO ₂	mg/Nm ³	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	45
7	CONCENTRATION OF SULPHUR DIOXIDE	mg/Nm ³	IS 11255 (Part 2): 1985 (RA 2014)	57
8	CONCENTRATION OF NITROGEN DIOXIDE	mg/Nm ³	IS 11255 (Part 7): 2005 (RA 2017)	68
9	CONCENTRATION OF OXYGEN	% v/v	APHA (Air Analysis) (3 rd Edn.) Method -134	9.6
10	CONCENTRATION OF CARBON DIOXIDE	% v/v	APHA (Air Analysis) (3 rd Edn.) Method -134	10.4
11	CONCENTRATION OF CARBON MONOXIDE	% v/v	APHA (Air Analysis) (3 rd Edn.) Method -134	<0.2

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.....end of report



Tanmoy Chakrabarty
Tanmoy Chakrabarty
Quality Manager
Authorized Signatory

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TEST REPORT
STACK GAS

Customer Name : M/s. Bokaro Power Supply Company (P) Ltd.,	Report No. : G/22(03)/18
Address : Bokaro Steel City, Bokaro, Jharkhand	Report Date : 30-03-2022
	Date of Sampling : 24-03-2022
	Time of Sampling : 10:40 A.M.
	Sample Received Date : 26-03-2022
	Sample Id No. : GS/22(03)/18
	Test Start Date : 26-03-2022
	Test End Date : 30-03-2022
Type of Sample : Stack Air	
Sampling Location : Boiler Unit # 5	
A : GENERAL INFORMATION ABOUT STACK :	
1 Stack connected to : Boiler Unit # 5	
2 a) Material of construction of the Stack : R.C.C.	
b) Material of construction of the Duct : M.S.	
3 a) Shape of the stack : Circular	
b) Shape of the duct : Rectangular	
4 Height of the stack :	
a) From Ground Level (M) : 180	
b) From Roof Level (M) : --	
5 Dimension of the duct :	
a) Top (M) : --	
b) Bottom (M) : --	
c) Sampling Point (M) : 1.5 X 1.3	
6 Height of the Sampling Port :	
a) From Ground Level (M) : --	
b) From Lower Disturbing Zone (M) : --	
7 Whether Stack is provided with permanent Platform/Ladder : Yes	
B : Result of Sampling	
C : ANALYSIS/CHARACTERISTICS OF FUEL :	
1 Emission due to : Burning of Fuel	
2 Fuel used : Coal+ B.F.Gas +CO ₂ Gas	
3 Fuel consumption : Coal:10 (TPH), B.F.Gas: 84500 (M ³ /Hr), CO Gas : 4600 (M ³ /Hr)	
4 Calorific value (k-cal/kg) : --	
5 Sulphur content (% by wt) : --	
6 Ash content (% by wt) : --	
7 Air flow : --	
D : STEAM GENERATION CAPACITY:	
a) Rated : 135.0 Ton/Hr	
b) Running : --	
Load: a) Rated : --	
b) Running : --	
E : Pollution control device : ESP	

Sl.	Parameters tested	Unit	Method of Test (Reference)	Result
1	TEMPERATURE OF EMISSION	deg C	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	179
2	BAROMETRIC PRESSURE	mmHg	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	755
3	VELOCITY OF GAS FLOW	M/Sec	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	21.9
4	QUANTITY OF GAS FLOW	Nm ³ /Hr.	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	100691.4
5	CONCENTRATION OF PARTICULATE MATTER	mg/Nm ³	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	49
6	PARTICULATE MATTER NORMALISED TO 12% CO ₂	mg/Nm ³	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	54.4
7	CONCENTRATION OF SULPHUR DIOXIDE	mg/Nm ³	IS 11255 (Part 2): 1985 (RA 2014)	66
8	CONCENTRATION OF NITROGEN DIOXIDE	mg/Nm ³	IS 11255 (Part 7): 2005 (RA 2017)	74
9	CONCENTRATION OF OXYGEN	% v/v	APHA (Air Analysis) (3 rd Edn.) Method -134	9.4
10	CONCENTRATION OF CARBON DIOXIDE	% v/v	APHA (Air Analysis) (3 rd Edn.) Method -134	10.8
11	CONCENTRATION OF CARBON MONOXIDE	% v/v	APHA (Air Analysis) (3 rd Edn.) Method -134	<0.2

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.....end of report



Tanmoy Chakrabarty
Tanmoy Chakrabarty
Quality Manager
Authorized Signatory
For Pollution and Project Consultants

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TEST REPORT

STACK GAS

Customer Name : M/s. Bokaro Power Supply Company (P) Ltd.,	Report No. : G/22(03)/19
Address : Bokaro Steel City, Bokaro, Jharkhand	Report Date : 30-03-2022
	Date of Sampling : 24-03-2022
	Time of Sampling : 12:30 P.M.
	Sample Received Date : 26-03-2022
	Sample Id No. : GS/22(03)/19
Type of Sample : Stack Air	Test Start Date : 26-03-2022
Sampling Location : Boiler Unit # 9	Test End Date : 30-03-2022
A : GENERAL INFORMATION ABOUT STACK :	C : ANALYSIS/CHARACTERISTICS OF FUEL :
1 Stack connected to : Boiler Unit # 9	1 Emission due to : Burning of Fuel
2 a) Material of construction of the Stack : R.C.C.	2 Fuel used : Coal
b) Material of construction of the Duct : M.S.	3 Fuel consumption : 44 Ton/Hr
3 a) Shape of the stack : Rectrangular	4 Calorific value (k-cal/kg) : 3500
b) Shape of the duct	5 Sulphur content (% by wt) : 0.65
4 Height of the stack :	6 Ash content (% by wt) : 35
a) From Ground Level (M) : 180	7 Air flow : --
b) From Roof Level (M) : --	D : STEAM GENERATION CAPACITY:
5 Dimension of the duct :	a) Rated : 233 Ton/Hr
a) Top (M) :	b) Running : --
b) Bottom (M) : --	Load:
c) Sampling Point (M) : 4.5 X 2.25	a) Rated : --
6 Height of the Sampling Port :	b) Running : --
a) From Ground Level (M) : --	E : Pollution control device : ESP
b) From Lower Disturbing Zone (M) : --	
7 Whether Stack is provided with permanent Platform/Ladder : Yes	

B : Result of Sampling

Sl. No.	Parameters tested	Unit	Method of Test (Reference)	Result
1	TEMPERATURE OF EMISSION	deg C	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	123
2	BAROMETRIC PRESSURE	mmHg	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	755
3	VELOCITY OF GAS FLOW	M/Sec	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	16.54
4	QUANTITY OF GAS FLOW	Nm ³ /Hr.	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	432671.9
5	CONCENTRATION OF PARTICULATE MATTER	mg/Nm ³	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	39
6	PARTICULATE MATTER NORMALISED TO 12% CO ₂	mg/Nm ³	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	42.5
7	CONCENTRATION OF SULPHUR DIOXIDE	mg/Nm ³	IS 11255 (Part 2): 1985 (RA 2014)	274
8	CONCENTRATION OF NITROGEN DIOXIDE	mg/Nm ³	IS 11255 (Part 7): 2005 (RA 2017)	279
9	CONCENTRATION OF OXYGEN	% v/v	APHA (Air Analysis) (3 rd Edn.) Method -134	9
10	CONCENTRATION OF CARBON DIOXIDE	% v/v	APHA (Air Analysis) (3 rd Edn.) Method -134	11
11	CONCENTRATION OF CARBON MONOXIDE	% v/v	APHA (Air Analysis) (3 rd Edn.) Method -134	<0.2

The results relate only to the parameter

.....end of report



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Tanmoy Chakrabarty
Quality Manager
Authorized Signatory

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TEST REPORT STACK GAS

Customer Name : M/s. Bokaro Power Supply Company (P) Ltd.,	Report No. : G/22(03)/20
Address : Bokaro Steel City, Bokaro, Jharkhand	Report Date : 30-03-2022
	Date of Sampling : 24-03-2022
	Time of Sampling : 2:20 P.M.
	Sample Received Date : 26-03-2022
	Sample Id No. : GS/22(03)/20
Type of Sample : Stack Air	Test Start Date : 26-03-2022
Sampling Location : Boiler Unit # 6	Test End Date : 30-03-2022
A : GENERAL INFORMATION ABOUT STACK :	
1 Stack connected to : Boiler Unit # 6	C : ANALYSIS/CHARACTERISTICS OF FUEL :
2 a) Material of construction of the Stack : R.C.C.	
b) Material of construction of the Duct : M.S.	
3 a) Shape of the stack : Circular	
b) Shape of the duct : Rectangular	
4 Height of the stack :	
a) From Ground Level (M) : 180	
b) From Roof Level (M) : --	1 Emission due to : Burning of Fuel
5 Dimension of the duct :	2 Fuel used : Coal
a) Top (M) : --	3 Fuel consumption : 49 Ton/Hr
b) Bottom (M) : --	4 Calorific value (k-cal/kg) : 3500
c) Sampling Point (M) : 3.6 X 1.8	5 Sulphur content (% by wt) : 0.65
6 Height of the Sampling Port :	6 Ash content (% by wt) : 35
a) From Ground Level (M) : --	7 Air flow : --
b) From Lower Disturbing Zone (M) : --	D : STEAM GENERATION CAPACITY:
7 Whether Stack is provided with permanent Platform/Ladder : Yes	a) Rated : 260 Ton/Hr
	b) Running : --
	Load:
	a) Rated : --
	b) Running : --
	E : Pollution control device : ESP

Sl. No.	Parameters tested	Unit	Method of Test (Reference)	Result
1	TEMPERATURE OF EMISSION	deg C	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	128
2	BAROMETRIC PRESSURE	mmHg	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	755
3	VELOCITY OF GAS FLOW	M/Sec	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	16.92
4	QUANTITY OF GAS FLOW	Nm ³ /Hr.	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	282653.8
5	CONCENTRATION OF PARTICULATE MATTER	mg/Nm ³	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	67
6	PARTICULATE MATTER NORMALISED TO 12% CO ₂	mg/Nm ³	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	74.5
7	CONCENTRATION OF SULPHUR DIOXIDE	mg/Nm ³	IS 11255 (Part 2): 1985 (RA 2014)	329
8	CONCENTRATION OF NITROGEN DIOXIDE	mg/Nm ³	IS 11255 (Part 7): 2005 (RA 2017)	344
9	CONCENTRATION OF OXYGEN	% v/v	APHA (Air Analysis) (3 rd Edn.) Method -134	9.2
10	CONCENTRATION OF CARBON DIOXIDE	% v/v	APHA (Air Analysis) (3 rd Edn.) Method -134	10.8
11	CONCENTRATION OF CARBON MONOXIDE	% v/v	APHA (Air Analysis) (3 rd Edn.) Method -134	<0.2

The results relate only to the parameter

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Tanmoy Chakrabarty
Tanmoy Chakrabarty
Quality Manager
Authorized Signatory

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TEST REPORT STACK GAS

Customer Name : M/s. Bokaro Power Supply Company (P) Ltd., Address : Bokaro Steel City, Bokaro, Jharkhand Type of Sample : Stack Air Sampling Location : Boiler Unit # 8	Report No. : G/22(03)/21 Report Date : 30-03-2022 Date of Sampling : 25-03-2022 Time of Sampling : 10:45 A.M. Sample Received Date : 26-03-2022 Sample Id No. : GS/22(03)/21 Test Start Date : 26-03-2022 Test End Date : 30-03-2022
A : GENERAL INFORMATION ABOUT STACK : 1 Stack connected to : Boiler Unit # 8 2 a) Material of construction of the Stack : R.C.C. b) Material of construction of the Duct : M.S. 3 a) Shape of the stack : Circular b) Shape of the duct : Rectangular 4 Height of the stack : a) From Ground Level (M) : 180 b) From Roof Level (M) : -- 5 Dimension of the duct : a) Top (M) : -- b) Bottom (M) : -- c) Sampling Point (M) : 3.6 X 1.8 6 Height of the Sampling Port : a) From Ground Level (M) : -- b) From Lower Disturbing Zone (M) : -- 7 Whether Stack is provided with permanent Platform/Ladder : Yes	C : ANALYSIS/CHARACTERISTICS OF FUEL : 1 Emission due to : Burning of Fuel 2 Fuel used : Coal 3 Fuel consumption : 41 Ton/Hr 4 Calorific value (k-cal/kg) : 3500 5 Sulphur content (% by wt) : 0.65 6 Ash content (% by wt) : 35 7 Air flow : -- D : STEAM GENERATION CAPACITY: a) Rated : 228 Ton/Hr b) Running : -- Load: a) Rated : -- b) Running : -- E : Pollution control device : ESP

Sl. No.	Parameters tested	Unit	Method of Test (Reference)	Result
1	TEMPERATURE OF EMISSION	deg C	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	119
2	BAROMETRIC PRESSURE	mmHg	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	755
3	VELOCITY OF GAS FLOW	M/Sec	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	16.86
4	QUANTITY OF GAS FLOW	Nm ³ /Hr.	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	285147.7
5	CONCENTRATION OF PARTICULATE MATTER	mg/Nm ³	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	71
6	PARTICULATE MATTER NORMALISED TO 12% CO ₂	mg/Nm ³	IS:11255 (Part 1):1985 RA 2014 & (Part 3) 2008	77.5
7	CONCENTRATION OF SULPHUR DIOXIDE	mg/Nm ³	IS 11255 (Part 2): 1985 (RA 2014)	343
8	CONCENTRATION OF NITROGEN DIOXIDE	mg/Nm ³	IS 11255 (Part 7): 2005 (RA 2017)	348
9	CONCENTRATION OF OXYGEN	% v/v	APHA (Air Analysis) (3 rd Edn.) Method -134	9
10	CONCENTRATION OF CARBON DIOXIDE	% v/v	APHA (Air Analysis) (3 rd Edn.) Method -134	11
11	CONCENTRATION OF CARBON MONOXIDE	% v/v	APHA (Air Analysis) (3 rd Edn.) Method -134	<0.2

The results relate only to the parameter

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Tanmoy Chakrabarty
 Quality Manager
 Authorized Signatory

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TEST REPORT STACK GAS

Customer Name : M/s. Bokaro Power Supply Company (P) Ltd.,	Report No. : G/22(03)/22			
Address : Bokaro Steel City, Bokaro, Jharkhand	Report Date : 30-03-2022			
	Date of Sampling : 25-03-2022			
	Time of Sampling : 2:20 P.M.			
	Sample Received Date : 26-03-2022			
	Sample Id No. : GS/22(03)/22			
Type of Sample : Stack Air	Test Start Date : 26-03-2022			
Sampling Location : Boiler Unit # 9	Test End Date : 30-03-2022			
A : GENERAL INFORMATION ABOUT STACK :	C : ANALYSIS/CHARACTERISTICS OF FUEL :			
1 Stack connected to : Boiler Unit # 9	1 Emission due to : Burning of Fuel			
2 a) Material of construction of the Stack : R.C.C.	2 Fuel used : Coal			
b) Material of construction of the Duct : M.S.	3 Fuel consumption : 44 Ton/Hr			
3 a) Shape of the stack : Rectrangular	4 Calorific value (k-cal/kg) : 3500			
b) Shape of the duct	5 Sulphur content (% by wt) : 0.65			
4 Height of the stack :	6 Ash content (% by wt) : 35			
a) From Ground Level (M) : 180	7 Air flow : --			
b) From Roof Level (M) : --	D : STEAM GENERATION CAPACITY:			
5 Dimension of the duct :	a) Rated : 233 Ton/Hr			
a) Top (M) :	b) Running : --			
b) Bottom (M) : --	Load:			
c) Sampling : 4.5 X 2.25	a) Rated : --			
6 Height of the Sampling Port :	b) Running : --			
a) From Ground Level (M) : --	E : Pollution control device : ESP			
b) From Lower Disturbing Zone (M) : --				
7 Whether Stack is provided with permanent Platform/Ladder : Yes				
B : Result of Sampling				
Sl.	Parameters tested	Unit	Method of Test (Reference)	Result
1	TOTAL MERCURY (as Hg)	mg/NM ³	APHA 23 rd Edn. 2017 : 3112B	0.0073

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Tanmoy Chakrabarty
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TEST REPORT

AMBIENT AIR

Customer Name	: M/s. Bokaro Power Supply Company (P) Ltd.,	Report No.	: G/22(03)/23			
Address	: Bokaro Steel City, Bokaro, Jharkhand	Report Date	: 30-03-2022			
Type of Sample	: Ambient Air	Sampling Date	: 23-24/03/2022			
Sampling Location	: Near ESP Control Room	Sample Received Date	: 26-03-2022			
		Sample Id No.	: GA/22(03)/23			
		Test Start Date	: 26-03-2022			
		Test End Date	: 30-03-2022			
: Environmental Condition : Clear						
Average Temperature (°C) : 32		Average Relative Humidity (%) : 71				
		Barometric Pressure (mm Hg) : 755				
Sl. No.	Parameters	Unit	Standard	Result	Standard Ref. Methods	Time Weighted Average
1	Particulate Matter ₁₀ (PM ₁₀)	(µg/m ³)	100	61.3	IS:5182 (Part-23):2006 (RA 2017)	24 Hours
2	Particulate Matter _{2.5} (PM _{2.5})	(µg/m ³)	60	42.5	In house method SOP No. SOP/02/02, Issue No. 02 Dated. 02/04/2015 (prepared based on CPCB Guidelines)	24 Hours
3	Sulphur Di-Oxides (SO ₂)	(µg/m ³)	80	20.0	IS:5182 (Part-2):2001 (RA 2017)	24 Hours
4	Nitrogen Di-Oxides (NO ₂)	(µg/m ³)	80	41.0	IS:5182 (Part-6):2006 (RA 2017)	24 Hours

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Tanmoy Chakrabarty
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TEST REPORT

AMBIENT AIR

Customer Name	: M/s. Bokaro Power Supply Company (P) Ltd.,	Report No.	: G/22(03)/24			
Address	: Bokaro Steel City, Bokaro, Jharkhand	Report Date	: 30-03-2022			
Type of Sample	: Ambient Air	Sampling Date	: 23-24/03/2022			
Sampling Location	: Near WCTP Area	Sample Received Date	: 26-03-2022			
		Sample Id No.	: GA/22(03)/24			
		Test Start Date	: 26-03-2022			
		Test End Date	: 30-03-2022			
: Environmental Condition : Clear						
Average Temperature (°C) : 32		Average Relative Humidity (%) : 71				
		Barometric Pressure (mm Hg) : 755				
Sl. No.	Parameters	Unit	Standard	Result	Standard Ref. Methods	Time Weighted Average
1	Particulate Matter ₁₀ (PM ₁₀)	(µg/m ³)	100	63.7	IS:5182 (Part -23):2006 (RA 2017)	24 Hours
2	Particulate Matter _{2.5} (PM _{2.5})	(µg/m ³)	60	45.0	In house method SOP No. SOP/02/02, Issue No. 02 Dated. 02/04/2015 (prepared based on CPCB Guidelines)	24 Hours
3	Sulphur Di-Oxides (SO ₂)	(µg/m ³)	80	22.4	IS:5182 (Part -2):2001 (RA 2017)	24 Hours
4	Nitrogen Di-Oxides (NO ₂)	(µg/m ³)	80	36.9	IS:5182 (Part -6):2006 (RA 2017)	24 Hours

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Tanmoy Chakrabarty
 Quality Manager
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TEST REPORT

AMBIENT AIR

Customer Name	: M/s. Bokaro Power Supply Company (P) Ltd.,			Report No.	: G/22(03)/25	
Address	: Bokaro Steel City, Bokaro, Jharkhand			Report Date	: 30-03-2022	
Type of Sample	: Ambient Air			Sampling Date	: 24-25/03/2022	
Sampling Location	: Near CHP Area			Sample Received Date	: 26-03-2022	
				Sample Id No.	: GA/22(03)/25	
				Test Start Date	: 26-03-2022	
				Test End Date	: 30-03-2022	
: Environmental Condition : Clear						
Average Temperature (°C) : 31.7		Average Relative Humidity (%) : 70		Barometric Pressure (mm Hg) : 755		
Sl. No.	Parameters	Unit	Standard	Result	Standard Ref. Methods	Time Weighted Average
1	Particulate Matter ₁₀ (PM ₁₀)	(µg/m ³)	100	79.0	IS:5182 (Part -23):2006 (RA 2017)	24 Hours
2	Particulate Matter _{2.5} (PM _{2.5})	(µg/m ³)	60	54.0	In house method SOP No. SOP/02/02, Issue No. 02 Dated. 02/04/2015 (prepared based on CPCB Guidelines)	24 Hours
3	Sulphur Di-Oxides (SO ₂)	(µg/m ³)	80	24.0	IS:5182 (Part -2):2001 (RA 2017)	24 Hours
4	Nitrogen Di-Oxides (NO ₂)	(µg/m ³)	80	44.0	IS:5182 (Part -6):2006 (RA 2017)	24 Hours

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....end of report...



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Tanmoy Chakrabarti
Quality Manager
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Office & Laboratory : P-145, Bangur Avenue, Block - A, Kolkata - 700 055

Phone : 98309 47639. • E-mail : ppconsultants@awsppc.in • Web : www.awsppcenvirogroup.com



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TEST REPORT FOR NOISE MONITORING

Name of the Customer	: M/s. Bokaro Power Supply Company (P) Ltd.,				
Address	: Bokaro Steel City, Bokaro, Jharkhand				
Location of Sampling	: Near ESP Control Room	Report No.	: G/22(03)/26		
Type of Sample	: Noise	Date of Reporting	: 30-03-2022		
Date of Monitoring	: 24-03-2022	Starting Time	: 11:15 A.M.		
Sample Received Date	: 26-03-2022	Distance from the Machine	: 3.5(m)		
Interval (dt) : 60 min.	Total time : 8 hrs.	Height from Ground Level	: 1.5 (m)		
DAY TIME					
SL. NO.	SOUND LEVEL (Li) (Hourly data)	ft. = dt/T	ft. x 10 ^(Li/10)	SUM OF ft. x 10 ^(Li/10)	RESULT dB(A)
1	72.1	0.1	2027262.621699	21711142.529684	Leq = 73.37
2	74.2	0.1	3287834.989869		
3	70.8	0.1	1502830.543272		
4	73.7	0.1	2930286.019150		
5	76.2	0.1	5210867.293379		
6	71.5	0.1	1765671.930778		
7	72.3	0.1	2122804.565577		
8	73.6	0.1	2863584.565960		
results relate only to the parameters tested.				end of report.....
Limit in 90 dB(A) Leq (8 hrs./day Exposure)					



Tanmoy Chakrabarty
Tanmoy Chakrabarty
Quality Manager

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TEST REPORT FOR NOISE MONITORING

Name of the Customer	: M/s. Bokaro Power Supply Company (P) Ltd.,				
Address	: Bokaro Steel City, Bokaro, Jharkhand				
Location of Sampling	: Turbine Area	Report No.	: G/22(03)/29		
Type of Sample	: Noise	Date of Reporting	: 30-03-2022		
Date of Monitoring	: 25-03-2022	Starting Time	: 02:35 P.M.		
Sample Received Date	: 26-03-2022	Distance from the Machine	: 3.5(m)		
Interval (dt) : 60 min.	Total time : 8 hrs.	Height from Ground Level	: 1.5 (m)		
DAY TIME					
SL. NO.	SOUND LEVEL (Li) (Hourly data)	ft. = dt/T	ft. x 10 ⁴ (Li/10)	SUM OF ft. x 10 ⁴ (Li/10)	RESULT dB(A)
1	93.3	0.125000	267245261.187780	1471969712.322490	Leq = 91.68
2	92.5	0.125000	222284926.254865		
3	91.8	0.125000	189195156.054526		
4	89.7	0.125000	116656787.599624		
5	92.6	0.125000	227462607.326248		
6	90.5	0.125000	140252306.787746		
7	90.5	0.125000	140252306.787746		
8	91.3	0.125000	168620360.323956		
results relate only to the parameters tested.				end of report.....
Limit in 90 dB(A) Leq (8 hrs./day Exposure)					



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Tanmoy Chakrabarty
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TEST REPORT FOR NOISE MONITORING

Name of the Customer	: M/s. Bokaro Power Supply Company (P) Ltd.,		Report No.	: G/22(02)/28
Address	: Bokaro Steel City, Bokaro, Jharkhand		Date of Reporting	: 30-03-2022
Location of Sampling	: Near Admn. Building		Starting Time	: 10:40 A.M.
Type of Sample	: Noise		Distance from the Machine	: 3.5(m)
Date of Monitoring	: 25-03-2022		Height from Ground Level	: 1.5 (m)
Sample Received Date	: 26-03-2022			
Interval (dt) : 60 min.		Total time : 8 hrs.		
DAY TIME				
SL. NO.	SOUND LEVEL (Li) (Hourly data)	ft. = dt/T	ft. x 10 ^(Li/10)	SUM OF ft. x 10 ^(Li/10)
1	55.2	0.125000	41391.390185	244559.309778
2	53.3	0.125000	26724.526119	
3	52.9	0.125000	24373.057497	
4	51.7	0.125000	18488.854852	
5	52.8	0.125000	23818.258975	
6	56.8	0.125000	59828.761540	
7	52.8	0.125000	23818.258975	
8	53.2	0.125000	26116.201636	
results relate only to the parameters tested.				Leq = 53.88
Limit in 90 dB(A) Leq (8 hrs./day Exposure)			end of report.....



Tanmoy Chakrabarty
Tanmoy Chakrabarty
 Quality Manager
 Authorised Signatory

For Pollution And Project Consultants

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Office & Laboratory : P-145, Bangur Avenue, Block - A, Kolkata - 700 055

Phone : 98309 47639 • E-mail : ppconsultants@awsppc.in • Web : www.awsppcenvirogroup.com



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TEST REPORT FOR NOISE MONITORING

Name of the Customer	: M/s. Bokaro Power Supply Company (P) Ltd.,		Report No.	: G/22(03)/29
Address	: Bokaro Steel City, Bokaro, Jharkhand		Date of Reporting	: 30-03-2022
Location of Sampling	: Turbine Area		Starting Time	: 02:35 P.M.
Type of Sample	: Noise		Distance from the Machine	: 3.5(m)
Date of Monitoring	: 25-03-2022		Height from Ground Level	: 1.5 (m)
Sample Received Date	: 26-03-2022			
Interval (dt) : 60 min.		Total time : 8 hrs.		
DAY TIME				
SL. NO.	SOUND LEVEL (Li) (Hourly data)	ft. = dt/T	ft. x 10 ^{^(Li/10)}	RESULT dB(A)
1	93.3	0.125000	267245261.187780	1471969712.322490 Leq = 91.68
2	92.5	0.125000	222284926.254865	
3	91.8	0.125000	189195156.054526	
4	89.7	0.125000	116656787.599624	
5	92.6	0.125000	227462607.326248	
6	90.5	0.125000	140252306.787746	
7	90.5	0.125000	140252306.787746	
8	91.3	0.125000	168620360.323956	
results relate only to the parameters tested.			end of report.....
Limit in 90 dB(A) Leq (8 hrs./day Exposure)				



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TEST REPORT

Water Sample

Customer Name : M/s. Bokaro Power Supply Company (P) Ltd., Address : Bokaro Steel City, Bokaro, Jharkhand	Report No. : W/22(03)/18 Report Date : 30-03-2022 Sampling Date : 25-03-2022 Sample Received Date : 26-03-2022 Sample Id No. : E/18A/2022 Test Start Date : 26-03-2022 Test End Date : 30-03-2022			
Type of Sample : Effluent Water Sampling Location : Water Chemical Treatment Plant				
SL. No.	Chemical Test Parameter	Unit	Results	Methods of Test (Reference)
1	Temperature (Collection Time)	°C	22.0	APHA (23 rd Edition) 2550 B : 2017
2	pH	--	7.73	APHA (23 rd Edition) 4500 H+B:2017
3	Total Suspended Solid (as TSS)	mg/l	53.0	APHA (23 rd Edition) 2540 D:2017
4	Chemical Oxygen Demand (as COD)	mg/l	44.0	APHA (23 rd Edition) 5220 B:2017
5	Bio-Chemical Oxygen Demand (as BOD)	mg/l	18.0	IS 3025 (Part 44): 1993 (RA 2014)
6	Oil & Grease	mg/l	<5.0	APHA (23 rd Edition) 5520 B:2017

The results relate only to the parameters tested.

....end of report...



Tanmoy Chakrabarty
Tanmoy Chakrabarty
Quality Manager
Authorized Signatory
For Pollution and Project Consultants

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