BALCO/ENV/A-02(A)/2026/433

Date: 11.11.2026

To,
The Integrated Regional Office (IRO),
Ministry of Environment, Forest & Climate Change,
Aranya Bhawan,
North Block, Sector-19,
Nava Raipur, Atal Nagar (CG) 492002.

Sub: Half yearly compliance status (April 2026 to September 2026) for Alumina refinery and Aluminium Smelter Plant (Potline-1)- BALCO, Korba (CG).

Respected Sir,

Please find enclosed herewith, the half yearly compliance report of the Environmental Clearance No. J-11011/34/2003-IA II (I) dated 05.11.2003 for Alumina refinery and Aluminium smelter plant of Bharat Aluminium Company Limited.

We hope that the above is in line with the referred Environmental Clearance. In case you require any further information, we will be glad to furnish the same.

Yours truly,
On behalf of Bharat Aluminum Company Ltd.

(Authorized Signatory)

Encl: a/a

Copy to: The Regional Officer, Chhattisgarh Environment Conservation Board, Korba.

COMPLIANCE STATUS OF EXPANSION OF ALUMINA REFINERY AND ALUMINIUM SMELTER PLANT BY M/s BHARAT ALUMINIUM COMPANY LIMITED (BALCO) AT KORBA,(C.G.)

No. J-11011/34/2003-IA II (I) MOEF – 5 Nov. 2003

Duration: April 2026 to September 2026

A. SPECIFIC CONDITION

Sl. No	Conditions	Compliance status
i	The gaseous emissions from various process units should confirm to the standard prescribed from time to time. The State board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry, its size and location. At no time the emission level should go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit should not be restarted until the control measures are rectified to achieve the desired efficiency. Ambient air quality monitoring stations should be set up in consultation with the Chhattisgarh Environment Conservation Board. Data should be regularly monitored, and records maintained, and report submitted to the Ministry/CPCB/CECB once in six months.	The gaseous emissions from various process units are within the prescribed standard. CEMS has been installed in the stacks of all units and connected with CPCB and CECB servers for real-time continuous data monitoring. Ambient air quality monitoring stations have been set up in consultation with the Chhattisgarh Environment Conservation Board (CECB) and data is regularly monitored and records are maintained. Reports are submitted to CECB every month and to the Ministry/CPCB once every six months. (Copy of stack emission reports are attached as **Annexure–I** and copy of ambient air quality reports are attached as **Annexure– II).**
Ii	There should be no discharge of process effluent as reflected in the EIA/EMP report. The proposed refinery and smelter plant shall be designed for zero discharge. In addition, efforts shall be made to reuse wastewater from the existing plant. The domestic wastewater after treatment in Sewage Treatment Plant should be used for green belt development.	The process wastewater generated from the smelter plant is being treated in ETP and recycled back into the system. The domestic wastewater is treated in Sewage Treatment Plant and the treated water is being used for Horticulture/ Greenbelt development purposes.
Iii	In plant control measures for checking fugitive emission from spillage/ raw materials handling should be provided. Fluoride emissions should be monitored from the existing pot room, proposed pot and in the forage around the smelter complex. Further, a dry scrubbing system to control the emissions from the pot lines should be provided. The fluoride emissions shall not exceed 0.8 Kg/t of aluminium produced.	A fume treatment plant along with proper pot hoods is in place to check fugitive emissions. Fluoride emissions from pot rooms and forage fluoride around the smelter complex are monitored regularly. Dry scrubbing system has been provided in the Pre-baked Smelter. Fluoride emissions are well within the norms of 0.8 kg/t of Aluminium produced.

Sensitivity: Internal (C3)

Iv	The particulate emissions from the new calciner shall be controlled by installation of electrostatic precipitator. The particulate emissions shall not exceed 150 mg/Nm^3. All the boiler stacks shall be provided with stack height as per the CPCB guidelines. The boiler and calciner stacks should be equipped with continuous monitoring devise to check SPM emission levels. The Nox emission from boiler and calciner stacks shall be less than 50 ppm as guaranteed by the manufacturers. Low Nox burners should be installed to control the NOx emissions.	The Alumina plant operation has been stopped since September 2009 and we have submitted the letter of intimation for the same to CECB via letter no. No. Kb/Safety/2013/112.
V	The poly-aromatic hydrocarbons from the carbon plant (anode bake oven) should not exceed 2 mg/Nm^3.	The poly-aromatic hydrocarbons from the carbon plant (anode bake oven) is within the mentioned limit.
vi	The company should adopt a dry disposal (High concentration slurry disposal) system for red mud disposal. The ground water quality should be monitored around the red mud ponds by providing piezometric holes.	The Alumina plant operation has been stopped since September 2009 and we have submitted the letter of intimation for the same to CECB via letter no. No. Kb/Safety/2013/112. The existing red mud ponds have been converted into ash dyke for disposal of fly ash generated from power plants as per approval granted in Environment Clearances received for BALCO Power plants. Ground water quality is being monitored regularly around these ponds/dyke and copy of monitoring reports are submitted to CECB.
vii	The spent pot lining generated from the smelter should be utilized for cement/steel manufacturing, alternatively to be disposed off in a secured landfill constructed as per the design of CPCB. The location of the landfill site should be approved by the Chhattisgarh Environment Conservation Board.	Spent Pot Lining (SPL) generated from the Smelter is utilized and disposed of as per the Hazardous Waste Authorization granted by CECB. Captive SLF for storage of Hazardous Waste is approved by the CECB as per Hazardous and Other Wastes' (Management and Transboundary Movement) Rules 2016.
viii	A green belt of adequate width and density should be developed in an area of 90 acre within and around the plant premises as per the CPCB guidelines.	Extensive tree plantation is being carried out every year in all open spaces available in and around the BALCO Plant including ash dyke and township. Approximate ~77,000 saplings were planted under GAP plantation and CSR in the year 2025-26.

Sensitivity: Internal (C3)

ix	Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	Regular PME of employees is being conducted and records are maintained as per the Factories Act.
x	All the recommendations of the Charter for Corporate Responsibility for Environment Protection (CREP) for the Aluminium sector should be strictly implemented.	The compliance status of the recommendations made in the Charter on Corporate Responsibility for Environmental Protection (CREP) is attached as **Annexure – III.**
General Conditions		
i	The project authorities must strictly adhere to the stipulation made by the Chhattisgarh Environment Conservation Board and the State Government.	Complied with.
ii	No further expansion or modifications in the plant should be carried out without prior approval of the Ministry of Environment and Forests.	No further expansion or modifications in the plant is carried out without prior approval of the Ministry of Environment and Forests.
iii	Adequate ambient air quality-monitoring stations should be established in the downward direction as well as where maximum ground level concentration of SPM, SO2 and NOx are anticipated in consultation with the State Pollution Control Board. Data on ambient air quality, fugitive emission and stack emissions should be regularly submitted to this ministry including its Regional Office at Bhopal and the State Pollution Control Board/Central Pollution Control Board once in six months.	Ambient air quality monitoring stations have been established in consultation with Chhattisgarh Environment Conservation Board. The data of stack emission monitoring (**Annexure–I)** and ambient air quality monitoring (**Annexure–II)** are being submitted to MoEFCC/CECB on regular basis.
iv	Industrial wastewater should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 December, 1993 or as amended from time to time. The treated wastewater should be utilized for plantation purpose.	Industrial wastewater generated from Smelter is collected and treated in the ETP with RO system and the treated water is reused/recycled in the plant.
v	The overall noise levels in and around the plant area should be kept well within the standards (85 dBA) by providing noise control measured including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under Rules, 1989 viz. 75 dBA (Day time) and 70 dBA (Nighttime).	Noise prone equipment has been provided with acoustic enclosures and noise level kept below 85 dBA. Moreover, noise level is being regularly monitored and personal protective equipment like earplugs and earmuffs have been provided to people working in high noise prone areas. The ambient noise is also being monitored regularly, and all records observed well within the norms.

Sensitivity: Internal (C3)

vi	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further the company must undertake socio-economic development-activities in the surrounding villages like community development programs, educational programs, drinking water supply and health care etc.	All environmental protection measures have been implemented. Socio-economic developmental projects like setting up regular Health Camps and Cancer Hospital, watershed development, upgradation of schools, Mother-Child Care programs have been taken up.
vii	The project authorities will provide adequate funds both recurring and non-recurring to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purposes.	Separate funds are allocated for the implementation of environmental protection measures and not diverted for any other use.
viii	The Regional Office of this Ministry at Bhopal/Central pollution Control Board/State Pollution Control Board will monitor stipulated conditions. A six monthly compliance report and the monitored data along with Statistical interpretation should be submitted to them regularly.	Complied with. Last report was submitted vide: Letter No. BALCO/ENV/A-02(A)/2026/207 Dated 15th May 2026.
ix	The project proponent should inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the State Pollution Control Board/ Committee and may also be seen at Website of the Ministry of Environment and Forests at http:/envfor.nic.in. ; This should be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office.	Complied with. We had advertised in three newspapers. Please refer to **Annexure–IV.**
x	The Project Authorities should inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	The expansion project was approved by MoEFCC vide EC letter No. J-11011/34/2003-IA-II (I) MoEF dated 05.11.2003 and Consent to Establish vide letter No. 4332/TS/CECB/2003 dated 25.11.2003. We have commenced the land development work as per the Consent to

Sensitivity: Internal (C3)

		Establish and final approval i.e. Consent to Operate vide letter No. 121/TS/CECB/2005 dated 06.01.2005 and letter No. 123/TS/CECB/2005 dated 06.01.2005 .
3.0	The Ministry may revoke or suspend the clearance if implementation of any of the above conditions is not satisfactory.	Noted
4.0	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner will implement these conditions	Noted
5.0	The above conditions will be forced, 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, Hazardous Wastes (Management and Handling) Rules, 1989/2003 and the Public Liability insurance Act, 1991 along with their amendments and rules.	Noted

Sensitivity: Internal (C3)

Annexure-I

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ISSUED TO: **M/s. Bharat Aluminium Company Limited** **KORBA (C.G.)**	Report No:	VLL/VLS/26-27/02504/PL-1
	Issue Date:	2026-05-05
	P.O No:	3402001553
	P.O Date:	2025-10-01

Sample Particular:- STACK EMISSION MONITORING AT POTLINE - 1

Analysis starting date :- 2026-04-20 **Analysis Completion date :- 2026-04-27**

Test Required :- PM, Particulate Fluoride, Gaseous Fluoride, Total Fluoride;

TEST RESULTS

POTLINE - 1					POTLINE - 1 FTP - 1	POTLINE - 1 FTP - 2	POTLINE - 1 FTP - 3	POTLINE - 1 FTP - 4	Method
S No.	Location	Parameter	Limits (Max)	Units	2026-04-25	2026-04-18	2026-04-18	2026-04-25	
1	POTLINE - 1	Height of the stack	-	m	80	80	80	80	-
2		Diameter	-	m	6.7	6.7	6.7	6.7	-
3		Area of Cross section	-	m^2	35.271	35.271	35.271	35.271	-
4		Stack Temperature	-	°C	125	111	109	115	-
5		Stack Pressure	-	mmHg	727	728	726	728	-
6		Velocity	-	m/s	8.8	9.7	9.6	9.9	USEPA M-2
7		Volumetric Flow Rate	-	Nm^3/Hr	800301	915569	908372	924814	
8		Particulate Matter (PM)	30	mg/Nm^3	8.40	5.20	9.60	6.20	USEPA M-5
9		Particulate Fluoride	0.65	mg/Nm^3	0.078	0.080	0.138	0.081	USEPA M-13B
10		Gaseous Fluoride	-	mg/Nm^3	0.357	0.453	0.415	0.386	
11		Total Fluoride as F	0.8	kg/ton of Al	0.045	0.061	0.066	0.056	

***Instrument Used - Vayubodhan Stack Sampler Kit**

***ND – Not Deducted**

***USD – Unit Under Shut Down**

***PM & TF limit as per the CTO No. 7398/TS/CECB/2025**

ENVIRONMENT LABORATORY Vimta VIMTA LABS REGD. No- DL 33004/99 Sr. No.-5 VIMTA

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Manager - Environment

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ISSUED TO:		
M/s. Bharat Aluminium Company Limited	Report No:	VLL/VLS/26-27/02504/GAP-1
KORBA (C.G.)	Issue Date:	2026-05-05
	P.O No:	3402001553
	P.O Date:	2025-10-01

Sample Particular:- STACK EMISSION MONITORING AT GAP - 1

Analysis starting date :- 2026-04-16 **Analysis Completion date :- 2026-04-16**

Test Required :- PM;

TEST RESULTS

GAP - 1					GAP - 1 D 6	GAP - 1 D 7	GAP - 1 D 8	GAP - 1 D 9	Method
S No.	Location	Parameter	Limits (Max)	Units	2026-04-15	2026-04-15	2026-04-15	2026-04-15	
1	GAP - 1	Height of the stack	-	m	60	60	60	60	-
2		Diameter	-	m	1.8	0.36	0.36	1.8	-
3		Area of Cross section	-	m^2	2.546	0.102	0.102	2.546	-
4		Stack Temperature	-	°C	49	61	46	69	-
5		Stack Pressure	-	mmHg	732	732	732	730	-
6		Velocity	-	m/s	8.7	4.8	6.3	8.4	USEPA M-2
7		Volumetric Flow Rate	-	Nm^3/Hr	71078	1515	2081	64438	
8		Particulate Matter (PM)	30	mg/Nm^3	10.3	8.2	6.9	11.3	USEPA M-5

***Instrument Used - Vayubodhan Stack Sampler Kit**

***ND – Not Deducted**

***USD – Unit Under Shut Down**

***PM limit as per the CTO No. 7397/TS/CECB/2025**

ENVIRONMENT LABORATORY VIMTA LABS REGD. No- DL 3300/99

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ISSUED TO:	Report No:	VLL/VLS/26-27/02504/BO
M/s. Bharat Aluminium Company Limited	Issue Date:	2026-05-05
KORBA (C.G.)	P.O No:	3402001553
	P.O Date:	2025-10-01

Sample Particular:- STACK EMISSION MONITORING AT BAKE OVEN PLANT

Analysis starting date :- 2026-04-13 **Analysis Completion date :- 2026-05-04**

Test Required :- PM, TF, SO_2, PAH;

TEST RESULTS

BAKE OVEN PLANT					Bake Oven FTP - 1	Bake Oven FTP - 2	Bake Oven FTP - 3	Method
S No.	Location	Parameter	Limits (Max)	Units	2026-04-22	2026-04-28	2026-04-11	
1	BAKE OVEN PLANT	Height of the stack	-	m	55	55	55	-
2		Diameter	-	m	1.2	1.9	3.2	-
3		Area of Cross section	-	m^2	1.131	2.836	8.05	-
4		Stack Temperature	-	°C	102	95	72	-
5		Stack Pressure	-	mmHg	728	726	732	-
6		Velocity	-	m/s	14.7	8.8	5.9	USEPA M-2
7		Volumetric Flow Rate	-	Nm^3/Hr	45560	69500	142248	
8		Particulate Matter (PM)	30	mg/Nm^3	6.0	11.9	11.0	USEPA M-5
9		Total Fluoride as F	0.3	kg/ton of Al	0.003	0.008	0.021	USEPA M-13B
10		Sulphur Dioxide as SO_2	-	mg/Nm^3	287.2	261.0	225.9	Measured by Portable Combustion Analyser
11		PAH	2	mg/Nm^3	0.015	0.017	0.014	CARB 429

***Instrument Used - Vayubodhan Stack Sampler Kit**

***ND – Not Deducted**

***USD – Unit Under Shut Down**

***PM & TF limit as per the CTE No. 7398/TS/CECB/2025**

ENVIRONMENT LABORATORY Vimta VIMTA LABS REGD. No- DL 3300/90 Sr. No.-5

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ISSUED TO:
M/s. Bharat Aluminium Company Limited
KORBA (C.G.)

Report No:	VLL/VLS/26-27/05017/PL-1
Issue Date:	2026-06-04
P.O No:	3402001553
P.O Date:	2025-10-01

Sample Particular:- STACK EMISSION MONITORING AT POTLINE - 1

Analysis starting date :- 2026-05-15

Analysis Completion date :- 2026-05-30

Test Required :- PM, Particulate Fluoride, Gaseous Fluoride, Total Fluoride;

TEST RESULTS

POTLINE - 1					POTLINE - 1 FTP - 1	POTLINE - 1 FTP - 2	POTLINE - 1 FTP - 3	POTLINE - 1 FTP - 4	Method
S No.	Location	Parameter	Limits (Max)	Units	2026-05-14	2026-05-29	2026-05-29	2026-05-26	
1	POTLINE - 1	Height of the stack	-	m	80	80	80	80	-
2		Diameter	-	m	6.7	6.7	6.7	6.7	-
3		Area of Cross section	-	m^2	35.271	35.271	35.271	35.271	-
4		Stack Temperature	-	°C	102	113	107	112	-
5		Stack Pressure	-	mmHg	726	726	726	724	-
6		Velocity	-	m/s	9.3	9.6	9.6	10.2	USEPA M-2
7		Volumetric Flow Rate	-	Nm^3/Hr	896412	898959	913153	954987	
8		Particulate Matter (PM)	30	mg/Nm^3	3.79	3.76	4.34	4.29	USEPA M-5
9		Particulate Fluoride	0.65	mg/Nm^3	0.127	0.096	0.083	0.108	USEPA M-13B
10		Gaseous Fluoride	-	mg/Nm^3	0.416	0.364	0.431	0.345	
11		Total Fluoride as F	0.8	kg/ton of Al	0.063	0.054	0.061	0.057	

***Instrument Used - Vayubodhan Stack Sampler Kit**

***ND – Not Deducted**

***USD – Unit Under Shut Down**

***PM & TF limit as per the CTO No. 7398/TS/CECB/2025**

Vimta REGD. No- DL 3300/99 VIMTA

Dr. Subba Reddy Mallampati
Manager - Environment

Sensitivity: Internal (C3)

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ISSUED TO: M/s. Bharat Aluminium Company Limited KORBA (C.G.)	Report No:	VLL/VLS/26-27/05017/GAP-1
	Issue Date:	2026-06-04
	P.O No:	3402001553
	P.O Date:	2025-10-01

Sample Particular:- STACK EMISSION MONITORING AT GAP - 1

Analysis starting date :- 2026-05-19

Analysis Completion date :- 2026-05-19

Test Required :- PM;

TEST RESULTS

GAP - 1					GAP - 1 D 6	GAP - 1 D 7	GAP - 1 D 8	GAP - 1 D 9	Method
S No.	Location	Parameter	Limits (Max)	Units	2026-05-18	2026-05-18	2026-05-18	2026-05-18	
1	GAP - 1	Height of the stack	-	m	60	60	60	60	-
2		Diameter	-	m	1.8	0.36	0.36	1.8	-
3		Area of Cross section	-	m^2	2.546	0.102	0.102	2.546	-
4		Stack Temperature	-	°C	50	66	53	70	-
5		Stack Pressure	-	mmHg	726	726	726	725	-
6		Velocity	-	m/s	8.7	6.5	6.7	6.9	USEPA M-2
7		Volumetric Flow Rate	-	Nm^3/Hr	70278	2004	2148	52415	
8		Particulate Matter (PM)	30	mg/Nm^3	7.1	5.8	9.4	12.3	USEPA M-5

*Instrument Used - Vayubodhan Stack Sampler Kit

*ND – Not Deducted

*USD – Unit Under Shut Down

*PM limit as per the CTO No. 7397/TS/CECB/2025

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ISSUED TO:		
M/s. Bharat Aluminium Company Limited	Report No:	VLL/VLS/26-27/05017/BO
KORBA (C.G.)	Issue Date:	2026-06-04
	P.O No:	3402001553
	P.O Date:	2025-10-01

Sample Particular:- STACK EMISSION MONITORING AT BAKE OVEN PLANT

Analysis starting date :- 2026-05-22 **Analysis Completion date :- 2026-06-03**

Test Required :- PM, TF, SO_2, PAH;

TEST RESULTS

BAKE OVEN PLANT					Bake Oven FTP - 1	Bake Oven FTP - 2	Bake Oven FTP - 3	Method
S No.	Location	Parameter	Limits (Max)	Units	2026-05-21	2026-05-21	2026-05-26	
1	BAKE OVEN PLANT	Height of the stack	-	m	55	55	55	-
2		Diameter	-	m	1.2	1.9	3.2	-
3		Area of Cross section	-	m^2	1.131	2.836	8.05	-
4		Stack Temperature	-	°C	97	89	80	-
5		Stack Pressure	-	mmHg	725	724	724	-
6		Velocity	-	m/s	10.7	8.7	6.1	USEPA M-2
7		Volumetric Flow Rate	-	Nm^3/Hr	33472	69656	142166	
8		Particulate Matter (PM)	30	mg/Nm^3	6.8	8.8	8.4	USEPA M-5
9		Total Fluoride as F	0.3	kg/ton of Al	0.005	0.007	0.018	USEPA M-13B
10		Sulphur Dioxide as SO_2	-	mg/Nm^3	225.9	194.5	217.4	Measured by Portable Combustion Analyser
11		PAH	2	mg/Nm^3	0.018	0.013	0.011	CARB 429

***Instrument Used - Vayubodhan Stack Sampler Kit**

***ND – Not Deducted**

***USD – Unit Under Shut Down**

***PM & TF limit as per the CTE No. 7398/TS/CECB/2025**

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ISSUED TO:	Report No:	VLL/VLS/26-27/07623/PL-1
M/s. Bharat Aluminium Company Limited	Issue Date:	2026-07-04
KORBA (C.G.)	P.O No:	3402001553
	P.O Date:	2025-10-01

Sample Particular:- STACK EMISSION MONITORING AT POTLINE - 1

Analysis starting date :- 2026-06-12 **Analysis Completion date :- 2026-06-24**

Test Required :- PM, Particulate Fluoride, Gaseous Fluoride, Total Fluoride;

TEST RESULTS

POTLINE - 1					POTLINE - 1 FTP - 1	POTLINE - 1 FTP - 2	POTLINE - 1 FTP - 3	POTLINE - 1 FTP - 4	Method
S No.	Location	Parameter	Limits (Max)	Units	2026-06-11	2026-06-19	2026-06-19	2026-06-11	
1	POTLINE - 1	Height of the stack	-	m	80	80	80	80	-
2		Diameter	-	m	6.7	6.7	6.7	6.7	-
3		Area of Cross section	-	m^2	35.271	35.271	35.271	35.271	-
4		Stack Temperature	-	°C	106	103	105	108	-
5		Stack Pressure	-	mmHg	725	727	727	725	-
6		Velocity	-	m/s	10.3	9.3	9.5	10.3	USEPA M-2
7		Volumetric Flow Rate	-	Nm^3/Hr	980969	895260	909674	975820	
8		Particulate Matter (PM)	30	mg/Nm^3	4.63	3.54	3.26	2.31	USEPA M-5
9		Particulate Fluoride	0.65	mg/Nm^3	0.084	0.119	0.105	0.078	USEPA M-13B
10		Gaseous Fluoride	-	mg/Nm^3	0.297	0.321	0.303	0.262	
11		Total Fluoride as F	0.8	kg/ton of Al	0.049	0.052	0.048	0.043	

***Instrument Used - Vayubodhan Stack Sampler Kit**

***ND – Not Deducted**

***USD – Unit Under Shut Down**

***PM & TF limit as per the CTO No. 7398/TS/CECB/2025**

ENVIRONMENT LABORATORY Vimta VIMTA LABS Sr. No.-5 VIMTA

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ISSUED TO:		
M/s. Bharat Aluminium Company Limited	Report No:	VLL/VLS/26-27/07623/GAP-1
KORBA (C.G.)	Issue Date:	2026-07-04
	P.O No:	3402001553
	P.O Date:	2025-10-01

Sample Particular:- STACK EMISSION MONITORING AT GAP - 1

Analysis starting date :- 2026-06-13 **Analysis Completion date :- 2026-06-13**

Test Required :- PM;

TEST RESULTS

GAP - 1					GAP - 1 D 6	GAP - 1 D 7	GAP - 1 D 8	GAP - 1 D 9	Method
S No.	**Location**	**Parameter**	**Limits (Max)**	**Units**	**2026-06-12**	**2026-06-12**	**2026-06-12**	**2026-06-12**	
1	GAP - 1	Height of the stack	-	m	60	60	60	60	-
2		Diameter	-	m	1.8	0.36	0.36	1.8	-
3		Area of Cross section	-	m^2	2.546	0.102	0.102	2.546	-
4		Stack Temperature	-	°C	52	64	45	68	-
5		Stack Pressure	-	mmHg	729	726	727	727	-
6		Velocity	-	m/s	8.0	6.7	5.9	7.7	USEPA M-2
7		Volumetric Flow Rate	-	Nm^3/Hr	64491	2078	1942	58998	
8		Particulate Matter (PM)	30	mg/Nm^3	11.7	10.4	5.6	8.2	USEPA M-5

***Instrument Used - Vayubodhan Stack Sampler Kit**

***ND – Not Deducted**

***USD – Unit Under Shut Down**

***PM limit as per the CTO No. 7397/TS/CECB/2025**

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ISSUED TO:		
M/s. Bharat Aluminium Company Limited	Report No:	VLL/VLS/26-27/07623/BO
KORBA (C.G.)	Issue Date:	2026-07-04
	P.O No:	3402001553
	P.O Date:	2025-10-01

Sample Particular:- STACK EMISSION MONITORING AT BAKE OVEN PLANT

Analysis starting date :- 2026-06-16 **Analysis Completion date :- 2026-06-27**

Test Required :- PM, TF, SO_2, PAH;

TEST RESULTS

BAKE OVEN PLANT					Bake Oven FTP - 1	Bake Oven FTP - 2	Bake Oven FTP - 3	Method
S No.	**Location**	**Parameter**	**Limits (Max)**	**Units**	**2026-06-20**	**2026-06-20**	**2026-06-15**	
1	BAKE OVEN PLANT	Height of the stack	-	m	55	55	55	-
2		Diameter	-	m	1.2	1.9	3.2	-
3		Area of Cross section	-	m^2	1.131	2.836	8.05	-
4		Stack Temperature	-	°C	103	89	75	-
5		Stack Pressure	-	mmHg	730	726	727	-
6		Velocity	-	m/s	14.8	8.2	7.3	USEPA M-2
7		Volumetric Flow Rate	-	Nm^3/Hr	45874	65834	173292	
8		Particulate Matter (PM)	30	mg/Nm^3	7.0	6.1	7.1	USEPA M-5
9		Total Fluoride as F	0.3	kg/ton of Al	0.013	0.007	0.021	USEPA M-13B
10		Sulphur Dioxide as SO_2	-	mg/Nm^3	230.0	274.8	289.3	Measured by Portable Combustion Analyser
11		PAH	2	mg/Nm^3	0.014	0.012	0.016	CARB 429

***Instrument Used - Vayubodhan Stack Sampler Kit**

***ND – Not Deducted**

***USD – Unit Under Shut Down**

***PM & TF limit as per the CTE No. 7398/TS/CECB/2025**

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ISSUED TO:		
M/s. Bharat Aluminium Company Limited	Report No:	VLL/VLS/26-27/10232/PL-1
KORBA (C.G.)	Issue Date:	2026-08-05
	P.O No:	3402001553
	P.O Date:	2025-10-01

Sample Particular:- STACK EMISSION MONITORING AT POTLINE - 1

Analysis starting date :- 2026-07-13 **Analysis Completion date :- 2026-07-25**

Test Required :- PM, Particulate Fluoride, Gaseous Fluoride, Total Fluoride as F;

TEST RESULTS

POTLINE - 1					POTLINE - 1 FTP - 1	POTLINE - 1 FTP - 2	POTLINE - 1 FTP - 3	POTLINE - 1 FTP - 4	Method
S No.	Location	Parameter	Limits (Max)	Units	2026-07-23	2026-07-11	2026-07-23	2026-07-11	
1	POTLINE - 1	Height of the stack	-	m	80	80	80	80	-
2		Diameter	-	m	6.7	6.7	6.7	6.7	-
3		Area of Cross section	-	m^2	35.271	35.271	35.271	35.271	-
4		Stack Temperature	-	°C	102	105	103	110	-
5		Stack Pressure	-	mmHg	726	725	726	725	-
6		Velocity	-	m/s	9.9	9.6	9.6	9.8	USEPA M-2
7		Volumetric Flow Rate	-	Nm^3/Hr	954245	916720	922868	923602	
8		Particulate Matter (PM)	30	mg/Nm^3	3.16	3.01	2.88	2.44	USEPA M-5
9		Particulate Fluoride	0.65	mg/Nm^3	0.071	0.097	0.059	0.103	USEPA M-13B
10		Gaseous Fluoride	-	mg/Nm^3	0.260	0.285	0.269	0.307	
11		Total Fluoride as F	0.8	kg/ton of Al	0.041	0.046	0.040	0.050	

***Instrument Used - Vayubodhan Stack Sampler Kit**

***ND – Not Deducted**

***USD – Unit Under Shut Down**

***PM & TF limit as per the CTO No. 7398/TS/CECB/2025**

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REGD. No- DL 33004/99
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M/s. Bharat Aluminium Company Limited	Issue Date:	2026-08-05
KORBA (C.G.)	P.O No:	3402001553
	P.O Date:	2025-10-01

Sample Particular:- STACK EMISSION MONITORING AT GAP - 1

Analysis starting date :- 2026-07-22 **Analysis Completion date :- 2026-07-22**

Test Required :- PM;

TEST RESULTS

GAP - 1					GAP - 1 D 6	GAP - 1 D 7	GAP - 1 D 8	GAP - 1 D 9	Method
S No.	Location	Parameter	Limits (Max)	Units	2026-07-21	2026-07-21	2026-07-21	2026-07-21	
1	GAP - 1	Height of the stack	-	m	60	60	60	60	-
2		Diameter	-	m	1.8	0.36	0.36	1.8	-
3		Area of Cross section	-	m^2	2.546	0.102	0.102	2.546	-
4		Stack Temperature	-	°C	44	55	40	65	-
5		Stack Pressure	-	mmHg	723	722	723	722	-
6		Velocity	-	m/s	8.2	10.7	6.5	7.1	USEPA M-2
7		Volumetric Flow Rate	-	Nm^3/Hr	67213	3391	2162	54506	
8		Particulate Matter (PM)	30	mg/Nm^3	9.3	16.2	7.1	11.3	USEPA M-5

*Instrument Used - Vayubodhan Stack Sampler Kit

*ND – Not Deducted

*USD – Unit Under Shut Down

*PM limit as per the CTO No. 7397/TS/CECB/2025

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ISSUED TO:		
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	Issue Date:	2026-08-05
	P.O No:	3402001553
	P.O Date:	2025-10-01

Sample Particular:- STACK EMISSION MONITORING AT BAKE OVEN PLANT

Analysis starting date :- 2026-07-25 **Analysis Completion date :- 2026-08-04**

Test Required :- PM, TF, SO_2, PAH;

TEST RESULTS

BAKE OVEN PLANT					Bake Oven FTP - 1	Bake Oven FTP - 2	Bake Oven FTP - 3	Method
S No.	Location	Parameter	Limits (Max)	Units	2026-07-27	2026-07-24	2026-07-28	
1	BAKE OVEN PLANT	Height of the stack	-	m	55	55	55	-
2		Diameter	-	m	1.2	1.9	3.2	-
3		Area of Cross section	-	m^2	1.131	2.836	8.05	-
4		Stack Temperature	-	°C	102	96	67	-
5		Stack Pressure	-	mmHg	723	726	720	-
6		Velocity	-	m/s	11.7	9.4	7.2	USEPA M-2
7		Volumetric Flow Rate	-	Nm^3/Hr	36013	74037	173256	
8		Particulate Matter (PM)	30	mg/Nm^3	6.2	5.4	8.3	USEPA M-5
9		Total Fluoride as F	0.3	kg/ton of Al	0.013	0.008	0.025	USEPA M-13B
10		Sulphur Dioxide as SO_2	-	mg/Nm^3	391	374	357	Measured by Portable Combustion Analyser
11		PAH	2	mg/Nm^3	0.013	0.015	0.012	CARB 429

***Instrument Used - Vayubodhan Stack Sampler Kit**

***ND – Not Deducted**

***USD – Unit Under Shut Down**

***PM & TF limit as per the CTE No. 7398/TS/CECB/2025**

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ISSUED TO:		
M/s. Bharat Aluminium Company Limited	Report No:	VLL/VLS/26-27/13104/PL-1
KORBA (C.G.)	Issue Date:	2026-09-04
	P.O No:	3402001553
	P.O Date:	2025-10-01

Sample Particular:- STACK EMISSION MONITORING AT POTLINE - 1

Analysis starting date :- 2026-08-10 **Analysis Completion date :- 2026-08-24**

Test Required :- PM, Particulate Fluoride, Gaseous Fluoride, Total Fluoride as F;

TEST RESULTS

POTLINE - 1					POTLINE - 1 FTP - 1	POTLINE - 1 FTP - 2	POTLINE - 1 FTP - 3	POTLINE - 1 FTP - 4	Method
S No.	Location	Parameter	Limits (Max)	Units	2026-08-12	2026-08-13	2026-08-21	2026-08-08	
1	POTLINE - 1	Height of the stack	-	m	80	80	80	80	-
2		Diameter	-	m	6.7	6.7	6.7	6.7	-
3		Area of Cross section	-	m^2	35.271	35.271	35.271	35.271	-
4		Stack Temperature	-	°C	105	106	103	110	-
5		Stack Pressure	-	mmHg	726	726	726	725	-
6		Velocity	-	m/s	9.9	10.3	9.4	10.0	USEPA M-2
7		Volumetric Flow Rate	-	Nm^3/Hr	946672	982322	903641	942451	
8		Particulate Matter (PM)	30	mg/Nm^3	3.70	2.72	3.03	3.14	USEPA M-5
9		Particulate Fluoride	0.65	mg/Nm^3	0.095	0.085	0.082	0.112	USEPA M-13B
10		Gaseous Fluoride	-	mg/Nm^3	0.283	0.307	0.326	0.357	
11		Total Fluoride as F	0.8	kg/ton of Al	0.047	0.051	0.048	0.058	

***Instrument Used - Vayubodhan Stack Sampler Kit**

***ND – Not Deducted**

***USD – Unit Under Shut Down**

***PM & TF limit as per the CTO No. 7398/TS/CECB/2025**

ENVIRONMENT LABORATORY VIMTA LABS REGD. No- DL 33004/99 VIMTA

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ISSUED TO:		
M/s. Bharat Aluminium Company Limited	Report No:	VLL/VLS/26-27/13104/GAP-1
KORBA (C.G.)	Issue Date:	2026-09-04
	P.O No:	3402001553
	P.O Date:	2025-10-01

Sample Particular:- STACK EMISSION MONITORING AT GAP - 1

Analysis starting date :- 2026-08-20 **Analysis Completion date :- 2026-08-20**

Test Required :- PM;

TEST RESULTS

GAP - 1					GAP - 1 D 6	GAP - 1 D 7	GAP - 1 D 8	GAP - 1 D 9	Method
S No.	**Location**	**Parameter**	**Limits (Max)**	**Units**	**2026-08-19**	**2026-08-19**	**2026-08-19**	**2026-08-19**	
1	GAP - 1	Height of the stack	-	m	60	60	60	60	-
2		Diameter	-	m	1.8	0.36	0.36	1.8	-
3		Area of Cross section	-	m^2	2.546	0.102	0.102	2.546	-
4		Stack Temperature	-	°C	68	59	41	63	-
5		Stack Pressure	-	mmHg	724	725	724	723	-
6		Velocity	-	m/s	8.6	10.7	5.7	6.5	USEPA M-2
7		Volumetric Flow Rate	-	Nm^3/Hr	65622	3364	1892	50266	
8		Particulate Matter (PM)	30	mg/Nm^3	14.2	11.8	9.8	10.3	USEPA M-5

***Instrument Used - Vayubodhan Stack Sampler Kit**

***ND – Not Deducted**

***USD – Unit Under Shut Down**

***PM limit as per the CTO No. 7397/TS/CECB/2025**

ENVIRONMENT LAB Vimta VIMTA LABS REGD. No- DL 3300/99 VIMTA

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ISSUED TO: M/s. Bharat Aluminium Company Limited KORBA (C.G.)	Report No:	VLL/VLS/26-27/13104/BO
	Issue Date:	2026-09-04
	P.O No:	3402001553
	P.O Date:	2025-10-01

Sample Particular:- STACK EMISSION MONITORING AT BAKE OVEN PLANT

Analysis starting date :- 2026-08-11 **Analysis Completion date :- 2026-09-04**

Test Required :- PM, TF, SO_2, PAH;

TEST RESULTS

BAKE OVEN PLANT					Bake Oven FTP - 1	Bake Oven FTP - 2	Bake Oven FTP - 3	Method
S No.	Location	Parameter	Limits (Max)	Units	2026-08-28	2026-08-10	2026-08-20	
1	BAKE OVEN PLANT	Height of the stack	-	m	55	55	55	-
2		Diameter	-	m	1.2	1.9	3.2	-
3		Area of Cross section	-	m^2	1.131	2.836	8.05	-
4		Stack Temperature	-	°C	99	85	69	-
5		Stack Pressure	-	mmHg	728	724	725	-
6		Velocity	-	m/s	15.3	9.1	6.8	USEPA M-2
7		Volumetric Flow Rate	-	Nm^3/Hr	47802	73673	163803	
8		Particulate Matter (PM)	30	mg/Nm^3	5.7	5.7	7.0	USEPA M-5
9		Total Fluoride as F	0.3	kg/ton of Al	0.008	0.007	0.021	USEPA M-13B
10		Sulphur Dioxide as SO_2	-	mg/Nm^3	479	443	482	Measured by Portable Combustion Analyser
11		PAH	2	mg/Nm^3	0.011	0.014	0.009	CARB 429

***Instrument Used - Vayubodhan Stack Sampler Kit**

***ND – Not Deducted**

***USD – Unit Under Shut Down**

***PM & TF limit as per the CTE No. 7398/TS/CECB/2025**

ENVIRONMENT LABORATORY VIMTA LABS VIMTA

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KORBA (C.G.)

Report No:	VLL/VLS/26-27/15382/PL-1
Issue Date:	2026-10-05
P.O No:	3402001553
P.O Date:	2025-10-01

Sample Particular:- STACK EMISSION MONITORING AT POTLINE - 1

Analysis starting date :- 2026-09-08 **Analysis Completion date :- 2026-09-28**

Test Required :- PM, Particulate Fluoride, Gaseous Fluoride, Total Fluoride as F;

TEST RESULTS

POTLINE - 1					POTLINE - 1 FTP - 1	POTLINE - 1 FTP - 2	POTLINE - 1 FTP - 3	POTLINE - 1 FTP - 4	Method
S No.	Location	Parameter	Limits (Max)	Units	2026-09-07	2026-09-22	2026-09-24	2026-09-22	
1	POTLINE - 1	Height of the stack	-	m	80	80	80	80	-
2		Diameter	-	m	6.7	6.7	6.7	6.7	-
3		Area of Cross section	-	m^2	35.271	35.271	35.271	35.271	-
4		Stack Temperature	-	°C	107	106	105	108	-
5		Stack Pressure	-	mmHg	730	728	727	728	-
6		Velocity	-	m/s	10.2	9.3	9.9	9.6	USEPA M-2
7		Volumetric Flow Rate	-	Nm^3/Hr	975571	889395	947976	913266	
8		Particulate Matter (PM)	30	mg/Nm^3	3.19	2.03	2.97	2.71	USEPA M-5
9		Particulate Fluoride	0.65	mg/Nm^3	0.081	0.060	0.093	0.092	USEPA M-13B
10		Gaseous Fluoride	-	mg/Nm^3	0.265	0.284	0.312	0.302	
11		Total Fluoride as F	0.8	kg/ton of Al	0.044	0.040	0.050	0.047	

***Instrument Used - Vayubodhan Stack Sampler Kit**

***ND – Not Deducted**

***USD – Unit Under Shut Down**

***PM & TF limit as per the CTO No. 7398/TS/CECB/2025**

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KORBA (C.G.)

Report No:	VLL/VLS/26-27/15382/GAP-1
Issue Date:	2026-10-05
P.O No:	3402001553
P.O Date:	2025-10-01

Sample Particular:- STACK EMISSION MONITORING AT GAP - 1

Analysis starting date :- 2026-09-07

Analysis Completion date :- 2026-09-07

Test Required :- PM;

TEST RESULTS

GAP - 1					GAP - 1 D 6	GAP - 1 D 7	GAP - 1 D 8	GAP - 1 D 9	Method
S No.	Location	Parameter	Limits (Max)	Units	2026-09-04	2026-09-04	2026-09-04	2026-09-04	
1	GAP - 1	Height of the stack	-	m	60	60	60	60	-
2		Diameter	-	m	1.8	0.36	0.36	1.8	-
3		Area of Cross section	-	m^2	2.546	0.102	0.102	2.546	-
4		Stack Temperature	-	°C	42	58	39	65	-
5		Stack Pressure	-	mmHg	729	729	728	727	-
6		Velocity	-	m/s	8.8	10.0	6.9	8.0	USEPA M-2
7		Volumetric Flow Rate	-	Nm^3/Hr	73192	3171	2318	61840	
8		Particulate Matter (PM)	30	mg/Nm^3	8.6	7.4	8.1	13.5	USEPA M-5

***Instrument Used - Vayubodhan Stack Sampler Kit**

***ND – Not Deducted**

***USD – Unit Under Shut Down**

***PM limit as per the CTO No. 7397/TS/CECB/2025**

ENVIRONMENT LABORATORY
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M/s. Bharat Aluminium Company Limited	Issue Date:	2026-10-05
KORBA (C.G.)	P.O No:	3402001553
	P.O Date:	2025-10-01

Sample Particular:- STACK EMISSION MONITORING AT BAKE OVEN PLANT

Analysis starting date :- 2026-09-17 **Analysis Completion date :- 2026-10-05**

Test Required :- PM, TF, SO_2, PAH;

TEST RESULTS

BAKE OVEN PLANT					Bake Oven FTP - 1	Bake Oven FTP - 2	Bake Oven FTP - 3	Method
S No.	Location	Parameter	Limits (Max)	Units	2026-09-16	2026-09-16	2026-09-28	
1	BAKE OVEN PLANT	Height of the stack	-	m	55	55	55	-
2		Diameter	-	m	1.2	1.9	3.2	-
3		Area of Cross section	-	m^2	1.131	2.836	8.05	-
4		Stack Temperature	-	°C	104	87	72	-
5		Stack Pressure	-	mmHg	732	729	729	-
6		Velocity	-	m/s	14.5	8.4	6.2	USEPA M-2
7		Volumetric Flow Rate	-	Nm^3/Hr	44947	68095	148868	
8		Particulate Matter (PM)	30	mg/Nm^3	9.7	9.4	6.8	USEPA M-5
9		Total Fluoride as F	0.3	kg/ton of Al	0.001	0.002	0.007	USEPA M-13B
10		Sulphur Dioxide as SO_2	-	mg/Nm^3	503	366	524	Measured by Portable Combustion Analyser
11		PAH	2	mg/Nm^3	0.013	0.010	0.011	CARB 429

***Instrument Used - Vayubodhan Stack Sampler Kit**

***ND – Not Deducted**

***USD – Unit Under Shut Down**

***PM & TF limit as per the CTE No. 7398/TS/CECB/2025**

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ISSUED TO:	Report No.:	VLL/VLS/26-27/02504/001
M/s. Bharat Aluminium Company Limited,	Issue Date:	2026-05-05
KORBA (C.G.)	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT PARSABHATA GATE (BALCO)

Analysis starting date :- 2026-04-03 **Analysis Completion date :- 2026-05-04**

Tests required: Sulphur Dioxide (SO_2), Nitrogen Dioxide (NOx), Particulate Matter (PM10), Particulate Matter (PM2.5), Ammonia (NH3), Benzene (C_6H_6), Benzo (a) Pyrene in particulate phase, Heavy metals in particulate phase for Arsenic, Nickel & Lead.

TEST RESULTS

Parameters	Units	Limits	AAQ Location : PARSABHATA GATE									
Sampling Date			2026-04-02	2026-04-04	2026-04-08	2026-04-10	2026-04-14	2026-04-16	2026-04-20	2026-04-22	2026-04-28	Method
Sulphur Dioxide as SO_2	µg/m³	80	37.3	28.1	38.2	35.0	33.7	29.3	39.3	26.6	27.0	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m³	80	16.1	14.7	22.7	14.7	20.7	18.9	14.8	18.5	14.7	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m³	100	57.8	55.1	63.5	58.3	47.9	59.6	62.4	58.6	54.7	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m³	60	23.3	21.8	26.7	24.0	19.5	25.3	26.8	22.7	20.9	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m³	400	3.6	2.9	2.9	3.6	2.1	1.9	3.5	2.1	1.8	APHA 3rd Edition - 401
Benzene as C_6H_6	µg/m³	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	IS 5182 (PART-11) RA 2017
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS 5182 (PART-12) RA 2019
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	USEPA IO 3.4
Nickel as Ni	ng/m³	20	3.9	5.6	4.3	7.1	4.9	5.8	4.3	6.2	5.7	USEPA IO 3.4
Lead as Pb	µg/m³	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	µg/m³	2000	105	176	168	147	172	139	120	185	142	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m³	100	3.6	5.8	2.8	14.7	8.9	6.9	3.5	5.9	3.7	IS 5182 (PART-9) RA 2019

Ø PM2.5, PM10, SO_2, NO_2 and NH_3 is monitored on 24 hrs. Basis &CO, O_3 is monitored on 8 hrs basis.

Ø C_6H_6, B (a) P & Heavy Metals (As, Ni, Pb) is monitored on 24 hrs basis.

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M/s. Bharat Aluminium Company Limited,	Issue Date:	2026-05-05
KORBA (C.G.)	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT ETP SMELTER (BALCO)

Analysis starting date :- 2026-04-03 **Analysis Completion date :- 2026-05-04**

Tests required: Sulphur Dioxide (SO_2), Nitrogen Dioxide (NOx), Particulate Matter (PM10), Particulate Matter (PM2.5), Ammonia (NH3), Benzene (C_6H_6), Benzo (a) Pyrene in particulate phase, Heavy metals in particulate phase for Arsenic, Nickel & Lead.

TEST RESULTS

Parameters	Units	Limits	AAQ Location : ETP SMELTER									
Sampling Date			**2026-04-02**	**2026-04-04**	**2026-04-08**	**2026-04-10**	**2026-04-14**	**2026-04-16**	**2026-04-20**	**2026-04-22**	**2026-04-28**	**Method**
Sulphur Dioxide as SO_2	$\mu g/m^3$	80	35.1	36.3	38.0	28.5	39.8	33.6	25.1	34.9	38.9	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	$\mu g/m^3$	80	14.1	19.8	18.7	17.5	20.8	16.0	18.6	14.5	14.9	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	$\mu g/m^3$	100	61.3	55.9	68.1	54.5	57.3	63.9	59.6	70.4	62.8	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	$\mu g/m^3$	60	25.3	22.8	28.3	21.7	24.6	26.9	25.0	30.3	27.5	IS 5182 (PART-24) 2019
Ammonia as NH_3	$\mu g/m^3$	400	1.9	2.1	3.1	0.9	2.9	1.4	1.0	1.7	2.8	APHA 3rd Edition - 401
Benzene as C_6H_6	$\mu g/m^3$	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	IS 5182 (PART-11) RA 2017
Benzo(a) Pyrene in particulate phase	ng/m^3	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS 5182 (PART-12) RA 2019
Arsenic as As	ng/m^3	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	USEPA IO 3.4
Nickel as Ni	ng/m^3	20	5.3	3.2	5.7	4.1	6.6	4.9	5.3	6.2	5.8	USEPA IO 3.4
Lead as Pb	$\mu g/m^3$	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	$\mu g/m^3$	2000	134	161	87	117	141	169	182	221	153	IS 5182 (PART-10) RA 2019
Ozone as O_3	$\mu g/m^3$	100	9.3	7.6	5.2	16.1	9.2	11.6	6.6	4.3	4.2	IS 5182 (PART-9) RA 2019

Ø PM2.5, PM10, SO_2, NO_2 and NH_3 is monitored on 24 hrs. Basis &CO, O_3 is monitored on 8 hrs basis.

Ø C_6H_6, B (a) P & Heavy Metals (As, Ni, Pb) is monitored on 24 hrs basis.

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M/s. Bharat Aluminium Company Limited,	Issue Date:	2026-05-05
KORBA (C.G.)	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT COMPRESSOR HOUSE (BALCO)

Analysis starting date :- 2026-04-03 **Analysis Completion date :- 2026-05-04**

Tests required: Sulphur Dioxide (SO_2), Nitrogen Dioxide (NOx), Particulate Matter (PM10), Particulate Matter (PM2.5), Ammonia (NH3), Benzene (C_6H_6), Benzo (a) Pyrene in particulate phase, Heavy metals in particulate phase for Arsenic, Nickel & Lead.

TEST RESULTS

Parameters	Units	Limits	AAQ Location : COMPRESSOR HOUSE									
Sampling Date			2026-04-02	2026-04-04	2026-04-08	2026-04-10	2026-04-14	2026-04-16	2026-04-20	2026-04-22	2026-04-28	Method
Sulphur Dioxide as SO_2	µg/m^3	80	32.7	42.3	37.7	28.8	36.9	34.2	29.7	31.0	40.4	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m^3	80	15.0	17.4	20.3	13.6	15.3	20.3	12.2	13.6	16.1	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m^3	100	58.9	62.7	56.4	59.2	61.7	53.6	68.1	65.8	57.4	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m^3	60	23.8	26.2	21.8	24.5	26.8	20.4	28.9	27.4	22.6	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m^3	400	1.1	1.7	3.5	0.8	1.2	3.2	1.5	1.6	2.1	APHA 3rd Edition - 401
Benzene as C_6H_6	µg/m^3	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	IS 5182 (PART-11) RA 2017
Benzo(a) Pyrene in particulate phase	ng/m^3	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS 5182 (PART-12) RA 2019
Arsenic as As	ng/m^3	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	USEPA IO 3.4
Nickel as Ni	ng/m^3	20	5.6	6.1	4.9	3.6	6.2	4.7	5.5	3.8	5.4	USEPA IO 3.4
Lead as Pb	µg/m^3	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	µg/m^3	2000	124	173	151	168	95	148	123	78	106	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m^3	100	20.3	9.8	3.9	10.6	7.7	8.3	8.2	3.1	2.8	IS 5182 (PART-9) RA 2019

Ø PM2.5, PM10, SO_2, NO_2 and NH_3 is monitored on 24 hrs. Basis &CO, O_3 is monitored on 8 hrs basis.

Ø C_6H_6, B (a) P & Heavy Metals (As, Ni, Pb) is monitored on 24 hrs basis.

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	Issue Date:	2026-05-05
	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT RAILWAY CONTROL ROOM (BALCO)

Analysis starting date :- 2026-04-03 **Analysis Completion date :- 2026-05-04**

Tests required: Sulphur Dioxide (SO_2), Nitrogen Dioxide (NOx), Particulate Matter (PM10), Particulate Matter (PM2.5), Ammonia (NH3), Benzene (C_6H_6), Benzo (a) Pyrene in particulate phase, Heavy metals in particulate phase for Arsenic, Nickel & Lead.

TEST RESULTS

Parameters	Units	Limits	AAQ Location : RAILWAY CONTROL ROOM									
Sampling Date			2026-04-02	2026-04-04	2026-04-08	2026-04-10	2026-04-14	2026-04-16	2026-04-20	2026-04-22	2026-04-28	Method
Sulphur Dioxide as SO_2	$\mu g/m^3$	80	38.8	37.6	28.5	38.4	27.3	36.0	28.7	39.6	39.7	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	$\mu g/m^3$	80	15.1	13.3	15.3	14.0	13.7	12.8	11.8	10.9	12.4	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	$\mu g/m^3$	100	50.7	53.1	61.9	64.4	56.3	66.9	69.4	58.6	60.5	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	$\mu g/m^3$	60	18.4	21.8	25.6	27.4	22.5	28.6	30.3	24.1	23.7	IS 5182 (PART-24) 2019
Ammonia as NH_3	$\mu g/m^3$	400	1.6	2.2	2.1	0.7	1.4	1.3	1.3	1.1	1.3	APHA 3rd Edition - 401
Benzene as C_6H_6	$\mu g/m^3$	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	IS 5182 (PART-11) RA 2017
Benzo(a) Pyrene in particulate phase	ng/m^3	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS 5182 (PART-12) RA 2019
Arsenic as As	ng/m^3	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	USEPA IO 3.4
Nickel as Ni	ng/m^3	20	5.2	3.7	4.1	4.6	4.4	6.3	5.7	4.1	3.3	USEPA IO 3.4
Lead as Pb	$\mu g/m^3$	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	$\mu g/m^3$	2000	137	154	86	105	113	68	121	89	123	IS 5182 (PART-10) RA 2019
Ozone as O_3	$\mu g/m^3$	100	5.6	4.8	2.5	10.1	8.6	6.2	3.0	2.0	3.6	IS 5182 (PART-9) RA 2019

Ø PM2.5, PM10, SO_2, NO_2 and NH_3 is monitored on 24 hrs. Basis &CO, O_3 is monitored on 8 hrs basis.

Ø C_6H_6, B (a) P & Heavy Metals (As, Ni, Pb) is monitored on 24 hrs basis.

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	Issue Date:	2026-05-05
	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT 540MW, DM PLANT (BALCO)

Analysis starting date :- 2026-04-03 **Analysis Completion date :- 2026-05-04**

Tests required: Sulphur Dioxide (SO_2), Nitrogen Dioxide (NOx), Particulate Matter (PM10), Particulate Matter (PM2.5), Ammonia (NH3), Benzene (C_6H_6), Benzo (a) Pyrene in particulate phase, Heavy metals in particulate phase for Arsenic, Nickel & Lead.

TEST RESULTS

Parameters	Units	Limits	AAQ Location : 540MW, DM PLANT									
Sampling Date			2026-04-02	2026-04-04	2026-04-08	2026-04-10	2026-04-14	2026-04-16	2026-04-20	2026-04-22	2026-04-28	Method
Sulphur Dioxide as SO_2	$\mu g/m^3$	80	24.8	32.7	31.9	35.8	38.6	36.0	29.1	37.6	37.0	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	$\mu g/m^3$	80	12.9	16.2	18.4	16.2	22.7	20.8	19.5	16.7	16.6	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	$\mu g/m^3$	100	64.7	59.1	60.3	54.2	69.6	52.9	68.3	70.5	62.8	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	$\mu g/m^3$	60	27.1	23.4	25.3	21.7	30.2	22.8	27.5	32.2	26.9	IS 5182 (PART-24) 2019
Ammonia as NH_3	$\mu g/m^3$	400	1.1	1.6	3.6	0.6	1.8	2.3	0.8	1.5	1.5	APHA 3rd Edition - 401
Benzene as C_6H_6	$\mu g/m^3$	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	IS 5182 (PART-11) RA 2017
Benzo(a) Pyrene in particulate phase	ng/m^3	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS 5182 (PART-12) RA 2019
Arsenic as As	ng/m^3	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	USEPA IO 3.4
Nickel as Ni	ng/m^3	20	5.8	4.2	6.2	4.9	3.6	5.1	4.7	3.5	6.9	USEPA IO 3.4
Lead as Pb	$\mu g/m^3$	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	$\mu g/m^3$	2000	142	264	119	215	234	177	135	94	186	IS 5182 (PART-10) RA 2019
Ozone as O_3	$\mu g/m^3$	100	4.1	7.0	6.2	5.1	10.8	8.3	7.3	4.3	4.7	IS 5182 (PART-9) RA 2019

Ø PM2.5, PM10, SO_2, NO_2 and NH_3 is monitored on 24 hrs. Basis &CO, O_3 is monitored on 8 hrs basis.

Ø C_6H_6, B (a) P & Heavy Metals (As, Ni, Pb) is monitored on 24 hrs basis.

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ISSUED TO:		
M/s. Bharat Aluminium Company Limited,	Report No.:	VLL/VLS/26-27/02504/012
KORBA (C.G.)	Issue Date:	2026-05-05
	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT ROGBHERI VILLAGE (ASH DYKE)

Analysis starting date :- 2026-04-03 **Analysis Completion date :- 2026-05-04**

Tests required: Sulphur Dioxide (SO_2), Nitrogen Dioxide (NOx), Particulate Matter (PM10), Particulate Matter (PM2.5), Ammonia (NH3), Benzene (C_6H_6), Benzo (a) Pyrene in particulate phase, Heavy metals in particulate phase for Arsenic, Nickel & Lead.

TEST RESULTS

Parameters	Units	Limits	AAQ Location : ROGBHERI VILLAGE									
Sampling Date			**2026-04-02**	**2026-04-04**	**2026-04-08**	**2026-04-10**	**2026-04-14**	**2026-04-16**	**2026-04-20**	**2026-04-22**	**2026-04-28**	**Method**
Sulphur Dioxide as SO_2	$\mu g/m^3$	80	12.2	14.4	17.4	14.2	16.5	19.6	17.4	15.3	13.8	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	$\mu g/m^3$	80	8.1	9.7	8.7	10.6	11.9	12.7	9.0	8.4	10.1	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	$\mu g/m^3$	100	66.7	58.5	52.9	54.7	52.8	59.3	48.6	57.4	53.1	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	$\mu g/m^3$	60	24.3	20.8	16.2	20.4	18.7	21.4	16.5	19.1	17.9	IS 5182 (PART-24) 2019
Ammonia as NH_3	$\mu g/m^3$	400	0.6	0.5	0.9	0.6	0.8	0.6	0.5	0.7	1.0	APHA 3rd Edition - 401
Benzene as C_6H_6	$\mu g/m^3$	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	IS 5182 (PART-11) RA 2017
Benzo(a) Pyrene in particulate phase	ng/m^3	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS 5182 (PART-12) RA 2019
Arsenic as As	ng/m^3	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	USEPA IO 3.4
Nickel as Ni	ng/m^3	20	5.7	3.8	4.1	5.2	4.9	5.1	3.4	4.9	3.5	USEPA IO 3.4
Lead as Pb	$\mu g/m^3$	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	$\mu g/m^3$	2000	87	69	104	72	81	134	75	94	119	IS 5182 (PART-10) RA 2019
Ozone as O_3	$\mu g/m^3$	100	2.1	1.7	1.4	3.8	2.8	2.4	3.2	1.9	1.5	IS 5182 (PART-9) RA 2019

Ø PM2.5, PM10, SO_2, NO_2 and NH_3 is monitored on 24 hrs. Basis &CO, O_3 is monitored on 8 hrs basis.

Ø C_6H_6, B (a) P & Heavy Metals (As, Ni, Pb) is monitored on 24 hrs basis.

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ISSUED TO: M/s. Bharat Aluminium Company Limited, KORBA (C.G.)	Report No.:	VLL/VLS/26-27/05017/001
	Issue Date:	2026-06-04
	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT PARSABHATA GATE (BALCO)

Analysis starting date :- 2026-05-04

Analysis Completion date :- 2026-06-03

Tests required: Sulphur Dioxide (SO_2), Nitrogen Dioxide (NOx), Particulate Matter (PM10), Particulate Matter (PM2.5), Ammonia (NH3), Benzene (C_6H_6), Benzo (a) Pyrene in particulate phase, Heavy metals in particulate phase for Arsenic, Nickel & Lead.

TEST RESULTS

Parameters	Units	Limits	AAQ Location : PARSABHATA GATE									
Sampling Date			2026-05-01	2026-05-07	2026-05-09	2026-05-13	2026-05-15	2026-05-19	2026-05-21	2026-05-25	2026-05-27	Method
Sulphur Dioxide as SO_2	µg/m³	80	25.7	35.8	24.5	41.0	37.6	26.2	34.1	44.4	33.5	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m³	80	20.6	17.0	11.5	14.1	14.7	17.6	13.7	19.4	15.5	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m³	100	57.6	68.3	64.9	58.3	67.8	60.4	68.1	56.3	60.5	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m³	60	22.0	28.3	25.8	23.2	27.3	24.6	29.4	22.4	24.7	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m³	400	2.2	1.7	3.2	2.6	2.6	4.1	2.3	2.4	1.3	APHA 3rd Edition - 401
Benzene as C_6H_6	µg/m³	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	IS 5182 (PART-11) RA 2017
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS 5182 (PART-12) RA 2019
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	USEPA IO 3.4
Nickel as Ni	ng/m³	20	3.9	5.6	4.3	7.1	4.9	5.8	4.3	6.2	5.7	USEPA IO 3.4
Lead as Pb	µg/m³	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	µg/m³	2000	105	176	168	147	172	139	120	185	142	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m³	100	11.3	13.9	2.4	2.7	3.8	2.8	19.2	5.5	9.5	IS 5182 (PART-9) RA 2019

Ø PM2.5, PM10, SO_2, NO_2 and NH_3 is monitored on 24 hrs. Basis &CO, O_3 is monitored on 8 hrs basis.
Ø C_6H_6, B (a) P & Heavy Metals (As, Ni, Pb) is monitored on 24 hrs basis.

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ISSUED TO:
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Report No.:	VLL/VLS/26-27/05017/002
Issue Date:	2026-06-04
P.O.No:	3402001553
P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT ETP SMELTER (BALCO)

Analysis starting date :- 2026-05-04

Analysis Completion date :- 2026-06-03

Tests required: Sulphur Dioxide (SO_2), Nitrogen Dioxide (NOx), Particulate Matter (PM10), Particulate Matter (PM2.5), Ammonia (NH3), Benzene (C_6H_6), Benzo (a) Pyrene in particulate phase, Heavy metals in particulate phase for Arsenic, Nickel & Lead.

TEST RESULTS

Parameters	Units	Limits	AAQ Location : ETP SMELTER									
Sampling Date			2026-05-01	2026-05-07	2026-05-09	2026-05-13	2026-05-15	2026-05-19	2026-05-21	2026-05-25	2026-05-27	Method
Sulphur Dioxide as SO_2	µg/m³	80	40.4	45.2	37.0	34.4	42.8	32.7	30.4	41.2	27.1	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m³	80	12.7	15.6	16.3	17.1	19.1	17.6	11.7	11.3	13.7	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m³	100	59.4	57.5	61.9	70.1	68.5	66.7	73.3	59.4	63.8	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m³	60	24.2	22.3	25.7	29.3	26.8	24.4	30.1	23.5	27.2	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m³	400	1.7	1.5	0.8	1.2	2.2	2.3	1.7	1.2	1.5	APHA 3rd Edition - 401
Benzene as C_6H_6	µg/m³	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	IS 5182 (PART-11) RA 2017
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS 5182 (PART-12) RA 2019
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	USEPA IO 3.4
Nickel as Ni	ng/m³	20	5.3	3.2	5.7	4.1	6.6	4.9	5.3	6.2	5.8	USEPA IO 3.4
Lead as Pb	µg/m³	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	µg/m³	2000	134	161	87	117	141	169	182	221	153	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m³	100	6.0	8.9	2.2	2.1	3.5	1.8	3.6	2.8	5.0	IS 5182 (PART-9) RA 2019

Ø PM2.5, PM10, SO_2, NO_2 and NH_3 is monitored on 24 hrs. Basis &CO, O_3 is monitored on 8 hrs basis.

Ø C_6H_6, B (a) P & Heavy Metals (As, Ni, Pb) is monitored on 24 hrs basis.

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Report No.:	VLL/VLS/26-27/05017/003
Issue Date:	2026-06-04
P.O.No:	3402001553
P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT COMPRESSOR HOUSE (BALCO)

Analysis starting date :- 2026-05-04

Analysis Completion date :- 2026-06-03

Tests required: Sulphur Dioxide (SO_2), Nitrogen Dioxide (NOx), Particulate Matter (PM10), Particulate Matter (PM2.5), Ammonia (NH3), Benzene (C_6H_6), Benzo (a) Pyrene in particulate phase, Heavy metals in particulate phase for Arsenic, Nickel & Lead.

TEST RESULTS

Parameters	Units	Limits	AAQ Location : COMPRESSOR HOUSE									
Sampling Date			2026-05-01	2026-05-07	2026-05-09	2026-05-13	2026-05-15	2026-05-19	2026-05-21	2026-05-25	2026-05-27	Method
Sulphur Dioxide as SO_2	$\mu g/m^3$	80	37.7	26.6	37.2	41.7	34.2	26.4	22.6	35.2	32.6	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	$\mu g/m^3$	80	15.9	18.4	11.2	18.1	20.5	14.3	14.5	16.5	17.0	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	$\mu g/m^3$	100	56.2	63.9	60.7	68.3	57.1	54.6	62.3	59.5	53.8	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	$\mu g/m^3$	60	20.9	24.7	22.8	27.9	21.6	18.6	24.3	22.8	19.5	IS 5182 (PART-24) 2019
Ammonia as NH_3	$\mu g/m^3$	400	1.1	1.9	1.0	0.7	1.6	1.5	1.0	1.9	1.2	APHA 3rd Edition - 401
Benzene as C_6H_6	$\mu g/m^3$	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	IS 5182 (PART-11) RA 2017
Benzo(a) Pyrene in particulate phase	ng/m^3	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS 5182 (PART-12) RA 2019
Arsenic as As	ng/m^3	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	USEPA IO 3.4
Nickel as Ni	ng/m^3	20	5.6	6.1	4.9	3.6	6.2	4.7	5.5	3.8	5.4	USEPA IO 3.4
Lead as Pb	$\mu g/m^3$	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	$\mu g/m^3$	2000	124	173	151	168	95	148	123	78	106	IS 5182 (PART-10) RA 2019
Ozone as O_3	$\mu g/m^3$	100	9.9	7.1	7.6	5.2	4.7	3.4	7.0	23.6	10.3	IS 5182 (PART-9) RA 2019

Ø PM2.5, PM10, SO_2, NO_2 and NH_3 is monitored on 24 hrs. Basis &CO, O_3 is monitored on 8 hrs basis.

Ø C_6H_6, B (a) P & Heavy Metals (As, Ni, Pb) is monitored on 24 hrs basis.

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Report No.:	VLL/VLS/26-27/05017/004
Issue Date:	2026-06-04
P.O.No:	3402001553
P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT RAILWAY CONTROL ROOM (BALCO)

Analysis starting date :- 2026-05-04

Analysis Completion date :- 2026-06-03

Tests required: Sulphur Dioxide (SO_2), Nitrogen Dioxide (NOx), Particulate Matter (PM10), Particulate Matter (PM2.5), Ammonia (NH3), Benzene (C_6H_6), Benzo (a) Pyrene in particulate phase, Heavy metals in particulate phase for Arsenic, Nickel & Lead.

TEST RESULTS

Parameters	Units	Limits	AAQ Location : RAILWAY CONTROL ROOM									
Sampling Date			**2026-05-01**	**2026-05-07**	**2026-05-09**	**2026-05-13**	**2026-05-15**	**2026-05-19**	**2026-05-21**	**2026-05-25**	**2026-05-27**	**Method**
Sulphur Dioxide as SO_2	µg/m³	80	29.2	30.4	59.4	27.4	32.5	29.7	34.5	33.1	22.8	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m³	80	14.1	13.5	14.5	9.9	12.4	14.0	18.1	13.5	12.1	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m³	100	53.8	57.2	63.6	51.9	64.1	59.5	55.7	60.3	68.2	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m³	60	20.5	22.3	24.8	19.3	25.6	23.3	21.6	25.1	27.8	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m³	400	1.6	1.0	4.1	2.4	1.8	2.0	1.0	1.4	1.0	APHA 3rd Edition - 401
Benzene as C_6H_6	µg/m³	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	IS 5182 (PART-11) RA 2017
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS 5182 (PART-12) RA 2019
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	USEPA IO 3.4
Nickel as Ni	ng/m³	20	5.2	3.7	4.1	4.6	4.4	6.3	5.7	4.1	3.3	USEPA IO 3.4
Lead as Pb	µg/m³	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	µg/m³	2000	137	154	86	105	113	68	121	89	123	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m³	100	8.1	11.3	1.4	2.7	4.1	3.1	4.1	6.4	4.4	IS 5182 (PART-9) RA 2019

Ø PM2.5, PM10, SO_2, NO_2 and NH_3 is monitored on 24 hrs. Basis &CO, O_3 is monitored on 8 hrs basis.

Ø C_6H_6, B (a) P & Heavy Metals (As, Ni, Pb) is monitored on 24 hrs basis.

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Report No.:	VLL/VLS/26-27/05017/005
Issue Date:	2026-06-04
P.O.No:	3402001553
P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT 540MW, DM PLANT (BALCO)

Analysis starting date :- 2026-05-04

Analysis Completion date :- 2026-06-03

Tests required: Sulphur Dioxide (SO_2), Nitrogen Dioxide (NOx), Particulate Matter (PM10), Particulate Matter (PM2.5), Ammonia (NH3), Benzene (C_6H_6), Benzo (a) Pyrene in particulate phase, Heavy metals in particulate phase for Arsenic, Nickel & Lead.

TEST RESULTS

Parameters	Units	Limits	AAQ Location : 540MW, DM PLANT									
Sampling Date			2026-05-01	2026-05-07	2026-05-09	2026-05-13	2026-05-15	2026-05-19	2026-05-21	2026-05-25	2026-05-27	Method
Sulphur Dioxide as SO_2	µg/m³	80	30.2	36.1	38.8	32.5	24.6	27.3	40.0	33.7	28.9	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m³	80	17.3	15.3	16.9	14.8	12.6	18.1	17.6	15.4	19.9	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m³	100	59.3	65.7	71.2	63.4	60.9	66.7	54.1	73.2	61.8	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m³	60	22.7	27.1	31.3	25.3	24.1	26.8	19.4	33.6	25.2	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m³	400	1.2	1.3	1.2	0.8	1.2	1.7	0.8	2.3	1.6	APHA 3rd Edition - 401
Benzene as C_6H_6	µg/m³	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	IS 5182 (PART-11) RA 2017
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS 5182 (PART-12) RA 2019
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	USEPA IO 3.4
Nickel as Ni	ng/m³	20	5.8	4.2	6.2	4.9	3.6	5.1	4.7	3.5	6.9	USEPA IO 3.4
Lead as Pb	µg/m³	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	µg/m³	2000	142	264	119	215	234	177	135	94	186	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m³	100	5.8	13.9	5.0	3.4	3.2	2.6	3.9	4.1	6.0	IS 5182 (PART-9) RA 2019

Ø PM2.5, PM10, SO_2, NO_2 and NH_3 is monitored on 24 hrs. Basis &CO, O_3 is monitored on 8 hrs basis.

Ø C_6H_6, B (a) P & Heavy Metals (As, Ni, Pb) is monitored on 24 hrs basis.

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Report No.:	VLL/VLS/26-27/05017/012
Issue Date:	2026-06-04
P.O.No:	3402001553
P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT ROGBHERI VILLAGE (ASH DYKE)

Analysis starting date :- 2026-05-04

Analysis Completion date :- 2026-06-03

Tests required: Sulphur Dioxide (SO_2), Nitrogen Dioxide (NOx), Particulate Matter (PM10), Particulate Matter (PM2.5), Ammonia (NH_3), Benzene (C_6H_6), Benzo (a) Pyrene in particulate phase, Heavy metals in particulate phase for Arsenic, Nickel & Lead.

TEST RESULTS

Parameters	Units	Limits	AAQ Location : ROGBHERI VILLAGE									
Sampling Date			2026-05-01	2026-05-07	2026-05-09	2026-05-13	2026-05-15	2026-05-19	2026-05-21	2026-05-25	2026-05-27	Method
Sulphur Dioxide as SO_2	$\mu g/m^3$	80	11.5	16.5	22.5	19.4	15.6	9.2	13.7	15.2	13.5	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	$\mu g/m^3$	80	9.4	8.4	8.3	7.5	8.4	8.5	9.1	8.4	7.3	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	$\mu g/m^3$	100	52.9	49.4	57.2	50.9	61.1	54.8	56.9	53.5	58.7	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	$\mu g/m^3$	60	18.2	16.7	20.7	19.3	24.1	20.8	19.5	20.9	21.1	IS 5182 (PART-24) 2019
Ammonia as NH_3	$\mu g/m^3$	400	0.7	0.7	0.5	0.5	0.9	0.5	0.8	1.0	0.7	APHA 3rd Edition - 401
Benzene as C_6H_6	$\mu g/m^3$	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	IS 5182 (PART-11) RA 2017
Benzo(a) Pyrene in particulate phase	ng/m^3	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS 5182 (PART-12) RA 2019
Arsenic as As	ng/m^3	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	USEPA IO 3.4
Nickel as Ni	ng/m^3	20	5.7	3.8	4.1	5.2	4.9	5.1	3.4	4.9	3.5	USEPA IO 3.4
Lead as Pb	$\mu g/m^3$	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	$\mu g/m^3$	2000	87	69	104	72	81	134	75	94	119	IS 5182 (PART-10) RA 2019
Ozone as O_3	$\mu g/m^3$	100	3.4	3.8	1.3	0.8	1.1	0.7	1.0	1.6	1.2	IS 5182 (PART-9) RA 2019

Ø PM2.5, PM10, SO_2, NO_2 and NH_3 is monitored on 24 hrs. Basis &CO, O_3 is monitored on 8 hrs basis.

Ø C_6H_6, B (a) P & Heavy Metals (As, Ni, Pb) is monitored on 24 hrs basis.

ENVIRONMENT LABORATORY Vimta VIMTA LABS REGD. No- DL 3300/99 Sr. No.-5 VIMTA

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M/s. Bharat Aluminium Company Limited,	Issue Date:	2026-07-04
KORBA (C.G.)	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT PARSABHATA GATE (BALCO)

Analysis starting date :- 2026-06-05 **Analysis Completion date :- 2026-07-03**

Tests required: Sulphur Dioxide (SO_2), Nitrogen Dioxide (NOx), Particulate Matter (PM10), Particulate Matter (PM2.5), Ammonia (NH3), Benzene (C_6H_6), Benzo (a) Pyrene in particulate phase, Heavy metals in particulate phase for Arsenic, Nickel & Lead.

TEST RESULTS

Parameters	Units	Limits	AAQ Location : PARSABHATA GATE								
Sampling Date			2026-06-04	2026-06-06	2026-06-10	2026-06-12	2026-06-16	2026-06-18	2026-06-22	2026-06-24	Method
Sulphur Dioxide as SO_2	$\mu g/m^3$	80	44.1	34.2	29.0	24.1	28.4	29.4	25.1	24.3	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	$\mu g/m^3$	80	27.4	23.3	24.7	19.4	27.8	14.5	17.8	9.5	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	$\mu g/m^3$	100	67.1	61.2	55.9	62.2	59.0	57.6	54.4	53.3	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	$\mu g/m^3$	60	28.1	23.8	21.7	25.4	23.1	24.8	18.0	14.4	IS 5182 (PART-24) 2019
Ammonia as NH_3	$\mu g/m^3$	400	1.7	1.5	2.0	1.4	4.0	4.2	2.2	4.2	APHA 3rd Edition - 401
Benzene as C_6H_6	$\mu g/m^3$	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	IS 5182 (PART-11) RA 2017
Benzo(a) Pyrene in particulate phase	ng/m^3	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS 5182 (PART-12) RA 2019
Arsenic as As	ng/m^3	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	USEPA IO 3.4
Nickel as Ni	ng/m^3	20	5.3	6.7	4.1	7.5	5.8	6.2	4.9	5.4	USEPA IO 3.4
Lead as Pb	$\mu g/m^3$	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	$\mu g/m^3$	2000	132	168	91	147	124	156	139	162	IS 5182 (PART-10) RA 2019
Ozone as O_3	$\mu g/m^3$	100	6.2	4.8	6.9	8.0	4.1	9.9	5.8	7.0	IS 5182 (PART-9) RA 2019

Ø PM2.5, PM10, SO_2, NO_2 and NH_3 is monitored on 24 hrs. Basis &CO, O_3 is monitored on 8 hrs basis.

Ø C_6H_6, B (a) P & Heavy Metals (As, Ni, Pb) is monitored on 24 hrs basis.

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ISSUED TO:	Report No.:	VLL/VLS/26-27/07623/003
M/s. Bharat Aluminium Company Limited,	Issue Date:	2026-07-04
KORBA (C.G.)	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT COMPRESSOR HOUSE (BALCO)

Analysis starting date :- 2026-06-05 **Analysis Completion date :- 2026-07-03**

Tests required: Sulphur Dioxide (SO_2), Nitrogen Dioxide (NOx), Particulate Matter (PM10), Particulate Matter (PM2.5), Ammonia (NH3), Benzene (C_6H_6), Benzo (a) Pyrene in particulate phase, Heavy metals in particulate phase for Arsenic, Nickel & Lead.

TEST RESULTS

Parameters	Units	Limits	AAQ Location : COMPRESSOR HOUSE								
Sampling Date			**2026-06-04**	**2026-06-06**	**2026-06-10**	**2026-06-12**	**2026-06-16**	**2026-06-18**	**2026-06-22**	**2026-06-24**	**Method**
Sulphur Dioxide as SO_2	µg/m³	80	39.6	40.4	32.5	27.9	28.4	36.9	28.8	21.3	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m³	80	16.7	17.7	20.7	11.0	12.8	12.0	12.2	16.9	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m³	100	54.8	66.2	52.1	50.4	61.3	56.6	52.2	49.8	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m³	60	22.6	27.0	21.6	19.4	24.7	23.7	20.3	18.4	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m³	400	1.7	2.7	3.3	0.6	1.6	1.0	1.2	2.5	APHA 3rd Edition - 401
Benzene as C_6H_6	µg/m³	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	IS 5182 (PART-11) RA 2017
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS 5182 (PART-12) RA 2019
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	USEPA IO 3.4
Nickel as Ni	ng/m³	20	4.8	5.2	4.1	3.7	6.4	5.8	6.1	3.9	USEPA IO 3.4
Lead as Pb	µg/m³	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	µg/m³	2000	89	142	128	163	79	114	137	96	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m³	100	4.4	10.1	2.6	3.9	16.0	10.1	5.7	6.8	IS 5182 (PART-9) RA 2019

Ø PM2.5, PM10, SO_2, NO_2 and NH_3 is monitored on 24 hrs. Basis &CO, O_3 is monitored on 8 hrs basis.

Ø C_6H_6, B (a) P & Heavy Metals (As, Ni, Pb) is monitored on 24 hrs basis.

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M/s. Bharat Aluminium Company Limited,	Report No.:	VLL/VLS/26-27/07623/002
KORBA (C.G.)	Issue Date:	2026-07-04
	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT ETP SMELTER (BALCO)

Analysis starting date :- 2026-06-05 **Analysis Completion date :- 2026-07-03**

Tests required: Sulphur Dioxide (SO_2), Nitrogen Dioxide (NOx), Particulate Matter (PM10), Particulate Matter (PM2.5), Ammonia (NH3), Benzene (C_6H_6), Benzo (a) Pyrene in particulate phase, Heavy metals in particulate phase for Arsenic, Nickel & Lead.

TEST RESULTS

Parameters	Units	Limits	AAQ Location : ETP SMELTER								
Sampling Date			**2026-06-04**	**2026-06-06**	**2026-06-10**	**2026-06-12**	**2026-06-16**	**2026-06-18**	**2026-06-22**	**2026-06-24**	**Method**
Sulphur Dioxide as SO_2	µg/m³	80	36.1	37.8	35.3	36.8	32.5	26.9	24.1	27.3	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m³	80	19.5	18.8	16.7	19.7	10.6	16.3	14.7	7.8	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m³	100	72.4	60.3	54.1	57.9	61.6	58.8	50.1	52.4	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m³	60	29.4	24.3	21.1	23.2	25.7	23.9	19.8	19.2	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m³	400	1.2	1.3	0.9	1.9	2.3	3.8	3.8	2.5	APHA 3rd Edition - 401
Benzene as C_6H_6	µg/m³	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	IS 5182 (PART-11) RA 2017
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS 5182 (PART-12) RA 2019
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	USEPA IO 3.4
Nickel as Ni	ng/m³	20	4.1	6.8	5.4	5.1	3.6	4.8	7.2	5.6	USEPA IO 3.4
Lead as Pb	µg/m³	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	µg/m³	2000	173	148	152	218	176	139	164	181	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m³	100	5.0	5.7	3.4	4.8	9.6	3.9	6.4	10.2	IS 5182 (PART-9) RA 2019

Ø PM2.5, PM10, SO_2, NO_2 and NH_3 is monitored on 24 hrs. Basis &CO, O_3 is monitored on 8 hrs basis.

Ø C_6H_6, B (a) P & Heavy Metals (As, Ni, Pb) is monitored on 24 hrs basis.

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M/s. Bharat Aluminium Company Limited,	Issue Date:	2026-07-04
KORBA (C.G.)	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT RAILWAY CONTROL ROOM (BALCO)

Analysis starting date :- 2026-06-05 **Analysis Completion date :- 2026-07-03**

Tests required: Sulphur Dioxide (SO_2), Nitrogen Dioxide (NOx), Particulate Matter (PM10), Particulate Matter (PM2.5), Ammonia (NH3), Benzene (C_6H_6), Benzo (a) Pyrene in particulate phase, Heavy metals in particulate phase for Arsenic, Nickel & Lead.

TEST RESULTS

Parameters	Units	Limits	AAQ Location : RAILWAY CONTROL ROOM								
Sampling Date			2026-06-04	2026-06-06	2026-06-10	2026-06-12	2026-06-16	2026-06-18	2026-06-22	2026-06-24	Method
Sulphur Dioxide as SO_2	µg/m³	80	27.1	35.2	29.1	25.9	33.8	36.8	29.3	29.6	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m³	80	15.8	18.7	21.6	15.4	13.0	9.2	8.3	12.6	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m³	100	58.6	47.9	64.8	58.9	60.8	55.0	52.3	50.2	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m³	60	20.1	16.7	23.6	20.1	22.8	19.4	17.9	18.9	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m³	400	0.8	1.1	1.1	1.3	3.3	1.2	1.5	1.5	APHA 3rd Edition - 401
Benzene as C_6H_6	µg/m³	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	IS 5182 (PART-11) RA 2017
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS 5182 (PART-12) RA 2019
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	USEPA IO 3.4
Nickel as Ni	ng/m³	20	5.2	3.7	4.1	4.6	4.4	6.3	5.7	4.1	USEPA IO 3.4
Lead as Pb	µg/m³	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	µg/m³	2000	95	133	141	87	93	109	118	132	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m³	100	3.0	3.4	1.3	8.1	6.7	3.6	10.9	10.3	IS 5182 (PART-9) RA 2019

Ø PM2.5, PM10, SO_2, NO_2 and NH_3 is monitored on 24 hrs. Basis &CO, O_3 is monitored on 8 hrs basis.

Ø C_6H_6, B (a) P & Heavy Metals (As, Ni, Pb) is monitored on 24 hrs basis.

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M/s. Bharat Aluminium Company Limited,	Issue Date:	2026-07-04
KORBA (C.G.)	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT 540MW, DM PLANT (BALCO)

Analysis starting date :- 2026-06-05 **Analysis Completion date :- 2026-07-03**

Tests required: Sulphur Dioxide (SO_2), Nitrogen Dioxide (NOx), Particulate Matter (PM10), Particulate Matter (PM2.5), Ammonia (NH3), Benzene (C_6H_6), Benzo (a) Pyrene in particulate phase, Heavy metals in particulate phase for Arsenic, Nickel & Lead.

TEST RESULTS

Parameters	Units	Limits	AAQ Location : 540MW, DM PLANT								
Sampling Date			**2026-06-04**	**2026-06-06**	**2026-06-10**	**2026-06-12**	**2026-06-16**	**2026-06-18**	**2026-06-22**	**2026-06-24**	**Method**
Sulphur Dioxide as SO_2	$\mu g/m^3$	80	27.2	21.8	41.8	45.5	26.9	53.3	38.2	29.9	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	$\mu g/m^3$	80	18.2	19.0	28.6	16.3	12.5	17.4	11.2	9.4	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	$\mu g/m^3$	100	62.5	54.7	61.4	63.3	63.5	59.6	54.7	51.3	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	$\mu g/m^3$	60	25.8	20.5	24.2	24.8	26.9	21.3	14.8	14.0	IS 5182 (PART-24) 2019
Ammonia as NH_3	$\mu g/m^3$	400	1.3	1.6	1.3	1.6	1.9	3.2	2.5	3.1	APHA 3rd Edition - 401
Benzene as C_6H_6	$\mu g/m^3$	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	IS 5182 (PART-11) RA 2017
Benzo(a) Pyrene in particulate phase	ng/m^3	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS 5182 (PART-12) RA 2019
Arsenic as As	ng/m^3	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	USEPA IO 3.4
Nickel as Ni	ng/m^3	20	4.2	3.8	4.8	2.6	5.3	3.3	4.1	3.7	USEPA IO 3.4
Lead as Pb	$\mu g/m^3$	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	$\mu g/m^3$	2000	132	187	86	124	165	149	91	153	IS 5182 (PART-10) RA 2019
Ozone as O_3	$\mu g/m^3$	100	4.8	4.6	5.5	7.3	4.5	4.1	4.4	5.5	IS 5182 (PART-9) RA 2019

Ø PM2.5, PM10, SO_2, NO_2 and NH_3 is monitored on 24 hrs. Basis &CO, O_3 is monitored on 8 hrs basis.

Ø C_6H_6, B (a) P & Heavy Metals (As, Ni, Pb) is monitored on 24 hrs basis.

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	Issue Date:	2026-07-04
	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT ROGBHERI VILLAGE (ASH DYKE)

Analysis starting date :- 2026-06-05 **Analysis Completion date :- 2026-07-03**

Tests required: Sulphur Dioxide (SO_2), Nitrogen Dioxide (NOx), Particulate Matter (PM10), Particulate Matter (PM2.5), Ammonia (NH3), Benzene (C_6H_6), Benzo (a) Pyrene in particulate phase, Heavy metals in particulate phase for Arsenic, Nickel & Lead.

TEST RESULTS

Parameters	Units	Limits	AAQ Location : ROGBHERI VILLAGE								
Sampling Date			2026-06-04	2026-06-06	2026-06-10	2026-06-12	2026-06-16	2026-06-18	2026-06-22	2026-06-24	Method
Sulphur Dioxide as SO_2	µg/m³	80	12.2	10.4	9.7	10.6	12.3	10.3	6.7	11.9	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m³	80	9.1	9.3	7.9	9.0	8.7	8.1	7.4	9.2	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m³	100	49.8	56.2	60.1	63.5	48.9	51.8	49.9	46.7	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m³	60	16.7	21.0	23.1	25.0	17.3	18.5	20.1	19.6	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m³	400	0.5	0.7	0.4	0.5	0.6	0.9	0.6	1.0	APHA 3rd Edition - 401
Benzene as C_6H_6	µg/m³	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	IS 5182 (PART-11) RA 2017
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS 5182 (PART-12) RA 2019
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	USEPA IO 3.4
Nickel as Ni	ng/m³	20	5.8	6.3	4.7	6.1	4.8	6.6	5.2	5.7	USEPA IO 3.4
Lead as Pb	µg/m³	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	µg/m³	2000	74	96	72	68	81	109	87	128	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m³	100	1.4	1.2	2.8	1.8	1.5	1.2	0.7	1.0	IS 5182 (PART-9) RA 2019

Ø PM2.5, PM10, SO_2, NO_2 and NH_3 is monitored on 24 hrs. Basis &CO, O_3 is monitored on 8 hrs basis.

Ø C_6H_6, B (a) P & Heavy Metals (As, Ni, Pb) is monitored on 24 hrs basis.

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M/s. Bharat Aluminium Company Limited,	Report No.:	VLL/VLS/26-27/10232/001
KORBA (C.G.)	Issue Date:	2026-08-05
	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT PARSABHATA GATE (BALCO)

Analysis starting date :- 2026-07-03 **Analysis Completion date :- 2026-08-05**

Tests required: Sulphur Dioxide (SO_2), Nitrogen Dioxide (NOx), Particulate Matter (PM10), Particulate Matter (PM2.5), Ammonia (NH3), Benzene (C_6H_6), Benzo (a) Pyrene in particulate phase, Heavy metals in particulate phase for Arsenic, Nickel & Lead.

TEST RESULTS

Parameters	Units	Limits	AAQ Location : PARSABHATA GATE									
Sampling Date			2026-07-02	2026-07-04	2026-07-08	2026-07-10	2026-07-14	2026-07-16	2026-07-20	2026-07-22	2026-07-28	Method
Sulphur Dioxide as SO_2	µg/m³	80	34.8	35.2	34.7	34.0	38.1	32.7	35.5	34.2	30.2	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m³	80	15.4	16.7	14.9	12.7	13.9	12.2	15.8	12.1	18.4	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m³	100	58.3	47.0	55.0	54.1	59.7	50.6	48.1	52.8	56.5	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m³	60	24.1	19.4	18.5	19.1	18.1	18.7	17.2	19.5	21.8	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m³	400	5.7	5.0	3.1	6.9	1.8	1.6	6.2	3.9	2.6	APHA 3rd Edition - 401
Benzene as C_6H_6	µg/m³	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	IS 5182 (PART-11) RA 2017
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS 5182 (PART-12) RA 2019
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	USEPA IO 3.4
Nickel as Ni	ng/m³	20	5.7	4.2	3.7	5.1	6.8	4.7	3.9	4.2	5.9	USEPA IO 3.4
Lead as Pb	µg/m³	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	µg/m³	2000	163.0	144.0	219.0	253.0	191.0	127.0	176.0	184.0	151.0	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m³	100	6.5	4.5	5.2	7.3	3.4	2.4	2.7	5.7	3.6	IS 5182 (PART-9) RA 2019

Ø PM2.5, PM10, SO_2, NO_2 and NH_3 is monitored on 24 hrs. Basis &CO, O_3 is monitored on 8 hrs basis.

Ø C_6H_6, B (a) P & Heavy Metals (As, Ni, Pb) is monitored on 24 hrs basis.

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ISSUED TO:	Report No.:	VLL/VLS/26-27/10232/002
M/s. Bharat Aluminium Company Limited,	Issue Date:	2026-08-05
KORBA (C.G.)	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT ETP SMELTER (BALCO)

Analysis starting date :- 2026-07-03 **Analysis Completion date :- 2026-08-05**

Tests required: Sulphur Dioxide (SO_2), Nitrogen Dioxide (NOx), Particulate Matter (PM10), Particulate Matter (PM2.5), Ammonia (NH3), Benzene (C_6H_6), Benzo (a) Pyrene in particulate phase, Heavy metals in particulate phase for Arsenic, Nickel & Lead.

TEST RESULTS

Parameters	Units	Limits	AAQ Location : ETP SMELTER									
Sampling Date			**2026-07-02**	**2026-07-04**	**2026-07-08**	**2026-07-10**	**2026-07-14**	**2026-07-16**	**2026-07-20**	**2026-07-22**	**2026-07-28**	**Method**
Sulphur Dioxide as SO_2	µg/m³	80	38.9	36.3	34.9	27.5	26.6	32.5	29.9	31.8	29.3	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m³	80	15.0	18.8	13.1	11.0	12.6	14.8	13.8	10.4	16.5	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m³	100	50.9	45.9	57.5	52.2	54.7	51.7	49.4	53.8	54.9	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m³	60	20.5	17.7	18.2	19.4	18.1	18.2	16.5	19.6	16.5	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m³	400	3.5	4.2	1.8	2.9	2.3	1.0	2.2	2.7	1.9	APHA 3rd Edition - 401
Benzene as C_6H_6	µg/m³	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	IS 5182 (PART-11) RA 2017
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS 5182 (PART-12) RA 2019
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	USEPA IO 3.4
Nickel as Ni	ng/m³	20	4.6	3.1	6.1	2.8	5.9	3.6	5.2	4.5	2.6	USEPA IO 3.4
Lead as Pb	µg/m³	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	µg/m³	2000	177.0	153.0	219.0	148.0	184.0	127.0	203.0	249.0	195.0	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m³	100	8.4	2.4	2.4	5.2	1.1	1.5	3.2	3.8	5.9	IS 5182 (PART-9) RA 2019

Ø PM2.5, PM10, SO_2, NO_2 and NH_3 is monitored on 24 hrs. Basis &CO, O_3 is monitored on 8 hrs basis.

Ø C_6H_6, B (a) P & Heavy Metals (As, Ni, Pb) is monitored on 24 hrs basis.

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ISSUED TO:
M/s. Bharat Aluminium Company Limited,
KORBA (C.G.)

Report No.:	VLL/VLS/26-27/10232/003
Issue Date:	2026-08-05
P.O.No:	3402001553
P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT COMPRESSOR HOUSE (BALCO)

Analysis starting date :- 2026-07-03

Analysis Completion date :- 2026-08-05

Tests required: Sulphur Dioxide (SO_2), Nitrogen Dioxide (NOx), Particulate Matter (PM10), Particulate Matter (PM2.5), Ammonia (NH_3), Benzene (C_6H_6), Benzo (a) Pyrene in particulate phase, Heavy metals in particulate phase for Arsenic, Nickel & Lead.

TEST RESULTS

Parameters	Units	Limits	AAQ Location : COMPRESSOR HOUSE									
Sampling Date			2026-07-02	2026-07-04	2026-07-08	2026-07-10	2026-07-14	2026-07-16	2026-07-20	2026-07-22	2026-07-28	Method
Sulphur Dioxide as SO_2	mg/m^3	80.0	36.3	37.5	32.4	29.2	26.4	38.6	26.1	23.3	31.2	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	mg/m^3	80.0	14.4	16.2	13.9	15.6	14.1	13.6	10.2	10.7	15.7	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	mg/m^3	100.0	56.5	45.3	54.9	49.7	51.7	53.8	49.6	51.6	52.2	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	mg/m^3	60.0	21.3	14.6	19.6	19.6	20.1	19.9	16.3	18.6	21.4	IS 5182 (PART-24) 2019
Ammonia as NH_3	mg/m^3	400.0	3.0	4.6	3.5	1.6	1.1	2.1	2.3	3.2	3.4	APHA 3rd Edition - 401
Benzene as C_6H_6	mg/m^3	5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	IS 5182 (PART-11) RA 2017
Benzo(a) Pyrene in particulate phase	ng/m^3	1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS 5182 (PART-12) RA 2019
Arsenic as As	ng/m^3	6.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	USEPA IO 3.4
Nickel as Ni	ng/m^3	20.0	6.2	5.7	6.8	7.2	4.9	5.2	6.7	4.6	6.3	USEPA IO 3.4
Lead as Pb	mg/m^3	1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	mg/m^3	2000.0	153.0	198.0	238.0	146.0	233.0	162.0	185.0	127.0	149.0	IS 5182 (PART-10) RA 2019
Ozone as O_3	mg/m^3	100.0	10.0	7.9	4.3	15.9	9.5	7.0	1.5	2.7	2.6	IS 5182 (PART-9) RA 2019

Ø PM2.5, PM10, SO_2, NO_2 and NH_3 is monitored on 24 hrs. Basis &CO, O_3 is monitored on 8 hrs basis.

Ø C_6H_6, B (a) P & Heavy Metals (As, Ni, Pb) is monitored on 24 hrs basis.

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ISSUED TO:	Report No.:	VLL/VLS/26-27/10232/004
M/s. Bharat Aluminium Company Limited,	Issue Date:	2026-08-05
KORBA (C.G.)	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT RAILWAY CONTROL ROOM (BALCO)

Analysis starting date :- 2026-07-03 **Analysis Completion date :- 2026-08-05**

Tests required: Sulphur Dioxide (SO_2), Nitrogen Dioxide (NOx), Particulate Matter (PM10), Particulate Matter (PM2.5), Ammonia (NH3), Benzene (C_6H_6), Benzo (a) Pyrene in particulate phase, Heavy metals in particulate phase for Arsenic, Nickel & Lead.

TEST RESULTS

Parameters	Units	Limits	AAQ Location : RAILWAY CONTROL ROOM									
Sampling Date			2026-07-02	2026-07-04	2026-07-08	2026-07-10	2026-07-14	2026-07-16	2026-07-20	2026-07-22	2026-07-28	Method
Sulphur Dioxide as SO_2	µg/m³	80	23.9	25.3	28.4	24.9	20.3	23.4	22.0	22.4	22.9	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m³	80	11.5	11.9	11.5	10.5	13.3	11.3	11.6	9.7	12.5	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m³	100	51.8	49.0	54.4	54.3	51.5	48.8	53.1	47.6	56.9	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m³	60	22.4	18.3	21.6	19.7	18.5	16.1	19.3	17.6	20.8	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m³	400	1.1	2.3	2.0	1.4	1.6	1.2	1.7	2.0	1.8	APHA 3rd Edition - 401
Benzene as C_6H_6	µg/m³	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	IS 5182 (PART-11) RA 2017
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS 5182 (PART-12) RA 2019
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	USEPA IO 3.4
Nickel as Ni	ng/m³	20	4.3	6.1	3.9	3.2	4.6	2.8	4.1	3.7	5.4	USEPA IO 3.4
Lead as Pb	µg/m³	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	µg/m³	2000	125.0	73.0	91.0	115.0	136.0	87.0	107.0	156.0	98.0	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m³	100	3.5	4.7	3.6	7.9	1.3	2.2	2.0	2.2	2.2	IS 5182 (PART-9) RA 2019

Ø PM2.5, PM10, SO_2, NO_2 and NH_3 is monitored on 24 hrs. Basis &CO, O_3 is monitored on 8 hrs basis.

Ø C_6H_6, B (a) P & Heavy Metals (As, Ni, Pb) is monitored on 24 hrs basis.

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M/s. Bharat Aluminium Company Limited,	Issue Date:	2026-08-05
KORBA (C.G.)	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT 540MW, DM PLANT (BALCO)

Analysis starting date :- 2026-07-03 **Analysis Completion date :- 2026-08-05**

Tests required: Sulphur Dioxide (SO_2), Nitrogen Dioxide (NOx), Particulate Matter (PM10), Particulate Matter (PM2.5), Ammonia (NH3), Benzene (C_6H_6), Benzo (a) Pyrene in particulate phase, Heavy metals in particulate phase for Arsenic, Nickel & Lead.

TEST RESULTS

Parameters	Units	Limits	AAQ Location : 540MW, DM PLANT									
Sampling Date			2026-07-02	2026-07-04	2026-07-08	2026-07-10	2026-07-14	2026-07-16	2026-07-20	2026-07-22	2026-07-28	Method
Sulphur Dioxide as SO_2	µg/m³	80	23.9	25.3	28.4	24.9	20.3	23.4	22.0	22.4	22.9	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m³	80	11.5	11.9	11.5	10.5	13.3	11.3	11.6	9.7	12.5	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m³	100	51.8	49.0	54.4	54.3	51.5	48.8	53.1	47.6	56.9	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m³	60	22.4	18.3	21.6	19.7	18.5	16.1	19.3	17.6	20.8	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m³	400	1.1	2.3	2.0	1.4	1.6	1.2	1.7	2.0	1.8	APHA 3rd Edition - 401
Benzene as C_6H_6	µg/m³	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	IS 5182 (PART-11) RA 2017
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS 5182 (PART-12) RA 2019
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	USEPA IO 3.4
Nickel as Ni	ng/m³	20	4.3	6.1	3.9	3.2	4.6	2.8	4.1	3.7	5.4	USEPA IO 3.4
Lead as Pb	µg/m³	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	µg/m³	2000	125.0	73.0	91.0	115.0	136.0	87.0	107.0	156.0	98.0	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m³	100	3.5	4.7	3.6	7.9	1.3	2.2	2.0	2.2	2.2	IS 5182 (PART-9) RA 2019

Ø PM2.5, PM10, SO_2, NO_2 and NH_3 is monitored on 24 hrs. Basis &CO, O_3 is monitored on 8 hrs basis.

Ø C_6H_6, B (a) P & Heavy Metals (As, Ni, Pb) is monitored on 24 hrs basis.

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Report No.:	VLL/VLS/26-27/10232/012
Issue Date:	2026-08-05
P.O.No:	3402001553
P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT ROGBHERI VILLAGE (ASH DYKE)

Analysis starting date :- 2026-07-03

Analysis Completion date :- 2026-08-05

Tests required: Sulphur Dioxide (SO_2), Nitrogen Dioxide (NOx), Particulate Matter (PM10), Particulate Matter (PM2.5), Ammonia (NH3), Benzene (C_6H_6), Benzo (a) Pyrene in particulate phase, Heavy metals in particulate phase for Arsenic, Nickel & Lead.

TEST RESULTS

Parameters	Units	Limits	AAQ Location : ROGBHERI VILLAGE (ASH DYKE)									
Sampling Date			2026-07-02	2026-07-04	2026-07-08	2026-07-10	2026-07-14	2026-07-16	2026-07-20	2026-07-22	2026-07-28	Method
Sulphur Dioxide as SO_2	µg/m³	80	11.6	13.5	11.7	13.3	10.9	12.3	11.2	12.1	13.2	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m³	80	9.7	11.3	9.5	10.8	9.4	8.5	9.1	10.1	11.3	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m³	100	48.7	50.3	40.8	43.9	56.9	46.4	42.1	47.6	45.2	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m³	60	16.7	17.1	13.4	14.7	14.1	15.8	13.9	16.1	15.6	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m³	400	2.8	1.7	1.2	1.0	1.3	0.8	0.9	1.1	1.3	APHA 3rd Edition - 401
Benzene as C_6H_6	µg/m³	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	IS 5182 (PART-11) RA 2017
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS 5182 (PART-12) RA 2019
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	USEPA IO 3.4
Nickel as Ni	ng/m³	20	6.1	4.9	6.5	4.9	5.3	5.8	6.2	4.8	5.4	USEPA IO 3.4
Lead as Pb	µg/m³	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	µg/m³	2000	94.0	137.0	112.0	86.0	109.0	154.0	128.0	74.0	142.0	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m³	100	2.1	1.5	1.3	1.1	0.8	1.2	0.8	1.2	0.9	IS 5182 (PART-9) RA 2019

Ø PM2.5, PM10, SO_2, NO_2 and NH_3 is monitored on 24 hrs. Basis &CO, O_3 is monitored on 8 hrs basis.

Ø C_6H_6, B (a) P & Heavy Metals (As, Ni, Pb) is monitored on 24 hrs basis.

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ISSUED TO:	Report No.:	VLL/VLS/26-27/13104/001
M/s. Bharat Aluminium Company Limited,	Issue Date:	2026-09-04
KORBA (C.G.)	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT PARSABHATA GATE (BALCO)

Analysis starting date :- 2026-08-03 **Analysis Completion date :- 2026-09-03**

Tests required: Sulphur Dioxide (SO_2), Nitrogen Dioxide (NOx), Particulate Matter (PM10), Particulate Matter (PM2.5), Ammonia (NH_3), Benzene (C_6H_6), Benzo (a) Pyrene in particulate phase, Heavy metals in particulate phase for Arsenic, Nickel & Lead.

TEST RESULTS

Parameters	Units	Limits	AAQ Location : PARSABHATA GATE									
Sampling Date			2026-08-01	2026-08-06	2026-08-10	2026-08-12	2026-08-14	2026-08-18	2026-08-20	2026-08-24	2026-08-26	Method
Sulphur Dioxide as SO_2	µg/m³	80	15.0	23.0	23.2	15.1	24.8	21.8	23.2	17.6	21.6	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m³	80	16.2	15.3	16.6	13.3	15.8	16.0	12.8	15.7	19.3	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m³	100	49.1	42.0	45.8	52.9	45.1	54.9	47.6	44.8	54.6	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m³	60	18.2	14.1	16.7	19.2	16.4	20.6	17.3	15.8	18.7	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m³	400	3.2	3.5	2.3	1.7	1.4	1.1	1.5	2.3	2.0	APHA 3rd Edition - 401
Benzene as C_6H_6	µg/m³	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	IS 5182 (PART-11) RA 2017
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS 5182 (PART-12) RA 2019
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	USEPA IO 3.4
Nickel as Ni	ng/m³	20	4.9	3.2	5.1	3.8	5.6	6.3	4.7	3.1	5.4	USEPA IO 3.4
Lead as Pb	µg/m³	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	µg/m³	2000	153	92	129	187	241	164	133	159	217	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m³	100	2.7	3.2	2.0	2.5	3.0	2.6	3.2	3.6	3.3	IS 5182 (PART-9) RA 2019

Ø PM2.5, PM10, SO_2, NO_2 and NH_3 is monitored on 24 hrs. Basis &CO, O_3 is monitored on 8 hrs basis.

Ø C_6H_6, B (a) P & Heavy Metals (As, Ni, Pb) is monitored on 24 hrs basis.

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ISSUED TO:	Report No.:	VLL/VLS/26-27/13104/002
M/s. Bharat Aluminium Company Limited,	Issue Date:	2026-09-04
KORBA (C.G.)	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT ETP SMELTER (BALCO)

Analysis starting date :- 2026-08-03 **Analysis Completion date :- 2026-09-03**

Tests required: Sulphur Dioxide (SO_2), Nitrogen Dioxide (NOx), Particulate Matter (PM10), Particulate Matter (PM2.5), Ammonia (NH3), Benzene (C_6H_6), Benzo (a) Pyrene in particulate phase, Heavy metals in particulate phase for Arsenic, Nickel & Lead.

TEST RESULTS

Parameters	Units	Limits	AAQ Location : ETP SMELTER									
Sampling Date			2026-08-01	2026-08-06	2026-08-10	2026-08-12	2026-08-14	2026-08-18	2026-08-20	2026-08-24	2026-08-26	Method
Sulphur Dioxide as SO_2	µg/m^3	80	16.7	22.8	23.4	16.6	25.6	21.4	22.7	21.8	22.2	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m^3	80	17.8	11.0	14.5	16.4	12.1	11.8	13.2	12.9	16.2	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m^3	100	50.6	46.3	52.1	54.6	42.8	47.4	51.2	44.5	52.7	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m^3	60	18.4	15.2	19.2	18.5	13.8	16.4	17.3	14.7	20.5	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m^3	400	1.9	3.0	1.4	1.0	1.9	1.2	1.3	1.9	2.6	APHA 3rd Edition - 401
Benzene as C_6H_6	µg/m^3	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	IS 5182 (PART-11) RA 2017
Benzo(a) Pyrene in particulate phase	ng/m^3	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS 5182 (PART-12) RA 2019
Arsenic as As	ng/m^3	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	USEPA IO 3.4
Nickel as Ni	ng/m^3	20	3.8	5.3	4.4	4.8	5.8	5.2	3.6	4.9	5.1	USEPA IO 3.4
Lead as Pb	µg/m^3	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	µg/m^3	2000	171	238	394	196	259	218	194	175	232	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m^3	100	2.6	3.3	3.1	3.6	2.0	2.2	2.5	3.4	3.0	IS 5182 (PART-9) RA 2019

Ø PM2.5, PM10, SO_2, NO_2 and NH_3 is monitored on 24 hrs. Basis &CO, O_3 is monitored on 8 hrs basis.

Ø C_6H_6, B (a) P & Heavy Metals (As, Ni, Pb) is monitored on 24 hrs basis.

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M/s. Bharat Aluminium Company Limited,	Issue Date:	2026-09-04
KORBA (C.G.)	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT COMPRESSOR HOUSE (BALCO)

Analysis starting date :- 2026-08-03 **Analysis Completion date :- 2026-09-03**

Tests required: Sulphur Dioxide (SO_2), Nitrogen Dioxide (NOx), Particulate Matter (PM10), Particulate Matter (PM2.5), Ammonia (NH3), Benzene (C_6H_6), Benzo (a) Pyrene in particulate phase, Heavy metals in particulate phase for Arsenic, Nickel & Lead.

TEST RESULTS

Parameters	Units	Limits	AAQ Location : COMPRESSOR HOUSE									
Sampling Date			2026-08-01	2026-08-06	2026-08-10	2026-08-12	2026-08-14	2026-08-18	2026-08-20	2026-08-24	2026-08-26	Method
Sulphur Dioxide as SO_2	mg/m^3	80.0	12.6	22.0	22.0	20.9	23.0	18.6	22.4	19.8	23.4	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	mg/m^3	80.0	14.3	12.7	16.8	19.8	14.5	15.4	12.7	14.5	17.7	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	mg/m^3	100.0	48.3	54.8	53.8	50.5	46.8	52.6	56.3	43.1	51.3	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	mg/m^3	60.0	16.2	20.8	18.6	20.7	15.2	17.9	19.2	14.7	18.0	IS 5182 (PART-24) 2019
Ammonia as NH_3	mg/m^3	400.0	2.8	1.2	2.2	2.2	1.3	1.0	1.4	3.8	2.8	APHA 3rd Edition - 401
Benzene as C_6H_6	mg/m^3	5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	IS 5182 (PART-11) RA 2017
Benzo(a) Pyrene in particulate phase	ng/m^3	1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS 5182 (PART-12) RA 2019
Arsenic as As	ng/m^3	6.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	USEPA IO 3.4
Nickel as Ni	ng/m^3	20.0	4.7	5.1	5.9	4.3	6.6	4.3	5.4	6.3	4.1	USEPA IO 3.4
Lead as Pb	mg/m^3	1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	mg/m^3	2000.0	244	160	182	151	213	174	259	218	184	IS 5182 (PART-10) RA 2019
Ozone as O_3	mg/m^3	100.0	2.5	4.3	4.6	3.5	3.1	2.4	1.7	3.5	2.7	IS 5182 (PART-9) RA 2019

Ø PM2.5, PM10, SO_2, NO_2 and NH_3 is monitored on 24 hrs. Basis &CO, O_3 is monitored on 8 hrs basis.

Ø C_6H_6, B (a) P & Heavy Metals (As, Ni, Pb) is monitored on 24 hrs basis.

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M/s. Bharat Aluminium Company Limited,	Issue Date:	2026-09-04
KORBA (C.G.)	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT RAILWAY CONTROL ROOM (BALCO)

Analysis starting date :- 2026-08-03 **Analysis Completion date :- 2026-09-03**

Tests required: Sulphur Dioxide (SO_2), Nitrogen Dioxide (NOx), Particulate Matter (PM10), Particulate Matter (PM2.5), Ammonia (NH3), Benzene (C_6H_6), Benzo (a) Pyrene in particulate phase, Heavy metals in particulate phase for Arsenic, Nickel & Lead.

TEST RESULTS

Parameters	Units	Limits	AAQ Location : RAILWAY CONTROL ROOM									
Sampling Date			2026-08-01	2026-08-06	2026-08-10	2026-08-12	2026-08-14	2026-08-18	2026-08-20	2026-08-24	2026-08-26	Method
Sulphur Dioxide as SO_2	µg/m^3	80	17.3	21.4	17.8	17.4	21.9	20.2	18.0	22.8	20.2	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m^3	80	13.3	11.5	12.9	11.7	13.4	13.5	11.3	13.2	11.4	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m^3	100	45.9	41.7	48.5	43.3	49.8	43.2	50.3	42.4	47.9	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m^3	60	16.7	13.1	17.3	20.9	18.0	14.8	19.1	16.8	12.8	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m^3	400	1.0	0.7	1.6	1.2	1.5	0.8	1.2	1.8	2.0	APHA 3rd Edition - 401
Benzene as C_6H_6	µg/m^3	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	IS 5182 (PART-11) RA 2017
Benzo(a) Pyrene in particulate phase	ng/m^3	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS 5182 (PART-12) RA 2019
Arsenic as As	ng/m^3	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	USEPA IO 3.4
Nickel as Ni	ng/m^3	20	5.8	6.7	6.2	4.8	5.1	4.9	6.2	5.9	4.7	USEPA IO 3.4
Lead as Pb	µg/m^3	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	µg/m^3	2000	94	132	81	109	142	171	125	91	117	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m^3	100	1.5	2.6	3.3	3.4	1.6	2.5	2.3	2.4	2.5	IS 5182 (PART-9) RA 2019

Ø PM2.5, PM10, SO_2, NO_2 and NH_3 is monitored on 24 hrs. Basis &CO, O_3 is monitored on 8 hrs basis.

Ø C_6H_6, B (a) P & Heavy Metals (As, Ni, Pb) is monitored on 24 hrs basis.

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M/s. Bharat Aluminium Company Limited,	Issue Date:	2026-09-04
KORBA (C.G.)	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT 540MW, DM PLANT (BALCO)

Analysis starting date :- 2026-08-03 **Analysis Completion date :- 2026-09-03**

Tests required: Sulphur Dioxide (SO_2), Nitrogen Dioxide (NOx), Particulate Matter (PM10), Particulate Matter (PM2.5), Ammonia (NH_3), Benzene (C_6H_6), Benzo (a) Pyrene in particulate phase, Heavy metals in particulate phase for Arsenic, Nickel & Lead.

TEST RESULTS

Parameters	Units	Limits	AAQ Location : 540MW, DM PLANT									
Sampling Date			2026-08-01	2026-08-06	2026-08-10	2026-08-12	2026-08-14	2026-08-18	2026-08-20	2026-08-24	2026-08-26	Method
Sulphur Dioxide as SO_2	µg/m^3	80	22.2	21.2	21.2	16.2	21.8	23.2	23.5	21.0	22.5	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m^3	80	14.1	9.6	13.9	15.9	13.8	13.3	11.9	13.9	13.5	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m^3	100	55.2	48.5	50.6	49.7	47.5	51.6	54.9	46.7	56.2	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m^3	60	20.2	17.4	19.1	19.8	16.9	18.6	21.2	16.2	20.8	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m^3	400	1.1	1.1	1.4	1.4	1.7	1.2	1.7	2.0	1.5	APHA 3rd Edition - 401
Benzene as C_6H_6	µg/m^3	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	IS 5182 (PART-11) RA 2017
Benzo(a) Pyrene in particulate phase	ng/m^3	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS 5182 (PART-12) RA 2019
Arsenic as As	ng/m^3	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	USEPA IO 3.4
Nickel as Ni	ng/m^3	20	4.8	3.2	5.7	6.3	4.4	5.9	4.2	5.1	6.6	USEPA IO 3.4
Lead as Pb	µg/m^3	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	µg/m^3	2000	239	161	198	248	157	139	251	184	149	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m^3	100	2.5	2.9	2.8	2.0	1.9	2.3	2.0	3.3	2.8	IS 5182 (PART-9) RA 2019

Ø PM2.5, PM10, SO_2, NO_2 and NH_3 is monitored on 24 hrs. Basis &CO, O_3 is monitored on 8 hrs basis.

Ø C_6H_6, B (a) P & Heavy Metals (As, Ni, Pb) is monitored on 24 hrs basis.

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M/s. Bharat Aluminium Company Limited,	Issue Date:	2026-09-04
KORBA (C.G.)	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT ROGBHERI VILLAGE (ASH DYKE)

Analysis starting date :- 2026-08-03 **Analysis Completion date :- 2026-09-03**

Tests required: Sulphur Dioxide (SO_2), Nitrogen Dioxide (NOx), Particulate Matter (PM10), Particulate Matter (PM2.5), Ammonia (NH3), Benzene (C_6H_6), Benzo (a) Pyrene in particulate phase, Heavy metals in particulate phase for Arsenic, Nickel & Lead.

TEST RESULTS

Parameters	Units	Limits	AAQ Location : ROGBHERI VILLAGE (ASH DYKE)									
Sampling Date			2026-08-01	2026-08-06	2026-08-10	2026-08-12	2026-08-14	2026-08-18	2026-08-20	2026-08-24	2026-08-26	Method
Sulphur Dioxide as SO_2	$\mu g/m^3$	80	15.6	11.7	13.1	15.7	16.9	11.9	13.4	12.7	14.2	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	$\mu g/m^3$	80	9.7	8.8	10.2	8.7	9.0	8.3	9.5	8.4	10.1	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	$\mu g/m^3$	100	43.9	39.4	36.7	48.5	40.7	46.8	43.8	38.7	44.2	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	$\mu g/m^3$	60	17.9	14.6	18.3	15.5	15.4	16.4	16.4	18.6	16.8	IS 5182 (PART-24) 2019
Ammonia as NH_3	$\mu g/m^3$	400	0.7	0.5	0.8	0.9	0.7	0.8	0.9	1.2	0.9	APHA 3rd Edition - 401
Benzene as C_6H_6	$\mu g/m^3$	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	IS 5182 (PART-11) RA 2017
Benzo(a) Pyrene in particulate phase	ng/m^3	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS 5182 (PART-12) RA 2019
Arsenic as As	ng/m^3	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	USEPA IO 3.4
Nickel as Ni	ng/m^3	20	5.6	6.7	4.1	5.8	5.2	6.8	6.3	5.8	6.1	USEPA IO 3.4
Lead as Pb	$\mu g/m^3$	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	$\mu g/m^3$	2000	76	93	109	86	132	71	98	114	85	IS 5182 (PART-10) RA 2019
Ozone as O_3	$\mu g/m^3$	100	1.2	1.5	1.8	1.3	1.6	1.2	1.4	1.8	1.3	IS 5182 (PART-9) RA 2019

Ø PM2.5, PM10, SO_2, NO_2 and NH_3 is monitored on 24 hrs. Basis &CO, O_3 is monitored on 8 hrs basis.

Ø C_6H_6, B (a) P & Heavy Metals (As, Ni, Pb) is monitored on 24 hrs basis.

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M/s. Bharat Aluminium Company Limited,	Issue Date:	2026-10-05
KORBA (C.G.)	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT PARSABHATA GATE (BALCO)

Analysis starting date :- 2026-09-04 **Analysis Completion date :- 2026-10-05**

Tests required: Sulphur Dioxide (SO_2), Nitrogen Dioxide (NOx), Particulate Matter (PM10), Particulate Matter (PM2.5), Ammonia (NH_3), Benzene (C_6H_6), Benzo (a) Pyrene in particulate phase, Heavy metals in particulate phase for Arsenic, Nickel & Lead.

TEST RESULTS

Parameters	Units	Limits	AAQ Location : PARSABHATA GATE									
Sampling Date			2026-09-03	2026-09-05	2026-09-09	2026-09-11	2026-09-15	2026-09-17	2026-09-21	2026-09-23	2026-09-28	Method
Sulphur Dioxide as SO_2	$\mu g/m^3$	80	22.9	25.5	25.4	27.0	27.9	30.7	25.9	31.6	33.3	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	$\mu g/m^3$	80	20.4	17.8	13.3	17.8	15.2	18.6	12.9	19.7	13.6	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	$\mu g/m^3$	100	49.0	44.7	56.1	54.6	63.1	51.9	48.1	46.7	57.3	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	$\mu g/m^3$	60	18.3	16.4	22.1	20.8	24.7	19.8	17.7	16.5	21.8	IS 5182 (PART-24) 2019
Ammonia as NH_3	$\mu g/m^3$	400	1.7	1.3	1.8	2.5	1.9	1.5	2.0	3.1	2.7	APHA 3rd Edition - 401
Benzene as C_6H_6	$\mu g/m^3$	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	IS 5182 (PART-11) RA 2017
Benzo(a) Pyrene in particulate phase	ng/m^3	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS 5182 (PART-12) RA 2019
Arsenic as As	ng/m^3	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	USEPA IO 3.4
Nickel as Ni	ng/m^3	20	6.1	5.7	6.9	4.7	4.4	5.6	6.1	5.3	4.5	USEPA IO 3.4
Lead as Pb	$\mu g/m^3$	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	$\mu g/m^3$	2000	177	128	152	137	95	149	180	156	209	IS 5182 (PART-10) RA 2019
Ozone as O_3	$\mu g/m^3$	100	4.3	5.1	2.8	4.2	5.4	3.2	5.7	7.5	5.2	IS 5182 (PART-9) RA 2019

Ø PM2.5, PM10, SO_2, NO_2 and NH_3 is monitored on 24 hrs. Basis &CO, O_3 is monitored on 8 hrs basis.

Ø C_6H_6, B (a) P & Heavy Metals (As, Ni, Pb) is monitored on 24 hrs basis.

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ISSUED TO:	Report No.:	VLL/VLS/26-27/15382/002
M/s. Bharat Aluminium Company Limited,	Issue Date:	2026-10-05
KORBA (C.G.)	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT ETP SMELTER (BALCO)

Analysis starting date :- 2026-09-04 **Analysis Completion date :- 2026-10-05**

Tests required: Sulphur Dioxide (SO_2), Nitrogen Dioxide (NOx), Particulate Matter (PM10), Particulate Matter (PM2.5), Ammonia (NH3), Benzene (C_6H_6), Benzo (a) Pyrene in particulate phase, Heavy metals in particulate phase for Arsenic, Nickel & Lead.

TEST RESULTS

Parameters	Units	Limits	AAQ Location : ETP SMELTER									
Sampling Date			**2026-09-03**	**2026-09-05**	**2026-09-09**	**2026-09-11**	**2026-09-15**	**2026-09-17**	**2026-09-21**	**2026-09-23**	**2026-09-28**	**Method**
Sulphur Dioxide as SO_2	µg/m^3	80	28.7	27.6	28.2	27.0	30.6	31.5	30.3	30.1	24.9	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m^3	80	19.3	14.4	12.5	15.1	17.5	14.0	17.9	14.5	11.4	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m^3	100	46.9	56.1	42.7	54.3	45.8	62.2	50.9	63.8	52.6	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m^3	60	18.2	21.4	15.7	20.7	17.2	23.7	19.4	24.7	20.3	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m^3	400	1.5	2.2	1.3	2.7	1.5	2.1	2.7	1.4	1.5	APHA 3rd Edition - 401
Benzene as C_6H_6	µg/m^3	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	IS 5182 (PART-11) RA 2017
Benzo(a) Pyrene in particulate phase	ng/m^3	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS 5182 (PART-12) RA 2019
Arsenic as As	ng/m^3	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	USEPA IO 3.4
Nickel as Ni	ng/m^3	20	5.8	5.3	6.9	6.4	5.8	5.2	6.6	4.9	5.7	USEPA IO 3.4
Lead as Pb	µg/m^3	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	µg/m^3	2000	154	87	196	247	176	248	209	185	212	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m^3	100	3.8	8.7	2.1	6.4	4.2	5.5	7.8	5.7	3.8	IS 5182 (PART-9) RA 2019

Ø PM2.5, PM10, SO_2, NO_2 and NH_3 is monitored on 24 hrs. Basis &CO, O_3 is monitored on 8 hrs basis.

Ø C_6H_6, B (a) P & Heavy Metals (As, Ni, Pb) is monitored on 24 hrs basis.

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M/s. Bharat Aluminium Company Limited,	Issue Date:	2026-10-05
KORBA (C.G.)	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT COMPRESSOR HOUSE (BALCO)

Analysis starting date :- 2026-09-04 **Analysis Completion date :- 2026-10-05**

Tests required: Sulphur Dioxide (SO_2), Nitrogen Dioxide (NOx), Particulate Matter (PM10), Particulate Matter (PM2.5), Ammonia (NH3), Benzene (C_6H_6), Benzo (a) Pyrene in particulate phase, Heavy metals in particulate phase for Arsenic, Nickel & Lead.

TEST RESULTS

Parameters	Units	Limits	AAQ Location : COMPRESSOR HOUSE									
Sampling Date			2026-09-03	2026-09-05	2026-09-09	2026-09-11	2026-09-15	2026-09-17	2026-09-21	2026-09-23	2026-09-28	Method
Sulphur Dioxide as SO_2	mg/m^3	80.0	28.4	23.2	22.8	27.8	28.2	26.1	28.2	30.8	32.3	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	mg/m^3	80.0	16.5	16.8	11.8	17.4	16.0	13.7	15.0	17.7	11.5	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	mg/m^3	100.0	50.5	47.5	53.8	46.1	55.6	53.9	48.6	55.3	47.4	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	mg/m^3	60.0	20.6	16.5	20.9	19.3	20.6	19.6	17.8	15.5	18.2	IS 5182 (PART-24) 2019
Ammonia as NH_3	mg/m^3	400.0	1.1	1.2	3.6	1.5	1.3	1.7	2.2	3.5	3.1	APHA 3rd Edition - 401
Benzene as C_6H_6	mg/m^3	5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	IS 5182 (PART-11) RA 2017
Benzo(a) Pyrene in particulate phase	ng/m^3	1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS 5182 (PART-12) RA 2019
Arsenic as As	ng/m^3	6.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	USEPA IO 3.4
Nickel as Ni	ng/m^3	20.0	6.3	4.7	5.2	5.8	4.4	4.6	6.1	5.8	5.4	USEPA IO 3.4
Lead as Pb	mg/m^3	1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	mg/m^3	2000.0	165	192	176	231	153	174	112	96	149	IS 5182 (PART-10) RA 2019
Ozone as O_3	mg/m^3	100.0	4.4	6.2	10.0	5.4	4.7	3.3	4.8	5.4	9.3	IS 5182 (PART-9) RA 2019

Ø PM2.5, PM10, SO_2, NO_2 and NH_3 is monitored on 24 hrs. Basis &CO, O_3 is monitored on 8 hrs basis.

Ø C_6H_6, B (a) P & Heavy Metals (As, Ni, Pb) is monitored on 24 hrs basis.

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M/s. Bharat Aluminium Company Limited,	Issue Date:	2026-10-05
KORBA (C.G.)	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT RAILWAY CONTROL ROOM (BALCO)

Analysis starting date :- 2026-09-04 **Analysis Completion date :- 2026-10-05**

Tests required: Sulphur Dioxide (SO_2), Nitrogen Dioxide (NOx), Particulate Matter (PM10), Particulate Matter (PM2.5), Ammonia (NH3), Benzene (C_6H_6), Benzo (a) Pyrene in particulate phase, Heavy metals in particulate phase for Arsenic, Nickel & Lead.

TEST RESULTS

Parameters	Units	Limits	AAQ Location : RAILWAY CONTROL ROOM									
Sampling Date			2026-09-03	2026-09-05	2026-09-09	2026-09-11	2026-09-15	2026-09-17	2026-09-21	2026-09-23	2026-09-28	Method
Sulphur Dioxide as SO_2	µg/m³	80	24.2	26.1	25.6	27.0	24.3	28.8	31.2	32.3	30.3	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m³	80	13.9	12.7	11.7	14.8	14.4	13.1	12.5	11.1	9.8	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m³	100	46.0	52.7	48.9	54.7	52.8	51.7	50.4	47.3	53.2	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m³	60	16.7	20.1	17.8	23.1	21.7	19.4	18.6	15.8	21.2	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m³	400	1.4	1.2	1.3	1.3	1.2	1.6	1.4	2.1	2.3	APHA 3rd Edition - 401
Benzene as C_6H_6	µg/m³	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	IS 5182 (PART-11) RA 2017
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS 5182 (PART-12) RA 2019
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	USEPA IO 3.4
Nickel as Ni	ng/m³	20	5.1	3.7	5.8	4.9	5.7	5.4	4.8	6.7	5.3	USEPA IO 3.4
Lead as Pb	µg/m³	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	µg/m³	2000	86	119	163	144	93	163	147	107	151	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m³	100	2.0	3.6	3.5	4.0	2.2	2.8	8.9	4.7	4.8	IS 5182 (PART-9) RA 2019

Ø PM2.5, PM10, SO_2, NO_2 and NH_3 is monitored on 24 hrs. Basis &CO, O_3 is monitored on 8 hrs basis.

Ø C_6H_6, B (a) P & Heavy Metals (As, Ni, Pb) is monitored on 24 hrs basis.

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M/s. Bharat Aluminium Company Limited,	Report No.:	VLL/VLS/26-27/15382/005
KORBA (C.G.)	Issue Date:	2026-10-05
	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT 540MW, DM PLANT (BALCO)

Analysis starting date :- 2026-09-04 **Analysis Completion date :- 2026-10-05**

Tests required: Sulphur Dioxide (SO_2), Nitrogen Dioxide (NOx), Particulate Matter (PM10), Particulate Matter (PM2.5), Ammonia (NH3), Benzene (C_6H_6), Benzo (a) Pyrene in particulate phase, Heavy metals in particulate phase for Arsenic, Nickel & Lead.

TEST RESULTS

Parameters	Units	Limits	AAQ Location : 540MW, DM PLANT									
Sampling Date			2026-09-03	2026-09-05	2026-09-09	2026-09-11	2026-09-15	2026-09-17	2026-09-21	2026-09-23	2026-09-28	Method
Sulphur Dioxide as SO_2	µg/m³	80	23.8	21.6	22.6	24.4	21.4	28.5	23.5	28.6	26.1	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m³	80	16.4	16.5	13.3	14.5	15.2	13.7	14.9	11.5	12.2	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m³	100	45.8	49.2	52.1	58.4	51.7	56.2	53.8	46.2	55.9	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m³	60	16.8	18.7	20.2	22.2	19.8	22.5	20.3	17.6	21.4	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m³	400	1.3	1.6	1.7	2.4	1.5	1.9	2.7	1.1	1.2	APHA 3rd Edition - 401
Benzene as C_6H_6	µg/m³	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	IS 5182 (PART-11) RA 2017
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS 5182 (PART-12) RA 2019
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	USEPA IO 3.4
Nickel as Ni	ng/m³	20	5.6	5.3	4.8	6.2	5.1	4.8	6.7	5.8	5.2	USEPA IO 3.4
Lead as Pb	µg/m³	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	µg/m³	2000	301	259	159	234	167	185	147	218	196	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m³	100	6.9	5.2	2.9	7.0	3.2	4.5	10.7	8.0	7.3	IS 5182 (PART-9) RA 2019

Ø PM2.5, PM10, SO_2, NO_2 and NH_3 is monitored on 24 hrs. Basis &CO, O_3 is monitored on 8 hrs basis.

Ø C_6H_6, B (a) P & Heavy Metals (As, Ni, Pb) is monitored on 24 hrs basis.

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M/s. Bharat Aluminium Company Limited,	Issue Date:	2026-10-05
KORBA (C.G.)	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT ROGBHERI VILLAGE (ASH DYKE)

Analysis starting date :- 2026-09-04 **Analysis Completion date :- 2026-10-05**

Tests required: Sulphur Dioxide (SO_2), Nitrogen Dioxide (NOx), Particulate Matter (PM10), Particulate Matter (PM2.5), Ammonia (NH3), Benzene (C_6H_6), Benzo (a) Pyrene in particulate phase, Heavy metals in particulate phase for Arsenic, Nickel & Lead.

TEST RESULTS

Parameters	Units	Limits	AAQ Location : ROGBHERI VILLAGE (ASH DYKE)									
Sampling Date			2026-09-03	2026-09-05	2026-09-09	2026-09-11	2026-09-15	2026-09-17	2026-09-21	2026-09-23	2026-09-28	Method
Sulphur Dioxide as SO_2	µg/m³	80	17.2	19.6	13.5	14.8	17.6	14.0	18.0	16.1	17.3	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m³	80	10.4	11.2	9.1	10.2	11.5	8.9	10.3	9.3	8.7	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m³	100	42.8	51.7	46.7	48.2	51.6	49.3	43.0	56.9	44.1	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m³	60	14.2	19.6	17.9	19.2	20.3	18.8	15.1	22.1	16.9	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m³	400	0.7	0.9	1.1	1.0	0.8	1.0	0.7	1.1	0.9	APHA 3rd Edition - 401
Benzene as C_6H_6	µg/m³	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	IS 5182 (PART-11) RA 2017
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS 5182 (PART-12) RA 2019
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	USEPA IO 3.4
Nickel as Ni	ng/m³	20	6.2	5.7	5.5	5.9	6.4	6.8	4.6	5.9	5.3	USEPA IO 3.4
Lead as Pb	µg/m³	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	µg/m³	2000	83	91	78	135	104	93	79	82	127	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m³	100	1.5	1.9	1.1	1.6	1.3	1.5	2.0	1.6	1.8	IS 5182 (PART-9) RA 2019

Ø PM2.5, PM10, SO_2, NO_2 and NH_3 is monitored on 24 hrs. Basis &CO, O_3 is monitored on 8 hrs basis.

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Security: Internal (C3)

Aluminium Smelter Plant

Status of Action Points CREP Guidelines recommended for Aluminium Smelter

Sl. No.	Issues	Action Point	Compliance Status
1	Technology	Allowing Pot lines only with Pre-baked Technology. Environment clearance new pot lines to be given by MoEF, after June 2003, only with prebaked technology	Aluminium Smelter based on Soderberg technology has been phased out during the year 2009. BALCO has adopted Pre-baked GAMI technology for Aluminium Smelting in its currently operating pot lines.
2	Fluoride Emissions	Prescribing maximum size of the plant. Maximum size of the plant shall be decided based on the assimilative capacity of each plant location.	-
		Revision of fluoride emission standard. For Soderberg Technology 2.8 kg/t by December 2005 [1.0kg/t (VCS) & 1.30 kg/t 9HSS) by December 2010]	BALCO is operating Aluminium Smelters based on prebaked technology.
		Phasing out Wet Scrubbing System for Fluoride. For Pre-baked Technology 0.8 kg/T by December 2006	FTPs with dry scrubbing systems have been installed in smelters & the total fluoride emission from the smelters is within the range of 0.8 Kg/T of Al. produced.
		Allowing new Pot lines only with Dry Scrubbing System Environmental clearance for new pot lines shall be given by MoEF, after June 2003, only with Dry Scrubbing System.	BALCO has installed FTPs with dry scrubbing system in Pot lines.
		Monitoring of fugitive emissions from pot rooms To start with Indal or any other better method & submit data from January 2004, regularly to SPCBs & CPCB	Fugitive fluoride is being monitored and reports being submitted to CECB monthly and to Ministry with half Yearly compliance report.
3	Fluoride Consumption	Fluoride consumption tonne of aluminum produced (as F)	CREP (Corporate Responsibility for Environmental

Sensitivity: Public (C4)

		[For Soderberg Technology 15 kg/t by December 2005 For Pre-baked technology 10kg/t by December 2005]	Protection) recommendation prescribing Specific Fluoride consumption less than 10 kg/ton of aluminium has been amended to specific AlF3 consumption less than 20 kg/ton of aluminium as per the Gazette Notification dated 21st July 2025 under the Environment (Protection) Fifth Amendment Rules, 2025, issued by the Ministry of Environment, Forest and Climate Change, Government of India. The revised standard replaces the earlier entry under Serial No. 36 of Schedule I of the Environment (Protection) Rules, 1986 and we will be complying to the same.
4	Ambient Fluoride	Forage fluoride standards (Dry weight basis) * Twelve consecutive months average-40 ppm * Two consecutive months Average- 60 ppm * One month – 80 ppm Measurement of forage Fluoride To start monitoring and submit data from January 2004, regularly to SPCBs & CPCB. The locations of monitoring may be selected in collaboration with SPCBs & CPCB	Forage fluoride in the surrounding areas /villages is being measured and analyzed by a third party NABL accredited Lab. Reports are submitted to CECB monthly and to Ministry with half yearly compliance report.
5	Spent Pot Lining (SPL)	Setting up a centralized SPL treatment & disposal facility with aluminum fluoride recovery and utilization of SPL in steel/ cement industries Limit for pot life, (for new pots installed after December 31, 2003 2500 day (average)	As per CPCB approved SOP, treatment and detoxification of SPL-Carbon through authorized co-processors is being carried out. The authorized co-processor supplies the SPL Carbon to cement /steel plant after detoxification as per SOP. BALCO has adopted Pre-baked technology. We are trying to maximize the lining life to an average of 2500 days.

Sensitivity: Public (C4)

		SPL (Carbon & Refractory) to be disposed in Secured Landfill	The SPL-Carbon portion generated from smelter is being sent to authorized co-processor for detoxification which in turn is sending the detoxified material for further utilization in various industries including cement and steel as per the approved Hazardous Waste Authorization. Currently, SPL refractory is being disposed to KESDA TSDF as per the approved Hazardous waste Authorization. No dispatch is being done to cement industry w.e.f. May'26 as per guidelines received from CECB.
6	Red Mud	Phasing Wet disposal Red Mud utilization To achieve minimum 50% solids in red mud by Dec. 2005 A proposal for practical utilization to be prepared by Aluminium Association of India within six months	Not Applicable for BALCO at present, as no Alumina Refinery is being operated.
7	Anode Baking Oven	Achieving particulate matter limit of 50 mg/Nm^3 by Dec. 2005	Complied.

Sensitivity: Public (C4)

Thermal Power Plant

Status of Action Points CREP Guidelines recommended for Thermal Power Plant

Sl. No.	Action Point	Compliance Status
1	Implementation of Environmental Standards (emission & effluent) in non- compliant Power Plants (31 & 27) • Submission of action plan : June 30, 2003 • Placement of order for Pollution of control equipment : September, 2003 • Installation & commission: December 31, 2005.	Not applicable
2	For existing thermal power plants, a feasibility study shall be carried out by Central Electricity Authority (CEA) to examine possibility to reduce the particulate matter emissions to 100 mg/Nm3. The studies shall also suggest the road map to meet 100 mg/Nm3 wherever found feasible. CEA shall submit the report by March 2004.	Not applicable
3	New / expansion power projects to be accorded environmental clearance on or after 1.1.2003 shall meet the limit of 100 mg/Nm3 for particulate matter.	Hybrid ESP's have been commissioned and emissions are maintained below the stipulated standards of 50 mg/$NM^{3.}$
4	Development of SO2 & NOx emission standards for coal based plants by December 2003. • New/ expansion power projects shall meet the limit of SO2 & NOx w.e.f. 1.1.2005. • Existing power plants shall meet the limit of SO2 & NOX w.e.f. 1.1.2006.	The timeline for SO2 has been extended for 3 years and for BALCO, it has been extended up to 31 December 2028 vide MoEF&CC gazette notification dated 30 December 2024. Complied with Nox emission.
5	Install/activate opacity meters/ continuous monitoring system in all the units by December 31, 2004 with proper calibration system.	Continuous online monitors have already been installed in all the units. Proper calibration schedules are being followed for calibration of the instruments.
6	Development of guidelines/ standards for mercury and other toxic heavy metals emissions by December 2003.	Complied.
7	Review of stack height requirement and guidelines for power plants based on micro meteorological data by June 2003	Complied.
8	Implementation of use of beneficiated coal as per GOI Notification:	Not applicable

Sensitivity: Public (C4)

	Power plants will sign fuel supply agreement (FSA) to meet the requirement as per the matrix prepared by CEA for compliance of the notification as short term measure. Options/mechanism for setting up of coal washeries as a long term measure • Coal India will up its own washery • State Electricity Board to set up its own washery • Coal India to ask private entrepreneurs to set up washeries for CIL and taking washing charges • SEBs to select a private entrepreneur to set up a washery near pit- head installation of coal beneficiation plant	
9	Power plants will indicate their requirement of abandoned coal mines for ash disposal & Coal India/ MOC shall provide the list of abandoned mines by June 2003 to CEA	Complied.
10	Power plants will provide dry ash to the users outside the premises or uninterrupted access to the users within six months.	We are utilizing fly ash in sustainable avenues like Road Construction, NHAI, Cement Industry, Brick Manufacturing Units and stone quarry filling.
11	Power Plants should provide dry fly ash free of cost to the users	We have provision of supplying dry fly ash free of cost for other users.
12	State P.W.Ds/ construction & development agencies shall also adhere to the specifications/Schedules of CPWD for ash based products utilization MoEF will take up the matter with State Governments.	Not applicable
13	(i) New plants to be accorded environmental clearance on or after 01.04.2003 shall adopt dry fly ash extraction or dry disposal system or Medium (35-40%) ash concentration slurry disposal system or Lean phase with hundred percent ash water re-circulation system depending upon site specific environmental situation. (ii) Existing plants shall adopt any of the systems mentioned in 13 (i) by December 2004.	The unit has adopted High Concentration Slurry Disposal (HCSD) method for ash disposal.
14	Fly ash Mission shall prepare guidelines/manuals for fly ash utilization by March 2004.	Noted.

Sensitivity: Public (C4)

15	New plants shall promote adoption of clean coal and clean power generation technologies	Noted.

Sensitivity: Public (C4)

Annexure-IV

...र्थप्रिया
...नवम्बर 2003

...यों को ... संबंध ... दन हेतु ... स्थापना ... कारी के ... निर्वाचन ... ति प्रदान ... ति आरा ... ारी ... एवं ... पहेतम ... 3 तथा ... -3 इस

कार्य संपादन करने से संबंधित कार्यों को प्रभारी अधिकारी के रूप में उप जिला कार्य संपादन करने से संबंधित कार्यों को प्रभारी अधिकारी के रूप में उप जिला निर्वाचन अधिकारी श्रीमती भारती ओगरे एवं एस.एल.धृतलहरे डिप्टी कलेक्टर संयुक्त रूप से अपने दायित्वों का निर्वहन करेंगे तथा जे.आर.चौरसिया तहसीलदार कोरबा, एस.के.वैद्य अतिरिक्त तहसीलदार एवं जे.खलखो सहायक सांख्यिकी अधिकारी इस कार्य में उनके निर्देशानुसार कार्य

नाम निर्देशन प्रक्रिया से संबंधित समस्त कार्य संपादन हेतु जिन अधिकारियों एवं कर्मचारियों की ड्यूटी लगाई गई है वे 7 नवंबर से प्रतिदिन 10.30 बजे से अपने निर्धारित स्थान पर अपने कर्तव्यों पर उपस्थित रहेंगे तथा किसी भी स्थिति में 3 बजे से पहले अपनी सीट को नहीं छोड़ेंगे तथा पूर्ण तत्परता से अपने दायित्वों का निर्वहन करेंगे। कोई भी अधिकारी कर्मचारी उप जिला निर्वाचन अधिकारी की बिना अनुमति कार्यालय से प्रस्थान नहीं करेंगे।

भारत एल्यूमिनियम कंपनी लिमिटेड
कोरबा, छत्तीसगढ़

सर्वसाधारण को यह सूचित किया जाता है कि पर्यावरण व वन मंत्रालय भारत सरकार ने भारत एल्यूमिनियम कंपनी लिमिटेड (बालको) की एल्यूमिना रिफाइनरी और स्मेल्टर की विस्तार परियोजना को पर्यावरणीय मंजूरी दे दी है। अनुमति पत्र की प्रति छत्तीसगढ़ पर्यावरण संरक्षण मंडल और पर्यावरण व वन मंत्रालय की वेबसाइट http:/envfor.nic.in में उपलब्ध है।

कृते, भारत एल्यूमिनियम कंपनी
लिमिटेड कोरबा, छत्तीसगढ़

CENTRAL
2 Chronicle
RAIPUR, NOVEMBER 11, 2003

		NAGPUR	D	0920
		NAGPUR	A	0845
0730	A	RAIPUR	D	0805

MUMBAI - RAIPUR - BHUBANESWAR - MUMBAI

IC 169		DAILY		IC 169
1000	D	MUMBAI	A	1545
1130	A	RAIPUR		
1205	D	RAIPUR		
1305	A	BHUBANESHWAR	D	1345

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Bharat Aluminium Co. Ltd.
Korba, Chhattisgarh

This is to inform to general public that Ministry of Environment and Forests, Govt. of India has granted Environmental Clearance for Bharat Aluminium Company Limited's (Balco) expansion project of Alumina Refinery and Smelter. Copy of the Clearance letter is available at Chhattisgarh Environment Conservation Board and in the MOEF website http:/envfor.nic.in.

For Bharat Aluminium Co. Ltd.
Korba, Chhattisgarh