BALCO/ENV/A-02(A)/2026/434

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 Report (April 2026 to September 2026) of the expansion of Aluminum Smelter Plant (3.5 to 9.0 LTPA) and Captive Power Plant (300MW) at Korba, Chhattisgarh by BALCO

Respected Sir,

As per the Environmental Clearance (No. J- 11011/123/2007.IA-II (I) dated 16.09.2008 received for the Expansion of Smelter & Power Plant, M/s Bharat Aluminium Company Limited, Korba has set up the smelter plant, phase-1, (3.25 LTPA). Please find enclosed herewith the compliance report along with the necessary supporting documents.

We hope that the above is in line with the provisions stipulated in the Environmental Clearance. If you require any further information, we will be glad to provide the same.

Thanking you,

Yours Truly,
On behalf of Bharat Aluminum Company Ltd.

(Authorized Signatory)

Encl: a/a

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

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CIN : U74899DL1965PLC004518 | **Tel :** 011-42262400 | **Web :** www.vedantaaluminium.com www.balcoindia.com |
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Sensitivity: Internal (C3)

Compliance Status of Expansion of Aluminium Smelter Plant from 3.5 to 9.0 LTPA and Captive Power Plant 300 MW
AT-KORBA, CHHATTISGARH BY M/s BHARAT ALUMINIUM CO. LTD (BALCO)
No. J-11011/123/2007-IA-II (I) MoEF&CC dated 16.09.2008
Duration: April 2026 to September 2026

A. SPECIFIC CONDITION

Sl. No.	Conditions	Compliance status
i	The gaseous emissions (PM, SO_2, NOx, PAH, HC, VOCs, and Fluoride) from various process units shall conform to the standard prescribed from time to time. The CECB 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. The particulate emissions from the bake oven plant shall not exceed 50 mg/Nm3.	Pollution Control devices like bag filters, dry scrubbers and FTPs have been installed to ensure that emissions are well within the permissible limits, including the particulate emissions from bake oven plant. CEMS has been installed in the stacks of all units and connected with CPCB and CECB servers for real-time continuous data monitoring. The monthly stack monitoring reports are submitted to CECB every month.
ii	Electrostatic precipitator (ESP) shall be provided to Captive Power Plant (CPP) to control emissions below 50 mg/Nm3. The company shall provide bag-filters, dry scrubbing system and dust suppression system to control all the emissions including fluoride emissions from all melting and casting units. Tar, dust and fluoride in the fumes shall be controlled in baking furnace by providing dry scrubber. The emissions shall conform to the standards prescribed by the Ministry/CPCB/SPCB whichever is more stringent.	300 MW power plant has not been set up as per EC approval hence the condition "Electrostatic precipitator (ESP) shall be provided to Captive Power Plant (CPP) to control emissions below 50 mg/Nm3" is not applicable. BALCO has installed bag-filters, dry scrubbing system and dust suppression system to control the emissions including Fluoride emissions from all units. Tar, dust and fluoride in the fumes are controlled in baking furnace by the dry scrubber. CEMS has been installed and connected with CPCB and CECB servers for real-time continuous data monitoring. The monthly stack monitoring reports are submitted to CECB every month.
iii	The poly-aromatic hydrocarbons (PAH) from the carbon plant (anode bake oven) shall not exceed 2 mg/Nm3. The data on PAH shall be monitored quarterly and report submitted regularly to the Ministry/Regional Office at Bhopal and CECB.	Poly-aromatic hydrocarbons (PAH) from Bake oven plant are regularly monitored and reports are submitted to CECB every month. Copy of monthly stack monitoring reports are attached as **Annexure – I**.

iv	Particulate fluoride emissions shall not be more than 0.65 mg/Nm3 and fugitive Particulate fluoride emissions from pot room shall not be more than 1.85 mg/Nm3.	State of the art technology (Prebaked technology, Ports with point feeder control), has been installed in the smelters. Systems for covering the pots with properly designed hoods and fume treatment plant are in place to ensure Fluoride emissions (Particulate and Fugitive) are within the stipulated norms.
v	Fluoride consumption shall be less than 10 kg/ton of Aluminium produced as specified in the CREP guidelines.	CREP (Corporate Responsibility for Environmental 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 the specific AlF3 consumption is within the prescribed limit .
vi	In-plant control measures like fume extraction and dust extraction system for controlling fugitive emissions from all the material handling/transfer points shall be provided to control dust emissions. Fugitive fluoride emissions from the pot room and in the forage around the smelter complex shall be monitored and data submitted regularly to the Ministry's Regional Office at Bhopal and CECB. Further dry scrubbing system to control the emissions from the pot lines shall be provided.	State of the art technology, PFPB, has been installed in the smelters. System for covering the pots with properly designed hoods, fume treatment plant based on dry scrubbing and bag filter technology and dust suppression and dust extraction systems are in place to check fugitive emissions. Fluoride emissions from pot rooms and forage Fluoride around the smelter complex are monitored regularly. Copy of fugitive emission reports attached as **Annexure – II** and copy of forage Fluoride monitoring reports attached as **Annexure – III**.
vii	Total water requirement for the expansion from Hasdeo River shall not exceed 1253 m3/hr and prior permission for the existing and proposed expansion shall be obtained from the concerned department before commissioning of the plant. All the effluent including from cooling tower and de-mineralization plant shall be treated in the effluent treatment plant and treated effluent shall be recycled / reutilized in the process in the smelter and CPP and also for fire protection, dust suppression, green belt development etc. Domestic effluent shall be treated in Sewage	Noted. Effluent Treatment Plant with RO system is in place and treated effluent from ETP is being used in the process. For treatment of domestic effluent, Sewage Treatment plant has been installed and treated water is being used for green belt development.

	Treatment Plant (STP) and treated domestic wastewater will be used for green belt development.	
viii	No effluent shall be discharged outside the premises during the non-monsoon period and during the monsoon period water shall be discharged only after proper treatment and meeting the norms of the CECB/CPCB.	Complied. During monsoon season, under emergency situations storm water is discharged conforming to norms.
ix	Regular ground water monitoring shall be carried out by installing Piezometers all around the secured landfill site in consultation with the Chhattisgarh Environment Conservation Board, Central Ground Water Authority and State Ground Water Board and data submitted to the Ministry's Regional Office and CECB.	Piezometers have been installed all around the secured landfill site and ground water monitoring is being carried out every month. The monthly monitoring reports are submitted to CECB every month. Copy of ground water quality monitoring reports are attached as **Annexure–IV.**
x	Anode butts generated from the pots shall be cleaned and recycled to the Anode Plant. The spent pot lining generated from the smelter shall be properly treated in spent pot lining treatment plant to remove fluoride and cyanide and disposed off to the Cement/Steel plants and as minimum as possible to secured landfill. The location and design of the landfill site shall be approved by the CECB as per Hazardous Wastes' (Management and Handling) Rules 1989 and amended in 2003. Leachate collection facilities shall be provided to the secured landfill facility (SLF). The dross shall be recycled in the cast house. STP sludge shall be utilized as manure for green belt development. All the used oil and batteries shall be sold to the authorized recyclers/ re-processors.	All hazardous waste generated is managed and disposed of in accordance with the valid Hazardous Waste Authorization granted by CECB. The waste is either stored in the authorized Secured Landfill Facility (SLF) or disposed of through authorized recyclers and co-processors, ensuring compliance with the applicable Hazardous and Other Wastes Management Rules.
xi	Integrated Ash Management Plan shall be prepared for the utilization of fly ash as per Fly Ash Notification, 1999 as amended in 2003 and implemented. A copy of the plan shall be submitted to the Ministry's Regional Office. Fly ash shall be collected pneumatically in silos and used by cement and brick manufacturers for further utilization. Bottom Ash shall be disposed off in ash pond using high concentrated slurry disposal method.	300 MW Power Plant has not been set up, and this clause is not applicable.
xii	Green belt of adequate width and density around the project site shall be developed in 33 % area in	Extensive tree plantation is being carried out every year in all open spaces available in and around the BALCO Plant including ash dyke and

	consultation with the DFO as per the CPCB guidelines having density of 2,000 trees/ha.	township. Approximate ~77,000 saplings were planted under GAP plantation and CSR in the year 2025-26.
xiii	Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	Occupational health surveillance of the employees is being carried out as per the Factories Act and the records are being submitted to the Department of Industrial Health & Safety (Govt. of Chhattisgarh) through the Online Portal (cglabour.nic.in) on regular basis.
xiv	The company shall develop rainwater structures to harvest the run-off water for recharge of ground water in consultation with the Central Ground Water authority/ State Ground Water Board.	Rainwater harvesting system is in place to harvest the run-off water.
xv	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Aluminium sector shall be strictly implemented.	The compliance status of the recommendations made in the Charter on Corporate Responsibility for Environmental Protection (CREP) is attached as **Annexure-V.**
xvi	All the environmental conditions stipulated by the Ministry vide letter no. J-11011/34/2003-1A II (I) dated 5th November 2003 for the Alumina Refinery and Aluminium Smelter Plant shall be complied and regular compliance report submitted to the Ministry's Regional Office at Bhopal.	Compliance status for the environmental conditions stipulated by the Ministry vide letter no. J-11011/34/2003-1A II (I) dated 5th November 2003 for the Alumina Refinery and Aluminium Smelter Plant is submitted regularly to Ministry's Regional Office at Bhopal/Nagpur. Last report was submitted vide our letter no. BALCO/ENV/A-02(A)/2026/208 dated 15th May 2026.
xvii	The company shall comply with all the commitments made during public hearing/public consultation held on 16th November 2007. The company shall prepare the action plan for implementation of the commitments and same shall be submitted to the Ministry and its Regional Office at Bhopal and Chhattisgarh Environmental Conservation Board Raipur.	Complied.
xviii	Prior permission from the State Forest Department shall be obtained due to the likely impact of transport of raw material and end product and gaseous emissions from the smelter on the surrounding reserve forests and wildlife. Recommendations regarding mitigative measures suggested by the State Forest department and Chief Wildlife Warden, Govt. of Chhattisgarh shall be strictly followed.	BALCO has the required transport infrastructure (Rail & Road) in place. A letter has been sent to the Principal Chief Conservator of Forest on 18.11.2015 vide Letter No. Balco / Sm3.25LTPA / Env / 01(A) / 2015 / 380 and is being followed up regularly. Further, the impact due to transportation and operations was evaluated in the EIA for expansion project and the Wildlife Conservation/ Management Plan was prepared. This has been discussed during the EC Appraisal process.

xix	Ministry of Environment and Forests shall regularly be informed about the source and quantity of Alumina procured from captive/indigenous/imported sources.	The source and quantity of Alumina procurement from April'2026 to September 2026 is as follows: 1. Indigenous –**110941** (Vedanta Limited, Lanjigarh, Odisha) 2. Indigenous –**66580** MT (Utkal Alumina, Odisha, Muri Alumina - Jharkhand) 3. Imported – **521179** MT (Kendawangan, Indonesia, Kijang, Indonesia, Gladstone, Australia and Bunbury Australia)
xx	Alumina shall be obtained only from those refineries, which have been accorded environmental clearance by the Ministry of Environment and Forests.	Complied with. Alumina procured from the sister concern (Vedanta Limited, (Lanjigarh) has the required EC from MoEF&CC (No. J-11011/81/2003-IA-II dated 22.09.2004, No. J-11011/53/2014-IA.II dated 20.11.2015, No. J-11011/406/2011-IA.II(I) dated 06.08.2021).

B. General Condition

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 expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	Complied with.
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.	AAQ stations have been set up both in upwind and downwind directions at locations approved by the State Pollution Control Board. Copy of monthly stack emission monitoring reports attached as **Annexure – I.** Copy of monthly fugitive emission monitoring reports attached as **Annexure –II.** Copy of monthly ambient air quality monitoring reports attached as **Annexure – VI.**
iv	Industrial wastewater should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended form time to time. The treated wastewater should be recycled in the plant as well as utilization for plantation purposes.	Effluent Treatment Plant with RO system is in place and treated effluent from ETP is being used in the plant activities.
v	The project authorities shall with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the	Authorization in accordance with Hazardous and other Waste (Management, and Transboundary Movement) Rules 2016 has already been obtained

	Hazardous Wastes (Management and Handling) Rules 2003. Authorization from the CECB must be obtained for collection, storage, treatment and disposal of hazardous wastes.	from CECB vide letter No. 7732/HSMD/HO/CECB/2026 Raipur dated 06.10.2026 for generation, collection, storage, transport, reuse, recycling and disposal of hazardous wastes.
vi	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 (Night time)	Equipment designed to ensure that noise level at plant boundary area is within the stipulated level of 85 dB.
vii	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP/risk analysis and DMP report.	Complied with.
viii	As proposed in EIA/EMP Rs. 216.50 Crores earmarked toward the capital cost and recurring the expenditure/annum for environmental protection measures shall be used judiciously to implement the condition stipulated by the Ministry of Environment and Forests as well as the state Government. The funds so provided shall not be diverted for any other purposes.	Complied with.
ix	The Regional Office of this Ministry at Bhopal/Central pollution Control Board/CECB 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. EC Compliance was last submitted vide letter no BALCO/ENV/A-02(A)/2026/208 dated 15th May 2026. Monthly reports are submitted regularly to Regional Office.
x	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. Copy of newspaper advertisements attached as **Annexure–VII.**
xi	The project authorities should inform the regional office as well as the Ministry, the date of financial	The expansion project of Aluminium smelter from 3.25 LTPA to 9.0 LTPA was approved by MoEFCC

	closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	vide EC letter No. J-11011/123/2007-IA-II (I) MoEF dated 16.09.2008 and Consent to Establish vide letter No. 4567/TS/CECB/2022 dated 12.11.2010. We have commenced the land development work as per the Consent to Establish and final approval i.e. Consent to Operate vide letter No. 3747/TS/CECB/2013 dated 25.10.2013.
6.0	The Ministry may; revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted.
7.0	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in at time bound manner will implement these conditions	Noted.
8.0	Any appeal against this environment clearance shall lie with the national environment appellate authority, if preferred within a period of 30 days as prescribed under section 11 of the National Environment Appellate Act, 1997.	Noted.
9.0	The above conditions will be enforced, inter-alia under the provisions of the water (Prevention& Control of Pollution) Act 1974, the Air (Prevention &Control of Pollution) Act, 1981, the Environment Protection Act, 1986, Hazardous Wastes (Management and Handling) Rules, 1989/2003 and the Public Liability insurance Act, 1991 along with their amendments and rules.	Noted.

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ISSUED TO: M/s. Bharat Aluminium Company Limited KORBA (C.G.)	Report No.:	VLL/VLS/26-27/02504/PL-2
	Issue Date:	2026-05-05
	P.O No:	3402001553
	P.O Date:	2025-10-01

Sample Particular:- STACK EMISSION MONITORING AT POTLINE - 2

Analysis starting date :- 2026-04-22 **Analysis Completion date :- 2026-04-23**

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

TEST RESULTS

POTLINE - 2					POTLINE - 2 FTP - 1	POTLINE - 2 FTP - 2	Method
S No.	Location	Parameter	Limits (Max)	Units	2026-04-21	2026-04-21	
1	POTLINE - 2	Height of the stack	-	m	80	80	-
2		Diameter	-	m	8.2	8.2	-
3		Area of Cross section	-	m^2	52.831	52.831	-
4		Stack Temperature	-	°C	110	108	-
5		Stack Pressure	-	mmHg	728	727	-
6		Velocity	-	m/s	13.7	13.1	USEPA M-2
7		Volumetric Flow Rate	-	Nm^3/Hr	1941991	1864124	
8		Particulate Matter (PM)	30	mg/Nm^3	8.21	7.48	USEPA M-5
9		Particulate Fluoride	0.65	mg/Nm^3	0.054	0.067	USEPA M-13B
10		Gaseous Fluoride	-	mg/Nm^3	0.320	0.492	
11		Total Fluoride as F	0.8	kg/ton of Al	0.032	0.046	

***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

Dr. Subba Reddy Mallampati
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Sensitivity: Internal (C3)

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ISSUED TO: M/s. Bharat Aluminium Company Limited KORBA (C.G.)	Report No:	VLL/VLS/26-27/02504/GAP-2
	Issue Date:	2026-05-05
	P.O No:	3402001553
	P.O Date:	2025-10-01

Sample Particular:- STACK EMISSION MONITORING AT GAP - 2

Analysis starting date :- 2026-04-25

Analysis Completion date :- 2026-04-25

Test Required :- PM;

TEST RESULTS

GAP - 2					GAP - 2 D 6	GAP - 2 D 7	GAP - 2 D 8	GAP - 2 D 9	Method
S No.	Location	Parameter	Limits (Max)	Units	2026-04-24	2026-04-24	2026-04-24	2026-04-24	
1	GAP - 2	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	57	74	58	65	-
5		Stack Pressure	-	mmHg	727	727	727	726	-
6		Velocity	-	m/s	8.6	8.9	8.1	8.8	USEPA M-2
7		Volumetric Flow Rate	-	Nm^3/Hr	68090	2685	2562	67931	
8		Particulate Matter (PM)	30	mg/Nm^3	8.7	7.2	6.8	10.2	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

ENVIRONMENT LABORATORY Vimta VIMTA LABS REGD. No- DL 33004/03 Sr. No.-5

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ISSUED TO:		
M/s. Bharat Aluminium Company Limited	Report No.:	VLL/VLS/26-27/05017/PL-2
KORBA (C.G.)	Issue Date:	2026-06-04
	P.O No:	3402001553
	P.O Date:	2025-10-01

Sample Particular:- STACK EMISSION MONITORING AT POTLINE - 2

Analysis starting date :- 2026-05-14 **Analysis Completion date :- 2026-05-16**

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

TEST RESULTS

POTLINE - 2					POTLINE - 2 FTP - 1	POTLINE - 2 FTP - 2	Method
S No.	**Location**	**Parameter**	**Limits (Max)**	**Units**	**2026-05-13**	**2026-05-14**	
1	POTLINE - 2	Height of the stack	-	m	80	80	-
2		Diameter	-	m	8.2	8.2	-
3		Area of Cross section	-	m^2	52.831	52.831	-
4		Stack Temperature	-	°C	105	105	-
5		Stack Pressure	-	mmHg	724	724	-
6		Velocity	-	m/s	10.0	10.2	USEPA M-2
7		Volumetric Flow Rate	-	Nm^3/Hr	1428370	1456938	
8		Particulate Matter (PM)	30	mg/Nm^3	4.68	4.66	USEPA M-5
9		Particulate Fluoride	0.65	mg/Nm^3	0.117	0.113	USEPA M-13B
10		Gaseous Fluoride	-	mg/Nm^3	0.378	0.413	
11		Total Fluoride as F	0.8	kg/ton of Al	0.031	0.033	

***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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ISSUED TO:		
M/s. Bharat Aluminium Company Limited	Report No:	VLL/VLS/26-27/05017/GAP-2
KORBA (C.G.)	Issue Date:	2026-06-04
	P.O No:	3402001553
	P.O Date:	2025-10-01

Sample Particular:- STACK EMISSION MONITORING AT GAP - 2

Analysis starting date :- 2026-05-26 **Analysis Completion date :- 2026-05-26**

Test Required :- PM;

TEST RESULTS

GAP - 2					GAP - 2 D 6	GAP - 2 D 7	GAP - 2 D 8	GAP - 2 D 9	Method
S No.	**Location**	**Parameter**	**Limits (Max)**	**Units**	**2026-05-25**	**2026-05-25**	**2026-05-25**	**2026-05-25**	
1	GAP - 2	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	55	70	52	63	-
5		Stack Pressure	-	mmHg	726	727	726	726	-
6		Velocity	-	m/s	8.9	8.9	7.7	8.8	USEPA M-2
7		Volumetric Flow Rate	-	Nm^3/Hr	70797	2716	2477	68335	
8		Particulate Matter (PM)	30	mg/Nm^3	11.3	6.9	7.3	9.7	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:	Report No.:	VLL/VLS/26-27/07623/PL-2
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 - 2

Analysis starting date :- 2026-06-26 **Analysis Completion date :- 2026-06-30**

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

TEST RESULTS

POTLINE - 2					POTLINE - 2 FTP - 1	POTLINE - 2 FTP - 2	Method
S No.	Location	Parameter	Limits (Max)	Units	2026-06-25	2026-06-25	
1	POTLINE - 2	Height of the stack	-	m	80	80	-
2		Diameter	-	m	8.2	8.2	-
3		Area of Cross section	-	m^2	52.831	52.831	-
4		Stack Temperature	-	°C	105	106	-
5		Stack Pressure	-	mmHg	724	724	-
6		Velocity	-	m/s	10.9	10.0	USEPA M-2
7		Volumetric Flow Rate	-	Nm^3/Hr	1556923	1424601	
8		Particulate Matter (PM)	30	mg/Nm^3	3.68	3.55	USEPA M-5
9		Particulate Fluoride	0.65	mg/Nm^3	0.082	0.083	USEPA M-13B
10		Gaseous Fluoride	-	mg/Nm^3	0.371	0.375	
11		Total Fluoride as F	0.8	kg/ton of Al	0.031	0.029	

***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

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ISSUED TO:		
M/s. Bharat Aluminium Company Limited	Report No:	VLL/VLS/26-27/07623/GAP-2
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 - 2

Analysis starting date :- 2026-06-18 **Analysis Completion date :- 2026-06-18**

Test Required :- PM;

TEST RESULTS

GAP - 2					GAP - 2 D 6	GAP - 2 D 7	GAP - 2 D 8	GAP - 2 D 9	Method
S No.	Location	Parameter	Limits (Max)	Units	2026-06-17	2026-06-17	2026-06-17	2026-06-17	
1	GAP - 2	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	48	67	43	58	-
5		Stack Pressure	-	mmHg	727	727	727	726	-
6		Velocity	-	m/s	9.5	7.1	8.3	8.1	USEPA M-2
7		Volumetric Flow Rate	-	Nm^3/Hr	77324	2186	2749	63849	
8		Particulate Matter (PM)	30	mg/Nm^3	8.2	6.5	5.8	7.8	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 REGD. No- DL 33004/99 Sr. No.-5

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ISSUED TO: M/s. Bharat Aluminium Company Limited KORBA (C.G.)	Report No.:	VLL/VLS/26-27/10232/PL-2
	Issue Date:	2026-08-05
	P.O No:	3402001553
	P.O Date:	2025-10-01

Sample Particular:- STACK EMISSION MONITORING AT POTLINE - 2

Analysis starting date :- 2026-07-28 **Analysis Completion date :- 2026-08-01**

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

TEST RESULTS

POTLINE - 2					POTLINE - 2 FTP - 1	POTLINE - 2 FTP - 2	Method
S No.	Location	Parameter	Limits (Max)	Units	2026-07-27	2026-07-31	
1	POTLINE - 2	Height of the stack	-	m	80	80	-
2		Diameter	-	m	8.2	8.2	-
3		Area of Cross section	-	m^2	52.831	52.831	-
4		Stack Temperature	-	°C	106	103	-
5		Stack Pressure	-	mmHg	722	721	-
6		Velocity	-	m/s	12.8	12.6	USEPA M-2
7		Volumetric Flow Rate	-	Nm^3/Hr	1818452	1801822	
8		Particulate Matter (PM)	30	mg/Nm^3	2.67	5.26	USEPA M-5
9		Particulate Fluoride	0.65	mg/Nm^3	0.088	0.086	USEPA M-13B
10		Gaseous Fluoride	-	mg/Nm^3	0.317	0.273	
11		Total Fluoride as F	0.8	kg/ton of Al	0.032	0.028	

*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
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ISSUED TO:		
M/s. Bharat Aluminium Company Limited	Report No:	VLL/VLS/26-27/10232/GAP-2
KORBA (C.G.)	Issue Date:	2026-08-05
	P.O No:	3402001553
	P.O Date:	2025-10-01

Sample Particular:- STACK EMISSION MONITORING AT GAP - 2

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

Test Required :- PM;

TEST RESULTS

GAP - 2					GAP - 2 D 6	GAP - 2 D 7	GAP - 2 D 8	GAP - 2 D 9	Method
S No.	Location	Parameter	Limits (Max)	Units	2026-07-03	2026-07-03	2026-07-03	2026-07-03	
1	GAP - 2	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	46	52	47	62	-
5		Stack Pressure	-	mmHg	724	723	723	722	-
6		Velocity	-	m/s	9.5	7.2	8.8	8.1	USEPA M-2
7		Volumetric Flow Rate	-	Nm^3/Hr	77488	2306	2863	62739	
8		Particulate Matter (PM)	30	mg/Nm^3	9.1	7.3	10.8	6.9	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 VIMTA LABS REGD. No- DL 33003/99 Sr. No.-5

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ISSUED TO:		
M/s. Bharat Aluminium Company Limited	Report No.:	VLL/VLS/26-27/13104/PL-2
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 - 2

Analysis starting date :- 2026-08-17 **Analysis Completion date :- 2026-08-31**

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

TEST RESULTS

POTLINE - 2					POTLINE - 2 FTP - 1	POTLINE - 2 FTP - 2	Method
S No.	**Location**	**Parameter**	**Limits (Max)**	**Units**	**2026-08-28**	**2026-08-14**	
1	POTLINE - 2	Height of the stack	-	m	80	80	-
2		Diameter	-	m	8.2	8.2	-
3		Area of Cross section	-	m^2	52.831	52.831	-
4		Stack Temperature	-	°C	108	108	-
5		Stack Pressure	-	mmHg	722	725	-
6		Velocity	-	m/s	11.7	9.7	USEPA M-2
7		Volumetric Flow Rate	-	Nm^3/Hr	1653454	1376508	
8		Particulate Matter (PM)	30	mg/Nm^3	2.94	3.04	USEPA M-5
9		Particulate Fluoride	0.65	mg/Nm^3	0.116	0.076	USEPA M-13B
10		Gaseous Fluoride	-	mg/Nm^3	0.313	0.331	
11		Total Fluoride as F	0.8	kg/ton of Al	0.031	0.024	

***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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ISSUED TO:	Report No:	VLL/VLS/26-27/13104/GAP-2
M/s. Bharat Aluminium Company Limited	Issue Date:	2026-09-04
KORBA (C.G.)	P.O No:	3402001553
	P.O Date:	2025-10-01

Sample Particular:- STACK EMISSION MONITORING AT GAP - 2

Analysis starting date :- 2026-08-06 **Analysis Completion date :- 2026-08-06**

Test Required :- PM;

TEST RESULTS

GAP - 2					GAP - 2 D 6	GAP - 2 D 7	GAP - 2 D 8	GAP - 2 D 9	Method
S No.	Location	Parameter	Limits (Max)	Units	2026-08-05	2026-08-05	2026-08-05	2026-08-05	
1	GAP - 2	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	46	58	47	68	-
5		Stack Pressure	-	mmHg	724	725	726	725	-
6		Velocity	-	m/s	7.2	8.3	11.1	8.2	USEPA M-2
7		Volumetric Flow Rate	-	Nm^3/Hr	58728	2618	3626	62656	
8		Particulate Matter (PM)	30	mg/Nm^3	9.5	12.3	7.5	13.8	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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REGD. No- DL 33004/99
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ISSUED TO:		
M/s. Bharat Aluminium Company Limited	Report No.:	VLL/VLS/26-27/15382/PL-2
KORBA (C.G.)	Issue Date:	2026-10-05
	P.O No:	3402001553
	P.O Date:	2025-10-01

Sample Particular:- STACK EMISSION MONITORING AT POTLINE - 2

Analysis starting date :- 2026-09-22 **Analysis Completion date :- 2026-10-01**

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

TEST RESULTS

POTLINE - 2					POTLINE - 2 FTP - 1	POTLINE - 2 FTP - 2	Method
S No.	Location	Parameter	Limits (Max)	Units	2026-09-30	2026-09-21	
1	POTLINE - 2	Height of the stack	-	m	80	80	-
2		Diameter	-	m	8.2	8.2	-
3		Area of Cross section	-	m^2	52.831	52.831	-
4		Stack Temperature	-	°C	110	105	-
5		Stack Pressure	-	mmHg	730	727	-
6		Velocity	-	m/s	10.1	9.8	USEPA M-2
7		Volumetric Flow Rate	-	Nm^3/Hr	1435620	1405603	
8		Particulate Matter (PM)	30	mg/Nm^3	2.73	2.86	USEPA M-5
9		Particulate Fluoride	0.65	mg/Nm^3	0.089	0.081	USEPA M-13B
10		Gaseous Fluoride	-	mg/Nm^3	0.295	0.272	
11		Total Fluoride as F	0.8	kg/ton of Al	0.024	0.022	

***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 Sr. No. VIMTA

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ISSUED TO:		
M/s. Bharat Aluminium Company Limited	Report No:	VLL/VLS/26-27/15382/GAP-2
KORBA (C.G.)	Issue Date:	2026-10-05
	P.O No:	3402001553
	P.O Date:	2025-10-01

Sample Particular:- STACK EMISSION MONITORING AT GAP - 2

Analysis starting date :- 2026-09-07 **Analysis Completion date :- 2026-09-07**

Test Required :- PM;

TEST RESULTS

GAP - 2					GAP - 2 D 6	GAP - 2 D 7	GAP - 2 D 8	GAP - 2 D 9	Method
S No.	Location	Parameter	Limits (Max)	Units	2026-09-05	2026-09-05	2026-09-05	2026-09-05	
1	GAP - 2	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	54	40	64	-
5		Stack Pressure	-	mmHg	731	731	730	730	-
6		Velocity	-	m/s	7.4	9.4	11.2	7.7	USEPA M-2
7		Volumetric Flow Rate	-	Nm^3/Hr	61717	3026	3761	59944	
8		Particulate Matter (PM)	30	mg/Nm^3	8.1	8.9	6.5	10.6	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:	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**

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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:		
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**

ENVIRONMENT LABORATORY Vimta REGD. NO. VLL/ISO/0058 VIMTA

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ISSUED TO:		
M/s. Bharat Aluminium Company Limited KORBA (C.G.)	Report No:	VLL/VLS/26-27/10232/BO
	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**

ENVIRONMENT LABORATORY Vimta VIMTA LABS REGD. No- DL 33004/99 Sr. No. 4

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

FUGITIVE EMISSION MONITORING AT POT LINE - 2

Registration Date: 2026-04-23 **Sampling Date:** 2026-04-22
Analysis starting date : 2026-04-23 **Analysis Completion date:** 2026-04-24

Test Required :- PM, Fluoride;

TEST RESULTS

S. No.	Parameter	Units	Limits (Max)	POT LINE -2			
				Section 1	Section 2	Section 7	Section 8
				2026-04-22	2026-04-23	2026-04-23	2026-04-22
1	Particulate Fluoride	mg/Nm^3	1.85	0.025	0.028	0.023	0.025

Remarks: Instrument Used – Handy Sampler & APM 460 BL Respirable Dust Sampler.

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M/s. Bharat Aluminium Company Limited,	Issue Date:	2026-06-04
KORBA (C.G.)	P.O.No:	3402001553
	P.O. Date:	2025-10-01

FUGITIVE EMISSION MONITORING AT POT LINE - 2

Registration Date: 2026-05-11 **Sampling Date:** 2026-05-08
Analysis starting date : 2026-05-11 **Analysis Completion date:** 2026-05-12

Test Required :- PM, Fluoride;

TEST RESULTS

S. No.	Parameter	Units	Limits (Max)	POT LINE -2			
				Section 1	Section 2	Section 7	Section 8
				2026-05-08	2026-05-09	2026-05-09	2026-05-08
1	Particulate Fluoride	mg/Nm^3	1.85	0.027	0.025	0.030	0.033

Remarks: Instrument Used – Handy Sampler & APM 460 BL Respirable Dust Sampler.

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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

FUGITIVE EMISSION MONITORING AT POT LINE - 2

Registration Date: 2026-06-28 **Sampling Date:** 2026-06-23

Analysis starting date : 2026-06-28 **Analysis Completion date:** 2026-06-30

Test Required :- Particulate Fluoride;

TEST RESULTS

S. No.	Parameter	Units	Limits (Max)	POT LINE -2	
				Line 1	Line 2
				2026-06-23	2026-06-24
1	Particulate Fluoride	mg/Nm^3	1.85	0.016	0.014

Remarks: Instrument Used – Handy Sampler & APM 460 BL Respirable Dust Sampler.

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

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

FUGITIVE EMISSION MONITORING AT POT LINE - 2

Registration Date: 2026-07-07 **Sampling Date:** 2026-07-06

Analysis starting date : 2026-07-07 **Analysis Completion date:** 2026-07-09

Test Required :- Particulate Fluoride;

TEST RESULTS

S. No.	Parameter	Units	Limits (Max)	POT LINE -2	
				Line 1	Line 2
				2026-07-06	2026-07-07
1	Particulate Fluoride	mg/Nm^3	1.85	0.027	0.026

Remarks: Instrument Used – Handy Sampler & APM 460 BL Respirable Dust Sampler.

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

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KORBA (C.G.)	P.O.No:	3402001553
	P.O. Date:	2025-10-01

FUGITIVE EMISSION MONITORING AT POT LINE - 2

Registration Date: 2026-08-12 **Sampling Date:** 2026-08-11
Analysis starting date : 2026-08-12 **Analysis Completion date:** 2026-08-13

Test Required :- Particulate Fluoride;

TEST RESULTS

S. No.	Parameter	Units	Limits (Max)	POT LINE -2	
				Line 1	Line 2
				2026-08-11	2026-08-12
1	Particulate Fluoride	mg/Nm^3	1.85	0.020	0.025

Remarks: Instrument Used – Handy Sampler & APM 460 BL Respirable Dust Sampler.

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KORBA (C.G.)	Issue Date:	2026-10-05
	P.O.No:	3402001553
	P.O. Date:	2025-10-01

FUGITIVE EMISSION MONITORING AT POT LINE - 2

Registration Date: 2026-09-10 **Sampling Date:** 2026-09-09
Analysis starting date : 2026-09-10 **Analysis Completion date:** 2026-09-11

Test Required :- Particulate Fluoride;

TEST RESULTS

S. No.	Parameter	Units	Limits (Max)	POT LINE -2	
				Line 1	Line 2
				2026-09-09	2026-09-10
1	Particulate Fluoride	mg/Nm^3	1.85	0.022	0.021

Remarks: Instrument Used – Handy Sampler & APM 460 BL Respirable Dust Sampler.

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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

FORAGE FLUORIDE

Registration Date: **2026-04-08** **Sampling Date:** **2026-04-06**

Analysis starting date: **2026-04-09** **Analysis Completion date:** **2026-04-15**

Test Required :- Fluoride;

TEST RESULTS

S. No.	Location	Unit	Norms	Results
1	In Side of the plant	PPM	80	41
2	Near Parsabhata	PPM	80	20
3	Near Lal ghat	PPM	80	26
4	Near check post	PPM	80	16
5	Near Sharma petrol pump	PPM	80	18
6	Bhadrapara	PPM	80	14
7	Risdi	PPM	80	12
8	Rampur	PPM	80	10
9	Manikpur	PPM	80	12
10	jambahar	PPM	80	14
11	Rumgarha	PPM	80	16
12	Gerwan	PPM	80	10

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KORBA (C.G.)	P.O.No:	3402001553
	P.O. Date:	2025-10-01

FORAGE FLUORIDE

Registration Date: 2026-05-08 **Sampling Date:** 2026-05-04
Analysis starting date: 2026-05-11 **Analysis Completion date:** 2026-05-14

Test Required :- Fluoride;

TEST RESULTS

S. No.	Location	Unit	Norms	Results
1	In Side of the plant	PPM	80	37
2	Near Parsabhata	PPM	80	16
3	Near Lal ghat	PPM	80	21
4	Near check post	PPM	80	14
5	Near Sharma petrol pump	PPM	80	22
6	Bhadrapara	PPM	80	13
7	Risdi	PPM	80	15
8	Rampur	PPM	80	10
9	Manikpur	PPM	80	12
10	jambahar	PPM	80	10
11	Rumgarha	PPM	80	11
12	Gerwan	PPM	80	9

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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

FORAGE FLUORIDE

Registration Date: **2026-06-15** **Sampling Date:** **2026-06-10**

Analysis starting date: **2026-06-15** **Analysis Completion date:** **2026-06-19**

Test Required :- Fluoride;

TEST RESULTS

S. No.	Location	Unit	Norms	Results
1	In Side of the plant	PPM	80	39
2	Near Parsabhata	PPM	80	21
3	Near Lal ghat	PPM	80	18
4	Near check post	PPM	80	16
5	Near Sharma petrol pump	PPM	80	24
6	Bhadrapara	PPM	80	18
7	Risdi	PPM	80	13
8	Rampur	PPM	80	9
9	Manikpur	PPM	80	14
10	jambahar	PPM	80	12
11	Rumgarha	PPM	80	8
12	Gerwan	PPM	80	10

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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

FORAGE FLUORIDE

Registration Date: **2026-07-21** **Sampling Date:** **2026-07-20**

Analysis starting date: **2026-07-21** **Analysis Completion date:** **2026-07-25**

Test Required :- Fluoride;

TEST RESULTS

S. No.	Location	Unit	Norms	Results
1	In Side of the plant	PPM	80	34
2	Near Parsabhata	PPM	80	19
3	Near Lal ghat	PPM	80	15
4	Near check post	PPM	80	14
5	Near Sharma petrol pump	PPM	80	21
6	Bhadrapara	PPM	80	19
7	Risdi	PPM	80	11
8	Rampur	PPM	80	10
9	Manikpur	PPM	80	13
10	jambahar	PPM	80	10
11	Rumgarha	PPM	80	9
12	Gerwan	PPM	80	12

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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

FORAGE FLUORIDE

Registration Date: **2026-08-10** **Sampling Date:** **2026-08-08**
Analysis starting date: **2026-08-10** **Analysis Completion date:** **2026-08-17**

Test Required :- Fluoride;

TEST RESULTS

S. No.	Location	Unit	Norms	Results
1	In Side of the plant	PPM	80	31
2	Near Parsabhata	PPM	80	17
3	Near Lal ghat	PPM	80	20
4	Near check post	PPM	80	13
5	Near Sharma petrol pump	PPM	80	18
6	Bhadrapara	PPM	80	16
7	Risdi	PPM	80	13
8	Rampur	PPM	80	12
9	Manikpur	PPM	80	16
10	jambahar	PPM	80	12
11	Rumgarha	PPM	80	8
12	Gerwan	PPM	80	11

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

FORAGE FLUORIDE

Registration Date: **2026-09-08**
Analysis starting date: **2026-09-10**
Sampling Date: **2026-09-05**
Analysis Completion date: **2026-09-12**

Test Required :- Fluoride;

TEST RESULTS

S. No.	Location	Unit	Norms	Results
1	In Side of the plant	PPM	80	34
2	Near Parsabhata	PPM	80	14
3	Near Lal ghat	PPM	80	17
4	Near check post	PPM	80	15
5	Near Sharma petrol pump	PPM	80	20
6	Bhadrapara	PPM	80	14
7	Risdi	PPM	80	16
8	Rampur	PPM	80	10
9	Manikpur	PPM	80	13
10	jambahar	PPM	80	9
11	Rumgarha	PPM	80	10
12	Gerwan	PPM	80	12

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ISSUED TO:

M/s. Bharat Aluminum Company Limited,
BALCO
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Chhattisgarh

Report Number	:	**VLL/VLS/26-27/02504/001**
Issued Date	:	**2026-05-05**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (BALCO PLANT)**

Sample Registration Date	:	2026-04-12	Sampling Date	:	2026-04-06
Analysis Starting Date	:	2026-04-12	Analysis Completion Date	:	2026-04-28
Test Required	:	Water Analysis as per IS 10500 : 2012			
SAMPLE COLLECTED BY VIMTA LABS LTD.					

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Rogbheri (B/W)*	*Rogbheri (D/W)*	*Bailgiri Basti(B/W)*	*Bailgiri Basti(D/W)*
1	pH value	-	6.5-8.5 (NR)	6.81	7.08	6.98	7.14
2	Color	Hazen	5(15)	Colorless	Colorless	Colorless	Colorless
3	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	1(5)	4	3	1	2
6	Total dissolved solids at 180^{0}C	mg/l	500(2000)	410	330	530	398
7	Total Hardness as $CaCO_3$	mg/l	200(600)	258	130	295	248
8	Total Alkalinity as $CaCO_3$	mg/l	200(600)	125	116	260	165
9	Calcium as Ca	mg/l	75(200)	68.0	28.7	74.0	63.2
10	Magnesium as Mg	mg/l	30(100)	21.4	14.3	26.7	21.9
11	Free Residual chlorine	mg/l	0.2(1.0)	<0.1	<0.1	<0.1	<0.1
12	Boron as B	mg/l	0.5(1.0)	0.024	0.016	0.018	0.023
13	Chlorides as Cl	mg/l	250(1000)	152.2	76.1	125.1	83.1
14	Sulphate as SO_4	mg/l	200(400)	63.9	30.6	45.8	28.4
15	Fluorides as F	mg/l	1.0(1.5)	0.279	0.319	0.518	0.490
16	Nitrates as NO_3	mg/l	45(NR)	4.3	3.8	5.6	2.7
17	Phenolic Compounds as C_6H_5OH	mg/l	0.001(0.002)	<0.001	<0.001	<0.001	<0.001
18	Cyanides	mg/l	0.05(NR)	<0.01	<0.01	<0.01	<0.01

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

Name and Designation of Authorized Signatory

ENVIRONMENT LABORATORY VIMTA LABS REGD. No- DL 3300/98 Sr. No.-5

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ISSUED TO:
M/s. Bharat Aluminum Company Limited,
BALCO
KORBA
Chhattisgarh

Report Number	:	**VLL/VLS/26-27/02504/001**
Issued Date	:	**2026-05-05**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (BALCO PLANT)**

Sample Registration Date	:	2026-04-12	Sampling Date	:	2026-04-06
Analysis Starting Date	:	2026-04-12	Analysis Completion Date	:	2026-04-28
Test Required	:	Water Analysis as per IS 10500 : 2012			
SAMPLE COLLECTED BY VIMTA LABS LTD.					

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Rogbheri (B/W)*	*Rogbheri (D/W)*	*Bailgiri Basti(B/W)*	*Bailgiri Basti(D/W)*
19	Anionic detergents as MBAS	mg/l	0.2(1.0)	<0.02	<0.02	<0.02	<0.02
20	Mineral oil	mg/l	0.5(NR)	Absent	Absent	Absent	Absent
21	Cadmium as Cd	mg/l	0.003(NR)	<0.003	<0.003	<0.003	<0.003
22	Total Arsenic as As	mg/l	0.01(0.05)	<0.01	<0.01	<0.01	<0.01
23	Copper as Cu	mg/l	0.05(1.5)	<0.01	<0.01	<0.01	<0.01
24	Lead as Pb	mg/l	0.01(NR)	<0.01	<0.01	<0.01	<0.01
25	Manganese as Mn	mg/l	0.1(0.3)	0.011	0.01	0.009	<0.01
26	Molybdenum as Mo	mg/l	0.07(NR)	<0.01	<0.01	<0.01	<0.01
27	Nickel as Ni	mg/l	0.02(NR)	<0.005	<0.005	<0.005	<0.005
28	Iron as Fe	mg/l	0.3(NR)	0.025	0.019	0.046	0.024
29	Total Chromium as Cr	mg/l	0.05(NR)	<0.005	<0.005	<0.005	<0.005
30	Selenium as Se	mg/l	0.05(NR)	<0.01	<0.01	<0.01	<0.01
31	Zinc as Zn	mg/l	5.0(15)	0.018	0.008	0.017	0.023
32	Aluminum as Al	mg/l	0.03(0.2)	0.01	0.026	0.021	0.013
33	Mercury as Hg	mg/l	0.001(NR)	<0.001	<0.001	<0.001	<0.001
34	Sulphide as H2S	mg/l	0.05(NR)	<0.05	<0.05	<0.05	<0.05
35	Chloramines as Cl2	mg/l	4.0(NR)	<0.05	<0.05	<0.05	<0.05
36	Ammonia (as total ammonia-N	mg/l	0.5(NR)	<0.05	<0.05	<0.05	<0.05
37	Barium as Ba	mg/l	0.7(NR)	0.017	0.021	0.018	0.027
38	Silver as Ag	mg/l	0.1(NR)	<0.01	<0.01	<0.01	<0.01

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

Name and Designation of Authorized Signatory

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

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ISSUED TO:

M/s. Bharat Aluminum Company Limited,
BALCO
KORBA
Chhattisgarh

Report Number	:	**VLL/VLS/26-27/02504/001**
Issued Date	:	**2026-05-05**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (BALCO PLANT)**

Sample Registration Date	:	2026-04-12	Sampling Date	:	2026-04-06
Analysis Starting Date	:	2026-04-12	Analysis Completion Date	:	2026-04-28
Test Required	:	Water Analysis as per IS 10500 : 2012			
SAMPLE COLLECTED BY VIMTA LABS LTD.					

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Rogbheri (B/W)*	*Rogbheri (D/W)*	*Bailgiri Basti(B/W)*	*Bailgiri Basti(D/W)*
39	Polychlorinated biphenyls	mg/l	0.0005(NR)	Absent	Absent	Absent	Absent
40	Polynuclear aromatic hydrocarbon as PAH	mg/l	0.0001(NR)	<0.0001	<0.0001	<0.0001	<0.0001
41	Bromoform	mg/l	0.1(NR)	<0.0001	<0.0001	<0.0001	<0.0001
42	Dibromochloromethane	mg/l	0.1(NR)	<0.01	<0.01	<0.01	<0.01
43	Bromodichloromethane	mg/l	0.06(NR)	<0.01	<0.01	<0.01	<0.01
44	Chloroform	mg/l	0.2(NR)	<0.001	<0.001	<0.001	<0.001
(A)	**Pesticides**						
45	Alachlor	µg/l	20	<0.01	<0.01	<0.01	<0.01
46	Atrazine	µg/l	2	<0.01	<0.01	<0.01	<0.01
47	Aldrin	µg/l	0.03	<0.01	<0.01	<0.01	<0.01
48	Alpha HCH	µg/l	0.01	<0.01	<0.01	<0.01	<0.01
49	Beta HCH	µg/l	0.04	<0.01	<0.01	<0.01	<0.01
50	Butachlor	µg/l	125	<0.01	<0.01	<0.01	<0.01
51	Chlorpyriphos	µg/l	30	<0.01	<0.01	<0.01	<0.01
52	Delta HCH	µg/l	0.04	<0.01	<0.01	<0.01	<0.01
53	2,4-Dichlorophenoxyacetic acid	µg/l	30	<0.01	<0.01	<0.01	<0.01
54	DDT	µg/l	1	<0.01	<0.01	<0.01	<0.01
55	Endosulfan (alpha, beta and Sulphate)	µg/l	0.4	<0.01	<0.01	<0.01	<0.01
56	Ethion	µg/l	3	<0.01	<0.01	<0.01	<0.01
57	Gamma HCH	µg/l	2	<0.01	<0.01	<0.01	<0.01
58	Isoproturon	µg/l	9	<0.01	<0.01	<0.01	<0.01

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

Name and Designation of Authorized Signatory

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Report Number	:	**VLL/VLS/26-27/02504/001**
Issued Date	:	**2026-05-05**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (BALCO PLANT)**

Sample Registration Date	:	2026-04-12	Sampling Date	:	2026-04-06
Analysis Starting Date	:	2026-04-12	Analysis Completion Date	:	2026-04-28
Test Required	:	Water Analysis as per IS 10500 : 2012			
SAMPLE COLLECTED BY VIMTA LABS LTD.					

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Rogbheri (B/W)*	*Rogbheri (D/W)*	*Bailgiri Basti(B/W)*	*Bailgiri Basti(D/W)*
59	Malathion	µg/l	190	BDL	BDL	BDL	BDL
60	Methyl parathion	µg/l	0.3	BDL	BDL	BDL	BDL
61	Monocrotophos	µg/l	1	BDL	BDL	BDL	BDL
62	Phorate	µg/l	2	BDL	BDL	BDL	BDL
63	E.coli	Per 100 ml	Absent	Absent	Absent	Absent	Absent
64	Total Coliforms	MPN/100ml	Absent	Absent	Absent	Absent	Absent
(B)	**Radioactive**						
65	Alpha emitters	Bq/l	0.1(NR)	BDL	BDL	BDL	BDL
66	Beta emitters	Bq/l	1.0(NR)	BDL	BDL	BDL	BDL

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

-END OF THE REPORTS-

Name and Designation of Authorized Signatory

ENVIRONMENT LABORATORY Vimta VIMTA LABS REGD. No- DL 33 Sr. No.-5

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Report Number	:	**VLL/VLS/26-27/02504/001**
Issued Date	:	**2026-05-05**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : GROUND WATER SAMPLES (BALCO PLANT)

Sample Registration Date	:	2026-04-12	Sampling Date	:	2026-04-06
Analysis Starting Date	:	2026-04-12	Analysis Completion Date	:	2026-04-28
Test Required	:	Water Analysis as per IS 10500 : 2012			

SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Parsabhata (B/W)*	*Parsabhata (D/W)*	*Karma Talkies(B/W)*	*Bhadrapada D/W)*
1	pH value	-	6.5-8.5 (NR)	7.24	6.72	6.82	6.88
2	Color	Hazen	5(15)	Colorless	Colorless	Colorless	Colorless
3	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	1(5)	2	3	3	2
6	Total dissolved solids at 180°C	mg/l	500(2000)	250	313	204	360
7	Total Hardness as $CaCO_3$	mg/l	200(600)	140	98	96	214
8	Total Alkalinity as $CaCO_3$	mg/l	200(600)	120	130	70	118
9	Calcium as Ca	mg/l	75(200)	34.4	23.0	18.4	52.0
10	Magnesium as Mg	mg/l	30(100)	12.6	9.7	12.2	20.4
11	Free Residual chlorine	mg/l	0.2(1.0)	<0.1	<0.1	<0.1	<0.1
12	Boron as B	mg/l	0.5(1.0)	0.034	0.015	0.022	0.011
13	Chlorides as Cl	mg/l	250(1000)	34.3	57.3	42.4	98.5
14	Sulphate as SO_4	mg/l	200(400)	19.1	23.4	28.8	27.3
15	Fluorides as F	mg/l	1.0(1.5)	0.352	0.366	0.251	0.283
16	Nitrates as NO_3	mg/l	45(NR)	1.9	2.6	1.5	7.4
17	Phenolic Compounds as C_6H_5OH	mg/l	0.001(0.002)	<0.001	<0.001	<0.001	<0.001
18	Cyanides as CN	mg/l	0.05(NR)	<0.01	<0.01	<0.01	<0.01

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

Name and Designation of Authorized Signatory

ENVIRONMENT LABORATORY Vimta VIMTA LABS REGD. No- DL-0000 Sr. No.-5

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Chhattisgarh

Report Number	:	**VLL/VLS/26-27/02504/001**
Issued Date	:	**2026-05-05**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (BALCO PLANT)**

Sample Registration Date	:	2026-04-12	Sampling Date	:	2026-04-06
Analysis Starting Date	:	2026-04-12	Analysis Completion Date	:	2026-04-28
Test Required	:	Water Analysis as per IS 10500 : 2012			

SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Parsabhata (B/W)*	*Parsabhata (D/W)*	*Karma Talkies(B/W)*	*Bhadrapada D/W)*
19	Anionic detergents as MBAS	mg/l	0.2(1.0)	<0.02	<0.02	<0.02	<0.02
20	Mineral oil	mg/l	0.5(NR)	Absent	Absent	Absent	Absent
21	Cadmium as Cd	mg/l	0.003(NR)	<0.003	<0.003	<0.003	<0.003
22	Total Arsenic as As	mg/l	0.01(0.05)	<0.01	<0.01	<0.01	<0.01
23	Copper as Cu	mg/l	0.05(1.5)	<0.01	<0.01	<0.01	<0.01
24	Lead as Pb	mg/l	0.01(NR)	<0.01	<0.01	<0.01	<0.01
25	Manganese as Mn	mg/l	0.1(0.3)	0.014	0.01	0.013	<0.01
26	Molybdenum as Mo	mg/l	0.07(NR)	<0.01	<0.01	<0.01	<0.01
27	Nickel as Ni	mg/l	0.02(NR)	<0.005	<0.005	<0.005	<0.005
28	Iron as Fe	mg/l	0.3(NR)	0.017	0.034	0.029	0.032
29	Total Chromium as Cr	mg/l	0.05(NR)	<0.005	<0.005	<0.005	<0.005
30	Selenium as Se	mg/l	0.05(NR)	<0.01	<0.01	<0.01	<0.01
31	Zinc as Zn	mg/l	5.0(15)	0.022	0.031	0.043	0.016
32	Aluminum as Al	mg/l	0.03(0.2)	0.017	0.023	0.031	0.23
33	Mercury as Hg	mg/l	0.001(NR)	<0.001	<0.001	<0.001	<0.001
34	Sulphide as H2S	mg/l	0.05(NR)	<0.05	<0.05	<0.05	<0.05
35	Chloramines as Cl2	mg/l	4.0(NR)	<0.05	<0.05	<0.05	<0.05
36	Ammonia (as total ammonia-N	mg/l	0.5(NR)	<0.05	<0.05	<0.05	<0.05
37	Barium as Ba	mg/l	0.7(NR)	0.023	0.018	0.013	0.026
38	Silver as Ag	mg/l	0.1(NR)	<0.01	<0.01	<0.01	<0.01

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

Name and Designation of Authorized Signatory

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KORBA
Chhattisgarh

Report Number	:	**VLL/VLS/26-27/02504/001**
Issued Date	:	**2026-05-05**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (BALCO PLANT)**

Sample Registration Date	:	2026-04-12	Sampling Date	:	2026-04-06
Analysis Starting Date	:	2026-04-12	Analysis Completion Date	:	2026-04-28
Test Required	:	Water Analysis as per IS 10500 : 2012			
SAMPLE COLLECTED BY VIMTA LABS LTD.					

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Parsabhata (B/W)*	*Parsabhata (D/W)*	*Karma Talkies(B/W)*	*Bhadrapada D/W)*
39	Polychlorinated biphenyls	mg/l	0.0005(NR)	Absent	Absent	Absent	Absent
40	Polynuclear aromatic hydrocarbon as PAH	mg/l	0.0001(NR)	<0.0001	<0.0001	<0.0001	<0.0001
41	Bromoform	mg/l	0.1(NR)	<0.0001	<0.0001	<0.0001	<0.0001
42	Dibromochloromethane	mg/l	0.1(NR)	<0.01	<0.01	<0.01	<0.01
43	Bromodichloromethane	mg/l	0.06(NR)	<0.01	<0.01	<0.01	<0.01
44	Chloroform	mg/l	0.2(NR)	<0.001	<0.001	<0.001	<0.001
(A)	**Pesticides**						
45	Alachlor	µg/l	20	<0.01	<0.01	<0.01	<0.01
46	Atrazine	µg/l	2	<0.01	<0.01	<0.01	<0.01
47	Aldrin	µg/l	0.03	<0.01	<0.01	<0.01	<0.01
48	Alpha HCH	µg/l	0.01	<0.01	<0.01	<0.01	<0.01
49	Beta HCH	µg/l	0.04	<0.01	<0.01	<0.01	<0.01
50	Butachlor	µg/l	125	<0.01	<0.01	<0.01	<0.01
51	Chlorpyriphos	µg/l	30	<0.01	<0.01	<0.01	<0.01
52	Delta HCH	µg/l	0.04	<0.01	<0.01	<0.01	<0.01
53	2,4-Dichlorophenoxyacetic acid	µg/l	30	<0.01	<0.01	<0.01	<0.01
54	DDT	µg/l	1	<0.01	<0.01	<0.01	<0.01
55	Endosulfan (alpha, beta and Sulphate)	µg/l	0.4	<0.01	<0.01	<0.01	<0.01
56	Ethion	µg/l	3	<0.01	<0.01	<0.01	<0.01
57	Gamma HCH	µg/l	2	<0.01	<0.01	<0.01	<0.01
58	Isoproturon	µg/l	9	<0.01	<0.01	<0.01	<0.01

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

Name and Designation of Authorized Signatory

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P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (BALCO PLANT)**

Sample Registration Date	:	2026-04-12	Sampling Date	:	2026-04-06
Analysis Starting Date	:	2026-04-12	Analysis Completion Date	:	2026-04-28
Test Required	:	Water Analysis as per IS 10500 : 2012			
SAMPLE COLLECTED BY VIMTA LABS LTD.					

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Parsabhata (B/W)*	*Parsabhata (D/W)*	*Karma Talkies(B/W)*	*Bhadrapada D/W)*
59	Malathion	µg/l	190	BDL	BDL	BDL	BDL
60	Methyl parathion	µg/l	0.3	BDL	BDL	BDL	BDL
61	Monocrotophos	µg/l	1	BDL	BDL	BDL	BDL
62	Phorate	µg/l	2	BDL	BDL	BDL	BDL
63	E.coli	Per 100 ml	Absent	Absent	Absent	Absent	Absent
64	Total Coliforms	MPN/100ml	Absent	Absent	Absent	Absent	Absent
(B)	**Radioactive**						
65	Alpha emitters	Bq/l	0.1(NR)	BDL	BDL	BDL	BDL
66	Beta emitters	Bq/l	1.0(NR)	BDL	BDL	BDL	BDL

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

Name and Designation of Authorized Signatory

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Report Number	:	**VLL/VLS/26-27/02504/001**
Issued Date	:	**2026-05-05**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **SURFACE WATER SAMPLE (BALCO PLANT)**

Sample Registration Date	:	2026-04-12	Sampling Date	:	2026-04-06
Analysis Starting Date	:	2026-04-12	Analysis Completion Date	:	2026-04-25
Samples Details	:	SW1-Bailgiri Nala (U/S)-Near Baigiri Village, SW2-Bailgiri Nala (D/S)-Near Bailgiri Basti, SW3- Dhengu Nala (U/S) Risbabasti SW4- Dhengu Nala (D/S)-near Check post Balco			

SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Sr. No.	Parameters	Unit	SW1	SW2	SW3	SW4
1	pH	-	7.10	7.49	7.62	6.29
2	Colour	Hazen	1	2	1	3
3	Conductivity	µS/cm	180	195	130	160
4	TDS	mg/l	115	125	83	104
5	DO	mg/l	6.2	4.6	6.0	5.8
6	BOD	mg/l	0.7	2.6	1.2	1.3
7	COD	mg/l	3.1	10	4.8	5.6
8	Turbidity	NTU	3.0	6.0	6.0	7.0
9	Total Hardness as $CaCO_3$	mg/l	53	54	40	42
10	Total Alkalinity as $CaCO_3$	mg/l	46	40	30	40
11	Calcium as Ca	mg/l	11.0	14.0	9.8	10.0
12	Magnesium as Mg	mg/l	6.2	4.5	3.7	4.2
13	Chlorides as Cl	mg/l	16.0	24.0	14.0	17.0
14	Residual free chlorine	mg/l	<0.2	<0.2	<0.2	<0.2
15	Phosphates as PO_4	mg/l	0.03	0.043	0.027	0.039
16	Sulphates as SO_4	mg/l	17.7	19.8	12.3	13.1
17	Fluorides as F	mg/l	0.066	0.229	0.348	0.328
18	Nitrates as NO_3	mg/l	0.9	1.2	0.9	1.1
19	Sodium as Na	mg/l	15.2	19.6	11	16.5
20	Potassium as K	mg/l	1.8	1.1	0.8	1.3
21	Total Boron as B	mg/l	<0.01	0.011	0.007	0.031
22	Phenolic Compounds	mg/l	<0.001	<0.001	<0.001	<0.001
23	Cyanides as CN	mg/l	<0.01	<0.01	<0.01	<0.01
24	Oil & grease	mg/l	<1.0	<1.0	<1.0	<1.0
25	Cadmium as Cd	mg/l	<0.003	<0.003	<0.003	<0.003
26	Arsenic as As	mg/l	<0.01	<0.01	<0.01	<0.01
27	Copper as Cu	mg/l	<0.01	<0.01	<0.01	<0.01
28	Lead as Pb	mg/l	<0.01	<0.01	<0.01	<0.01
29	Iron as Fe	mg/l	0.021	0.054	0.017	0.026
30	Chromium as Cr^{+6}	mg/l	<0.05	<0.05	<0.05	<0.05
31	Selenium as Se	mg/l	<0.01	<0.01	<0.01	<0.01
32	Zinc as Zn	mg/l	0.021	0.032	0.026	0.011
33	Aluminum as Al	mg/l	0.010	0.017	0.022	0.031
34	Mercury as Hg	mg/l	<0.001	<0.001	<0.001	<0.001
35	SAR	-	0.91	1.17	0.76	1.10
36	Insecticides	mg/l	Absent	Absent	Absent	Absent
37	Anionic detergents as MBAS	mg/l	Absent	Absent	Absent	Absent
38	Total Coliforms	MPN/100	38	54	26	34

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)

-END OF THE REPORTS-

Name and Designation of Authorized Signatory

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ISSUED TO:

M/s. Bharat Aluminum Company Limited,
BALCO
KORBA
Chhattisgarh

Report Number	:	**VLL/VLS/26-27/02504/002**
Issued Date	:	**2026-05-05**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **SURFACE WATER SAMPLE (BALCO PLANT)**

Sample Registration Date	:	2026-04-12	Sampling Date	:	2026-04-06
Analysis Starting Date	:	2026-04-12	Analysis Completion Date	:	2026-04-25
Samples Details	:	SW5- Hasdeo river near Ramgarh (U/S) SW6- Hasdeo river near Gerwaghat, SW7- Hasdeo river near kohariya, SW8- Hasdeo river near kobra(D/S)-1, SW9- Hasdeo River near Kobra (D/S)-2.			

SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Sr. No.	Parameters	Unit	SW5	SW6	SW7	SW8	SW9
1	pH	-	7.38	7.24	7.50	7.28	7.22
2	Colour	Hazen	1	4	3	3	2
3	Conductivity	µS/cm	172	158	160	176	167
4	TDS	mg/l	110	98	102	112	105
5	DO	mg/l	7.1	7.2	6.9	7.3	7.4
6	BOD	mg/l	1.6	1.7	1.5	2.0	1.5
7	COD	mg/l	6.4	7.2	6.4	8	7.2
8	Turbidity	NTU	8.0	6.0	9.0	10.0	8.0
9	Total Hardness as $CaCO_3$	mg/l	46	50	45	51	52
10	Total Alkalinity as $CaCO_3$	mg/l	40	35	38	40	40
11	Calcium as Ca	mg/l	10.5	9.5	11.2	12.3	11.9
12	Magnesium as Mg	mg/l	4.7	6.2	4.1	4.9	5.3
13	Chlorides as Cl	mg/l	25.8	26.4	23.3	27.2	25.8
14	Residual free chlorine	mg/l	<0.2	<0.2	<0.2	<0.2	<0.2
15	Phosphates as PO_4	mg/l	0.034	0.056	0.029	0.048	0.051
16	Sulphates as SO_4	mg/l	6.7	4.8	5.9	6.1	5.3
17	Fluorides as F	mg/l	0.492	0.541	0.487	0.561	0.510
18	Nitrates as NO_3	mg/l	1.2	1.8	1.9	1.7	0.9
19	Sodium as Na	mg/l	17.8	13.7	15.6	16.3	14.5
20	Potassium as K	mg/l	1.2	0.9	0.8	1.1	0.7
21	Total Boron as B	mg/l	0.01	0.023	0.034	0.026	0.018
22	Phenolic Compounds	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001
23	Cyanides as CN	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01
24	Oil & grease	mg/l	<1.0	<1.0	<1.0	<1.0	<1.0
25	Cadmium as Cd	mg/l	<0.003	<0.003	<0.003	<0.003	<0.003
26	Arsenic as As	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01
27	Copper as Cu	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01
28	Lead as Pb	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01
29	Iron as Fe	mg/l	0.022	0.036	0.041	0.018	0.029
30	Chromium as Cr^{+6}	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05
31	Selenium as Se	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01
32	Zinc as Zn	mg/l	0.035	0.052	0.039	0.024	0.037
33	Aluminum as Al	mg/l	0.023	0.019	0.027	0.018	0.026
34	Mercury as Hg	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001
35	SAR	-	1.15	0.85	1.01	0.99	0.88
36	Insecticides	mg/l	Absent	Absent	Absent	Absent	Absent
37	Anionic detergents as MBAS	mg/l	Absent	Absent	Absent	Absent	Absent
38	Total Coliforms	MPN/100	52	48	54	50	58

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)

-END OF THE REPORTS-

Name and Designation of Authorized Signatory

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

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ISSUED TO:

M/s. Bharat Aluminum Company Limited,
BALCO
KORBA
Chhattisgarh

Report Number	:	**VLL/VLS/26-27/05017/001**
Issued Date	:	**2026-06-04**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (BALCO PLANT)**

Sample Registration Date	:	2026-05-11	Sampling Date	:	2026-05-04
Analysis Starting Date	:	2026-05-11	Analysis Completion Date	:	2026-05-29
Test Required	:	Water Analysis as per IS 10500 : 2012			

SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Rogbheri (B/W)*	*Rogbheri (D/W)*	*Bailgiri Basti(B/W)*	*Bailgiri Basti(D/W)*
1	pH value	-	6.5-8.5 (NR)	6.95	7.10	6.73	7.14
2	Color	Hazen	5(15)	Colorless	Colorless	Colorless	Colorless
3	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	1(5)	2	2	2	2
6	Total dissolved solids at 180^{0}C	mg/l	500(2000)	610	270	673	408
7	Total Hardness as $CaCO_3$	mg/l	200(600)	214	110	330	230
8	Total Alkalinity as $CaCO_3$	mg/l	200(600)	190	85	290	210
9	Calcium as Ca	mg/l	75(200)	54.8	34.7	98.6	56.0
10	Magnesium as Mg	mg/l	30(100)	18.7	5.4	19.9	21.87
11	Free Residual chlorine	mg/l	0.2(1.0)	<0.1	<0.1	<0.1	<0.1
12	Boron as B	mg/l	0.5(1.0)	0.017	0.011	0.026	0.015
13	Chlorides as Cl	mg/l	250(1000)	156.3	61.2	118.0	46.1
14	Sulphate as SO_4	mg/l	200(400)	58.8	32.5	51.1	31.2
15	Fluorides as F	mg/l	1.0(1.5)	0.538	0.640	0.467	0.569
16	Nitrates as NO_3	mg/l	45(NR)	5.3	4.1	6.2	3.8
17	Phenolic Compounds as C_6H_5OH	mg/l	0.001(0.002)	<0.001	<0.001	<0.001	<0.001
18	Cyanides	mg/l	0.05(NR)	<0.01	<0.01	<0.01	<0.01

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

Name and Designation of Authorized Signatory

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KORBA
Chhattisgarh

Report Number : **VLL/VLS/26-27/05017/001**
Issued Date : **2026-06-04**
P.O. No. : **3402001553**
P.O. Date : **2025-10-01**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (BALCO PLANT)**

Sample Registration Date	:	2026-05-11	Sampling Date	:	2026-05-04
Analysis Starting Date	:	2026-05-11	Analysis Completion Date	:	2026-05-29
Test Required	:	Water Analysis as per IS 10500 : 2012			

SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Rogbheri (B/W)*	*Rogbheri (D/W)*	*Bailgiri Basti(B/W)*	*Bailgiri Basti(D/W)*
19	Anionic detergents as MBAS	mg/l	0.2(1.0)	<0.02	<0.02	<0.02	<0.02
20	Mineral oil	mg/l	0.5(NR)	Absent	Absent	Absent	Absent
21	Cadmium as Cd	mg/l	0.003(NR)	<0.003	<0.003	<0.003	<0.003
22	Total Arsenic as As	mg/l	0.01(0.05)	<0.01	<0.01	<0.01	<0.01
23	Copper as Cu	mg/l	0.05(1.5)	<0.01	<0.01	<0.01	<0.01
24	Lead as Pb	mg/l	0.01(NR)	<0.01	<0.01	<0.01	<0.01
25	Manganese as Mn	mg/l	0.1(0.3)	0.011	0.008	0.01	0.007
26	Molybdenum as Mo	mg/l	0.07(NR)	<0.001	<0.001	<0.001	<0.001
27	Nickel as Ni	mg/l	0.02(NR)	<0.005	<0.005	<0.005	<0.005
28	Iron as Fe	mg/l	0.3(NR)	0.021	0.017	0.032	0.018
29	Total Chromium as Cr	mg/l	0.05(NR)	<0.005	<0.005	<0.005	<0.005
30	Selenium as Se	mg/l	0.05(NR)	<0.005	<0.005	<0.005	<0.005
31	Zinc as Zn	mg/l	5.0(15)	0.028	0.007	0.024	0.016
32	Aluminum as Al	mg/l	0.03(0.2)	0.01	0.019	0.014	0.012
33	Mercury as Hg	mg/l	0.001(NR)	<0.001	<0.001	<0.001	<0.001
34	Sulphide as H2S	mg/l	0.05(NR)	<0.05	<0.05	<0.05	<0.05
35	Chloramines as Cl2	mg/l	4.0(NR)	<0.05	<0.05	<0.05	<0.05
36	Ammonia (as total ammonia-N	mg/l	0.5(NR)	<0.05	<0.05	<0.05	<0.05
37	Barium as Ba	mg/l	0.7(NR)	0.023	0.013	0.025	0.018
38	Silver as Ag	mg/l	0.1(NR)	<0.005	<0.005	<0.005	<0.005

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

Name and Designation of Authorized Signatory

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BALCO
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Chhattisgarh

Report Number	:	**VLL/VLS/26-27/05017/001**
Issued Date	:	**2026-06-04**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (BALCO PLANT)**

Sample Registration Date	:	2026-05-11	Sampling Date	:	2026-05-04
Analysis Starting Date	:	2026-05-11	Analysis Completion Date	:	2026-05-29
Test Required	:	Water Analysis as per IS 10500 : 2012			
SAMPLE COLLECTED BY VIMTA LABS LTD.					

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Rogbheri (B/W)*	*Rogbheri (D/W)*	*Bailgiri Basti(B/W)*	*Bailgiri Basti(D/W)*
39	Polychlorinated biphenyls	mg/l	0.0005(NR)	Absent	Absent	Absent	Absent
40	Polynuclear aromatic hydrocarbon as PAH	mg/l	0.0001(NR)	<0.0001	<0.0001	<0.0001	<0.0001
41	Bromoform	mg/l	0.1(NR)	<0.0001	<0.0001	<0.0001	<0.0001
42	Dibromochloromethane	mg/l	0.1(NR)	<0.01	<0.01	<0.01	<0.01
43	Bromodichloromethane	mg/l	0.06(NR)	<0.01	<0.01	<0.01	<0.01
44	Chloroform	mg/l	0.2(NR)	<0.001	<0.001	<0.001	<0.001
(A)	**Pesticides**						
45	Alachlor	µg/l	20	<0.01	<0.01	<0.01	<0.01
46	Atrazine	µg/l	2	<0.01	<0.01	<0.01	<0.01
47	Aldrin	µg/l	0.03	<0.01	<0.01	<0.01	<0.01
48	Alpha HCH	µg/l	0.01	<0.01	<0.01	<0.01	<0.01
49	Beta HCH	µg/l	0.04	<0.01	<0.01	<0.01	<0.01
50	Butachlor	µg/l	125	<0.01	<0.01	<0.01	<0.01
51	Chlorpyriphos	µg/l	30	<0.01	<0.01	<0.01	<0.01
52	Delta HCH	µg/l	0.04	<0.01	<0.01	<0.01	<0.01
53	2,4-Dichlorophenoxyacetic acid	µg/l	30	<0.01	<0.01	<0.01	<0.01
54	DDT	µg/l	1	<0.01	<0.01	<0.01	<0.01
55	Endosulfan (alpha, beta and Sulphate)	µg/l	0.4	<0.01	<0.01	<0.01	<0.01
56	Ethion	µg/l	3	<0.01	<0.01	<0.01	<0.01
57	Gamma HCH	µg/l	2	<0.01	<0.01	<0.01	<0.01
58	Isoproturon	µg/l	9	<0.01	<0.01	<0.01	<0.01

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

Name and Designation of Authorized Signatory

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Report Number	:	**VLL/VLS/26-27/05017/001**
Issued Date	:	**2026-06-04**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (BALCO PLANT)**

Sample Registration Date	:	2026-05-11	Sampling Date	:	2026-05-04
Analysis Starting Date	:	2026-05-11	Analysis Completion Date	:	2026-05-29
Test Required	:	Water Analysis as per IS 10500 : 2012			
SAMPLE COLLECTED BY VIMTA LABS LTD.					

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Rogbheri (B/W)*	*Rogbheri (D/W)*	*Bailgiri Basti(B/W)*	*Bailgiri Basti(D/W)*
59	Malathion	µg/l	190	BDL	BDL	BDL	BDL
60	Methyl parathion	µg/l	0.3	BDL	BDL	BDL	BDL
61	Monocrotophos	µg/l	1	BDL	BDL	BDL	BDL
62	Phorate	µg/l	2	BDL	BDL	BDL	BDL
63	E.coli	Per 100 ml	Absent	Absent	Absent	Absent	Absent
64	Total Coliforms	MPN/100ml	Absent	Absent	Absent	Absent	Absent
(B)	**Radioactive**						
65	Alpha emitters	Bq/l	0.1(NR)	BDL	BDL	BDL	BDL
66	Beta emitters	Bq/l	1.0(NR)	BDL	BDL	BDL	BDL

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

-END OF THE REPORTS-

Name and Designation of Authorized Signatory

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Report Number	:	**VLL/VLS/26-27/05017/001**
Issued Date	:	**2026-06-04**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : GROUND WATER SAMPLES (BALCO PLANT)

Sample Registration Date	:	2026-05-11	Sampling Date	:	2026-05-04
Analysis Starting Date	:	2026-05-11	Analysis Completion Date	:	2026-05-29
Test Required	:	Water Analysis as per IS 10500 : 2012			

SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Parsabhata (B/W)*	*Parsabhata (D/W)*	*Karma Talkies(B/W)*	*Bhadrapada D/W)*
1	pH value	-	6.5-8.5 (NR)	7.49	6.85	6.92	6.96
2	Color	Hazen	5(15)	Colorless	Colorless	Colorless	Colorless
3	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	1(5)	1	3	3	2
6	Total dissolved solids at 180°C	mg/l	500(2000)	322	229	178	398
7	Total Hardness as $CaCO_3$	mg/l	200(600)	133	108	86	164
8	Total Alkalinity as $CaCO_3$	mg/l	200(600)	120	90	75	150
9	Calcium as Ca	mg/l	75(200)	28.0	24.2	18.4	38.8
10	Magnesium as Mg	mg/l	30(100)	15.4	11.5	9.72	16.3
11	Free Residual chlorine	mg/l	0.2(1.0)	<0.1	<0.1	<0.1	<0.1
12	Boron as B	mg/l	0.5(1.0)	0.021	0.01	<0.01	0.022
13	Chlorides as Cl	mg/l	250(1000)	78.0	44.5	31.1	84.1
14	Sulphate as SO_4	mg/l	200(400)	20.1	23.2	17.6	33.2
15	Fluorides as F	mg/l	1.0(1.5)	0.392	0.687	0.377	0.291
16	Nitrates as NO_3	mg/l	45(NR)	2.5	1.2	1.1	6.4
17	Phenolic Compounds as C_6H_5OH	mg/l	0.001(0.002)	<0.001	<0.001	<0.001	<0.001
18	Cyanides as CN	mg/l	0.05(NR)	<0.01	<0.01	<0.01	<0.01

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

Name and Designation of Authorized Signatory

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Report Number	:	**VLL/VLS/26-27/05017/001**
Issued Date	:	**2026-06-04**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (BALCO PLANT)**

Sample Registration Date	:	2026-05-11	Sampling Date	:	2026-05-04
Analysis Starting Date	:	2026-05-11	Analysis Completion Date	:	2026-05-29
Test Required	:	Water Analysis as per IS 10500 : 2012			
SAMPLE COLLECTED BY VIMTA LABS LTD.					

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Parsabhata (B/W)*	*Parsabhata (D/W)*	*Karma Talkies (B/W)*	*Bhadrapada D/W)*
19	Anionic detergents as MBAS	mg/l	0.2(1.0)	<0.02	<0.02	<0.02	<0.02
20	Mineral oil	mg/l	0.5(NR)	Absent	Absent	Absent	Absent
21	Cadmium as Cd	mg/l	0.003(NR)	<0.003	<0.003	<0.003	<0.003
22	Total Arsenic as As	mg/l	0.01(0.05)	<0.01	<0.01	<0.01	<0.01
23	Copper as Cu	mg/l	0.05(1.5)	<0.01	<0.01	<0.01	<0.01
24	Lead as Pb	mg/l	0.01(NR)	<0.01	<0.01	<0.01	<0.01
25	Manganese as Mn	mg/l	0.1(0.3)	0.013	0.01	<0.005	0.008
26	Molybdenum as Mo	mg/l	0.07(NR)	<0.001	<0.001	<0.001	<0.001
27	Nickel as Ni	mg/l	0.02(NR)	<0.005	<0.005	<0.005	<0.005
28	Iron as Fe	mg/l	0.3(NR)	0.024	0.015	0.031	0.025
29	Total Chromium as Cr	mg/l	0.05(NR)	<0.005	<0.005	<0.005	<0.005
30	Selenium as Se	mg/l	0.05(NR)	<0.005	<0.005	<0.005	<0.005
31	Zinc as Zn	mg/l	5.0(15)	0.019	0.021	0.01	0.013
32	Aluminum as Al	mg/l	0.03(0.2)	0.023	0.013	0.028	0.016
33	Mercury as Hg	mg/l	0.001(NR)	<0.001	<0.001	<0.001	<0.001
34	Sulphide as H2S	mg/l	0.05(NR)	<0.05	<0.05	<0.05	<0.05
35	Chloramines as Cl2	mg/l	4.0(NR)	<0.05	<0.05	<0.05	<0.05
36	Ammonia (as total ammonia-N	mg/l	0.5(NR)	<0.05	<0.05	<0.05	<0.05
37	Barium as Ba	mg/l	0.7(NR)	0.027	0.016	0.021	0.011
38	Silver as Ag	mg/l	0.1(NR)	<0.005	<0.005	<0.005	<0.005

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

Name and Designation of Authorized Signatory

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ISSUED TO:

M/s. Bharat Aluminum Company Limited,
BALCO
KORBA
Chhattisgarh

Report Number	:	**VLL/VLS/26-27/05017/001**
Issued Date	:	**2026-06-04**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (BALCO PLANT)**

Sample Registration Date	:	2026-05-11	Sampling Date	:	2026-05-04
Analysis Starting Date	:	2026-05-11	Analysis Completion Date	:	2026-05-29
Test Required	:	Water Analysis as per IS 10500 : 2012			
SAMPLE COLLECTED BY VIMTA LABS LTD.					

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Parsabhata (B/W)*	*Parsabhata (D/W)*	*Karma Talkies(B/W)*	*Bhadrapada D/W)*
39	Polychlorinated biphenyls	mg/l	0.0005(NR)	Absent	Absent	Absent	Absent
40	Polynuclear aromatic hydrocarbon as PAH	mg/l	0.0001(NR)	<0.0001	<0.0001	<0.0001	<0.0001
41	Bromoform	mg/l	0.1(NR)	<0.0001	<0.0001	<0.0001	<0.0001
42	Dibromochloromethane	mg/l	0.1(NR)	<0.01	<0.01	<0.01	<0.01
43	Bromodichloromethane	mg/l	0.06(NR)	<0.01	<0.01	<0.01	<0.01
44	Chloroform	mg/l	0.2(NR)	<0.001	<0.001	<0.001	<0.001
(A)	**Pesticides**						
45	Alachlor	µg/l	20	<0.01	<0.01	<0.01	<0.01
46	Atrazine	µg/l	2	<0.01	<0.01	<0.01	<0.01
47	Aldrin	µg/l	0.03	<0.01	<0.01	<0.01	<0.01
48	Alpha HCH	µg/l	0.01	<0.01	<0.01	<0.01	<0.01
49	Beta HCH	µg/l	0.04	<0.01	<0.01	<0.01	<0.01
50	Butachlor	µg/l	125	<0.01	<0.01	<0.01	<0.01
51	Chlorpyriphos	µg/l	30	<0.01	<0.01	<0.01	<0.01
52	Delta HCH	µg/l	0.04	<0.01	<0.01	<0.01	<0.01
53	2,4-Dichlorophenoxyacetic acid	µg/l	30	<0.01	<0.01	<0.01	<0.01
54	DDT	µg/l	1	<0.01	<0.01	<0.01	<0.01
55	Endosulfan (alpha, beta and Sulphate)	µg/l	0.4	<0.01	<0.01	<0.01	<0.01
56	Ethion	µg/l	3	<0.01	<0.01	<0.01	<0.01
57	Gamma HCH	µg/l	2	<0.01	<0.01	<0.01	<0.01
58	Isoproturon	µg/l	9	<0.01	<0.01	<0.01	<0.01

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

Name and Designation of Authorized Signatory

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Issued Date	:	**2026-06-04**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (BALCO PLANT)**

Sample Registration Date	:	2026-05-11	Sampling Date	:	2026-05-04
Analysis Starting Date	:	2026-05-11	Analysis Completion Date	:	2026-05-29
Test Required	:	Water Analysis as per IS 10500 : 2012			
SAMPLE COLLECTED BY VIMTA LABS LTD.					

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Parsabhata (B/W)*	*Parsabhata (D/W)*	*Karma Talkies(B/W)*	*Bhadrapada D/W)*
59	Malathion	µg/l	190	BDL	BDL	BDL	BDL
60	Methyl parathion	µg/l	0.3	BDL	BDL	BDL	BDL
61	Monocrotophos	µg/l	1	BDL	BDL	BDL	BDL
62	Phorate	µg/l	2	BDL	BDL	BDL	BDL
63	E.coli	Per 100 ml	Absent	Absent	Absent	Absent	Absent
64	Total Coliforms	MPN/100ml	Absent	Absent	Absent	Absent	Absent
(B)	**Radioactive**						
65	Alpha emitters	Bq/l	0.1(NR)	BDL	BDL	BDL	BDL
66	Beta emitters	Bq/l	1.0(NR)	BDL	BDL	BDL	BDL

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

Name and Designation of Authorized Signatory

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Report Number	:	**VLL/VLS/26-27/05017/001**
Issued Date	:	**2026-06-04**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : SURFACE WATER SAMPLE (BALCO PLANT)

Sample Registration Date	:	2026-05-11	Sampling Date	:	2026-05-06
Analysis Starting Date	:	2026-05-11	Analysis Completion Date	:	2026-05-26
Samples Details	:	SW1-Bailgiri Nala (U/S)-Near Baigiri Village, SW2-Bailgiri Nala (D/S)-Near Bailgiri Basti, SW3- Dhengu Nala (U/S) Risbabasti SW4- Dhengu Nala (D/S)-near Check post Balco			

SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Sr. No.	Parameters	Unit	SW1	SW2	SW3	SW4
1	pH	-	8.45	7.33	7.52	6.85
2	Colour	Hazen	1	3	1	2
3	Conductivity	µS/cm	227	288	120	148
4	TDS	mg/l	143	184	80	96
5	DO	mg/l	5.9	4.7	6.2	5.4
6	BOD	mg/l	1.5	2.9	1.5	2.2
7	COD	mg/l	7.2	11.2	5.6	9.6
8	Turbidity	NTU	2.0	4.0	5.0	8.0
9	Total Hardness as $CaCO_3$	mg/l	54	63	34	50
10	Total Alkalinity as $CaCO_3$	mg/l	45	50	30	40
11	Calcium as Ca	mg/l	10.5	16	8	12.8
12	Magnesium as Mg	mg/l	6.7	5.6	3.4	4.9
13	Chlorides as Cl	mg/l	38.2	45.6	13.3	15.8
14	Residual free chlorine	mg/l	<0.2	<0.2	<0.2	<0.2
15	Phosphates as PO_4	mg/l	0.037	0.054	0.036	0.044
16	Sulphates as SO_4	mg/l	13.07	24.1	11.2	9.40
17	Fluorides as F	mg/l	0.262	0.341	0.382	0.421
18	Nitrates as NO_3	mg/l	1.2	2.8	0.8	1.7
19	Sodium as Na	mg/l	26.2	35.1	12.4	9.8
20	Potassium as K	mg/l	2.4	3.8	0.8	0.9
21	Total Boron as B	mg/l	0.010	0.023	0.009	0.024
22	Phenolic Compounds	mg/l	<0.001	<0.001	<0.001	<0.001
23	Cyanides as CN	mg/l	<0.01	<0.01	<0.01	<0.01
24	Oil & grease	mg/l	<1.0	<1.0	<1.0	<1.0
25	Cadmium as Cd	mg/l	<0.005	<0.005	<0.005	<0.005
26	Arsenic as As	mg/l	<0.001	<0.001	<0.001	<0.001
27	Copper as Cu	mg/l	<0.005	<0.005	<0.005	<0.005
28	Lead as Pb	mg/l	<0.005	<0.005	<0.005	<0.005
29	Iron as Fe	mg/l	0.028	0.063	0.035	0.017
30	Chromium as Cr^{+6}	mg/l	<0.05	<0.05	<0.05	<0.05
31	Selenium as Se	mg/l	<0.005	<0.005	<0.005	<0.005
32	Zinc as Zn	mg/l	0.015	0.037	0.031	0.026
33	Aluminum as Al	mg/l	0.007	0.025	0.018	0.037
34	Mercury as Hg	mg/l	<0.001	<0.001	<0.001	<0.001
35	SAR	-	1.55	1.92	0.93	0.59
36	Insecticides	mg/l	Absent	Absent	Absent	Absent
37	Anionic detergents as MBAS	mg/l	Absent	Absent	Absent	Absent
38	Total Coliforms	MPN/100	32	62	40	36

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)

-END OF THE REPORTS-

Name and Designation of Authorized Signatory

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Chhattisgarh

Report Number	:	**VLL/VLS/26-27/05017/002**
Issued Date	:	**2026-06-04**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **SURFACE WATER SAMPLE (BALCO PLANT)**

Sample Registration Date	:	2026-05-11	Sampling Date	:	2026-05-06
Analysis Starting Date	:	2026-05-11	Analysis Completion Date	:	2026-05-26
Samples Details	:	SW5- Hasdeo river near Ramgarh (U/S) SW6- Hasdeo river near Gerwaghat, SW7- Hasdeo river near kohariya, SW8- Hasdeo river near kobra(D/S)-1, SW9- Hasdeo River near Kobra (D/S)-2.			

SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Sr. No.	Parameters	Unit	SW5	SW6	SW7	SW8	SW9
1	pH	-	7.45	7.34	7.56	7.12	7.84
2	Colour	Hazen	1	3	4	2	3
3	Conductivity	µS/cm	196	166	190	180	176
4	TDS	mg/l	125	106	122	115	113
5	DO	mg/l	7.4	7.0	7.3	7.2	7.3
6	BOD	mg/l	1.8	1.3	2.1	2.4	1.4
7	COD	mg/l	7.2	5.6	8.8	9.6	7.2
8	Turbidity	NTU	5.0	6.0	7.0	5.0	7.0
9	Total Hardness as $CaCO_3$	mg/l	52	50	52	48	50
10	Total Alkalinity as $CaCO_3$	mg/l	45	40	47	40	40
11	Calcium as Ca	mg/l	13.6	14.4	14.4	13.6	12.8
12	Magnesium as Mg	mg/l	4.4	3.2	3.9	3.4	4.4
13	Chlorides as Cl	mg/l	27	21.5	24	23.6	25.7
14	Residual free chlorine	mg/l	<0.2	<0.2	<0.2	<0.2	<0.2
15	Phosphates as PO_4	mg/l	0.052	0.049	0.031	0.063	0.058
16	Sulphates as SO_4	mg/l	11	8.5	10.3	12.5	9.7
17	Fluorides as F	mg/l	0.562	0.521	0.509	0.543	0.517
18	Nitrates as NO_3	mg/l	1.6	2.3	1.5	1.9	1.2
19	Sodium as Na	mg/l	19.8	14.7	18.6	17.9	17.2
20	Potassium as K	mg/l	1.8	1.1	1.4	1.9	0.9
21	Total Boron as B	mg/l	0.017	0.036	0.028	0.023	0.035
22	Phenolic Compounds	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001
23	Cyanides as CN	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01
24	Oil & grease	mg/l	<1.0	<1.0	<1.0	<1.0	<1.0
25	Cadmium as Cd	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005
26	Arsenic as As	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001
27	Copper as Cu	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005
28	Lead as Pb	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005
29	Iron as Fe	mg/l	0.038	0.045	0.056	0.039	0.043
30	Chromium as Cr^{+6}	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05
31	Selenium as Se	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005
32	Zinc as Zn	mg/l	0.043	0.067	0.033	0.028	0.044
33	Aluminum as Al	mg/l	0.021	0.017	0.024	0.032	0.038
34	Mercury as Hg	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001
35	SAR	-	1.20	0.91	1.12	1.11	1.06
36	Insecticides	mg/l	Absent	Absent	Absent	Absent	Absent
37	Anionic detergents as MBAS	mg/l	Absent	Absent	Absent	Absent	Absent
38	Total Coliforms	MPN/100	58	53	56	54	51

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)

-END OF THE REPORTS-

Name and Designation of Authorized Signatory

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

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M/s. Bharat Aluminum Company Limited,
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KORBA
Chhattisgarh

Report Number	:	**VLL/VLS/26-27/07623/001**
Issued Date	:	**2026-07-04**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : GROUND WATER SAMPLES (BALCO PLANT)

Sample Registration Date	:	2026-06-11	Sampling Date	:	2026-06-05
Analysis Starting Date	:	2026-06-11	Analysis Completion Date	:	2026-06-26
Test Required	:	Water Analysis as per IS 10500 : 2012			

SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Rogbheri (B/W)*	*Rogbheri (D/W)*	*Bailgiri Basti(B/W)*	*Bailgiri Basti(D/W)*
1	pH value	-	6.5-8.5 (NR)	6.84	6.93	6.78	6.98
2	Color	Hazen	5(15)	Colorless	Colorless	Colorless	Colorless
3	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	1(5)	1	3	1	1
6	Total dissolved solids at 180°C	mg/l	500(2000)	548	308	642	390
7	Total Hardness as $CaCO_3$	mg/l	200(600)	186	120	276	210
8	Total Alkalinity as $CaCO_3$	mg/l	200(600)	180	95	280	195
9	Calcium as Ca	mg/l	75(200)	47.6	37.3	75.0	52.4
10	Magnesium as Mg	mg/l	30(100)	16.3	6.7	21.6	19.5
11	Free Residual chlorine	mg/l	0.2(1.0)	<0.1	<0.1	<0.1	<0.1
12	Boron as B	mg/l	0.5(1.0)	0.014	0.01	0.017	0.012
13	Chlorides as Cl	mg/l	250(1000)	139.8	72.0	113.0	48.4
14	Sulphate as SO_4	mg/l	200(400)	46.40	37.6	45.6	29.5
15	Fluorides as F	mg/l	1.0(1.5)	0.486	0.594	0.391	0.489
16	Nitrates as NO_3	mg/l	45(NR)	3.8	2.9	4.6	2.8
17	Phenolic Compounds as C_6H_5OH	mg/l	0.001(0.002)	<0.001	<0.001	<0.001	<0.001
18	Cyanides	mg/l	0.05(NR)	<0.01	<0.01	<0.01	<0.01

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

Name and Designation of Authorized Signatory

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

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Report Number	:	**VLL/VLS/26-27/07623/001**
Issued Date	:	**2026-07-04**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (BALCO PLANT)**

Sample Registration Date	:	2026-06-11	Sampling Date	:	2026-06-05
Analysis Starting Date	:	2026-06-11	Analysis Completion Date	:	2026-06-26
Test Required	:	Water Analysis as per IS 10500 : 2012			

SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Rogbheri (B/W)*	*Rogbheri (D/W)*	*Bailgiri Basti(B/W)*	*Bailgiri Basti(D/W)*
19	Anionic detergents as MBAS	mg/l	0.2(1.0)	<0.02	<0.02	<0.02	<0.02
20	Mineral oil	mg/l	0.5(NR)	Absent	Absent	Absent	Absent
21	Cadmium as Cd	mg/l	0.003(NR)	<0.005	<0.005	<0.005	<0.005
22	Total Arsenic as As	mg/l	0.01(0.05)	<0.001	<0.001	<0.001	<0.001
23	Copper as Cu	mg/l	0.05(1.5)	<0.005	<0.005	<0.005	<0.005
24	Lead as Pb	mg/l	0.01(NR)	<0.005	<0.005	<0.005	<0.005
25	Manganese as Mn	mg/l	0.1(0.3)	0.01	0.008	0.009	0.006
26	Molybdenum as Mo	mg/l	0.07(NR)	<0.001	<0.001	<0.001	<0.001
27	Nickel as Ni	mg/l	0.02(NR)	<0.005	<0.005	<0.005	<0.005
28	Iron as Fe	mg/l	0.3(NR)	0.018	0.015	0.026	0.013
29	Total Chromium as Cr	mg/l	0.05(NR)	<0.005	<0.005	<0.005	<0.005
30	Selenium as Se	mg/l	0.05(NR)	<0.005	<0.005	<0.005	<0.005
31	Zinc as Zn	mg/l	5.0(15)	0.021	0.009	0.015	0.011
32	Aluminum as Al	mg/l	0.03(0.2)	0.01	0.012	0.009	0.014
33	Mercury as Hg	mg/l	0.001(NR)	<0.001	<0.001	<0.001	<0.001
34	Sulphide as H2S	mg/l	0.05(NR)	<0.05	<0.05	<0.05	<0.05
35	Chloramines as Cl2	mg/l	4.0(NR)	<0.05	<0.05	<0.05	<0.05
36	Ammonia (as total ammonia-N	mg/l	0.5(NR)	<0.05	<0.05	<0.05	<0.05
37	Barium as Ba	mg/l	0.7(NR)	0.018	0.01	0.017	0.021
38	Silver as Ag	mg/l	0.1(NR)	<0.005	<0.005	<0.005	<0.005

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

Name and Designation of Authorized Signatory

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ISSUED TO:
M/s. Bharat Aluminum Company Limited,
BALCO
KORBA
Chhattisgarh

Report Number	:	**VLL/VLS/26-27/07623/001**
Issued Date	:	**2026-07-04**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (BALCO PLANT)**

Sample Registration Date	:	2026-06-11	Sampling Date	:	2026-06-05
Analysis Starting Date	:	2026-06-11	Analysis Completion Date	:	2026-06-26
Test Required	:	Water Analysis as per IS 10500 : 2012			
SAMPLE COLLECTED BY VIMTA LABS LTD.					

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Rogbheri (B/W)*	*Rogbheri (D/W)*	*Bailgiri Basti(B/W)*	*Bailgiri Basti(D/W)*
39	Polychlorinated biphenyls	mg/l	0.0005(NR)	Absent	Absent	Absent	Absent
40	Polynuclear aromatic hydrocarbon as PAH	mg/l	0.0001(NR)	<0.0001	<0.0001	<0.0001	<0.0001
41	Bromoform	mg/l	0.1(NR)	<0.0001	<0.0001	<0.0001	<0.0001
42	Dibromochloromethane	mg/l	0.1(NR)	<0.01	<0.01	<0.01	<0.01
43	Bromodichloromethane	mg/l	0.06(NR)	<0.01	<0.01	<0.01	<0.01
44	Chloroform	mg/l	0.2(NR)	<0.001	<0.001	<0.001	<0.001
(A)	**Pesticides**						
45	Alachlor	µg/l	20	<0.01	<0.01	<0.01	<0.01
46	Atrazine	µg/l	2	<0.01	<0.01	<0.01	<0.01
47	Aldrin	µg/l	0.03	<0.01	<0.01	<0.01	<0.01
48	Alpha HCH	µg/l	0.01	<0.01	<0.01	<0.01	<0.01
49	Beta HCH	µg/l	0.04	<0.01	<0.01	<0.01	<0.01
50	Butachlor	µg/l	125	<0.01	<0.01	<0.01	<0.01
51	Chlorpyriphos	µg/l	30	<0.01	<0.01	<0.01	<0.01
52	Delta HCH	µg/l	0.04	<0.01	<0.01	<0.01	<0.01
53	2,4-Dichlorophenoxyacetic acid	µg/l	30	<0.01	<0.01	<0.01	<0.01
54	DDT	µg/l	1	<0.01	<0.01	<0.01	<0.01
55	Endosulfan (alpha, beta and Sulphate)	µg/l	0.4	<0.01	<0.01	<0.01	<0.01
56	Ethion	µg/l	3	<0.01	<0.01	<0.01	<0.01
57	Gamma HCH	µg/l	2	<0.01	<0.01	<0.01	<0.01
58	Isoproturon	µg/l	9	<0.01	<0.01	<0.01	<0.01

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

Name and Designation of Authorized Signatory

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

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

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (BALCO PLANT)**

Sample Registration Date	:	2026-06-11	Sampling Date	:	2026-06-05
Analysis Starting Date	:	2026-06-11	Analysis Completion Date	:	2026-06-26
Test Required	:	Water Analysis as per IS 10500 : 2012			
SAMPLE COLLECTED BY VIMTA LABS LTD.					

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Rogbheri (B/W)*	*Rogbheri (D/W)*	*Bailgiri Basti(B/W)*	*Bailgiri Basti(D/W)*
59	Malathion	µg/l	190	BDL	BDL	BDL	BDL
60	Methyl parathion	µg/l	0.3	BDL	BDL	BDL	BDL
61	Monocrotophos	µg/l	1	BDL	BDL	BDL	BDL
62	Phorate	µg/l	2	BDL	BDL	BDL	BDL
63	E.coli	Per 100 ml	Absent	Absent	Absent	Absent	Absent
64	Total Coliforms	MPN/100ml	Absent	Absent	Absent	Absent	Absent
(B)	**Radioactive**						
65	Alpha emitters	Bq/l	0.1(NR)	BDL	BDL	BDL	BDL
66	Beta emitters	Bq/l	1.0(NR)	BDL	BDL	BDL	BDL

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

-END OF THE REPORTS-

Name and Designation of Authorized Signatory

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Report Number	:	**VLL/VLS/26-27/07623/001**
Issued Date	:	**2026-07-04**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : GROUND WATER SAMPLES (BALCO PLANT)

Sample Registration Date	:	2026-06-11	Sampling Date	:	2026-06-05
Analysis Starting Date	:	2026-06-11	Analysis Completion Date	:	2026-06-26
Test Required	:	Water Analysis as per IS 10500 : 2012			
SAMPLE COLLECTED BY VIMTA LABS LTD.					

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Parsabhata (B/W)*	*Parsabhata (D/W)*	*Karma Talkies (B/W)*	*Bhadrapada D/W)*
1	pH value	-	6.5-8.5 (NR)	7.33	6.84	6.78	6.85
2	Color	Hazen	5(15)	Colorless	Colorless	Colorless	Colorless
3	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	1(5)	2	2	2	3
6	Total dissolved solids at 180°C	mg/l	500(2000)	295	242	192	383
7	Total Hardness as $CaCO_3$	mg/l	200(600)	125	115	95	180
8	Total Alkalinity as $CaCO_3$	mg/l	200(600)	110	95	80	140
9	Calcium as Ca	mg/l	75(200)	27.0	25.0	19.5	41.5
10	Magnesium as Mg	mg/l	30(100)	13.5	12.4	11.3	18.6
11	Free Residual chlorine	mg/l	0.2(1.0)	<0.1	<0.1	<0.1	<0.1
12	Boron as B	mg/l	0.5(1.0)	0.025	<0.005	<0.005	0.018
13	Chlorides as Cl	mg/l	250(1000)	69.2	48.4	33.7	88.3
14	Sulphate as SO_4	mg/l	200(400)	18.7	22.5	19.8	31.6
15	Fluorides as F	mg/l	1.0(1.5)	0.345	0.568	0.352	0.271
16	Nitrates as NO_3	mg/l	45(NR)	4.8	2.1	1.1	5.3
17	Phenolic Compounds as C_6H_5OH	mg/l	0.001(0.002)	<0.001	<0.001	<0.001	<0.001
18	Cyanides as CN	mg/l	0.05(NR)	<0.01	<0.01	<0.01	<0.01

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

Name and Designation of Authorized Signatory

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

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Report Number	:	**VLL/VLS/26-27/07623/001**
Issued Date	:	**2026-07-04**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (BALCO PLANT)**

Sample Registration Date	:	2026-06-11	Sampling Date	:	2026-06-05
Analysis Starting Date	:	2026-06-11	Analysis Completion Date	:	2026-06-26
Test Required	:	Water Analysis as per IS 10500 : 2012			

SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Parsabhata (B/W)*	*Parsabhata (D/W)*	*Karma Talkies(B/W)*	*Bhadrapada D/W)*
19	Anionic detergents as MBAS	mg/l	0.2(1.0)	<0.02	<0.02	<0.02	<0.02
20	Mineral oil	mg/l	0.5(NR)	Absent	Absent	Absent	Absent
21	Cadmium as Cd	mg/l	0.003(NR)	<0.005	<0.005	<0.005	<0.005
22	Total Arsenic as As	mg/l	0.01(0.05)	<0.001	<0.001	<0.001	<0.001
23	Copper as Cu	mg/l	0.05(1.5)	<0.005	<0.005	<0.005	<0.005
24	Lead as Pb	mg/l	0.01(NR)	<0.005	<0.005	<0.005	<0.005
25	Manganese as Mn	mg/l	0.1(0.3)	0.012	<0.005	<0.005	0.010
26	Molybdenum as Mo	mg/l	0.07(NR)	<0.001	<0.001	<0.001	<0.001
27	Nickel as Ni	mg/l	0.02(NR)	<0.005	<0.005	<0.005	<0.005
28	Iron as Fe	mg/l	0.3(NR)	0.021	0.011	0.028	0.017
29	Total Chromium as Cr	mg/l	0.05(NR)	<0.005	<0.005	<0.005	<0.005
30	Selenium as Se	mg/l	0.05(NR)	<0.005	<0.005	<0.005	<0.005
31	Zinc as Zn	mg/l	5.0(15)	0.017	0.019	0.011	0.008
32	Aluminum as Al	mg/l	0.03(0.2)	0.021	0.016	0.023	0.010
33	Mercury as Hg	mg/l	0.001(NR)	<0.001	<0.001	<0.001	<0.001
34	Sulphide as H2S	mg/l	0.05(NR)	<0.05	<0.05	<0.05	<0.05
35	Chloramines as Cl2	mg/l	4.0(NR)	<0.05	<0.05	<0.05	<0.05
36	Ammonia (as total ammonia-N	mg/l	0.5(NR)	<0.05	<0.05	<0.05	<0.05
37	Barium as Ba	mg/l	0.7(NR)	0.015	0.012	0.01	0.009
38	Silver as Ag	mg/l	0.1(NR)	<0.005	<0.005	<0.005	<0.005

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

Name and Designation of Authorized Signatory

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

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Report Number	:	**VLL/VLS/26-27/07623/001**
Issued Date	:	**2026-07-04**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (BALCO PLANT)**

Sample Registration Date	:	2026-06-11	Sampling Date	:	2026-06-05
Analysis Starting Date	:	2026-06-11	Analysis Completion Date	:	2026-06-26
Test Required	:	Water Analysis as per IS 10500 : 2012			
SAMPLE COLLECTED BY VIMTA LABS LTD.					

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Parsabhata (B/W)*	*Parsabhata (D/W)*	*Karma Talkies(B/W)*	*Bhadrapada D/W)*
39	Polychlorinated biphenyls	mg/l	0.0005(NR)	Absent	Absent	Absent	Absent
40	Polynuclear aromatic hydrocarbon as PAH	mg/l	0.0001(NR)	<0.0001	<0.0001	<0.0001	<0.0001
41	Bromoform	mg/l	0.1(NR)	<0.0001	<0.0001	<0.0001	<0.0001
42	Dibromochloromethane	mg/l	0.1(NR)	<0.01	<0.01	<0.01	<0.01
43	Bromodichloromethane	mg/l	0.06(NR)	<0.01	<0.01	<0.01	<0.01
44	Chloroform	mg/l	0.2(NR)	<0.001	<0.001	<0.001	<0.001
(A)	**Pesticides**						
45	Alachlor	µg/l	20	<0.01	<0.01	<0.01	<0.01
46	Atrazine	µg/l	2	<0.01	<0.01	<0.01	<0.01
47	Aldrin	µg/l	0.03	<0.01	<0.01	<0.01	<0.01
48	Alpha HCH	µg/l	0.01	<0.01	<0.01	<0.01	<0.01
49	Beta HCH	µg/l	0.04	<0.01	<0.01	<0.01	<0.01
50	Butachlor	µg/l	125	<0.01	<0.01	<0.01	<0.01
51	Chlorpyriphos	µg/l	30	<0.01	<0.01	<0.01	<0.01
52	Delta HCH	µg/l	0.04	<0.01	<0.01	<0.01	<0.01
53	2,4-Dichlorophenoxyacetic acid	µg/l	30	<0.01	<0.01	<0.01	<0.01
54	DDT	µg/l	1	<0.01	<0.01	<0.01	<0.01
55	Endosulfan (alpha, beta and Sulphate)	µg/l	0.4	<0.01	<0.01	<0.01	<0.01
56	Ethion	µg/l	3	<0.01	<0.01	<0.01	<0.01
57	Gamma HCH	µg/l	2	<0.01	<0.01	<0.01	<0.01
58	Isoproturon	µg/l	9	<0.01	<0.01	<0.01	<0.01

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

Name and Designation of Authorized Signatory

ENVIRONMENTAL LABORATORY Vimta Labs Ltd. REGD. No- DL 33004/99 Sr. No.-6

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

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (BALCO PLANT)**

Sample Registration Date	:	2026-06-11	Sampling Date	:	2026-06-05
Analysis Starting Date	:	2026-06-11	Analysis Completion Date	:	2026-06-26
Test Required	:	Water Analysis as per IS 10500 : 2012			
SAMPLE COLLECTED BY VIMTA LABS LTD.					

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Parsabhata (B/W)*	*Parsabhata (D/W)*	*Karma Talkies(B/W)*	*Bhadrapada D/W)*
59	Malathion	µg/l	190	BDL	BDL	BDL	BDL
60	Methyl parathion	µg/l	0.3	BDL	BDL	BDL	BDL
61	Monocrotophos	µg/l	1	BDL	BDL	BDL	BDL
62	Phorate	µg/l	2	BDL	BDL	BDL	BDL
63	E.coli	Per 100 ml	Absent	Absent	Absent	Absent	Absent
64	Total Coliforms	MPN/100ml	Absent	Absent	Absent	Absent	Absent
(B)	**Radioactive**						
65	Alpha emitters	Bq/l	0.1(NR)	BDL	BDL	BDL	BDL
66	Beta emitters	Bq/l	1.0(NR)	BDL	BDL	BDL	BDL

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

Name and Designation of Authorized Signatory

ENVIRONMENT LABORATORY Vimta VIMTA LABS REGD. No- DL 33004/99 Sr. No.-6

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Report Number	:	**VLL/VLS/26-27/07623/001**
Issued Date	:	**2026-07-04**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : SURFACE WATER SAMPLE (BALCO PLANT)

Sample Registration Date	:	2026-06-11	Sampling Date	:	2026-06-05
Analysis Starting Date	:	2026-06-11	Analysis Completion Date	:	2026-06-26
Samples Details	:	SW1-Bailgiri Nala (U/S)-Near Baigiri Village, SW2-Bailgiri Nala (D/S)-Near Bailgiri Basti, SW3- Dhengu Nala (U/S) Risbabasti SW4- Dhengu Nala (D/S)-near Check post Balco			

SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Sr. No.	Parameters	Unit	SW1	SW2	SW3	SW4
1	pH	-	7.94	7.33	7.52	6.35
2	Colour	Hazen	1	2	1	3
3	Conductivity	µS/cm	198	265	145	180
4	TDS	mg/l	125	166	92	113
5	DO	mg/l	5.6	4.8	6.4	5.6
6	BOD	mg/l	1.6	2.7	1.2	2.2
7	COD	mg/l	7.0	10.0	5.0	9.0
8	Turbidity	NTU	3.0	2.0	4.0	7.0
9	Total Hardness as $CaCO_3$	mg/l	47	60	38	57
10	Total Alkalinity as $CaCO_3$	mg/l	40	45	35	45
11	Calcium as Ca	mg/l	9.8	14	10.5	13.7
12	Magnesium as Mg	mg/l	5.4	6.2	2.8	5.6
13	Chlorides as Cl	mg/l	32.2	46.1	16.7	22.6
14	Residual free chlorine	mg/l	<0.2	<0.2	<0.2	<0.2
15	Phosphates as PO_4	mg/l	0.056	0.084	0.067	0.092
16	Sulphates as SO_4	mg/l	11.6	18.7	9.8	8.7
17	Fluorides as F	mg/l	0.322	0.348	0.382	0.314
18	Nitrates as NO_3	mg/l	0.9	1.8	1.1	2.4
19	Sodium as Na	mg/l	23.2	31.3	14.5	13.6
20	Potassium as K	mg/l	1.6	2.6	1.1	1.4
21	Total Boron as B	mg/l	0.009	0.027	0.010	0.021
22	Phenolic Compounds	mg/l	<0.001	<0.001	<0.001	<0.001
23	Cyanides as CN	mg/l	<0.01	<0.01	<0.01	<0.01
24	Oil & grease	mg/l	<1.0	<1.0	<1.0	<1.0
25	Cadmium as Cd	mg/l	<0.005	<0.005	<0.005	<0.005
26	Arsenic as As	mg/l	<0.001	<0.001	<0.001	<0.001
27	Copper as Cu	mg/l	<0.005	<0.005	<0.005	<0.005
28	Lead as Pb	mg/l	<0.005	<0.005	<0.005	<0.005
29	Iron as Fe	mg/l	0.031	0.058	0.046	0.019
30	Chromium as Cr^{+6}	mg/l	<0.05	<0.05	<0.05	<0.05
31	Selenium as Se	mg/l	<0.005	<0.005	<0.005	<0.005
32	Zinc as Zn	mg/l	0.012	0.023	0.045	0.016
33	Aluminum as Al	mg/l	0.009	0.015	0.011	0.027
34	Mercury as Hg	mg/l	<0.001	<0.001	<0.001	<0.001
35	SAR	-	1.48	1.75	1.03	0.78
36	Insecticides	mg/l	Absent	Absent	Absent	Absent
37	Anionic detergents as MBAS	mg/l	Absent	Absent	Absent	Absent
38	Total Coliforms	MPN/100	28	41	36	54

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)

-END OF THE REPORTS-

Name and Designation of Authorized Signatory



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Report Number	:	**VLL/VLS/26-27/07623/002**
Issued Date	:	**2026-07-04**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **SURFACE WATER SAMPLE (BALCO PLANT)**

Sample Registration Date	:	2026-06-11	Sampling Date	:	2026-06-05
Analysis Starting Date	:	2026-06-11	Analysis Completion Date	:	2026-06-26
Samples Details	:	SW5- Hasdeo river near Ramgarh (U/S) SW6- Hasdeo river near Gerwaghat, SW7- Hasdeo river near kohariya, SW8- Hasdeo river near kobra(D/S)-1, SW9- Hasdeo River near Kobra (D/S)-2.			

SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Sr. No.	Parameters	Unit	SW5	SW6	SW7	SW8	SW9
1	pH	-	7.45	7.34	7.56	7.12	7.84
2	Colour	Hazen	1	4	3	2	2
3	Conductivity	µS/cm	175	220	205	155	165
4	TDS	mg/l	110	142	130	101	106
5	DO	mg/l	7.1	7.2	7.4	7.0	7.2
6	BOD	mg/l	1.7	1.2	2.1	2.7	2.3
7	COD	mg/l	6.0	5.0	8.0	10.0	9.0
8	Turbidity	NTU	6.0	4.0	8.0	4.0	8.0
9	Total Hardness as $CaCO_3$	mg/l	46	60	54	42	46
10	Total Alkalinity as $CaCO_3$	mg/l	40	50	45	35	40
11	Calcium as Ca	mg/l	12.4	15.6	13.5	12.2	13.2
12	Magnesium as Mg	mg/l	3.7	4.3	4.9	2.9	3.2
13	Chlorides as Cl	mg/l	25.6	31.4	29.8	21.7	22.5
14	Residual free chlorine	mg/l	<0.2	<0.2	<0.2	<0.2	<0.2
15	Phosphates as PO_4	mg/l	0.075	0.085	0.079	0.11	0.14
16	Sulphates as SO_4	mg/l	9.7	12.3	11.8	9.8	8.2
17	Fluorides as F	mg/l	0.294	0.365	0.421	0.256	0.274
18	Nitrates as NO_3	mg/l	1.2	2.7	2.5	1.2	1.9
19	Sodium as Na	mg/l	18.4	23.2	21.2	15.4	16.2
20	Potassium as K	mg/l	1.4	2.6	1.9	1.3	0.8
21	Total Boron as B	mg/l	0.018	0.018	0.024	0.011	0.027
22	Phenolic Compounds	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001
23	Cyanides as CN	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01
24	Oil & grease	mg/l	<1.0	<1.0	<1.0	<1.0	<1.0
25	Cadmium as Cd	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005
26	Arsenic as As	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001
27	Copper as Cu	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005
28	Lead as Pb	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005
29	Iron as Fe	mg/l	0.027	0.039	0.062	0.045	0.051
30	Chromium as Cr^{+6}	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05
31	Selenium as Se	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005
32	Zinc as Zn	mg/l	0.035	0.054	0.018	0.107	0.031
33	Aluminum as Al	mg/l	0.031	0.026	0.022	0.018	0.023
34	Mercury as Hg	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001
35	SAR	-	1.18	1.34	1.26	1.03	1.04
36	Insecticides	mg/l	Absent	Absent	Absent	Absent	Absent
37	Anionic detergents as MBAS	mg/l	Absent	Absent	Absent	Absent	Absent
38	Total Coliforms	MPN/100	52	43	56	48	53

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)

-END OF THE REPORTS-

Name and Designation of Authorized Signatory

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

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Driven by Quality. Inspired by Science.

ISSUED TO:

M/s. Bharat Aluminum Company Limited,
BALCO
KORBA
Chhattisgarh

Report Number	:	**VLL/VLS/26-27/10232/001**
Issued Date	:	**2026-08-05**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (BALCO PLANT)**

Sample Registration Date	:	2026-07-13	Sampling Date	:	2026-07-06
Analysis Starting Date	:	2026-07-13	Analysis Completion Date	:	2026-07-28
Test Required	:	Water Analysis as per IS 10500 : 2012			

SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Rogbheri (B/W)*	*Rogbheri (D/W)*	*Bailgiri Basti(B/W)*	*Bailgiri Basti(D/W)*
1	pH value	-	6.5-8.5 (NR)	7.12	7.02	6.97	7.23
2	Color	Hazen	5(15)	Colorless	Colorless	Colorless	Colorless
3	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	1(5)	2	3	3	2
6	Total dissolved solids at 180°C	mg/l	500(2000)	535	250	687	386
7	Total Hardness as $CaCO_3$	mg/l	200(600)	210	127	285	236
8	Total Alkalinity as $CaCO_3$	mg/l	200(600)	170	85	265	180
9	Calcium as Ca	mg/l	75(200)	44.8	25.6	73.6	58.4
10	Magnesium as Mg	mg/l	30(100)	23.4	15.4	24.3	21.9
11	Free Residual chlorine	mg/l	0.2(1.0)	<0.1	<0.1	<0.1	<0.1
12	Boron as B	mg/l	0.5(1.0)	0.023	0.017	0.012	0.01
13	Chlorides as Cl	mg/l	250(1000)	151.2	62.2	143.8	55.3
14	Sulphate as SO_4	mg/l	200(400)	39.7	23.4	58.0	36.7
15	Fluorides as F	mg/l	1.0(1.5)	0.511	0.534	0.426	0.501
16	Nitrates as NO_3	mg/l	45(NR)	3.4	2.2	4.8	2.1
17	Phenolic Compounds as C_6H_5OH	mg/l	0.001(0.002)	<0.001	<0.001	<0.001	<0.001
18	Cyanides	mg/l	0.05(NR)	<0.01	<0.01	<0.01	<0.01

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

Name and Designation of Authorized Signatory

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

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Chhattisgarh

Report Number	:	**VLL/VLS/26-27/10232/001**
Issued Date	:	**2026-08-05**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (BALCO PLANT)**

Sample Registration Date	:	2026-07-13	Sampling Date	:	2026-07-06
Analysis Starting Date	:	2026-07-13	Analysis Completion Date	:	2026-07-28
Test Required	:	Water Analysis as per IS 10500 : 2012			

SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	Rogbheri (B/W)	Rogbheri (D/W)	Bailgiri Basti(B/W)	Bailgiri Basti(D/W)
19	Anionic detergents as MBAS	mg/l	0.2(1.0)	<0.02	<0.02	<0.02	<0.02
20	Mineral oil	mg/l	0.5(NR)	Absent	Absent	Absent	Absent
21	Cadmium as Cd	mg/l	0.003(NR)	<0.005	<0.005	<0.005	<0.005
22	Total Arsenic as As	mg/l	0.01(0.05)	<0.001	<0.001	<0.001	<0.001
23	Copper as Cu	mg/l	0.05(1.5)	<0.005	<0.005	<0.005	<0.005
24	Lead as Pb	mg/l	0.01(NR)	<0.005	<0.005	<0.005	<0.005
25	Manganese as Mn	mg/l	0.1(0.3)	0.009	0.01	0.007	0.005
26	Molybdenum as Mo	mg/l	0.07(NR)	<0.001	<0.001	<0.001	<0.001
27	Nickel as Ni	mg/l	0.02(NR)	<0.005	<0.005	<0.005	<0.005
28	Iron as Fe	mg/l	0.3(NR)	0.023	0.017	0.019	0.016
29	Total Chromium as Cr	mg/l	0.05(NR)	<0.005	<0.005	<0.005	<0.005
30	Selenium as Se	mg/l	0.05(NR)	<0.005	<0.005	<0.005	<0.005
31	Zinc as Zn	mg/l	5.0(15)	0.16	0.010	0.019	0.007
32	Aluminum as Al	mg/l	0.03(0.2)	0.013	0.01	0.011	0.008
33	Mercury as Hg	mg/l	0.001(NR)	<0.001	<0.001	<0.001	<0.001
34	Sulphide as H2S	mg/l	0.05(NR)	<0.05	<0.05	<0.05	<0.05
35	Chloramines as Cl2	mg/l	4.0(NR)	<0.05	<0.05	<0.05	<0.05
36	Ammonia (as total ammonia-N	mg/l	0.5(NR)	<0.05	<0.05	<0.05	<0.05
37	Barium as Ba	mg/l	0.7(NR)	0.015	0.011	0.019	0.026
38	Silver as Ag	mg/l	0.1(NR)	<0.005	<0.005	<0.005	<0.005

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

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

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Chhattisgarh

Report Number	:	**VLL/VLS/26-27/10232/001**
Issued Date	:	**2026-08-05**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (BALCO PLANT)**

Sample Registration Date	:	2026-07-13	Sampling Date	:	2026-07-06
Analysis Starting Date	:	2026-07-13	Analysis Completion Date	:	2026-07-28
Test Required	:	Water Analysis as per IS 10500 : 2012			
SAMPLE COLLECTED BY VIMTA LABS LTD.					

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Rogbheri (B/W)*	*Rogbheri (D/W)*	*Bailgiri Basti(B/W)*	*Bailgiri Basti(D/W)*
39	Polychlorinated biphenyls	mg/l	0.0005(NR)	Absent	Absent	Absent	Absent
40	Polynuclear aromatic hydrocarbon as PAH	mg/l	0.0001(NR)	<0.0001	<0.0001	<0.0001	<0.0001
41	Bromoform	mg/l	0.1(NR)	<0.0001	<0.0001	<0.0001	<0.0001
42	Dibromochloromethane	mg/l	0.1(NR)	<0.01	<0.01	<0.01	<0.01
43	Bromodichloromethane	mg/l	0.06(NR)	<0.01	<0.01	<0.01	<0.01
44	Chloroform	mg/l	0.2(NR)	<0.001	<0.001	<0.001	<0.001
(A)	**Pesticides**						
45	Alachlor	µg/l	20	<0.01	<0.01	<0.01	<0.01
46	Atrazine	µg/l	2	<0.01	<0.01	<0.01	<0.01
47	Aldrin	µg/l	0.03	<0.01	<0.01	<0.01	<0.01
48	Alpha HCH	µg/l	0.01	<0.01	<0.01	<0.01	<0.01
49	Beta HCH	µg/l	0.04	<0.01	<0.01	<0.01	<0.01
50	Butachlor	µg/l	125	<0.01	<0.01	<0.01	<0.01
51	Chlorpyriphos	µg/l	30	<0.01	<0.01	<0.01	<0.01
52	Delta HCH	µg/l	0.04	<0.01	<0.01	<0.01	<0.01
53	2,4-Dichlorophenoxyacetic acid	µg/l	30	<0.01	<0.01	<0.01	<0.01
54	DDT	µg/l	1	<0.01	<0.01	<0.01	<0.01
55	Endosulfan (alpha, beta and Sulphate)	µg/l	0.4	<0.01	<0.01	<0.01	<0.01
56	Ethion	µg/l	3	<0.01	<0.01	<0.01	<0.01
57	Gamma HCH	µg/l	2	<0.01	<0.01	<0.01	<0.01
58	Isoproturon	µg/l	9	<0.01	<0.01	<0.01	<0.01

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

ENVIRONMENT LABORATORY Vimta VIMTA LABS Sr. No.-5

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Report Number	:	**VLL/VLS/26-27/10232/001**
Issued Date	:	**2026-08-05**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (BALCO PLANT)**

Sample Registration Date	:	2026-07-13	Sampling Date	:	2026-07-06
Analysis Starting Date	:	2026-07-13	Analysis Completion Date	:	2026-07-28
Test Required	:	Water Analysis as per IS 10500 : 2012			
SAMPLE COLLECTED BY VIMTA LABS LTD.					

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Rogbheri (B/W)*	*Rogbheri (D/W)*	*Bailgiri Basti(B/W)*	*Bailgiri Basti(D/W)*
59	Malathion	µg/l	190	BDL	BDL	BDL	BDL
60	Methyl parathion	µg/l	0.3	BDL	BDL	BDL	BDL
61	Monocrotophos	µg/l	1	BDL	BDL	BDL	BDL
62	Phorate	µg/l	2	BDL	BDL	BDL	BDL
63	E.coli	Per 100 ml	Absent	Absent	Absent	Absent	Absent
64	Total Coliforms	MPN/100ml	Absent	Absent	Absent	Absent	Absent
(B)	**Radioactive**						
65	Alpha emitters	Bq/l	0.1(NR)	BDL	BDL	BDL	BDL
66	Beta emitters	Bq/l	1.0(NR)	BDL	BDL	BDL	BDL

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

-END OF THE REPORTS-

Name and Designation of Authorized Signatory

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Issued Date	:	**2026-08-05**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : GROUND WATER SAMPLES (BALCO PLANT)

Sample Registration Date	:	2026-07-13	Sampling Date	:	2026-07-06
Analysis Starting Date	:	2026-07-13	Analysis Completion Date	:	2026-07-28
Test Required	:	Water Analysis as per IS 10500 : 2012			

SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Parsabhata (B/W)*	*Parsabhata (D/W)*	*Karma Talkies (B/W)*	*Bhadrapada D/W)*
1	pH value	-	6.5-8.5 (NR)	7.45	6.78	6.84	6.96
2	Color	Hazen	5(15)	Colorless	Colorless	Colorless	Colorless
3	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	1(5)	2	2	3	2
6	Total dissolved solids at 180°C	mg/l	500(2000)	298	210	175	372
7	Total Hardness as $CaCO_3$	mg/l	200(600)	94	87	90	130
8	Total Alkalinity as $CaCO_3$	mg/l	200(600)	120	80	70	125
9	Calcium as Ca	mg/l	75(200)	18.4	24.5	19.5	34
10	Magnesium as Mg	mg/l	30(100)	11.7	6.3	9.2	11.2
11	Free Residual chlorine	mg/l	0.2(1.0)	<0.1	<0.1	<0.1	<0.1
12	Boron as B	mg/l	0.5(1.0)	0.106	<0.005	<0.005	0.011
13	Chlorides as Cl	mg/l	250(1000)	63.7	39.8	31.2	93.2
14	Sulphate as SO_4	mg/l	200(400)	17.3	19.8	17.4	28.7
15	Fluorides as F	mg/l	1.0(1.5)	0.412	0.587	0.369	0.345
16	Nitrates as NO_3	mg/l	45(NR)	3.6	2.3	1.4	4.3
17	Phenolic Compounds as C_6H_5OH	mg/l	0.001(0.002)	<0.001	<0.001	<0.001	<0.001
18	Cyanides as CN	mg/l	0.05(NR)	<0.01	<0.01	<0.01	<0.01

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

Name and Designation of Authorized Signatory

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

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Report Number	:	**VLL/VLS/26-27/10232/001**
Issued Date	:	**2026-08-05**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (BALCO PLANT)**

Sample Registration Date	:	2026-07-13	Sampling Date	:	2026-07-06
Analysis Starting Date	:	2026-07-13	Analysis Completion Date	:	2026-07-28
Test Required	:	Water Analysis as per IS 10500 : 2012			

SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Parsabhata (B/W)*	*Parsabhata (D/W)*	*Karma Talkies(B/W)*	*Bhadrapada D/W)*
19	Anionic detergents as MBAS	mg/l	0.2(1.0)	<0.02	<0.02	<0.02	<0.02
20	Mineral oil	mg/l	0.5(NR)	Absent	Absent	Absent	Absent
21	Cadmium as Cd	mg/l	0.003(NR)	<0.005	<0.005	<0.005	<0.005
22	Total Arsenic as As	mg/l	0.01(0.05)	<0.001	<0.001	<0.001	<0.001
23	Copper as Cu	mg/l	0.05(1.5)	<0.005	<0.005	<0.005	<0.005
24	Lead as Pb	mg/l	0.01(NR)	<0.005	<0.005	<0.005	<0.005
25	Manganese as Mn	mg/l	0.1(0.3)	0.01	<0.005	<0.005	0.011
26	Molybdenum as Mo	mg/l	0.07(NR)	<0.001	<0.001	<0.001	<0.001
27	Nickel as Ni	mg/l	0.02(NR)	<0.005	<0.005	<0.005	<0.005
28	Iron as Fe	mg/l	0.3(NR)	0.023	0.013	0.031	0.019
29	Total Chromium as Cr	mg/l	0.05(NR)	<0.005	<0.005	<0.005	<0.005
30	Selenium as Se	mg/l	0.05(NR)	<0.005	<0.005	<0.005	<0.005
31	Zinc as Zn	mg/l	5.0(15)	0.012	0.015	0.01	0.006
32	Aluminum as Al	mg/l	0.03(0.2)	0.014	0.018	0.026	0.011
33	Mercury as Hg	mg/l	0.001(NR)	<0.001	<0.001	<0.001	<0.001
34	Sulphide as H2S	mg/l	0.05(NR)	<0.05	<0.05	<0.05	<0.05
35	Chloramines as Cl2	mg/l	4.0(NR)	<0.05	<0.05	<0.05	<0.05
36	Ammonia (as total ammonia-N	mg/l	0.5(NR)	<0.05	<0.05	<0.05	<0.05
37	Barium as Ba	mg/l	0.7(NR)	0.018	0.013	0.011	0.010
38	Silver as Ag	mg/l	0.1(NR)	<0.005	<0.005	<0.005	<0.005

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

Name and Designation of Authorized Signatory

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Chhattisgarh

Report Number	:	**VLL/VLS/26-27/10232/001**
Issued Date	:	**2026-08-05**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (BALCO PLANT)**

Sample Registration Date	:	2026-07-13	Sampling Date	:	2026-07-06
Analysis Starting Date	:	2026-07-13	Analysis Completion Date	:	2026-07-28
Test Required	:	Water Analysis as per IS 10500 : 2012			
SAMPLE COLLECTED BY VIMTA LABS LTD.					

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Parsabhata (B/W)*	*Parsabhata (D/W)*	*Karma Talkies(B/W)*	*Bhadrapada D/W)*
39	Polychlorinated biphenyls	mg/l	0.0005(NR)	Absent	Absent	Absent	Absent
40	Polynuclear aromatic hydrocarbon as PAH	mg/l	0.0001(NR)	<0.0001	<0.0001	<0.0001	<0.0001
41	Bromoform	mg/l	0.1(NR)	<0.0001	<0.0001	<0.0001	<0.0001
42	Dibromochloromethane	mg/l	0.1(NR)	<0.01	<0.01	<0.01	<0.01
43	Bromodichloromethane	mg/l	0.06(NR)	<0.01	<0.01	<0.01	<0.01
44	Chloroform	mg/l	0.2(NR)	<0.001	<0.001	<0.001	<0.001
(A)	**Pesticides**						
45	Alachlor	µg/l	20	<0.01	<0.01	<0.01	<0.01
46	Atrazine	µg/l	2	<0.01	<0.01	<0.01	<0.01
47	Aldrin	µg/l	0.03	<0.01	<0.01	<0.01	<0.01
48	Alpha HCH	µg/l	0.01	<0.01	<0.01	<0.01	<0.01
49	Beta HCH	µg/l	0.04	<0.01	<0.01	<0.01	<0.01
50	Butachlor	µg/l	125	<0.01	<0.01	<0.01	<0.01
51	Chlorpyriphos	µg/l	30	<0.01	<0.01	<0.01	<0.01
52	Delta HCH	µg/l	0.04	<0.01	<0.01	<0.01	<0.01
53	2,4-Dichlorophenoxyacetic acid	µg/l	30	<0.01	<0.01	<0.01	<0.01
54	DDT	µg/l	1	<0.01	<0.01	<0.01	<0.01
55	Endosulfan (alpha, beta and Sulphate)	µg/l	0.4	<0.01	<0.01	<0.01	<0.01
56	Ethion	µg/l	3	<0.01	<0.01	<0.01	<0.01
57	Gamma HCH	µg/l	2	<0.01	<0.01	<0.01	<0.01
58	Isoproturon	µg/l	9	<0.01	<0.01	<0.01	<0.01

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

Name and Designation of Authorized Signatory

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

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ISSUED TO:
M/s. Bharat Aluminum Company Limited,
BALCO
KORBA
Chhattisgarh

Report Number	:	**VLL/VLS/26-27/10232/001**
Issued Date	:	**2026-08-05**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (BALCO PLANT)**

Sample Registration Date	:	2026-07-13	Sampling Date	:	2026-07-06
Analysis Starting Date	:	2026-07-13	Analysis Completion Date	:	2026-07-28
Test Required	:	Water Analysis as per IS 10500 : 2012			
SAMPLE COLLECTED BY VIMTA LABS LTD.					

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Parsabhata (B/W)*	*Parsabhata (D/W)*	*Karma Talkies(B/W)*	*Bhadrapada D/W)*
59	Malathion	µg/l	190	BDL	BDL	BDL	BDL
60	Methyl parathion	µg/l	0.3	BDL	BDL	BDL	BDL
61	Monocrotophos	µg/l	1	BDL	BDL	BDL	BDL
62	Phorate	µg/l	2	BDL	BDL	BDL	BDL
63	E.coli	Per 100 ml	Absent	Absent	Absent	Absent	Absent
64	Total Coliforms	MPN/100ml	Absent	Absent	Absent	Absent	Absent
(B)	**Radioactive**						
65	Alpha emitters	Bq/l	0.1(NR)	BDL	BDL	BDL	BDL
66	Beta emitters	Bq/l	1.0(NR)	BDL	BDL	BDL	BDL

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

Name and Designation of Authorized Signatory

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Chhattisgarh

Report Number	:	**VLL/VLS/26-27/10232/002**
Issued Date	:	**2026-08-05**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **SURFACE WATER SAMPLE (BALCO PLANT)**

Sample Registration Date	:	2026-07-13	Sampling Date	:	2026-07-06
Analysis Starting Date	:	2026-07-13	Analysis Completion Date	:	2026-07-28
Samples Details	:	SW5- Hasdeo river near Ramgarh (U/S) SW6- Hasdeo river near Gerwaghat, SW7- Hasdeo river near kohariya, SW8- Hasdeo river near kobra(D/S)-1, SW9- Hasdeo River near Kobra (D/S)-2.			

SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Sr. No.	Parameters	Unit	SW5	SW6	SW7	SW8	SW9
1	pH	-	7.12	7.09	7.14	6.94	7.22
2	Colour	Hazen	2	4	2	3	2
3	Conductivity	µS/cm	184	168	178	165	154
4	TDS	mg/l	117	110	113	105	101
5	DO	mg/l	7.2	7.5	7.1	6.9	7.2
6	BOD	mg/l	2.1	1.7	1.9	2.0	1.8
7	COD	mg/l	7.4	7.0	7.2	7.3	7.1
8	Turbidity	NTU	12.0	14.0	13.0	16.0	14.0
9	Total Hardness as $CaCO_3$	mg/l	47	46	47	45	43
10	Total Alkalinity as $CaCO_3$	mg/l	35	40	40	38	32
11	Calcium as Ca	mg/l	11.5	12.2	10.5	12.6	10.8
12	Magnesium as Mg	mg/l	4.5	3.8	4.8	3.2	3.8
13	Chlorides as Cl	mg/l	29.3	21.4	24.7	22.6	24.6
14	Residual free chlorine	mg/l	<0.2	<0.2	<0.2	<0.2	<0.2
15	Phosphates as PO_4	mg/l	0.084	0.093	0.075	0.12	0.13
16	Sulphates as SO_4	mg/l	13.4	10.2	11.3	9.4	8.7
17	Fluorides as F	mg/l	0.254	0.301	0.378	0.201	0.227
18	Nitrates as NO_3	mg/l	1.8	1.7	1.4	1.2	1.9
19	Sodium as Na	mg/l	19.7	16.3	18.7	16.1	15.8
20	Potassium as K	mg/l	1.8	1.2	1.6	1.2	0.7
21	Total Boron as B	mg/l	0.019	0.015	0.028	0.013	0.021
22	Phenolic Compounds	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001
23	Cyanides as CN	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01
24	Oil & grease	mg/l	<1.0	<1.0	<1.0	<1.0	<1.0
25	Cadmium as Cd	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005
26	Arsenic as As	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001
27	Copper as Cu	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005
28	Lead as Pb	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005
29	Iron as Fe	mg/l	0.018	0.032	0.056	0.037	0.044
30	Chromium as Cr^{+6}	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05
31	Selenium as Se	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005
32	Zinc as Zn	mg/l	0.026	0.043	0.014	0.098	0.067
33	Aluminum as Al	mg/l	0.037	0.023	0.019	0.027	0.018
34	Mercury as Hg	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001
35	SAR	-	1.25	1.04	1.20	1.05	1.05
36	Insecticides	mg/l	Absent	Absent	Absent	Absent	Absent
37	Anionic detergents as MBAS	mg/l	Absent	Absent	Absent	Absent	Absent
38	Total Coliforms	MPN/100	74	72	86	80	76

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)

-END OF THE REPORTS-

Name and Designation of Authorized Signatory

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

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KORBA
Chhattisgarh

Report Number	:	**VLL/VLS/26-27/10232/001**
Issued Date	:	**2026-08-05**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **SURFACE WATER SAMPLE (BALCO PLANT)**

Sample Registration Date	:	2026-07-13	Sampling Date	:	2026-07-06
Analysis Starting Date	:	2026-07-13	Analysis Completion Date	:	2026-07-28
Samples Details	:	SW1-Bailgiri Nala (U/S)-Near Baigiri Village, SW2-Bailgiri Nala (D/S)-Near Bailgiri Basti, SW3- Dhengu Nala (U/S) Risbabasti SW4- Dhengu Nala (D/S)-near Check post Balco			

SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Sr. No.	Parameters	Unit	SW1	SW2	SW3	SW4
1	pH	-	7.85	7.21	7.35	6.54
2	Colour	Hazen	2	3	1	2
3	Conductivity	µS/cm	205	232	125	151
4	TDS	mg/l	130	145	80	98
5	DO	mg/l	5.6	7.2	6.4	6.4
6	BOD	mg/l	1.3	1.4	1.5	1.4
7	COD	mg/l	5.8	5.1	6.2	5.7
8	Turbidity	NTU	6.0	13.0	5.0	11.0
9	Total Hardness as $CaCO_3$	mg/l	45	51	34	43
10	Total Alkalinity as $CaCO_3$	mg/l	42	40	30	40
11	Calcium as Ca	mg/l	10.2	11.8	9.6	10.3
12	Magnesium as Mg	mg/l	4.7	5.2	2.5	4.2
13	Chlorides as Cl	mg/l	34.2	42.2	15.4	18.5
14	Residual free chlorine	mg/l	<0.2	<0.2	<0.2	<0.2
15	Phosphates as PO_4	mg/l	0.067	0.093	0.056	0.086
16	Sulphates as SO_4	mg/l	9.8	13.5	8.5	7.6
17	Fluorides as F	mg/l	0.256	0.3	0.3	0.278
18	Nitrates as NO_3	mg/l	1.1	1.5	1.2	1.8
19	Sodium as Na	mg/l	25.3	28.7	12.4	14.4
20	Potassium as K	mg/l	1.7	1.8	1	1.3
21	Total Boron as B	mg/l	0.010	0.023	0.014	0.025
22	Phenolic Compounds	mg/l	<0.001	<0.001	<0.001	<0.001
23	Cyanides as CN	mg/l	<0.01	<0.01	<0.01	<0.01
24	Oil & grease	mg/l	<1.0	<1.0	<1.0	<1.0
25	Cadmium as Cd	mg/l	<0.005	<0.005	<0.005	<0.005
26	Arsenic as As	mg/l	<0.001	<0.001	<0.001	<0.001
27	Copper as Cu	mg/l	<0.005	<0.005	<0.005	<0.005
28	Lead as Pb	mg/l	<0.005	<0.005	<0.005	<0.005
29	Iron as Fe	mg/l	0.029	0.047	0.038	0.022
30	Chromium as Cr^{+6}	mg/l	<0.05	<0.05	<0.05	<0.05
31	Selenium as Se	mg/l	<0.005	<0.005	<0.005	<0.005
32	Zinc as Zn	mg/l	0.010	0.017	0.031	0.019
33	Aluminum as Al	mg/l	0.023	0.019	0.017	0.029
34	Mercury as Hg	mg/l	<0.001	<0.001	<0.001	<0.001
35	SAR	-	1.64	1.75	0.92	0.96
36	Insecticides	mg/l	Absent	Absent	Absent	Absent
37	Anionic detergents as MBAS	mg/l	Absent	Absent	Absent	Absent
38	Total Coliforms	MPN/100	42	68	54	62

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)

-END OF THE REPORTS-

Name and Designation of Authorized Signatory

ENVIRONMENT LABORATORY Vimta VIMTA LABS REGD. No- DL 3400/WS Sr. No.

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Report Number	:	**VLL/VLS/26-27/13104/001**
Issued Date	:	**2026-09-04**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (BALCO PLANT)**

Sample Registration Date	:	2026-08-11	Sampling Date	:	2026-08-04
Analysis Starting Date	:	2026-08-12	Analysis Completion Date	:	2026-08-27
Test Required	:	Water Analysis as per IS 10500 : 2012			

SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Rogbheri (B/W)*	*Rogbheri (D/W)*	*Bailgiri Basti(B/W)*	*Bailgiri Basti(D/W)*
1	pH value	-	6.5-8.5 (NR)	7.25	6.89	6.82	7.12
2	Color	Hazen	5(15)	Colorless	Colorless	Colorless	Colorless
3	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	1(5)	2	1	3	2
6	Total dissolved solids at 180°C	mg/l	500(2000)	475	240	624	342
7	Total Hardness as $CaCO_3$	mg/l	200(600)	180	114	272	218
8	Total Alkalinity as $CaCO_3$	mg/l	200(600)	150	60	210	130
9	Calcium as Ca	mg/l	75(200)	50.4	28.0	73.5	51.6
10	Magnesium as Mg	mg/l	30(100)	13.1	10.7	21.4	21.6
11	Free Residual chlorine	mg/l	0.2(1.0)	<0.1	<0.1	<0.1	<0.1
12	Boron as B	mg/l	0.5(1.0)	0.015	0.013	0.024	0.011
13	Chlorides as Cl	mg/l	250(1000)	116.5	70.1	153.5	68.5
14	Sulphate as SO_4	mg/l	200(400)	49.6	31.4	56.7	41.9
15	Fluorides as F	mg/l	1.0(1.5)	0.489	0.529	0.419	0.463
16	Nitrates as NO_3	mg/l	45(NR)	4.7	1.8	5.6	1.4
17	Phenolic Compounds as C_6H_5OH	mg/l	0.001(0.002)	<0.001	<0.001	<0.001	<0.001
18	Cyanides	mg/l	0.05(NR)	<0.01	<0.01	<0.01	<0.01

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

Name and Designation of Authorized Signatory

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

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P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (BALCO PLANT)**

Sample Registration Date	:	2026-08-11	Sampling Date	:	2026-08-04
Analysis Starting Date	:	2026-08-12	Analysis Completion Date	:	2026-08-27
Test Required	:	Water Analysis as per IS 10500 : 2012			
SAMPLE COLLECTED BY VIMTA LABS LTD.					

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Rogbheri (B/W)*	*Rogbheri (D/W)*	*Bailgiri Basti(B/W)*	*Bailgiri Basti(D/W)*
19	Anionic detergents as MBAS	mg/l	0.2(1.0)	<0.02	<0.02	<0.02	<0.02
20	Mineral oil	mg/l	0.5(NR)	Absent	Absent	Absent	Absent
21	Cadmium as Cd	mg/l	0.003(NR)	<0.005	<0.005	<0.005	<0.005
22	Total Arsenic as As	mg/l	0.01(0.05)	<0.001	<0.001	<0.001	<0.001
23	Copper as Cu	mg/l	0.05(1.5)	<0.005	<0.005	<0.005	<0.005
24	Lead as Pb	mg/l	0.01(NR)	<0.005	<0.005	<0.005	<0.005
25	Manganese as Mn	mg/l	0.1(0.3)	<0.005	<0.005	0.008	0.005
26	Molybdenum as Mo	mg/l	0.07(NR)	<0.001	<0.001	<0.001	<0.001
27	Nickel as Ni	mg/l	0.02(NR)	<0.005	<0.005	<0.005	<0.005
28	Iron as Fe	mg/l	0.3(NR)	0.025	0.015	0.028	0.021
29	Total Chromium as Cr	mg/l	0.05(NR)	<0.005	<0.005	<0.005	<0.005
30	Selenium as Se	mg/l	0.05(NR)	<0.005	<0.005	<0.005	<0.005
31	Zinc as Zn	mg/l	5.0(15)	0.043	0.008	0.017	0.009
32	Aluminum as Al	mg/l	0.03(0.2)	0.017	0.006	0.013	0.01
33	Mercury as Hg	mg/l	0.001(NR)	<0.001	<0.001	<0.001	<0.001
34	Sulphide as H2S	mg/l	0.05(NR)	<0.05	<0.05	<0.05	<0.05
35	Chloramines as Cl2	mg/l	4.0(NR)	<0.05	<0.05	<0.05	<0.05
36	Ammonia (as total ammonia-N	mg/l	0.5(NR)	<0.05	<0.05	<0.05	<0.05
37	Barium as Ba	mg/l	0.7(NR)	0.017	0.01	0.023	0.015
38	Silver as Ag	mg/l	0.1(NR)	<0.005	<0.005	<0.005	<0.005

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

Name and Designation of Authorized Signatory

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

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Issued Date	:	**2026-09-04**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (BALCO PLANT)**

Sample Registration Date	:	2026-08-11	Sampling Date	:	2026-08-04
Analysis Starting Date	:	2026-08-12	Analysis Completion Date	:	2026-08-27
Test Required	:	Water Analysis as per IS 10500 : 2012			
SAMPLE COLLECTED BY VIMTA LABS LTD.					

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Rogbheri (B/W)*	*Rogbheri (D/W)*	*Bailgiri Basti(B/W)*	*Bailgiri Basti(D/W)*
39	Polychlorinated biphenyls	mg/l	0.0005(NR)	Absent	Absent	Absent	Absent
40	Polynuclear aromatic hydrocarbon as PAH	mg/l	0.0001(NR)	<0.0001	<0.0001	<0.0001	<0.0001
41	Bromoform	mg/l	0.1(NR)	<0.0001	<0.0001	<0.0001	<0.0001
42	Dibromochloromethane	mg/l	0.1(NR)	<0.01	<0.01	<0.01	<0.01
43	Bromodichloromethane	mg/l	0.06(NR)	<0.01	<0.01	<0.01	<0.01
44	Chloroform	mg/l	0.2(NR)	<0.001	<0.001	<0.001	<0.001
(A)	**Pesticides**						
45	Alachlor	µg/l	20	<0.01	<0.01	<0.01	<0.01
46	Atrazine	µg/l	2	<0.01	<0.01	<0.01	<0.01
47	Aldrin	µg/l	0.03	<0.01	<0.01	<0.01	<0.01
48	Alpha HCH	µg/l	0.01	<0.01	<0.01	<0.01	<0.01
49	Beta HCH	µg/l	0.04	<0.01	<0.01	<0.01	<0.01
50	Butachlor	µg/l	125	<0.01	<0.01	<0.01	<0.01
51	Chlorpyriphos	µg/l	30	<0.01	<0.01	<0.01	<0.01
52	Delta HCH	µg/l	0.04	<0.01	<0.01	<0.01	<0.01
53	2,4-Dichlorophenoxyacetic acid	µg/l	30	<0.01	<0.01	<0.01	<0.01
54	DDT	µg/l	1	<0.01	<0.01	<0.01	<0.01
55	Endosulfan (alpha, beta and Sulphate)	µg/l	0.4	<0.01	<0.01	<0.01	<0.01
56	Ethion	µg/l	3	<0.01	<0.01	<0.01	<0.01
57	Gamma HCH	µg/l	2	<0.01	<0.01	<0.01	<0.01
58	Isoproturon	µg/l	9	<0.01	<0.01	<0.01	<0.01

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

Name and Designation of Authorized Signatory

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

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ISSUED TO:

M/s. Bharat Aluminum Company Limited,
BALCO
KORBA
Chhattisgarh

Report Number	:	**VLL/VLS/26-27/13104/001**
Issued Date	:	**2026-09-04**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (BALCO PLANT)**

Sample Registration Date	:	2026-08-11	Sampling Date	:	2026-08-04
Analysis Starting Date	:	2026-08-12	Analysis Completion Date	:	2026-08-27
Test Required	:	Water Analysis as per IS 10500 : 2012			
SAMPLE COLLECTED BY VIMTA LABS LTD.					

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Rogbheri (B/W)*	*Rogbheri (D/W)*	*Bailgiri Basti(B/W)*	*Bailgiri Basti(D/W)*
59	Malathion	µg/l	190	BDL	BDL	BDL	BDL
60	Methyl parathion	µg/l	0.3	BDL	BDL	BDL	BDL
61	Monocrotophos	µg/l	1	BDL	BDL	BDL	BDL
62	Phorate	µg/l	2	BDL	BDL	BDL	BDL
63	E.coli	Per 100 ml	Absent	Absent	Absent	Absent	Absent
64	Total Coliforms	MPN/100ml	Absent	Absent	Absent	Absent	Absent
(B)	**Radioactive**						
65	Alpha emitters	Bq/l	0.1(NR)	BDL	BDL	BDL	BDL
66	Beta emitters	Bq/l	1.0(NR)	BDL	BDL	BDL	BDL

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

-END OF THE REPORTS-

Name and Designation of Authorized Signatory

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Report Number	:	**VLL/VLS/26-27/13104/001**
Issued Date	:	**2026-09-04**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : GROUND WATER SAMPLES (BALCO PLANT)

Sample Registration Date	:	2026-08-11	Sampling Date	:	2026-08-04
Analysis Starting Date	:	2026-08-12	Analysis Completion Date	:	2026-08-27
Test Required	:	Water Analysis as per IS 10500 : 2012			

SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Parsabhata (B/W)*	*Parsabhata (D/W)*	*Karma Talkies(B/W)*	*Bhadrapada D/W)*
1	pH value	-	6.5-8.5 (NR)	7.25	6.71	6.78	6.81
2	Color	Hazen	5(15)	Colorless	Colorless	Colorless	Colorless
3	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	1(5)	3	1	3	2
6	Total dissolved solids at 180°C	mg/l	500(2000)	262	198	140	295
7	Total Hardness as $CaCO_3$	mg/l	200(600)	110	119	92	116
8	Total Alkalinity as $CaCO_3$	mg/l	200(600)	95	40.48	30	70
9	Calcium as Ca	mg/l	75(200)	24.0	32.2	17.5	25.6
10	Magnesium as Mg	mg/l	30(100)	12.2	9.2	11.7	12.6
11	Free Residual chlorine	mg/l	0.2(1.0)	<0.1	<0.1	<0.1	<0.1
12	Boron as B	mg/l	0.5(1.0)	0.034	<0.005	<0.005	<0.005
13	Chlorides as Cl	mg/l	250(1000)	62.4	71.7	46.0506	98
14	Sulphate as SO_4	mg/l	200(400)	19.1	20.2	19.8	27.4
15	Fluorides as F	mg/l	1.0(1.5)	0.453	0.559	0.354	0.329
16	Nitrates as NO_3	mg/l	45(NR)	3.4	2.1	1.7	3.4
17	Phenolic Compounds as C_6H_5OH	mg/l	0.001(0.002)	<0.001	<0.001	<0.001	<0.001
18	Cyanides as CN	mg/l	0.05(NR)	<0.01	<0.01	<0.01	<0.01

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

Name and Designation of Authorized Signatory

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

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Chhattisgarh

Report Number : **VLL/VLS/26-27/13104/001**
Issued Date : **2026-09-04**
P.O. No. : **3402001553**
P.O. Date : **2025-10-01**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (BALCO PLANT)**

Sample Registration Date	:	2026-08-11	Sampling Date	:	2026-08-04
Analysis Starting Date	:	2026-08-12	Analysis Completion Date	:	2026-08-27
Test Required	:	Water Analysis as per IS 10500 : 2012			
SAMPLE COLLECTED BY VIMTA LABS LTD.					

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Parsabhata (B/W)*	*Parsabhata (D/W)*	*Karma Talkies(B/W)*	*Bhadrapada D/W)*
19	Anionic detergents as MBAS	mg/l	0.2(1.0)	<0.02	<0.02	<0.02	<0.02
20	Mineral oil	mg/l	0.5(NR)	Absent	Absent	Absent	Absent
21	Cadmium as Cd	mg/l	0.003(NR)	<0.005	<0.005	<0.005	<0.005
22	Total Arsenic as As	mg/l	0.01(0.05)	<0.001	<0.001	<0.001	<0.001
23	Copper as Cu	mg/l	0.05(1.5)	<0.005	<0.005	<0.005	<0.005
24	Lead as Pb	mg/l	0.01(NR)	<0.005	<0.005	<0.005	<0.005
25	Manganese as Mn	mg/l	0.1(0.3)	0.011	<0.005	<0.005	0.011
26	Molybdenum as Mo	mg/l	0.07(NR)	<0.001	<0.001	<0.001	<0.001
27	Nickel as Ni	mg/l	0.02(NR)	<0.005	<0.005	<0.005	<0.005
28	Iron as Fe	mg/l	0.3(NR)	0.034	0.018	0.028	0.011
29	Total Chromium as Cr	mg/l	0.05(NR)	<0.005	<0.005	<0.005	<0.005
30	Selenium as Se	mg/l	0.05(NR)	<0.005	<0.005	<0.005	<0.005
31	Zinc as Zn	mg/l	5.0(15)	0.01	0.013	0.007	0.008
32	Aluminum as Al	mg/l	0.03(0.2)	0.016	0.024	0.018	0.010
33	Mercury as Hg	mg/l	0.001(NR)	<0.001	<0.001	<0.001	<0.001
34	Sulphide as H2S	mg/l	0.05(NR)	<0.05	<0.05	<0.05	<0.05
35	Chloramines as Cl2	mg/l	4.0(NR)	<0.05	<0.05	<0.05	<0.05
36	Ammonia (as total ammonia-N	mg/l	0.5(NR)	<0.05	<0.05	<0.05	<0.05
37	Barium as Ba	mg/l	0.7(NR)	0.022	0.026	0.016	0.015
38	Silver as Ag	mg/l	0.1(NR)	<0.005	<0.005	<0.005	<0.005

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

Name and Designation of Authorized Signatory

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

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Report Number : **VLL/VLS/26-27/13104/001**
Issued Date : **2026-09-04**
P.O. No. : **3402001553**
P.O. Date : **2025-10-01**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (BALCO PLANT)**

Sample Registration Date	:	2026-08-11	Sampling Date	:	2026-08-04
Analysis Starting Date	:	2026-08-12	Analysis Completion Date	:	2026-08-27
Test Required	:	Water Analysis as per IS 10500 : 2012			
SAMPLE COLLECTED BY VIMTA LABS LTD.					

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Parsabhata (B/W)*	*Parsabhata (D/W)*	*Karma Talkies(B/W)*	*Bhadrapada D/W)*
39	Polychlorinated biphenyls	mg/l	0.0005(NR)	Absent	Absent	Absent	Absent
40	Polynuclear aromatic hydrocarbon as PAH	mg/l	0.0001(NR)	<0.0001	<0.0001	<0.0001	<0.0001
41	Bromoform	mg/l	0.1(NR)	<0.0001	<0.0001	<0.0001	<0.0001
42	Dibromochloromethane	mg/l	0.1(NR)	<0.01	<0.01	<0.01	<0.01
43	Bromodichloromethane	mg/l	0.06(NR)	<0.01	<0.01	<0.01	<0.01
44	Chloroform	mg/l	0.2(NR)	<0.001	<0.001	<0.001	<0.001
(A)	**Pesticides**						
45	Alachlor	µg/l	20	<0.01	<0.01	<0.01	<0.01
46	Atrazine	µg/l	2	<0.01	<0.01	<0.01	<0.01
47	Aldrin	µg/l	0.03	<0.01	<0.01	<0.01	<0.01
48	Alpha HCH	µg/l	0.01	<0.01	<0.01	<0.01	<0.01
49	Beta HCH	µg/l	0.04	<0.01	<0.01	<0.01	<0.01
50	Butachlor	µg/l	125	<0.01	<0.01	<0.01	<0.01
51	Chlorpyriphos	µg/l	30	<0.01	<0.01	<0.01	<0.01
52	Delta HCH	µg/l	0.04	<0.01	<0.01	<0.01	<0.01
53	2,4-Dichlorophenoxyacetic acid	µg/l	30	<0.01	<0.01	<0.01	<0.01
54	DDT	µg/l	1	<0.01	<0.01	<0.01	<0.01
55	Endosulfan (alpha, beta and Sulphate)	µg/l	0.4	<0.01	<0.01	<0.01	<0.01
56	Ethion	µg/l	3	<0.01	<0.01	<0.01	<0.01
57	Gamma HCH	µg/l	2	<0.01	<0.01	<0.01	<0.01
58	Isoproturon	µg/l	9	<0.01	<0.01	<0.01	<0.01

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

Name and Designation of Authorized Signatory

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BALCO
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Chhattisgarh

Report Number	:	**VLL/VLS/26-27/13104/001**
Issued Date	:	**2026-09-04**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (BALCO PLANT)**

Sample Registration Date	:	2026-08-11	Sampling Date	:	2026-08-04
Analysis Starting Date	:	2026-08-12	Analysis Completion Date	:	2026-08-27
Test Required	:	Water Analysis as per IS 10500 : 2012			
SAMPLE COLLECTED BY VIMTA LABS LTD.					

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Parsabhata (B/W)*	*Parsabhata (D/W)*	*Karma Talkies(B/W)*	*Bhadrapada D/W)*
59	Malathion	µg/l	190	BDL	BDL	BDL	BDL
60	Methyl parathion	µg/l	0.3	BDL	BDL	BDL	BDL
61	Monocrotophos	µg/l	1	BDL	BDL	BDL	BDL
62	Phorate	µg/l	2	BDL	BDL	BDL	BDL
63	E.coli	Per 100 ml	Absent	Absent	Absent	Absent	Absent
64	Total Coliforms	MPN/100ml	Absent	Absent	Absent	Absent	Absent
(B)	**Radioactive**						
65	Alpha emitters	Bq/l	0.1(NR)	BDL	BDL	BDL	BDL
66	Beta emitters	Bq/l	1.0(NR)	BDL	BDL	BDL	BDL

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

Name and Designation of Authorized Signatory

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Report Number	:	**VLL/VLS/26-27/13104/001**
Issued Date	:	**2026-09-04**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **SURFACE WATER SAMPLE (BALCO PLANT)**

Sample Registration Date	:	2026-08-11	Sampling Date	:	2026-08-04
Analysis Starting Date	:	2026-08-12	Analysis Completion Date	:	2026-08-25
Samples Details	:	SW1-Bailgiri Nala (U/S)-Near Baigiri Village, SW2-Bailgiri Nala (D/S)-Near Bailgiri Basti, SW3- Dhengu Nala (U/S) Risbabasti SW4- Dhengu Nala (D/S)-near Check post Balco			

SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Sr. No.	Parameters	Unit	SW1	SW2	SW3	SW4
1	pH	-	7.24	7.08	7.21	6.74
2	Colour	Hazen	1	2	1	3
3	Conductivity	µS/cm	260	298	205	230
4	TDS	mg/l	160	186	125	144
5	TSS	mg/l	270	380	310	450
6	DO	mg/l	6.2	5.2	6.5	5.7
7	BOD	mg/l	0.4	2.2	0.6	1.3
8	COD	mg/l	1.6	8.0	2.4	5.6
9	Turbidity	NTU	12	25	14	26
10	Total Hardness as $CaCO_3$	mg/l	67	75	61	70
11	Total Alkalinity as $CaCO_3$	mg/l	50	55	45	50
12	Calcium as Ca	mg/l	12.5	16.4	11.5	14.4
13	Magnesium as Mg	mg/l	8.7	8.3	7.8	8.3
14	Chlorides as Cl	mg/l	44.7	51.2	25.6	26.7
15	Residual free chlorine	mg/l	<0.2	<0.2	<0.2	<0.2
16	Phosphates as PO_4	mg/l	0.056	0.084	0.068	0.094
17	Sulphates as SO_4	mg/l	13.1	17.8	15.1	21.7
18	Fluorides as F	mg/l	0.187	0.246	0.252	0.278
19	Nitrates as NO_3	mg/l	1.6	2.4	1.3	2.1
20	Sodium as Na	mg/l	27.3	32.5	16.6	18.4
21	Potassium as K	mg/l	1.9	2.3	1.5	2.1
22	Total Boron as B	mg/l	0.012	0.034	0.011	0.028
23	Phenolic Compounds	mg/l	<0.001	<0.001	<0.001	<0.001
24	Cyanides as CN	mg/l	<0.01	<0.01	<0.01	<0.01
25	Oil & grease	mg/l	<1.0	<1.0	<1.0	<1.0
26	Cadmium as Cd	mg/l	<0.005	<0.005	<0.005	<0.005
27	Arsenic as As	mg/l	<0.001	<0.001	<0.001	<0.001
28	Copper as Cu	mg/l	<0.005	<0.005	<0.005	<0.005
29	Lead as Pb	mg/l	<0.005	<0.005	<0.005	<0.005
30	Iron as Fe	mg/l	0.017	0.032	0.024	0.014
31	Chromium as Cr^{+6}	mg/l	<0.05	<0.05	<0.05	<0.05
32	Selenium as Se	mg/l	<0.005	<0.005	<0.005	<0.005
33	Zinc as Zn	mg/l	0.009	0.016	0.028	0.015
34	Aluminum as Al	mg/l	0.019	0.011	0.021	0.021
35	Mercury as Hg	mg/l	<0.001	<0.001	<0.001	<0.001
36	SAR	-	1.45	1.63	0.93	0.96
37	Insecticides	mg/l	Absent	Absent	Absent	Absent
38	Anionic detergents as MBAS	mg/l	Absent	Absent	Absent	Absent
39	Total Coliforms	MPN/100	190	270	150	290

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)

Name and Designation of Authorized Signatory

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

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Report Number	:	**VLL/VLS/26-27/13104/002**
Issued Date	:	**2026-09-04**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **SURFACE WATER SAMPLE (BALCO PLANT)**

Sample Registration Date	:	2026-08-11	Sampling Date	:	2026-08-04
Analysis Starting Date	:	2026-08-12	Analysis Completion Date	:	2026-08-25
Samples Details	:	SW5- Hasdeo river near Ramgarh (U/S) SW6- Hasdeo river near Gerwaghat, SW7- Hasdeo river near kohariya, SW8- Hasdeo river near kobra(D/S)-1, SW9- Hasdeo River near Kobra (D/S)-2.			

SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Sr. No.	Parameters	Unit	SW5	SW6	SW7	SW8	SW9
1	pH	-	7.03	6.98	7.01	6.87	7.01
2	Colour	Hazen	1	2	3	4	3
3	Conductivity	µS/cm	215	250	241	195	230
4	TDS	mg/l	136	160	151	121	142
5	TSS	mg/l	225	390	340	470	430
6	DO	mg/l	7.4	7.7	7.3	7.2	7.4
7	BOD	mg/l	1.5	1.7	1.3	1.9	1.8
8	COD	mg/l	5.2	6.4	5.6	7.2	7.2
9	Turbidity	NTU	36	35	32	35	35
10	Total Hardness as $CaCO_3$	mg/l	69	70	76	62	74
11	Total Alkalinity as $CaCO_3$	mg/l	40	50	45	35	40
12	Calcium as Ca	mg/l	16.8	15.2	14.4	13.6	16.0
13	Magnesium as Mg	mg/l	6.5	7.8	9.7	6.9	8.3
14	Chlorides as Cl	mg/l	31.2	37	34.3	28.7	36
15	Residual free chlorine	mg/l	<0.2	<0.2	<0.2	<0.2	<0.2
16	Phosphates as PO_4	mg/l	0.071	0.056	0.063	0.098	0.11
17	Sulphates as SO_4	mg/l	21.1	20.1	24.6	18.9	19.8
18	Fluorides as F	mg/l	0.274	0.296	0.209	0.254	0.239
19	Nitrates as NO_3	mg/l	1.3	2.1	1.5	1.5	2.7
20	Sodium as Na	mg/l	16.7	23.6	19.5	15.3	17.6
21	Potassium as K	mg/l	2.3	3.4	1.9	1.1	1.5
22	Total Boron as B	mg/l	0.017	0.011	0.031	0.016	0.018
23	Phenolic Compounds	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001
24	Cyanides as CN	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01
25	Oil & grease	mg/l	<1.0	<1.0	<1.0	<1.0	<1.0
26	Cadmium as Cd	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005
27	Arsenic as As	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001
28	Copper as Cu	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005
29	Lead as Pb	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005
30	Iron as Fe	mg/l	0.022	0.043	0.061	0.037	0.041
31	Chromium as Cr^{+6}	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05
32	Selenium as Se	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005
33	Zinc as Zn	mg/l	0.032	0.037	0.019	0.076	0.052
34	Aluminum as Al	mg/l	0.024	0.018	0.021	0.034	0.026
35	Mercury as Hg	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001
36	SAR	-	0.88	1.23	0.97	0.84	0.89
37	Insecticides	mg/l	Absent	Absent	Absent	Absent	Absent
38	Anionic detergents as MBAS	mg/l	Absent	Absent	Absent	Absent	Absent
39	Total Coliforms	MPN/100	210	410	380	460	567

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)

-END OF THE REPORTS-

Name and Designation of Authorized Signatory

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

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ISSUED TO:

M/s. Bharat Aluminum Company Limited,
BALCO
KORBA
Chhattisgarh

Report Number	:	**VLL/VLS/26-27/15382/001**
Issued Date	:	**2026-10-05**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (BALCO PLANT)**

Sample Registration Date	:	2026-09-10	Sampling Date	:	2026-09-01
Analysis Starting Date	:	2026-09-10	Analysis Completion Date	:	2026-09-25
Test Required	:	Water Analysis as per IS 10500 : 2012			

SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Rogbheri (B/W)*	*Rogbheri (D/W)*	*Bailgiri Basti(B/W)*	*Bailgiri Basti(D/W)*
1	pH value	-	6.5-8.5 (NR)	6.97	6.81	6.84	6.85
2	Color	Hazen	5(15)	Colorless	Colorless	Colorless	Colorless
3	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	1(5)	2	2	2	2
6	Total dissolved solids at 180^{0}C	mg/l	500(2000)	544	210	645	633
7	Total Hardness as $CaCO_3$	mg/l	200(600)	218	86	261	284
8	Total Alkalinity as $CaCO_3$	mg/l	200(600)	165	50	220	250
9	Calcium as Ca	mg/l	75(200)	55.2	21.5	67.2	73.5
10	Magnesium as Mg	mg/l	30(100)	19.4	7.8	22.6	24.4
11	Free Residual chlorine	mg/l	0.2(1.0)	<0.1	<0.1	<0.1	<0.1
12	Boron as B	mg/l	0.5(1.0)	0.01	0.017	0.021	0.009
13	Chlorides as Cl	mg/l	250(1000)	151.4	58.2	164.7	115.8
14	Sulphate as SO_4	mg/l	200(400)	47.6	29.7	49.8	68.7
15	Fluorides as F	mg/l	1.0(1.5)	0.667	0.416	0.661	0.626
16	Nitrates as NO_3	mg/l	45(NR)	3.5	2.3	4.5	2.9
17	Phenolic Compounds as C_6H_5OH	mg/l	0.001(0.002)	<0.001	<0.001	<0.001	<0.001
18	Cyanides	mg/l	0.05(NR)	<0.01	<0.01	<0.01	<0.01

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

Name and Designation of Authorized Signatory

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ISSUED TO:

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BALCO
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Chhattisgarh

Report Number	:	**VLL/VLS/26-27/15382/001**
Issued Date	:	**2026-10-05**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (BALCO PLANT)**

Sample Registration Date	:	2026-09-10	Sampling Date	:	2026-09-01
Analysis Starting Date	:	2026-09-10	Analysis Completion Date	:	2026-09-25
Test Required	:	Water Analysis as per IS 10500 : 2012			
SAMPLE COLLECTED BY VIMTA LABS LTD.					

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	Rogbheri (B/W)	Rogbheri (D/W)	Bailgiri Basti(B/W)	Bailgiri Basti(D/W)
19	Anionic detergents as MBAS	mg/l	0.2(1.0)	<0.02	<0.02	<0.02	<0.02
20	Mineral oil	mg/l	0.5(NR)	Absent	Absent	Absent	Absent
21	Cadmium as Cd	mg/l	0.003(NR)	<0.005	<0.005	<0.005	<0.005
22	Total Arsenic as As	mg/l	0.01(0.05)	<0.001	<0.001	<0.001	<0.001
23	Copper as Cu	mg/l	0.05(1.5)	<0.005	<0.005	<0.005	<0.005
24	Lead as Pb	mg/l	0.01(NR)	<0.005	<0.005	<0.005	<0.005
25	Manganese as Mn	mg/l	0.1(0.3)	<0.005	<0.005	0.009	0.006
26	Molybdenum as Mo	mg/l	0.07(NR)	<0.001	<0.001	<0.001	<0.001
27	Nickel as Ni	mg/l	0.02(NR)	<0.005	<0.005	<0.005	<0.005
28	Iron as Fe	mg/l	0.3(NR)	0.021	0.019	0.034	0.027
29	Total Chromium as Cr	mg/l	0.05(NR)	<0.005	<0.005	<0.005	<0.005
30	Selenium as Se	mg/l	0.05(NR)	<0.005	<0.005	<0.005	<0.005
31	Zinc as Zn	mg/l	5.0(15)	0.028	0.007	0.015	0.008
32	Aluminum as Al	mg/l	0.03(0.2)	0.015	0.009	0.017	0.011
33	Mercury as Hg	mg/l	0.001(NR)	<0.001	<0.001	<0.001	<0.001
34	Sulphide as H2S	mg/l	0.05(NR)	<0.05	<0.05	<0.05	<0.05
35	Chloramines as Cl2	mg/l	4.0(NR)	<0.05	<0.05	<0.05	<0.05
36	Ammonia (as total ammonia-N	mg/l	0.5(NR)	<0.05	<0.05	<0.05	<0.05
37	Barium as Ba	mg/l	0.7(NR)	0.015	0.011	0.026	0.018
38	Silver as Ag	mg/l	0.1(NR)	<0.005	<0.005	<0.005	<0.005

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

Name and Designation of Authorized Signatory

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ISSUED TO:

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Chhattisgarh

Report Number	:	**VLL/VLS/26-27/15382/001**
Issued Date	:	**2026-10-05**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (BALCO PLANT)**

Sample Registration Date	:	2026-09-10	Sampling Date	:	2026-09-01
Analysis Starting Date	:	2026-09-10	Analysis Completion Date	:	2026-09-25
Test Required	:	Water Analysis as per IS 10500 : 2012			
SAMPLE COLLECTED BY VIMTA LABS LTD.					

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Rogbheri (B/W)*	*Rogbheri (D/W)*	*Bailgiri Basti(B/W)*	*Bailgiri Basti(D/W)*
39	Polychlorinated biphenyls	mg/l	0.0005(NR)	Absent	Absent	Absent	Absent
40	Polynuclear aromatic hydrocarbon as PAH	mg/l	0.0001(NR)	<0.0001	<0.0001	<0.0001	<0.0001
41	Bromoform	mg/l	0.1(NR)	<0.0001	<0.0001	<0.0001	<0.0001
42	Dibromochloromethane	mg/l	0.1(NR)	<0.01	<0.01	<0.01	<0.01
43	Bromodichloromethane	mg/l	0.06(NR)	<0.01	<0.01	<0.01	<0.01
44	Chloroform	mg/l	0.2(NR)	<0.001	<0.001	<0.001	<0.001
(A)	**Pesticides**						
45	Alachlor	µg/l	20	<0.01	<0.01	<0.01	<0.01
46	Atrazine	µg/l	2	<0.01	<0.01	<0.01	<0.01
47	Aldrin	µg/l	0.03	<0.01	<0.01	<0.01	<0.01
48	Alpha HCH	µg/l	0.01	<0.01	<0.01	<0.01	<0.01
49	Beta HCH	µg/l	0.04	<0.01	<0.01	<0.01	<0.01
50	Butachlor	µg/l	125	<0.01	<0.01	<0.01	<0.01
51	Chlorpyriphos	µg/l	30	<0.01	<0.01	<0.01	<0.01
52	Delta HCH	µg/l	0.04	<0.01	<0.01	<0.01	<0.01
53	2,4-Dichlorophenoxyacetic acid	µg/l	30	<0.01	<0.01	<0.01	<0.01
54	DDT	µg/l	1	<0.01	<0.01	<0.01	<0.01
55	Endosulfan (alpha, beta and Sulphate)	µg/l	0.4	<0.01	<0.01	<0.01	<0.01
56	Ethion	µg/l	3	<0.01	<0.01	<0.01	<0.01
57	Gamma HCH	µg/l	2	<0.01	<0.01	<0.01	<0.01
58	Isoproturon	µg/l	9	<0.01	<0.01	<0.01	<0.01

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

ENVIRONMENT LABORATORY Vimta VIMTA LABS REGD. No- DL 33004/99 Sr. No.-8 VIMTA

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Report Number	:	**VLL/VLS/26-27/15382/001**
Issued Date	:	**2026-10-05**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (BALCO PLANT)**

Sample Registration Date	:	2026-09-10	Sampling Date	:	2026-09-01
Analysis Starting Date	:	2026-09-10	Analysis Completion Date	:	2026-09-25
Test Required	:	Water Analysis as per IS 10500 : 2012			
SAMPLE COLLECTED BY VIMTA LABS LTD.					

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Rogbheri (B/W)*	*Rogbheri (D/W)*	*Bailgiri Basti(B/W)*	*Bailgiri Basti(D/W)*
59	Malathion	µg/l	190	BDL	BDL	BDL	BDL
60	Methyl parathion	µg/l	0.3	BDL	BDL	BDL	BDL
61	Monocrotophos	µg/l	1	BDL	BDL	BDL	BDL
62	Phorate	µg/l	2	BDL	BDL	BDL	BDL
63	E.coli	Per 100 ml	Absent	Absent	Absent	Absent	Absent
64	Total Coliforms	MPN/100ml	Absent	Absent	Absent	Absent	Absent
(B)	**Radioactive**						
65	Alpha emitters	Bq/l	0.1(NR)	BDL	BDL	BDL	BDL
66	Beta emitters	Bq/l	1.0(NR)	BDL	BDL	BDL	BDL

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

-END OF THE REPORTS-

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

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BALCO
KORBA
Chhattisgarh

Report Number	:	**VLL/VLS/26-27/15382/001**
Issued Date	:	**2026-10-05**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : GROUND WATER SAMPLES (BALCO PLANT)

Sample Registration Date	:	2026-09-10	Sampling Date	:	2026-09-01
Analysis Starting Date	:	2026-09-10	Analysis Completion Date	:	2026-09-25
Test Required	:	Water Analysis as per IS 10500 : 2012			

SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Parsabhata (B/W)*	*Parsabhata (D/W)*	*Karma Talkies(B/W)*	*Bhadrapada D/W)*
1	pH value	-	6.5-8.5 (NR)	7.16	6.90	6.88	6.92
2	Color	Hazen	5(15)	Colorless	Colorless	Colorless	Colorless
3	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	1(5)	1	2	3	3
6	Total dissolved solids at 180°C	mg/l	500(2000)	315	210	405	366
7	Total Hardness as $CaCO_3$	mg/l	200(600)	146	115	164	176
8	Total Alkalinity as $CaCO_3$	mg/l	200(600)	130	50	104	110
9	Calcium as Ca	mg/l	75(200)	32.8	27.2	37.6	46.4
10	Magnesium as Mg	mg/l	30(100)	15.6	11.2	17.0	14.6
11	Free Residual chlorine	mg/l	0.2(1.0)	<0.1	<0.1	<0.1	<0.1
12	Boron as B	mg/l	0.5(1.0)	0.027	<0.005	0.056	<0.005
13	Chlorides as Cl	mg/l	250(1000)	64.1	67.6	197.8	97.8
14	Sulphate as SO_4	mg/l	200(400)	19.4	20.0	70.1	37.5
15	Fluorides as F	mg/l	1.0(1.5)	0.372	0.420	0.682	0.525
16	Nitrates as NO_3	mg/l	45(NR)	4.7	3.2	2.8	4.7
17	Phenolic Compounds as C_6H_5OH	mg/l	0.001(0.002)	<0.001	<0.001	<0.001	<0.001
18	Cyanides as CN	mg/l	0.05(NR)	<0.01	<0.01	<0.01	<0.01

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

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

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Report Number	:	**VLL/VLS/26-27/15382/001**
Issued Date	:	**2026-10-05**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (BALCO PLANT)**

Sample Registration Date	:	2026-09-10	Sampling Date	:	2026-09-01
Analysis Starting Date	:	2026-09-10	Analysis Completion Date	:	2026-09-25
Test Required	:	Water Analysis as per IS 10500 : 2012			
SAMPLE COLLECTED BY VIMTA LABS LTD.					

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Parsabhata (B/W)*	*Parsabhata (D/W)*	*Karma Talkies(B/W)*	*Bhadrapada D/W)*
19	Anionic detergents as MBAS	mg/l	0.2(1.0)	<0.02	<0.02	<0.02	<0.02
20	Mineral oil	mg/l	0.5(NR)	Absent	Absent	Absent	Absent
21	Cadmium as Cd	mg/l	0.003(NR)	<0.005	<0.005	<0.005	<0.005
22	Total Arsenic as As	mg/l	0.01(0.05)	<0.001	<0.001	<0.001	<0.001
23	Copper as Cu	mg/l	0.05(1.5)	<0.005	<0.005	0.011	<0.005
24	Lead as Pb	mg/l	0.01(NR)	<0.005	<0.005	<0.005	<0.005
25	Manganese as Mn	mg/l	0.1(0.3)	0.01	<0.005	0.011	0.008
26	Molybdenum as Mo	mg/l	0.07(NR)	<0.001	<0.001	<0.001	<0.001
27	Nickel as Ni	mg/l	0.02(NR)	<0.005	<0.005	<0.005	<0.005
28	Iron as Fe	mg/l	0.3(NR)	0.039	0.014	0.078	0.023
29	Total Chromium as Cr	mg/l	0.05(NR)	<0.005	<0.005	<0.005	<0.005
30	Selenium as Se	mg/l	0.05(NR)	<0.005	<0.005	<0.005	<0.005
31	Zinc as Zn	mg/l	5.0(15)	0.011	0.016	0.067	0.010
32	Aluminum as Al	mg/l	0.03(0.2)	0.018	0.026	0.019	0.011
33	Mercury as Hg	mg/l	0.001(NR)	<0.001	<0.001	<0.001	<0.001
34	Sulphide as H2S	mg/l	0.05(NR)	<0.05	<0.05	<0.05	<0.05
35	Chloramines as Cl2	mg/l	4.0(NR)	<0.05	<0.05	<0.05	<0.05
36	Ammonia (as total ammonia-N	mg/l	0.5(NR)	<0.05	<0.05	<0.05	<0.05
37	Barium as Ba	mg/l	0.7(NR)	0.021	0.024	0.014	0.019
38	Silver as Ag	mg/l	0.1(NR)	<0.005	<0.005	<0.005	<0.005

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

Name and Designation of Authorized Signatory

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P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (BALCO PLANT)**

Sample Registration Date	:	2026-09-10	Sampling Date	:	2026-09-01
Analysis Starting Date	:	2026-09-10	Analysis Completion Date	:	2026-09-25
Test Required	:	Water Analysis as per IS 10500 : 2012			
SAMPLE COLLECTED BY VIMTA LABS LTD.					

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Parsabhata (B/W)*	*Parsabhata (D/W)*	*Karma Talkies(B/W)*	*Bhadrapada D/W)*
39	Polychlorinated biphenyls	mg/l	0.0005(NR)	Absent	Absent	Absent	Absent
40	Polynuclear aromatic hydrocarbon as PAH	mg/l	0.0001(NR)	<0.0001	<0.0001	<0.0001	<0.0001
41	Bromoform	mg/l	0.1(NR)	<0.0001	<0.0001	<0.0001	<0.0001
42	Dibromochloromethane	mg/l	0.1(NR)	<0.01	<0.01	<0.01	<0.01
43	Bromodichloromethane	mg/l	0.06(NR)	<0.01	<0.01	<0.01	<0.01
44	Chloroform	mg/l	0.2(NR)	<0.001	<0.001	<0.001	<0.001
(A)	**Pesticides**						
45	Alachlor	µg/l	20	<0.01	<0.01	<0.01	<0.01
46	Atrazine	µg/l	2	<0.01	<0.01	<0.01	<0.01
47	Aldrin	µg/l	0.03	<0.01	<0.01	<0.01	<0.01
48	Alpha HCH	µg/l	0.01	<0.01	<0.01	<0.01	<0.01
49	Beta HCH	µg/l	0.04	<0.01	<0.01	<0.01	<0.01
50	Butachlor	µg/l	125	<0.01	<0.01	<0.01	<0.01
51	Chlorpyriphos	µg/l	30	<0.01	<0.01	<0.01	<0.01
52	Delta HCH	µg/l	0.04	<0.01	<0.01	<0.01	<0.01
53	2,4-Dichlorophenoxyacetic acid	µg/l	30	<0.01	<0.01	<0.01	<0.01
54	DDT	µg/l	1	<0.01	<0.01	<0.01	<0.01
55	Endosulfan (alpha, beta and Sulphate)	µg/l	0.4	<0.01	<0.01	<0.01	<0.01
56	Ethion	µg/l	3	<0.01	<0.01	<0.01	<0.01
57	Gamma HCH	µg/l	2	<0.01	<0.01	<0.01	<0.01
58	Isoproturon	µg/l	9	<0.01	<0.01	<0.01	<0.01

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

Name and Designation of Authorized Signatory

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

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ISSUED TO:
M/s. Bharat Aluminum Company Limited,
BALCO
KORBA
Chhattisgarh

Report Number	:	**VLL/VLS/26-27/15382/001**
Issued Date	:	**2026-10-05**
P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (BALCO PLANT)**

Sample Registration Date	:	2026-09-10	Sampling Date	:	2026-09-01
Analysis Starting Date	:	2026-09-10	Analysis Completion Date	:	2026-09-25
Test Required	:	Water Analysis as per IS 10500 : 2012			
SAMPLE COLLECTED BY VIMTA LABS LTD.					

TEST REPORT

Sr. No.	Parameters	UOM	Limit IS 10500 : 2012	*Parsabhata (B/W)*	*Parsabhata (D/W)*	*Karma Talkies(B/W)*	*Bhadrapada D/W)*
59	Malathion	µg/l	190	BDL	BDL	BDL	BDL
60	Methyl parathion	µg/l	0.3	BDL	BDL	BDL	BDL
61	Monocrotophos	µg/l	1	BDL	BDL	BDL	BDL
62	Phorate	µg/l	2	BDL	BDL	BDL	BDL
63	E.coli	Per 100 ml	Absent	Absent	Absent	Absent	Absent
64	Total Coliforms	MPN/100ml	Absent	Absent	Absent	Absent	Absent
(B)	**Radioactive**						
65	Alpha emitters	Bq/l	0.1(NR)	BDL	BDL	BDL	BDL
66	Beta emitters	Bq/l	1.0(NR)	BDL	BDL	BDL	BDL

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)
Analysis as per IS 10500: 2012 Drinking Water specification

Name and Designation of Authorized Signatory

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P.O. No.	:	**3402001553**
P.O. Date	:	**2025-10-01**

SAMPLE PARTICULARS : **SURFACE WATER SAMPLE (BALCO PLANT)**

Sample Registration Date	:	2026-09-10	Sampling Date	:	2026-09-01
Analysis Starting Date	:	2026-09-10	Analysis Completion Date	:	2026-09-22
Samples Details	:	SW1-Bailgiri Nala (U/S)-Near Baigiri Village, SW2-Bailgiri Nala (D/S)-Near Bailgiri Basti, SW3- Dhengu Nala (U/S) Risbabasti SW4- Dhengu Nala (D/S)-near Check post Balco			

SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Sr. No.	Parameters	Unit	SW1	SW2	SW3	SW4
1	pH	-	7.52	6.98	6.56	6.79
2	Colour	Hazen	1	3	1	4
3	Conductivity	µS/cm	353	224	120	210
4	TDS	mg/l	180	270	290	378
5	TSS	mg/l	220	143	80	134
6	DO	mg/l	6.9	6.1	7.1	6.0
7	BOD	mg/l	6.3	9.2	6.7	7.7
8	COD	mg/l	30.4	35.2	25.6	33.6
9	Turbidity	NTU	11	17	8	14
10	Total Hardness as $CaCO_3$	mg/l	110	60	32	58
11	Total Alkalinity as $CaCO_3$	mg/l	70	50	30	45
12	Calcium as Ca	mg/l	22.4	11.2	6.4	10.4
13	Magnesium as Mg	mg/l	13.1	7.8	3.9	7.8
14	Chlorides as Cl	mg/l	57.2	28.1	11.3	28.7
15	Residual free chlorine	mg/l	<0.2	<0.2	<0.2	<0.2
16	Phosphates as PO_4	mg/l	0.047	0.093	0.056	0.084
17	Sulphates as SO_4	mg/l	22.0	18.0	12.0	16.5
18	Fluorides as F	mg/l	0.386	0.402	0.326	0.382
19	Nitrates as NO_3	mg/l	1.5	2.4	1.3	1.9
20	Sodium as Na	mg/l	29.6	21.5	12.2	19.6
21	Potassium as K	mg/l	2.1	3.7	1.5	3.6
22	Total Boron as B	mg/l	0.010	0.025	0.031	0.025
23	Phenolic Compounds	mg/l	<0.001	<0.001	<0.001	<0.001
24	Cyanides as CN	mg/l	<0.01	<0.01	<0.01	<0.01
25	Oil & grease	mg/l	<1.0	<1.0	<1.0	<1.0
26	Cadmium as Cd	mg/l	<0.005	<0.005	<0.005	<0.005
27	Arsenic as As	mg/l	<0.001	<0.001	<0.001	<0.001
28	Copper as Cu	mg/l	<0.005	<0.005	<0.005	<0.005
29	Lead as Pb	mg/l	<0.005	<0.005	<0.005	<0.005
30	Iron as Fe	mg/l	0.015	0.026	0.035	0.028
31	Chromium as Cr^{+6}	mg/l	<0.05	<0.05	<0.05	<0.05
32	Selenium as Se	mg/l	<0.005	<0.005	<0.005	<0.005
33	Zinc as Zn	mg/l	0.010	0.019	0.024	0.019
34	Aluminum as Al	mg/l	0.021	0.015	0.025	0.018
35	Mercury as Hg	mg/l	<0.001	<0.001	<0.001	<0.001
36	SAR	-	1.23	1.21	0.94	1.12
37	Insecticides	mg/l	Absent	Absent	Absent	Absent
38	Anionic detergents as MBAS	mg/l	Absent	Absent	Absent	Absent
39	Total Coliforms	MPN/100	170	240	160	310

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)

Name and Designation of Authorized Signatory

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

SAMPLE PARTICULARS : **SURFACE WATER SAMPLE (BALCO PLANT)**

Sample Registration Date : 2026-09-10 Sampling Date : 2026-09-01
Analysis Starting Date : 2026-09-10 Analysis Completion Date : 2026-09-22
Samples Details : SW5- Hasdeo river near Ramgarh (U/S) SW6- Hasdeo river near Gerwaghat, SW7- Hasdeo river near kohariya, SW8- Hasdeo river near kobra(D/S)-1, SW9- Hasdeo River near Kobra (D/S)-2.

SAMPLE COLLECTED BY VIMTA LABS LTD.

TEST REPORT

Sr. No.	Parameters	Unit	SW5	SW6	SW7	SW8	SW9
1	pH	-	6.87	7.02	7.10	6.85	6.94
2	Colour	Hazen	1	3	4	3	4
3	Conductivity	µS/cm	170	187	160	155	165
4	TDS	mg/l	245	360	320	410	385
5	TSS	mg/l	108	120	105	96	110
6	DO	mg/l	7.7	7.5	7.7	7.7	7.6
7	BOD	mg/l	6.8	7.0	6.9	6.8	6.4
8	COD	mg/l	27.2	30.4	28.8	27.2	32.0
9	Turbidity	NTU	18	16	17	18	16
10	Total Hardness as $CaCO_3$	mg/l	50	43	50	50	56
11	Total Alkalinity as $CaCO_3$	mg/l	35	40	40	30	35
12	Calcium as Ca	mg/l	11.2	9.6	10.4	9.6	11.2
13	Magnesium as Mg	mg/l	5.4	4.7	5.8	6.3	6.8
14	Chlorides as Cl	mg/l	25.7	26.1	19.8	23.2	24.7
15	Residual free chlorine	mg/l	<0.2	<0.2	<0.2	<0.2	<0.2
16	Phosphates as PO_4	mg/l	0.056	0.078	0.095	0.13	0.12
17	Sulphates as SO_4	mg/l	12.1	13.2	10.5	12.4	10.3
18	Fluorides as F	mg/l	0.398	0.385	0.378	0.398	0.374
19	Nitrates as NO_3	mg/l	1.1	2.2	1.2	1.3	1.9
20	Sodium as Na	mg/l	15.3	21.5	13.5	12.2	11.7
21	Potassium as K	mg/l	1.8	2.6	1.1	0.9	1.2
22	Total Boron as B	mg/l	0.015	0.013	0.028	0.019	0.024
23	Phenolic Compounds	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001
24	Cyanides as CN	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01
25	Oil & grease	mg/l	<1.0	<1.0	<1.0	<1.0	<1.0
26	Cadmium as Cd	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005
27	Arsenic as As	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001
28	Copper as Cu	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005
29	Lead as Pb	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005
30	Iron as Fe	mg/l	0.045	0.037	0.058	0.043	0.034
31	Chromium as Cr^{+6}	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05
32	Selenium as Se	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005
33	Zinc as Zn	mg/l	0.037	0.045	0.032	0.087	0.041
34	Aluminum as Al	mg/l	0.027	0.013	0.018	0.022	0.021
35	Mercury as Hg	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001
36	SAR	-	0.93	1.42	0.83	0.75	0.68
37	Insecticides	mg/l	Absent	Absent	Absent	Absent	Absent
38	Anionic detergents as MBAS	mg/l	Absent	Absent	Absent	Absent	Absent
39	Total Coliforms	MPN/100	230	390	360	410	480

Method of Testing: As per APHA 23rd edition and IS: 3025
Instrument Used: ICP-OES (Perkin-Elmer) & ICP-MS (agilent)

-END OF THE REPORTS-

Name and Designation of Authorized Signatory

ENVIRONMENT LABORATORY VIMTA LABS REGD. No- DL 330(W)96 VIMTA

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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-VI

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	Issue Date:	2026-05-05
	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	$\mu g/m^3$	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	$\mu g/m^3$	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)	$\mu g/m^3$	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)	$\mu g/m^3$	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	$\mu g/m^3$	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	$\mu g/m^3$	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	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	$\mu g/m^3$	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	105	176	168	147	172	139	120	185	142	IS 5182 (PART-10) RA 2019
Ozone as O_3	$\mu g/m^3$	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.

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

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ISSUED TO:	Report No.:	VLL/VLS/26-27/02504/002
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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ISSUED TO:	Report No.:	VLL/VLS/26-27/02504/003
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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ISSUED TO: M/s. Bharat Aluminium Company Limited, KORBA (C.G.)	Report No.:	VLL/VLS/26-27/02504/004
	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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ISSUED TO: M/s. Bharat Aluminium Company Limited, KORBA (C.G.)	Report No.:	VLL/VLS/26-27/02504/005
	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:
M/s. Bharat Aluminium Company Limited,
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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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ISSUED TO:
M/s. Bharat Aluminium Company Limited,
KORBA (C.G.)

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.

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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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ISSUED TO:		
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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ISSUED TO:	Report No.:	VLL/VLS/26-27/07623/004
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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ISSUED TO:	Report No.:	VLL/VLS/26-27/07623/005
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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ISSUED TO:		
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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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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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.

ENVIRONMENT LABORATORY Vimta VIMTA LABS LTD. REPO. Nos. 2000/000 Sr. No.-3 VIMTA

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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 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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ISSUED TO:	Report No.:	VLL/VLS/26-27/13104/003
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	µg/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	µg/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)	µg/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)	µg/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	µg/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	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	6.7	4.1	5.8	5.2	6.8	6.3	5.8	6.1	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	76	93	109	86	132	71	98	114	85	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/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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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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ISSUED TO:	Report No.:	VLL/VLS/26-27/15382/003
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.

ENVIRONMENT LABORATORY Vimta REGD. No- DL 3300/95 VIMTA

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ISSUED TO:	Report No.:	VLL/VLS/26-27/15382/004
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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ISSUED TO:		
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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ISSUED TO:	Report No.:	VLL/VLS/26-27/15382/012
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.

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

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VIMTA LABS
REGD. No- DL 33004/99
Dr. Subba Reddy Mallampati
Manager - Environment
VIMTA

Security: Internal (C3)

Annexure-VII

...ship. 15 per cent scholarship will be reserved by the students belonging to the SC category, 7.5 per cent for the students from the ST category and 3 per cent for physically challenged Group of Students each in respect of the class VIII.

PUBLIC NOTICE

This is to inform the general public that Ministry of Environment and Forests (MOEF) Govt. of India has accorded Environmental Clearance for Aluminium Smelter expansion by 3.5 LTPA to 9.0 LTPA and CPP of 300 MW at Korba of Bharat Aluminium Company Limited (BALCO). A copy of the clearance letter no. J-11011/123/2007 – IA-II(I) dated 16 - 09 -2008 is available with Chhattisgarh Environment Conservation Board and also at website of MOEF http://...

For, Bharat Aluminium Co. Ltd.
Korba, Chhattisgarh.

HITVADA

Government seems ...

भारत...
जिला का...
अमधा...
कार्यालय: 32...
फैक्स...

क्रमांक- सामान्य/36/2007-0...

// निविदा ...

भारतीय खाद्य निगम की त...
सामाग्रियों एवं मुद्रित स्टेशनरी सा...
से सील बंद निविदाएं आमंत्रित की...
इच्छुक फर्म निविदा फार्म,
सामाग्रियों की सूची दिनांक 04...
समय में 25/- (पच्चीस रुपये) ...
कार्यालय ... करें ...

...बीमा नए व्यवसाय में 42 फीसदी और
...र्षक से प्रीमियम में 65 फीसदी की वृद्धि
...ने यह दर्ज की। आईसीआईसीआई ने कहा
...कहा कि 85 लाख पॉलिसी हैं। उन्होंने
...उद्योग में बीमा नियामक एवं विकास
...ता और प्राधिकरण (इरडा) द्वारा सात्वेंसी
...यह भारत सर्जिन और उद्योग के निवेश भी है।

...उपलब्ध कराने के बारे में विचार किए जाने के

सांत्रो को एलपीजी वैरिएंट पेश

अक्टूबर

नई दिल्ली, 1 सितंबर (ए)। देश में पर्यावरण अनुकूल वाहनों को बढ़ावा देने की दिशा में कार बनाने वाली अग्रणी कंपनी हुंदै मोटर ने सांत्रो का एलपीजी वैरिएंट पेश करने की घोषणा की है जिसकी कीमत 3,54,000 रुपए और 3,75 लाख रुपए के बीच रखी गई है।

आम सूचना

...र्यावरण को सूचित किया जाता है कि पर्यावरण एवं वन मंत्रालय, ...र सरकार द्वारा भारत एल्यूमिनियम कम्पनी लिमिटेड घाटकों को ...नियम स्मेल्टर की क्षमता ३.५ लाख टन सालाना को बढ़ाकर ९.० ...लाख टन सालाना और ६०० मेगावॉट कैप्टिव कोयला आधारित विद्युत संयंत्र