BALCO/ENV/A-02(A)/2026/436 Date:16.11.2026

To,

The Regional Officer (IRO),

Ministry of Environment and Forest, Climate Change,

Integrated Regional Office, Aranya Bhawan,

North Block, Sector-19,

Nava Raipur, Atal Nagar (CG) 492002.

Sub: Half yearly compliance status (April 2026 to September 2026) for Chotia - 1 Captive Coal Mine.

Respected Sir,

On behalf of Bharat Aluminium Company Limited (hereinafter referred as "BALCO"), please find enclosed herewith the half yearly compliance report for the period from April-2026 to September-2026 for the Environmental Clearance No. J-11015/96/2004-IA.II(M) dated 4th June 2015 (EC transferred from M/s Prakash industries Limited to BALCO) for Chotia-1 – Captive Coal Mining project.

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

Thanking You,
Yours truly,

v santosh prathik

(Authorized Signatory)

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

BHARAT ALUMINIUM CO. LTD.

P.O Balco Nagar, Korba – 495684, Chhattisgarh | **Website:** www.balcoindia.com | **Email:** balco.secretarial@vedanta.onmicrosoft.com
REGISTERED OFFICE: Aluminium Sadan, Core 6, Scope Complex, 7, Lodhi Road – 110003, New Delhi, India | **Tel:** 011-42262400
CIN: U74899DL1965PLC004518

Compliance - Status on Environmental Clearance
BALCO- CHOTIA-1 COAL MINES, KORBA (C.G.)
April 2026 to September 2026

1. MoEF&CC' s letter No.: J – 11015/96/2004-IA. II (M) dated 10.11.2005.
2. MoEF&CC' s Letter No.: J-11015/96/2004-IA.II (M), dated 4th June 2015 (Transfer of EC from M/s Prakash industries Limited to BALCO).

Condition No.	CONDITIONS GIVEN IN APPROVAL	STATUS OF IMPLEMENTATION
A.	**Specific Conditions:**	
(I)	The environmental clearance is subject to grant of forestry clearance by Ministry of Environment and Forests for diversion of 801.10 ha forestland under the provisions of Forest (Conservation) Act, 1980.	Agreed.
(II)	Topsoil should be stacked with proper slope at earmarked site (s) with adequate measures and should be used for reclamation and rehabilitation of mined out area.	Complied. The topsoil generated during the course of mining has been stacked at the earmarked place. The stacked topsoil is being utilized for biological reclamation in mined out areas. However, mines are not in operation since 1st September 2024. Please refer to **Annexure – I**.
(III)	OB dumps should be stacked at earmarked dump site (s) only and should not be kept active for long period. Proper terracing of OB dump should be carried out so that the overall slope will come down to 28 degrees. Back filling should start from 3rd year onwards. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Progress report should be submitted to the Ministry of Environment & Forests on 6 monthly basis.	Complied. All OB dumps removed during mining operation were simultaneously backfilled in the mined-out area. Slopes are maintained as per the standard. However, mines are not in operation since 1st September 2024. Please refer to **Annexure – I.**
(IV)	Catch Drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil, OB and mineral dumps. The water so collected should be utilized for watering the mine area, roads, greenbelt development etc. The drains should be regularly desilted and maintained properly. Garland Drain (size, gradient and length) and sump capacity should be designed	Check dam with estimated storage capacity of 12000 KL is in place. Garland Drains are constructed around the Topsoil dump, OB Dump and Mineral dump areas. Sump is also constructed and adequate retention period to allow proper settling of silt material has been provided.

	keeping 50% safety margin over and above peak sudden rainfall and maximum discharge in the area adjoining the mine site. Sump should also provide adequate retention period to allow proper setting of silt material.	
(V)	Dimension of the retaining wall at the toe of dumps and OB benches within the mine to check run-off and siltation should be based on the rain fall data.	Due care is being taken while designing the dimension of retaining wall.
(Vl)	During Underground Working regular monitoring of subsidence movement on the surface over working area and impact on water bodies/ vegetation/ structures/ surrounding should be continued till movement ceases completely. In case of observation of any subsidence movement, mitigative measures should be taken to avoid loss of life and material. Cracks should be effective plugged with ballast and clayey soil/ suitable material.	Underground Mining operation in Chotia Coal Block has not been undertaken.
(Vll)	During underground Working project authorities should check the possibility of existence of fault (s) before deciding about the thickness of safe barrier required to be maintained between the working face and the river in consultation with the Director General Mines & Safety (DGMS). De-pillaring should also be carried out after taking prior approval of the DGMS.	Underground Mining operation in Chotia Coal Block has not been undertaken.
(Vlll)	Stage wise seam development plans incorporating subsidence study and its reports starting from 5th year of underground operation till the end of the mine at an interval of 5 years should be submitted to the Ministry within six months.	Underground Mining operation in Chotia Coal Block has not been undertaken.
(IX)	Mine entries/ coal evacuation/ ventilation systems should be above the highest flood level to avoid any anticipated flooding of mine from surface water during rainy season.	Underground Mining operation in Chotia Coal Block has not been undertaken.
(X)	Green belt should be raised by planting the native species around the ML area, Coal Handling Plants, roads, OB dump sites etc. in consultation with the local	Complied with. Plants of only native species in consultation with the Forest department are being planted. Additionally, BALCO has submitted DD to DFO

	DFO/ Agriculture Department. The density of the trees should be around 2500 plants per ha.	Kathgohra of 1.99 Cr. for plantation vide letter No. BALCO/CHO/DFO/OCTOBER/2025/123 dated 29.10.2025 for fencing, construction of gabion, stone guard wall, community shelter cum rescue shelter.
(Xl)	The project authorities should meet the water requirement of nearby village (s) including agricultural need/ well water in case the village wells go dry due to de-watering of the mine from mine discharge after proper settling/treatment.	The water levels in the nearby villages are monitored regularly and no such decrease in water level has been reported. However, drinking water is being supplied to the local villagers as a part of CSR activity.
(Xll)	The project authorities should implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.	Noted.
(Xlll)	Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and constructing new piezometer during the mining operation. The monitoring should be carried out four times in a year-pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the data thus collected may be sent regularly to Ministry of Environment & Forests, Central Ground Water Authority and Regional Director Central Ground Water Board.	Regular monitoring of ground water level and Water Quality is being done at existing wells. Piezometers have been constructed for monitoring the ground water. The data thus collected are being sent regularly to Ministry of Environment & Forests, Central Ground Water Authority and Regional Director, Central Ground Water Board. Water quality monitoring reports from April 2026 to September 2026 are attached herewith as **Annexure-II**.
(XlV)	Permission from the competent authority should be obtained for drawl of water required for mining and domestic use.	Complied.
(XV)	Coal handling plant should be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.	There is no Coal handling Plant at the Mine site. The ROM (Coal) is directly dispatched to EUP. However, mines are not in operation since 1st September 2024. Please refer to **Annexure – I.**
(XVl)	Sewage Treatment Plant should be installed for the colony. ETP should also be provided for workshop & CHP waste water.	STP and septic tank are there in the colony for treating sewage wastewater. ETP has also been constructed to treat the effluents from workshop. However, mines are not in operation since 1st

		September 2024. Please refer to **Annexure – I.**
(XVll)	Consent to operate should be obtained from SPCB for the enhanced production.	Consent to operate has been obtained from Chhattisgarh Environment Conservation Board.
(XVlll)	Blasting operation should be carried out only during daytime. Controlled blasting should be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.	As mines are not in operation since 1st September 2024 no blasting operation has been carried out during reporting period. Please refer to **Annexure – I.**
(XlX)	The project proponent should take all precautionary measures during mining operation for conservation and protection of endangered fauna namely *Melursus urcinus* (bear) etc. spotted in the study area in consultation with the concerned forest officials. Action plan for conservation of endangered fauna should be prepared and submitted to the Ministry and its Regional Office within 3 months.	All precautions are being taken during mining operation for conservation and protection of endangered fauna. Fund for Wildlife Conservation and Management Plan has already been deposited to State Forest Department.
(XX)	A Final Mine Closer Plan along with details of Corpus Fund should be submitted to Ministry of Environment Forests 5 years in advance of final mine closer for approval.	Agreed.
B.	**General Conditions:**	
(l)	No change in mining technology and scope of working should be made without prior approval of Ministry of Environment & Forests.	Agreed.
(ll)	No change in the calendar plan including excavation, quantum of mineral coal and waste should be made.	Agreed.
(lll)	Conservation measures for protection of flora and fauna in the core & buffer zone should be drawn up in consultation with local forest department and experts.	Protection measures for flora & Fauna drawn up in consultation with Local Forest Department & Experts from time to time.
(lV)	Four Ambient Air Quality monitoring stations should be established in the core zone as well as in the buffer zone for RPM, SPM, SO_2, NOx & CO monitoring. Location of the stations should be decided based on the metrological data, topographical features and environmentally and ecologically	Four Ambient Air Quality Monitoring Stations (AAQMS) have been established in consultation with Chhattisgarh Environment Conservation Board. Monitoring of each station is being done regularly.

	sensitive targets in consultation with the State Pollution Control Board.	
(V)	Data of Ambient Air Quality (RPM, SPM, SO_2, NOx & CO) should be regularly submitted to the Ministry including its Regional Office at Bhopal and the State Pollution Control Board / Central Pollution Control Board once in Six months.	Reports of AAQM data are being submitted regularly to all concerned. Refer to **Annexure-III**.
(Vl)	Fugitive dust emissions from all sources should be controlled regularly monitored and data recorded properly. Water spraying arrangement on haul road, wagon loading, dump trucks (loading & unloading) should be provided and properly maintained. Vehicular emission should be kept under control and regularly monitored.	Complied.
(Vll)	Drills should either be operated with dust extractors or should be equipped with water injection system.	Complied.
(Vlll)	Adequate measures should be taken for control of noise level below 85 dBA in the work environment. Workers engaged in blasting and drilling operations of HEMM, etc should be provide with ear plugs/muffs.	Noise level is under control. Workers engaged in Drilling, Dozer, Pay Loader Operation are being provided with earplugs and muffs. However, mines are not in operation since 1st September 2024. Please refer to **Annexure – I.**
(IX)	Industrial wastewater (workshop and waste water from mine) 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 from time to time. Oil and grease trap should be installed before discharge of workshop effluent.	5 Check dams and Settling Pond of adequate capacity (about 12000 KL) are already in place. Oil & Grease Trap is already in working condition.
(X)	Acid mine water, if any, has to be treated and disposed of after conforming to the standard prescribed by the competent authority.	Mine water is non-acidic.
(Xl)	Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.	Noted

	Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to coal dust and take corrective measures, if needed.	
(Xll)	A Separate Environmental Management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.	Noted.
(Xlll)	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office located at Bhopal.	Budget & expenditure for EMP are maintained separately and not diverted for other purposes.
(XlV)	The Regional Office of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/ information/ monitoring reports.	Agreed.
(XV)	A copy of clearance letter will be marked to concerned Panchyat/ local NGO, if any, from whom and suggestion/ representation has been received while processing the proposal.	Agreed & complied.
(XVl)	State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and Collector's office/ Tahsildar's office for 30 days.	Noted.
(XVll)	The project authorities should advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and may also be seen at web site of the Ministry of Environment & Forests at **htt://envfor.nic.in**	Complied.

	The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.	Agreed.
	Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Agreed.
	The environmental clearance accorded shall be valid for a period of 5 years for starting construction/ operation of the power plant. In case, the project authorities fail to do so within this stipulated period, this environmental clearance shall stand lapsed automatically.	Agreed.
	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 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Agreed.

Annexure-I

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India Post
EC158396795IN IVR:6967158396795
SP PONDIUPRODA SO (495448)
Counter No:1,06/09/2024,11:26
To:REGIONAL OFF,BORD NEAR TAHSIL
PIN:495677, Korba HO

BALCO/Chotia/Mine-Discontinuance/2024/942

1st Sept 2024

To
Regional Office
Chhattisgarh Environment Conservation Board
Near Tehsil Office
Rampur, Korba
H.I.G. 21 and 22
Distt.-Korba (C.G.)
Pin 495677

Sub: Intimation regarding discontinuance of mines operation of Chotia Coal Mine allocated to Bharat Aluminium Company Limited on account of exhaustion of viable coal reserves.

Respected Sir,

This is with regards to the Chotia Coal Block allocated to Bharat Aluminium Company Limited (Balco) which we request to surrender to the Nominated Authority, Ministry of Coal, Government of India.

Chotia Coal Mine is located in the state of Chhattisgarh, and was allocated to M/S Bharat Aluminium Company Limited, hereinafter referred to as 'BALCO', on the 28th day of February, 2015.

The basic details of the block mentioned above have been outlined below for reference:

FEATURES	DETAILS
LOCATION	
Coal Field	Hasdeo Arand Coalfield
District & State	Korba, Chhattisgarh
AREA	
Geological Block Area	Chotia I – 1101 Ha, Chotia II – 411 Ha
Project Area	Chotia I – 794.4 Ha, Chotia II – 350.6 Ha
Mining Lease Area	1179.826 Ha

The Chotia Coal Block was operationalised by Balco post allocation and peak rated capacity was achieved. Balco has operated and mined the open cast portion of the mine since its allocation and have extracted approximately **4.38 Million Tonnes** of reserves cumulatively since allocation adhering to the best industry practices and standards. While operating the coal mine, BALCO has adhered to all the terms and conditions of the allocation as per the Coal Mine Development and Operations Agreement signed between the President of India and Balco.

In 2019, Balco had got the revised mining plan approved for open cast mining and basis that Open Cast mining activities were ongoing. The mining of the block was ongoing as per mine plan approved in 2019 and open cast reserves are exhausted in the ongoing pit of Chotia II Sub Block. Now, prior to commencing the mining in other sectors of Chotia I and II in the areas not yet broken and to design the UG mine, a study is commissioned on the remaining coal resources to devise the strategy for development and operationalisation of the unbroken areas. However basis studies undertaken, it is found that remaining coal resources are not viable to be mined.

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balco
BHARAT ALUMINIUM COMPANY LIMITED
P.O. - BALCO Nagar, Korba, CG
India - 495684

Hence, BALCO has concluded that surrendering this coal block allocation and handing over the site back to the government is the most prudent course of action for us on account of exhaustion of the reserves. For the same, BALCO has already approached Nominated Authority.

Now, hereby through this letter we are intimating to your good office that Chotia Coal Mines operations are being discontinued as per prescribed format under Regulation 5 of Coal Mines Regulation 2017 and request you to kindly consider this as formal notice for mine closure and take necessary actions as per applicable regulations.

We will keep you informed of the further progress on the termination of our CMDPA with Nominated Authority.

In case any further clarifications are sought from our end, please let us know at the address mentioned below.

AMIT KUMAR DUBEY

Digitally signed by AMIT KUMAR DUBEY
DN: c=IN, o=PERSONAL, title=4710, pseudonym=75b2cbb5fc1f=0d788780d06fd2462f9, 2.5.4.20=4178e88e82e4bc43614aac7b75f61dceb2e404b474862f6e1da83b3a067db4f9, postalCode=834009, st=Jharkhand, serialNumber=ae63fd7777c79b4ec100e8f6d698fa84ab37b28adb71e499d628b052172ade6c, cn=AMIT KUMAR DUBEY
Date: 2024.09.02 11:58:09 +05'30'

For, Bharat Aluminium Company Limited

Authorised Signatory

Classification: Confidential
Sensitivity: Internal [C3]

Form 1-D
Notice of discontinuance
(See Regulation 5)

From
Saurabh Pandey
Colliery Manager, Chotia II OC Coal Mine
M/s Bharat Aluminium Company Limited,
Village Salaigot, PO-Madai,
PS-Korbi, District - Korba
Chhattisgarh, PIN-495 445.
Mob: +91-8718868323, Email- saurabh.pandey2@vedanta.co.in

To,
1. The Director General of Mines Safety, Dhanbad (Jharkhand)
2. The Director of Mines Safety, Bilaspur Region, Chhattisgarh
3. The District Magistrate, Korba, Chhattisgarh

Sir,

I have to furnish the following particulars in respect of discontinuance of

1. Name of Mine: Chotia II OC Coal Mine

2. Name of owner/company/firm/association: M/s Bharat Aluminium Company Limited

3. Location of the mine: Lease Number(s)- 2171001801

Village : Salaigot
P.O Madai
Police Station : Korbi
Subdivision : Pondi Uproda
Railway Station : Korba
District : Korba
State : Chhattisgarh
PIN 495445

4. Labour Identification Number (LIN) : 1807100144

5. Mine Code: 10998

Classification: Confidential

6. Details of Owner, Agent, Manager					
Sl. No.	Particulars	Owners	Nominated Owner	Agent	Manager
i	Name	Shri Rajesh Kumar	Shri Rajesh Kumar	Shri Amit Kumar Dubey	Shri Saurabh Pandey
ii	Father's name	Chandra Kumar	Chandra Kumar	Late. S.B. Dubey	Shri Shivnath Pandey
iii	Aadhaar No	512154706063	512154706063	619791864710	542500406289
iv	Address Village/area/road- Post Office- Police Station- Sub division (Taluq)/Tehsil- Railway Station(nearest)- District- State- PIN-	Area-BALCO Nagar P.O-BALCO Nagar Police Station- BALCO Nagar Sub Division- Korba Railway Station- Korba District- Korba, State- Chhattisgarh PIN- 495684	Area-BALCO Nagar P.O-BALCO Nagar Police Station- BALCO Nagar Sub Division- Korba Railway Station- Korba District- Korba, State- Chhattisgarh PIN- 495684	Village - Chotia, P.O-Madai, Police Station-Bango, Sub Division-Pondi Uproda, Railway Station-Korba District- Korba, State- Chhattisgarh PIN- 495448	Village - Chotia, P.O-Madai, Police Station- Bango, Sub Division- Pondi Uproda, Railway Station- Korba District- Korba, State- Chhattisgarh PIN- 495448
v	Mobile Number	+91-8092084690	+91-8092084690	+91-8917656486	+91-8718868323
vi	Telephone number(Landline)-				
vii	Fax Number				
viii	Email ID	rajesh.k@vedanta.co.in	rajesh.k@vedanta.cc.in	amitkumar.dubey @vedanta.co.in	saurabh.pandey2@ vedanta.co.in

7. Date on which it is intended to discontinue the mine: **01-09-2024**

8. Actual date of discontinuance: **01-09-2024**

9. Number of persons likely to be affected:

10. Reasons for discontinuance: **on account of exhaustion of viable coal reserves**

11. Updated plans enclosed as required under Regulation 66 of CMR, 2017 - **Yes**

11.1 If Yes, Specify the Plan(s) reference number(s) - **BALCO/CH II/19/52 Dated 31st July'2024.**

Randey 01/09/2024

Yours faithfully,
Saurabh Randey
Colliery manger
Chotia II OC Cola Mines
M/s Bharat Aluminuim Company Limited
Date: 1st Sept 2024

Classification: Confidential

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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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 (CHOTIA MINES)

Sample Registration Date	:	2026-04-12	Sampling Date	:	2026-04-04
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	Chotia-1 Guest house water	Chotia-1 mines water (B/W)	Chotia-2 Near Govt. Solar Panel (B/W)	Chotia-2 mines water (B/W)	Chotia-2 Bhujang nagar Village
1	pH value	-	6.5-8.5 (NR)	7.28	6.98	7.43	7.36	7.15
2	Color	Hazen	5(15)	Colorless	Colorless	Colorless	Colorless	Colorless
3	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	1(5)	<1.0	1.7	1.8	1.2	1.1
6	Total dissolved solids at 180°C	mg/l	500(2000)	106	148	135	121	110
7	Total Hardness as $CaCO_3$	mg/l	200(600)	49	72	65	62	55
8	Total Alkalinity as $CaCO_3$	mg/l	200(600)	30	45	40	42	40
9	Calcium as Ca	mg/l	75(200)	12.6	18.2	16.8	14.2	13.5
10	Magnesium as Mg	mg/l	30(100)	4.3	6.5	5.7	6.4	5.2
11	Free Residual chlorine	mg/l	0.2(1.0)	<0.2	<0.2	<0.2	<0.2	<0.2
12	Boron as B	mg/l	0.5(1.0)	<0.005	0.01	0.017	0.023	0.015
13	Chlorides as Cl	mg/l	250(1000)	32.2	44.8	42.5	34.3	29.3
14	Sulphates as SO_4	mg/l	200(400)	6.8	8.5	7.6	5.3	4.8
15	Fluorides as F	mg/l	1.0(1.5)	0.121	0.143	0.117	0.153	0.136
16	Nitrates as NO_3	mg/l	45(NR)	3.10	2.90	1.60	1.40	2.10
17	Phenolic Compounds as C_6H_5OH	mg/l	0.001(0.002)	<0.001	<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	<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 Sr. No.

Dr. Subba Reddy Mallampati
Manager - Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051, Telangana, India
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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 (CHOTIA MINES)**

Sample Registration Date	:	2026-04-12	Sampling Date	:	2026-04-04
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	Chotia-1 Guest house water	Chotia-1 mines water (B/W)	Chotia-2 Near Govt. Solar Panel (B/W)	Chotia-2 mines water (B/W)	Chotia-2 Bhujang nagar Village
19	Anionic detergents as MBAS	mg/l	0.2(1.0)	<0.02	<0.02	<0.02	<0.02	<0.02
20	Mineral oil	mg/l	0.5(NR)	Absent	Absent	Absent	Absent	Absent
21	Cadmium as Cd	mg/l	0.003(NR)	<0.005	<0.005	<0.005	<0.005	<0.005
22	Total Arsenic as As	mg/l	0.01(0.05)	<0.005	<0.005	<0.005	<0.005	<0.005
23	Copper as Cu	mg/l	0.05(1.5)	<0.005	<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	<0.005
25	Manganese as Mn	mg/l	0.1(0.3)	<0.005	<0.005	<0.005	<0.005	<0.005
26	Molybdenum as Mo	mg/l	0.07(NR)	<0.001	<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	<0.005
28	Iron as Fe	mg/l	0.3(NR)	0.018	0.026	0.034	0.028	0.011
29	Total Chromium as Cr	mg/l	0.05(NR)	<0.005	<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	<0.005
31	Zinc as Zn	mg/l	5.0(15)	0.009	0.021	0.017	0.025	0.016
32	Aluminum as Al	mg/l	0.03(0.2)	0.01	0.013	0.021	0.016	0.021
33	Mercury as Hg	mg/l	0.001(NR)	<0.001	<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	<0.05
35	Chloramines as Cl2	mg/l	4.0(NR)	<0.05	<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	<0.05
37	Barium as Ba	mg/l	0.7(NR)	0.015	0.019	0.014	0.045	0.013
38	Silver as Ag	mg/l	0.1(NR)	<0.01	<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 LABORATORIES LIMITED VIMTA LABS REGD. No- DL 330 SR. NO.-5

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Manager - Environment

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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 (CHOTIA MINES)**

Sample Registration Date	:	2026-04-12	Sampling Date	:	2026-04-04
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	Chotia-1 Guest house water	Chotia-1 mines water (B/W)	Chotia-2 Near Govt. Solar Panel (B/W)	Chotia-2 mines water (B/W)	Chotia-2 Bhujang nagar Village
39	Polychlorinated biphenyls	mg/l	0.0005(NR)	Absent	Absent	Absent	Absent	Absent
40	Polynuclear aromatic hydrocarbon as PAH	mg/l	0.0001(NR)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
41	Bromoform	mg/l	0.1(NR)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
42	Dibromochloromethane	mg/l	0.1(NR)	<0.01	<0.01	<0.01	<0.01	<0.01
43	Bromodichloromethane	mg/l	0.06(NR)	<0.01	<0.01	<0.01	<0.01	<0.01
44	Chloroform	mg/l	0.2(NR)	<0.001	<0.001	<0.001	<0.001	<0.001
(A)	**Pesticides**							
45	Alachlor	µg/l	20	<0.01	<0.01	<0.01	<0.01	<0.01
46	Atrazine	µg/l	2	<0.01	<0.01	<0.01	<0.01	<0.01
47	Aldrin	µg/l	0.03	<0.01	<0.01	<0.01	<0.01	<0.01
48	Alpha HCH	µg/l	0.01	<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	<0.01
50	Butachlor	µg/l	125	<0.01	<0.01	<0.01	<0.01	<0.01
51	Chlorpyriphos	µg/l	30	<0.01	<0.01	<0.01	<0.01	<0.01
52	Delta HCH	µg/l	0.04	<0.01	<0.01	<0.01	<0.01	<0.01
53	2,4-Dichlorophenoxyacetic acid	µg/l	30	<0.01	<0.01	<0.01	<0.01	<0.01
54	DDT	µg/l	1	<0.01	<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	<0.01
56	Ethion	µg/l	3	<0.01	<0.01	<0.01	<0.01	<0.01
57	Gamma HCH	µg/l	2	<0.01	<0.01	<0.01	<0.01	<0.01
58	Isoproturon	µg/l	9	<0.01	<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 330

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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 (CHOTIA MINES)**

Sample Registration Date	:	2026-04-12	Sampling Date	:	2026-04-04
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	Chotia-1 Guest house water	Chotia-1 mines water (B/W)	Chotia-2 Near Govt. Solar Panel (B/W)	Chotia-2 mines water (B/W)	Chotia-2 Bhujang nagar Village
59	Malathion	µg/l	190	BDL	BDL	BDL	BDL	BDL
60	Methyl parathion	µg/l	0.3	BDL	BDL	BDL	BDL	BDL
61	Monocrotophos	µg/l	1	BDL	BDL	BDL	BDL	BDL
62	Phorate	µg/l	2	BDL	BDL	BDL	BDL	BDL
63	E.coli	Per 100 ml	Absent	Absent	Absent	Absent	Absent	Absent
64	Total Coliforms	MPN/100ml	Absent	Absent	Absent	Absent	Absent	Absent
(B)	**Radioactive**							
65	Alpha emitters	Bq/l	0.1(NR)	BDL	BDL	BDL	BDL	BDL
66	Beta emitters	Bq/l	1.0(NR)	BDL	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 REPORT-

Name and Designation of Authorized Signatory

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

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ISSUED TO:

M/s. Bharat Aluminum Company Limited,
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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 (CHOTIA MINES)

Sample Registration Date	:	2026-05-11	Sampling Date	:	2026-05-05
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	Chotia-1 Guest house water	Chotia-1 mines water (B/W)	Chotia-2 Near Govt. Solar Panel (B/W)	Chotia-2 mines water (B/W)	Chotia-2 Bhujang nagar Village
1	pH value	-	6.5-8.5 (NR)	7.28	6.91	7.32	7.24	7.18
2	Color	Hazen	5(15)	Colorless	Colorless	Colorless	Colorless	Colorless
3	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	1(5)	1.0	1.4	1.6	1.1	1.0
6	Total dissolved solids at 180°C	mg/l	500(2000)	100	182	145	110	120
7	Total Hardness as $CaCO_3$	mg/l	200(600)	45	88	70	56	62
8	Total Alkalinity as $CaCO_3$	mg/l	200(600)	30	60	45	40	45
9	Calcium as Ca	mg/l	75(200)	11.5	21.5	17.4	13.2	14.6
10	Magnesium as Mg	mg/l	30(100)	3.9	8.4	6.3	5.6	6.1
11	Free Residual chlorine	mg/l	0.2(1.0)	<0.2	<0.2	<0.2	<0.2	<0.2
12	Boron as B	mg/l	0.5(1.0)	<0.005	0.011	0.018	0.014	0.013
13	Chlorides as Cl	mg/l	250(1000)	29.7	53.3	45.2	29.6	30.7
14	Sulphates as SO_4	mg/l	200(400)	5.30	7.30	6.50	4.90	5.10
15	Fluorides as F	mg/l	1.0(1.5)	0.121	0.131	0.128	0.146	0.119
16	Nitrates as NO_3	mg/l	45(NR)	3.10	3.70	1.80	1.10	2.40
17	Phenolic Compounds as C_6H_5OH	mg/l	0.001(0.002)	<0.001	<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	<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 (CHOTIA MINES)**

Sample Registration Date	:	2026-05-11	Sampling Date	:	2026-05-05
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	Chotia-1 Guest house water	Chotia-1 mines water (B/W)	Chotia-2 Near Govt. Solar Panel (B/W)	Chotia-2 mines water (B/W)	Chotia-2 Bhujang nagar Village
19	Anionic detergents as MBAS	mg/l	0.2(1.0)	<0.02	<0.02	<0.02	<0.02	<0.02
20	Mineral oil	mg/l	0.5(NR)	Absent	Absent	Absent	Absent	Absent
21	Cadmium as Cd	mg/l	0.003(NR)	<0.005	<0.005	<0.005	<0.005	<0.005
22	Total Arsenic as As	mg/l	0.01(0.05)	<0.005	<0.005	<0.005	<0.005	<0.005
23	Copper as Cu	mg/l	0.05(1.5)	<0.005	<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	<0.005
25	Manganese as Mn	mg/l	0.1(0.3)	<0.005	<0.005	<0.005	<0.005	<0.005
26	Molybdenum as Mo	mg/l	0.07(NR)	<0.001	<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	<0.005
28	Iron as Fe	mg/l	0.3(NR)	0.013	0.023	0.026	0.034	0.010
29	Total Chromium as Cr	mg/l	0.05(NR)	<0.005	<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	<0.005
31	Zinc as Zn	mg/l	5.0(15)	0.010	0.015	0.021	0.013	0.014
32	Aluminum as Al	mg/l	0.03(0.2)	<0.01	0.012	0.025	0.019	0.017
33	Mercury as Hg	mg/l	0.001(NR)	<0.001	<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	<0.05
35	Chloramines as Cl2	mg/l	4.0(NR)	<0.05	<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	<0.05
37	Barium as Ba	mg/l	0.7(NR)	0.014	0.017	0.011	0.032	0.015
38	Silver as Ag	mg/l	0.1(NR)	<0.005	<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
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 (CHOTIA MINES)**

Sample Registration Date	:	2026-05-11	Sampling Date	:	2026-05-05
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	Chotia-1 Guest house water	Chotia-1 mines water (B/W)	Chotia-2 Near Govt. Solar Panel (B/W)	Chotia-2 mines water (B/W)	Chotia-2 Bhujang nagar Village
39	Polychlorinated biphenyls	mg/l	0.0005(NR)	Absent	Absent	Absent	Absent	Absent
40	Polynuclear aromatic hydrocarbon as PAH	mg/l	0.0001(NR)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
41	Bromoform	mg/l	0.1(NR)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
42	Dibromochloromethane	mg/l	0.1(NR)	<0.01	<0.01	<0.01	<0.01	<0.01
43	Bromodichloromethane	mg/l	0.06(NR)	<0.01	<0.01	<0.01	<0.01	<0.01
44	Chloroform	mg/l	0.2(NR)	<0.001	<0.001	<0.001	<0.001	<0.001
(A)	**Pesticides**							
45	Alachlor	µg/l	20	<0.01	<0.01	<0.01	<0.01	<0.01
46	Atrazine	µg/l	2	<0.01	<0.01	<0.01	<0.01	<0.01
47	Aldrin	µg/l	0.03	<0.01	<0.01	<0.01	<0.01	<0.01
48	Alpha HCH	µg/l	0.01	<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	<0.01
50	Butachlor	µg/l	125	<0.01	<0.01	<0.01	<0.01	<0.01
51	Chlorpyriphos	µg/l	30	<0.01	<0.01	<0.01	<0.01	<0.01
52	Delta HCH	µg/l	0.04	<0.01	<0.01	<0.01	<0.01	<0.01
53	2,4-Dichlorophenoxyacetic acid	µg/l	30	<0.01	<0.01	<0.01	<0.01	<0.01
54	DDT	µg/l	1	<0.01	<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	<0.01
56	Ethion	µg/l	3	<0.01	<0.01	<0.01	<0.01	<0.01
57	Gamma HCH	µg/l	2	<0.01	<0.01	<0.01	<0.01	<0.01
58	Isoproturon	µg/l	9	<0.01	<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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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 (CHOTIA MINES)**

Sample Registration Date	:	2026-05-11	Sampling Date	:	2026-05-05
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	Chotia-1 Guest house water	Chotia-1 mines water (B/W)	Chotia-2 Near Govt. Solar Panel (B/W)	Chotia-2 mines water (B/W)	Chotia-2 Bhujang nagar Village
59	Malathion	µg/l	190	BDL	BDL	BDL	BDL	BDL
60	Methyl parathion	µg/l	0.3	BDL	BDL	BDL	BDL	BDL
61	Monocrotophos	µg/l	1	BDL	BDL	BDL	BDL	BDL
62	Phorate	µg/l	2	BDL	BDL	BDL	BDL	BDL
63	E.coli	Per 100 ml	Absent	Absent	Absent	Absent	Absent	Absent
64	Total Coliforms	MPN/100ml	Absent	Absent	Absent	Absent	Absent	Absent
(B)	**Radioactive**							
65	Alpha emitters	Bq/l	0.1(NR)	BDL	BDL	BDL	BDL	BDL
66	Beta emitters	Bq/l	1.0(NR)	BDL	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 REPORT-

Name and Designation of Authorized Signatory

ENVIRONMENT LABORATORY Vimta VIMTA LABS VIMTA

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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 (CHOTIA MINES)

Sample Registration Date	:	2026-06-10	Sampling Date	:	2026-06-04
Analysis Starting Date	:	2026-06-10	Analysis Completion Date	:	2026-06-25
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	Chotia-1 Guest house water	Chotia-1 mines water (B/W)	Chotia-2 Near Govt. Solar Panel (B/W)	Chotia-2 mines water (B/W)	Chotia-2 Bhujang nagar Village
1	pH value	-	6.5-8.5 (NR)	7.16	6.98	7.23	7.19	7.26
2	Color	Hazen	5(15)	Colorless	Colorless	Colorless	Colorless	Colorless
3	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	1(5)	<0.1	1.7	1.4	1.2	1.1
6	Total dissolved solids at 180°C	mg/l	500(2000)	93	163	121	90	104
7	Total Hardness as $CaCO_3$	mg/l	200(600)	43	80	60	50	54
8	Total Alkalinity as $CaCO_3$	mg/l	200(600)	25	55	40	35	40
9	Calcium as Ca	mg/l	75(200)	10.5	19.4	14.5	12.6	13.0
10	Magnesium as Mg	mg/l	30(100)	4.1	7.6	5.2	4.3	5.1
11	Free Residual chlorine	mg/l	0.2(1.0)	<0.2	<0.2	<0.2	<0.2	<0.2
12	Boron as B	mg/l	0.5(1.0)	<0.005	0.009	0.015	0.024	0.017
13	Chlorides as Cl	mg/l	250(1000)	28.6	48.8	37.4	23.3	25.3
14	Sulphates as SO_4	mg/l	200(400)	6.70	5.60	4.30	3.60	4.20
15	Fluorides as F	mg/l	1.0(1.5)	0.098	0.110	0.210	0.174	0.153
16	Nitrates as NO_3	mg/l	45(NR)	2.90	2.10	1.60	1.50	2.70
17	Phenolic Compounds as C_6H_5OH	mg/l	0.001(0.002)	<0.001	<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	<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- TL 3300/99 Sr. No.-6 ENVIRONMENTAL LABORATORY VIMTA

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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 (CHOTIA MINES)**

Sample Registration Date	:	2026-06-10	Sampling Date	:	2026-06-04
Analysis Starting Date	:	2026-06-10	Analysis Completion Date	:	2026-06-25
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	Chotia-1 Guest house water	Chotia-1 mines water (B/W)	Chotia-2 Near Govt. Solar Panel (B/W)	Chotia-2 mines water (B/W)	Chotia-2 Bhujang nagar Village
19	Anionic detergents as MBAS	mg/l	0.2(1.0)	<0.02	<0.02	<0.02	<0.02	<0.02
20	Mineral oil	mg/l	0.5(NR)	Absent	Absent	Absent	Absent	Absent
21	Cadmium as Cd	mg/l	0.003(NR)	<0.005	<0.005	<0.005	<0.005	<0.005
22	Total Arsenic as As	mg/l	0.01(0.05)	<0.005	<0.005	<0.005	<0.005	<0.005
23	Copper as Cu	mg/l	0.05(1.5)	<0.005	<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	<0.005
25	Manganese as Mn	mg/l	0.1(0.3)	<0.005	<0.005	<0.005	<0.005	<0.005
26	Molybdenum as Mo	mg/l	0.07(NR)	<0.001	<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	<0.005
28	Iron as Fe	mg/l	0.3(NR)	0.016	0.065	0.054	0.028	0.023
29	Total Chromium as Cr	mg/l	0.05(NR)	<0.005	<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	<0.005
31	Zinc as Zn	mg/l	5.0(15)	0.015	0.018	0.016	0.010	0.017
32	Aluminum as Al	mg/l	0.03(0.2)	<0.005	0.021	0.019	0.022	0.024
33	Mercury as Hg	mg/l	0.001(NR)	<0.001	<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	<0.05
35	Chloramines as Cl2	mg/l	4.0(NR)	<0.05	<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	<0.05
37	Barium as Ba	mg/l	0.7(NR)	0.018	0.021	0.028	0.016	0.023
38	Silver as Ag	mg/l	0.1(NR)	<0.005	<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 33004/99

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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 (CHOTIA MINES)**

Sample Registration Date	:	2026-06-10	Sampling Date	:	2026-06-04
Analysis Starting Date	:	2026-06-10	Analysis Completion Date	:	2026-06-25
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	Chotia-1 Guest house water	Chotia-1 mines water (B/W)	Chotia-2 Near Govt. Solar Panel (B/W)	Chotia-2 mines water (B/W)	Chotia-2 Bhujang nagar Village
39	Polychlorinated biphenyls	mg/l	0.0005(NR)	Absent	Absent	Absent	Absent	Absent
40	Polynuclear aromatic hydrocarbon as PAH	mg/l	0.0001(NR)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
41	Bromoform	mg/l	0.1(NR)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
42	Dibromochloromethane	mg/l	0.1(NR)	<0.01	<0.01	<0.01	<0.01	<0.01
43	Bromodichloromethane	mg/l	0.06(NR)	<0.01	<0.01	<0.01	<0.01	<0.01
44	Chloroform	mg/l	0.2(NR)	<0.001	<0.001	<0.001	<0.001	<0.001
(A)	**Pesticides**							
45	Alachlor	µg/l	20	<0.01	<0.01	<0.01	<0.01	<0.01
46	Atrazine	µg/l	2	<0.01	<0.01	<0.01	<0.01	<0.01
47	Aldrin	µg/l	0.03	<0.01	<0.01	<0.01	<0.01	<0.01
48	Alpha HCH	µg/l	0.01	<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	<0.01
50	Butachlor	µg/l	125	<0.01	<0.01	<0.01	<0.01	<0.01
51	Chlorpyriphos	µg/l	30	<0.01	<0.01	<0.01	<0.01	<0.01
52	Delta HCH	µg/l	0.04	<0.01	<0.01	<0.01	<0.01	<0.01
53	2,4-Dichlorophenoxyacetic acid	µg/l	30	<0.01	<0.01	<0.01	<0.01	<0.01
54	DDT	µg/l	1	<0.01	<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	<0.01
56	Ethion	µg/l	3	<0.01	<0.01	<0.01	<0.01	<0.01
57	Gamma HCH	µg/l	2	<0.01	<0.01	<0.01	<0.01	<0.01
58	Isoproturon	µg/l	9	<0.01	<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 TESTING LABORATORY Vimta REGD. No. Sr. No.-5

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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 (CHOTIA MINES)**

Sample Registration Date	:	2026-06-10	Sampling Date	:	2026-06-04
Analysis Starting Date	:	2026-06-10	Analysis Completion Date	:	2026-06-25
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	Chotia-1 Guest house water	Chotia-1 mines water (B/W)	Chotia-2 Near Govt. Solar Panel (B/W)	Chotia-2 mines water (B/W)	Chotia-2 Bhujang nagar Village
59	Malathion	µg/l	190	BDL	BDL	BDL	BDL	BDL
60	Methyl parathion	µg/l	0.3	BDL	BDL	BDL	BDL	BDL
61	Monocrotophos	µg/l	1	BDL	BDL	BDL	BDL	BDL
62	Phorate	µg/l	2	BDL	BDL	BDL	BDL	BDL
63	E.coli	Per 100 ml	Absent	Absent	Absent	Absent	Absent	Absent
64	Total Coliforms	MPN/100ml	Absent	Absent	Absent	Absent	Absent	Absent
(B)	**Radioactive**							
65	Alpha emitters	Bq/l	0.1(NR)	BDL	BDL	BDL	BDL	BDL
66	Beta emitters	Bq/l	1.0(NR)	BDL	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 REPORT-

Name and Designation of Authorized Signatory

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

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ISSUED TO:

M/s. Bharat Aluminum Company Limited,	**Report Number**	:	**VLL/VLS/26-27/10232/001**
BALCO	**Issued Date**	:	**2026-08-05**
KORBA	**P.O. No.**	:	**3402001553**
Chhattisgarh	**P.O. Date**	:	**2025-10-01**

SAMPLE PARTICULARS : GROUND WATER SAMPLES (CHOTIA MINES)

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	Chotia-1 Guest house water	Chotia-1 mines water (B/W)	Chotia-2 Near Govt. Solar Panel (B/W)	Chotia-2 mines water (B/W)	Chotia-2 Bhujang nagar Village
1	pH value	-	6.5-8.5 (NR)	6.98	7.12	7.34	7.23	7.31
2	Color	Hazen	5(15)	Colorless	Colorless	Colorless	Colorless	Colorless
3	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	1(5)	<0.1	1.5	1.2	1.1	<0.1
6	Total dissolved solids at 180°C	mg/l	500(2000)	90	150	115	89	102
7	Total Hardness as $CaCO_3$	mg/l	200(600)	40	73	53	42	48
8	Total Alkalinity as $CaCO_3$	mg/l	200(600)	30	50	45	35	40
9	Calcium as Ca	mg/l	75(200)	9.8	18.5	13.2	11.5	12.4
10	Magnesium as Mg	mg/l	30(100)	3.6	6.4	4.8	3.2	4.1
11	Free Residual chlorine	mg/l	0.2(1.0)	<0.2	<0.2	<0.2	<0.2	<0.2
12	Boron as B	mg/l	0.5(1.0)	<0.005	0.01	0.017	0.021	0.013
13	Chlorides as Cl	mg/l	250(1000)	23.8	42.5	27.8	19.5	23.2
14	Sulphates as SO_4	mg/l	200(400)	5.60	7.80	4.70	3.80	4.10
15	Fluorides as F	mg/l	1.0(1.5)	0.106	0.125	0.178	0.164	0.138
16	Nitrates as NO_3	mg/l	45(NR)	1.90	2.70	1.20	2.80	2.60
17	Phenolic Compounds as C_6H_5OH	mg/l	0.001(0.002)	<0.001	<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	<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 Sr. No.-5 VIMTA

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ISSUED TO:

M/s. Bharat Aluminum Company Limited,
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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 (CHOTIA MINES)**

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	Chotia-1 Guest house water	Chotia-1 mines water (B/W)	Chotia-2 Near Govt. Solar Panel (B/W)	Chotia-2 mines water (B/W)	Chotia-2 Bhujang nagar Village
19	Anionic detergents as MBAS	mg/l	0.2(1.0)	<0.02	<0.02	<0.02	<0.02	<0.02
20	Mineral oil	mg/l	0.5(NR)	Absent	Absent	Absent	Absent	Absent
21	Cadmium as Cd	mg/l	0.003(NR)	<0.005	<0.005	<0.005	<0.005	<0.005
22	Total Arsenic as As	mg/l	0.01(0.05)	<0.005	<0.005	<0.005	<0.005	<0.005
23	Copper as Cu	mg/l	0.05(1.5)	<0.005	<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	<0.005
25	Manganese as Mn	mg/l	0.1(0.3)	<0.005	<0.005	<0.005	<0.005	<0.005
26	Molybdenum as Mo	mg/l	0.07(NR)	<0.001	<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	<0.005
28	Iron as Fe	mg/l	0.3(NR)	0.019	0.056	0.048	0.036	0.021
29	Total Chromium as Cr	mg/l	0.05(NR)	<0.005	<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	<0.005
31	Zinc as Zn	mg/l	5.0(15)	<0.005	0.018	0.016	0.01	0.017
32	Aluminum as Al	mg/l	0.03(0.2)	<0.005	0.017	0.012	0.028	0.014
33	Mercury as Hg	mg/l	0.001(NR)	<0.001	<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	<0.05
35	Chloramines as Cl2	mg/l	4.0(NR)	<0.05	<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	<0.05
37	Barium as Ba	mg/l	0.7(NR)	0.015	0.024	0.014	0.018	0.021
38	Silver as Ag	mg/l	0.1(NR)	<0.005	<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 REG. 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 (CHOTIA MINES)**

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	Chotia-1 Guest house water	Chotia-1 mines water (B/W)	Chotia-2 Near Govt. Solar Panel (B/W)	Chotia-2 mines water (B/W)	Chotia-2 Bhujang nagar Village
39	Polychlorinated biphenyls	mg/l	0.0005(NR)	Absent	Absent	Absent	Absent	Absent
40	Polynuclear aromatic hydrocarbon as PAH	mg/l	0.0001(NR)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
41	Bromoform	mg/l	0.1(NR)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
42	Dibromochloromethane	mg/l	0.1(NR)	<0.01	<0.01	<0.01	<0.01	<0.01
43	Bromodichloromethane	mg/l	0.06(NR)	<0.01	<0.01	<0.01	<0.01	<0.01
44	Chloroform	mg/l	0.2(NR)	<0.001	<0.001	<0.001	<0.001	<0.001
(A)	**Pesticides**							
45	Alachlor	µg/l	20	<0.01	<0.01	<0.01	<0.01	<0.01
46	Atrazine	µg/l	2	<0.01	<0.01	<0.01	<0.01	<0.01
47	Aldrin	µg/l	0.03	<0.01	<0.01	<0.01	<0.01	<0.01
48	Alpha HCH	µg/l	0.01	<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	<0.01
50	Butachlor	µg/l	125	<0.01	<0.01	<0.01	<0.01	<0.01
51	Chlorpyriphos	µg/l	30	<0.01	<0.01	<0.01	<0.01	<0.01
52	Delta HCH	µg/l	0.04	<0.01	<0.01	<0.01	<0.01	<0.01
53	2,4-Dichlorophenoxyacetic acid	µg/l	30	<0.01	<0.01	<0.01	<0.01	<0.01
54	DDT	µg/l	1	<0.01	<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	<0.01
56	Ethion	µg/l	3	<0.01	<0.01	<0.01	<0.01	<0.01
57	Gamma HCH	µg/l	2	<0.01	<0.01	<0.01	<0.01	<0.01
58	Isoproturon	µg/l	9	<0.01	<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 LABS
REGD. No- DL 33004/99
Sr. No.-5
VIMTA

Name and Designation of Authorized Signatory
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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 (CHOTIA MINES)**

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	Chotia-1 Guest house water	Chotia-1 mines water (B/W)	Chotia-2 Near Govt. Solar Panel (B/W)	Chotia-2 mines water (B/W)	Chotia-2 Bhujang nagar Village
59	Malathion	µg/l	190	BDL	BDL	BDL	BDL	BDL
60	Methyl parathion	µg/l	0.3	BDL	BDL	BDL	BDL	BDL
61	Monocrotophos	µg/l	1	BDL	BDL	BDL	BDL	BDL
62	Phorate	µg/l	2	BDL	BDL	BDL	BDL	BDL
63	E.coli	Per 100 ml	Absent	Absent	Absent	Absent	Absent	Absent
64	Total Coliforms	MPN/100ml	Absent	Absent	Absent	Absent	Absent	Absent
(B)	**Radioactive**							
65	Alpha emitters	Bq/l	0.1(NR)	BDL	BDL	BDL	BDL	BDL
66	Beta emitters	Bq/l	1.0(NR)	BDL	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 REPORT-

Name and Designation of Authorized Signatory

ENVIRONMENT LABORATORY Vimta VIMTA LABS REGD. No. DL 3300/89 Sr. No.-5 VIMTA

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ISSUED TO:

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

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

SAMPLE PARTICULARS : GROUND WATER SAMPLES (CHOTIA MINES)

Sample Registration Date	:	2026-08-11	Sampling Date	:	2026-08-05
Analysis Starting Date	:	2026-08-12	Analysis Completion Date	:	2026-08-26
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	Chotia-1 Guest house water	Chotia-1 mines water (B/W)	Chotia-2 Near Govt. Solar Panel (B/W)	Chotia-2 mines water (B/W)	Chotia-2 Bhujang nagar Village
1	pH value	-	6.5-8.5 (NR)	7.12	6.87	7.19	7.17	7.25
2	Color	Hazen	5(15)	Colorless	Colorless	Colorless	Colorless	Colorless
3	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	1(5)	<0.1	1.7	1.4	1.2	<0.1
6	Total dissolved solids at 180°C	mg/l	500(2000)	98	130	110	95	115
7	Total Hardness as $CaCO_3$	mg/l	200(600)	44	62	50	43	53
8	Total Alkalinity as $CaCO_3$	mg/l	200(600)	35	45	37	40	45
9	Calcium as Ca	mg/l	75(200)	10.5	16.4	12.7	11.8	13.2
10	Magnesium as Mg	mg/l	30(100)	4.3	5.2	4.3	3.4	4.8
11	Free Residual chlorine	mg/l	0.2(1.0)	<0.2	<0.2	<0.2	<0.2	<0.2
12	Boron as B	mg/l	0.5(1.0)	<0.005	0.016	0.009	0.018	0.011
13	Chlorides as Cl	mg/l	250(1000)	25.5	36.4	29.6	21.1	27.4
14	Sulphates as SO_4	mg/l	200(400)	6.40	8.20	3.80	3.30	4.70
15	Fluorides as F	mg/l	1.0(1.5)	0.117	0.138	0.160	0.164	0.138
16	Nitrates as NO_3	mg/l	45(NR)	1.50	1.90	2.10	1.50	1.80
17	Phenolic Compounds as C_6H_5OH	mg/l	0.001(0.002)	<0.001	<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	<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

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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 (CHOTIA MINES)

Sample Registration Date	:	2026-08-11	Sampling Date	:	2026-08-05
Analysis Starting Date	:	2026-08-12	Analysis Completion Date	:	2026-08-26
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	Chotia-1 Guest house water	Chotia-1 mines water (B/W)	Chotia-2 Near Govt. Solar Panel (B/W)	Chotia-2 mines water (B/W)	Chotia-2 Bhujang nagar Village
19	Anionic detergents as MBAS	mg/l	0.2(1.0)	<0.02	<0.02	<0.02	<0.02	<0.02
20	Mineral oil	mg/l	0.5(NR)	Absent	Absent	Absent	Absent	Absent
21	Cadmium as Cd	mg/l	0.003(NR)	<0.005	<0.005	<0.005	<0.005	<0.005
22	Total Arsenic as As	mg/l	0.01(0.05)	<0.005	<0.005	<0.005	<0.005	<0.005
23	Copper as Cu	mg/l	0.05(1.5)	<0.005	<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	<0.005
25	Manganese as Mn	mg/l	0.1(0.3)	<0.005	<0.005	<0.005	<0.005	<0.005
26	Molybdenum as Mo	mg/l	0.07(NR)	<0.001	<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	<0.005
28	Iron as Fe	mg/l	0.3(NR)	0.024	0.047	0.053	0.024	0.039
29	Total Chromium as Cr	mg/l	0.05(NR)	<0.005	<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	<0.005
31	Zinc as Zn	mg/l	5.0(15)	<0.005	0.018	0.016	0.01	0.017
32	Aluminum as Al	mg/l	0.03(0.2)	<0.005	0.017	0.012	0.028	0.014
33	Mercury as Hg	mg/l	0.001(NR)	<0.001	<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	<0.05
35	Chloramines as Cl2	mg/l	4.0(NR)	<0.05	<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	<0.05
37	Barium as Ba	mg/l	0.7(NR)	0.017	0.024	0.021	0.014	0.019
38	Silver as Ag	mg/l	0.1(NR)	<0.005	<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 33004/99

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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 (CHOTIA MINES)**

Sample Registration Date	:	2026-08-11	Sampling Date	:	2026-08-05
Analysis Starting Date	:	2026-08-12	Analysis Completion Date	:	2026-08-26
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	Chotia-1 Guest house water	Chotia-1 mines water (B/W)	Chotia-2 Near Govt. Solar Panel (B/W)	Chotia-2 mines water (B/W)	Chotia-2 Bhujang nagar Village
39	Polychlorinated biphenyls	mg/l	0.0005(NR)	Absent	Absent	Absent	Absent	Absent
40	Polynuclear aromatic hydrocarbon as PAH	mg/l	0.0001(NR)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
41	Bromoform	mg/l	0.1(NR)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
42	Dibromochloromethane	mg/l	0.1(NR)	<0.01	<0.01	<0.01	<0.01	<0.01
43	Bromodichloromethane	mg/l	0.06(NR)	<0.01	<0.01	<0.01	<0.01	<0.01
44	Chloroform	mg/l	0.2(NR)	<0.001	<0.001	<0.001	<0.001	<0.001
(A)	**Pesticides**							
45	Alachlor	µg/l	20	<0.01	<0.01	<0.01	<0.01	<0.01
46	Atrazine	µg/l	2	<0.01	<0.01	<0.01	<0.01	<0.01
47	Aldrin	µg/l	0.03	<0.01	<0.01	<0.01	<0.01	<0.01
48	Alpha HCH	µg/l	0.01	<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	<0.01
50	Butachlor	µg/l	125	<0.01	<0.01	<0.01	<0.01	<0.01
51	Chlorpyriphos	µg/l	30	<0.01	<0.01	<0.01	<0.01	<0.01
52	Delta HCH	µg/l	0.04	<0.01	<0.01	<0.01	<0.01	<0.01
53	2,4-Dichlorophenoxyacetic acid	µg/l	30	<0.01	<0.01	<0.01	<0.01	<0.01
54	DDT	µg/l	1	<0.01	<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	<0.01
56	Ethion	µg/l	3	<0.01	<0.01	<0.01	<0.01	<0.01
57	Gamma HCH	µg/l	2	<0.01	<0.01	<0.01	<0.01	<0.01
58	Isoproturon	µg/l	9	<0.01	<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 3200 VIMTA

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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 (CHOTIA MINES)**

Sample Registration Date	:	2026-08-11	Sampling Date	:	2026-08-05
Analysis Starting Date	:	2026-08-12	Analysis Completion Date	:	2026-08-26
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	Chotia-1 Guest house water	Chotia-1 mines water (B/W)	Chotia-2 Near Govt. Solar Panel (B/W)	Chotia-2 mines water (B/W)	Chotia-2 Bhujang nagar Village
59	Malathion	µg/l	190	BDL	BDL	BDL	BDL	BDL
60	Methyl parathion	µg/l	0.3	BDL	BDL	BDL	BDL	BDL
61	Monocrotophos	µg/l	1	BDL	BDL	BDL	BDL	BDL
62	Phorate	µg/l	2	BDL	BDL	BDL	BDL	BDL
63	E.coli	Per 100 ml	Absent	Absent	Absent	Absent	Absent	Absent
64	Total Coliforms	MPN/100ml	Absent	Absent	Absent	Absent	Absent	Absent
(B)	**Radioactive**							
65	Alpha emitters	Bq/l	0.1(NR)	BDL	BDL	BDL	BDL	BDL
66	Beta emitters	Bq/l	1.0(NR)	BDL	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 REPORT-

Name and Designation of Authorized Signatory

ENVIRONMENT LABORATORY Vimta VIMTA LABS Sr. No.-4 VIMTA

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ISSUED TO:

M/s. Bharat Aluminum Company Limited,	**Report Number**	:	**VLL/VLS/26-27/15382/001**
BALCO	**Issued Date**	:	**2026-10-05**
KORBA	**P.O. No.**	:	**3402001553**
Chhattisgarh	**P.O. Date**	:	**2025-10-01**

SAMPLE PARTICULARS : GROUND WATER SAMPLES (CHOTIA MINES)

Sample Registration Date : 2026-09-10 Sampling Date : 2026-09-03
Analysis Starting Date : 2026-09-11 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	Chotia-1 Guest house water	Chotia-1 mines water (B/W)	Chotia-2 Near Govt. Solar Panel (B/W)	Chotia-2 mines water (B/W)	Chotia-2 Bhujang nagar Village
1	pH value	-	6.5-8.5 (NR)	6.98	7.05	7.23	7.35	7.46
2	Color	Hazen	5(15)	Colorless	Colorless	Colorless	Colorless	Colorless
3	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	1(5)	<0.1	1.5	1.2	1.3	<0.1
6	Total dissolved solids at 180°C	mg/l	500(2000)	90	124	98	87	110
7	Total Hardness as $CaCO_3$	mg/l	200(600)	40	57	46	40	50
8	Total Alkalinity as $CaCO_3$	mg/l	200(600)	30	40	35	38	40
9	Calcium as Ca	mg/l	75(200)	9.7	15.3	11.5	10.4	12.6
10	Magnesium as Mg	mg/l	30(100)	3.7	4.6	4.1	3.2	4.2
11	Free Residual chlorine	mg/l	0.2(1.0)	<0.2	<0.2	<0.2	<0.2	<0.2
12	Boron as B	mg/l	0.5(1.0)	<0.005	0.012	0.007	0.015	0.01
13	Chlorides as Cl	mg/l	250(1000)	24.2	34.8	26.1	18.9	26.8
14	Sulphates as SO_4	mg/l	200(400)	5.80	7.40	4.70	3.80	5.10
15	Fluorides as F	mg/l	1.0(1.5)	0.106	0.121	0.143	0.152	0.118
16	Nitrates as NO_3	mg/l	45(NR)	1.30	1.90	1.40	1.20	1.60
17	Phenolic Compounds as C_6H_5OH	mg/l	0.001(0.002)	<0.001	<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	<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. VIMTA

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

SAMPLE PARTICULARS : GROUND WATER SAMPLES (CHOTIA MINES)

Sample Registration Date	:	2026-09-10	Sampling Date	:	2026-09-03
Analysis Starting Date	:	2026-09-11	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	Chotia-1 Guest house water	Chotia-1 mines water (B/W)	Chotia-2 Near Govt. Solar Panel (B/W)	Chotia-2 mines water (B/W)	Chotia-2 Bhujang nagar Village
19	Anionic detergents as MBAS	mg/l	0.2(1.0)	<0.02	<0.02	<0.02	<0.02	<0.02
20	Mineral oil	mg/l	0.5(NR)	Absent	Absent	Absent	Absent	Absent
21	Cadmium as Cd	mg/l	0.003(NR)	<0.005	<0.005	<0.005	<0.005	<0.005
22	Total Arsenic as As	mg/l	0.01(0.05)	<0.005	<0.005	<0.005	<0.005	<0.005
23	Copper as Cu	mg/l	0.05(1.5)	<0.005	<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	<0.005
25	Manganese as Mn	mg/l	0.1(0.3)	<0.005	<0.005	<0.005	<0.005	<0.005
26	Molybdenum as Mo	mg/l	0.07(NR)	<0.001	<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	<0.005
28	Iron as Fe	mg/l	0.3(NR)	0.021	0.038	0.048	0.031	0.025
29	Total Chromium as Cr	mg/l	0.05(NR)	<0.005	<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	<0.005
31	Zinc as Zn	mg/l	5.0(15)	0.010	0.013	0.014	0.009	0.012
32	Aluminum as Al	mg/l	0.03(0.2)	<0.005	0.010	0.023	0.019	0.017
33	Mercury as Hg	mg/l	0.001(NR)	<0.001	<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	<0.05
35	Chloramines as Cl2	mg/l	4.0(NR)	<0.05	<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	<0.05
37	Barium as Ba	mg/l	0.7(NR)	0.019	0.026	0.018	0.016	0.022
38	Silver as Ag	mg/l	0.1(NR)	<0.005	<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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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 (CHOTIA MINES)**

Sample Registration Date	:	2026-09-10	Sampling Date	:	2026-09-03
Analysis Starting Date	:	2026-09-11	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	Chotia-1 Guest house water	Chotia-1 mines water (B/W)	Chotia-2 Near Govt. Solar Panel (B/W)	Chotia-2 mines water (B/W)	Chotia-2 Bhujang nagar Village
39	Polychlorinated biphenyls	mg/l	0.0005(NR)	Absent	Absent	Absent	Absent	Absent
40	Polynuclear aromatic hydrocarbon as PAH	mg/l	0.0001(NR)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
41	Bromoform	mg/l	0.1(NR)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
42	Dibromochloromethane	mg/l	0.1(NR)	<0.01	<0.01	<0.01	<0.01	<0.01
43	Bromodichloromethane	mg/l	0.06(NR)	<0.01	<0.01	<0.01	<0.01	<0.01
44	Chloroform	mg/l	0.2(NR)	<0.001	<0.001	<0.001	<0.001	<0.001
(A)	**Pesticides**							
45	Alachlor	µg/l	20	<0.01	<0.01	<0.01	<0.01	<0.01
46	Atrazine	µg/l	2	<0.01	<0.01	<0.01	<0.01	<0.01
47	Aldrin	µg/l	0.03	<0.01	<0.01	<0.01	<0.01	<0.01
48	Alpha HCH	µg/l	0.01	<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	<0.01
50	Butachlor	µg/l	125	<0.01	<0.01	<0.01	<0.01	<0.01
51	Chlorpyriphos	µg/l	30	<0.01	<0.01	<0.01	<0.01	<0.01
52	Delta HCH	µg/l	0.04	<0.01	<0.01	<0.01	<0.01	<0.01
53	2,4-Dichlorophenoxyacetic acid	µg/l	30	<0.01	<0.01	<0.01	<0.01	<0.01
54	DDT	µg/l	1	<0.01	<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	<0.01
56	Ethion	µg/l	3	<0.01	<0.01	<0.01	<0.01	<0.01
57	Gamma HCH	µg/l	2	<0.01	<0.01	<0.01	<0.01	<0.01
58	Isoproturon	µg/l	9	<0.01	<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 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 (CHOTIA MINES)**

Sample Registration Date	:	2026-09-10	Sampling Date	:	2026-09-03
Analysis Starting Date	:	2026-09-11	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	Chotia-1 Guest house water	Chotia-1 mines water (B/W)	Chotia-2 Near Govt. Solar Panel (B/W)	Chotia-2 mines water (B/W)	Chotia-2 Bhujang nagar Village
59	Malathion	µg/l	190	BDL	BDL	BDL	BDL	BDL
60	Methyl parathion	µg/l	0.3	BDL	BDL	BDL	BDL	BDL
61	Monocrotophos	µg/l	1	BDL	BDL	BDL	BDL	BDL
62	Phorate	µg/l	2	BDL	BDL	BDL	BDL	BDL
63	E.coli	Per 100 ml	Absent	Absent	Absent	Absent	Absent	Absent
64	Total Coliforms	MPN/100ml	Absent	Absent	Absent	Absent	Absent	Absent
(B)	**Radioactive**							
65	Alpha emitters	Bq/l	0.1(NR)	BDL	BDL	BDL	BDL	BDL
66	Beta emitters	Bq/l	1.0(NR)	BDL	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 REPORT-

Name and Designation of Authorized Signatory

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

AMBIENT AIR QUALITY MONITORING AT D G SET (CHOTIA 1)

Analysis starting date :- 2026-04-06 **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 : D G SET - (CHOTIA 1)									
Sampling Date			**2026-04-02**	**2026-04-06**	**2026-04-09**	**2026-04-13**	**2026-04-16**	**2026-04-20**	**2026-04-23**	**2026-04-25**	**2026-04-28**	**Method**
Sulphur Dioxide as SO_2	µg/m³	80	8.1	7.4	7.9	6.4	9.2	8.8	10.1	7.5	9.7	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m³	80	10.5	8.7	9.1	8.3	11.5	10.9	13.2	9.4	12.2	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m³	100	64.2	53.8	51.5	46.7	58.2	60.8	54.3	57.1	52.6	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m³	60	23.6	18.9	17.4	15.8	20.9	22.4	19.6	21.2	16.8	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m³	400	0.9	1.1	1.0	0.7	0.6	1.2	0.8	1.0	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	4.5	3.7	2.8	3.5	4.8	3.1	2.7	5.4	4.9	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	86	69	114	81	102	74	92	87	132	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m³	100	2.7	3.2	4.1	2.8	1.6	2.2	3.5	2.6	3.1	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/26-27/02504/002
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 DHANSAR CAMP (CHOTIA - 1)

Analysis starting date :- 2026-04-06 **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 : Dhansar Camp (Chotia - 1)									
Sampling Date			**2026-04-02**	**2026-04-06**	**2026-04-09**	**2026-04-13**	**2026-04-16**	**2026-04-20**	**2026-04-23**	**2026-04-25**	**2026-04-28**	**Method**
Sulphur Dioxide as SO_2	$\mu g/m^3$	80	7.8	9.5	8.8	7.1	7.9	9.5	8.6	7.4	8.9	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	$\mu g/m^3$	80	9.5	11.4	10.9	9.5	10.3	11.5	10.2	9.5	11.6	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	$\mu g/m^3$	100	52.1	46.4	56.6	49.2	57.9	50.6	43.8	47.5	53.9	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	$\mu g/m^3$	60	16.9	13.5	19.2	15.8	20.1	15.8	13.1	15.9	18.3	IS 5182 (PART-24) 2019
Ammonia as NH_3	$\mu g/m^3$	400	1.0	0.7	0.8	0.9	1.1	0.8	1.2	1.0	1.1	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	<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	4.5	3.7	2.6	4.1	2.7	5.2	4.9	6.2	3.1	USEPA IO 3.4
Lead as Pb	$\mu g/m^3$	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	$\mu g/m^3$	2000	74	5.8	93	68	114	92	85	121	89	IS 5182 (PART-10) RA 2019
Ozone as O_3	$\mu g/m^3$	100	1.3	1.7	1.2	2.7	1.1	1.6	3.2	2.1	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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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 GUEST HOUSE (CHOTIA -1)

Analysis starting date :- 2026-04-06 **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 : Guest House (Chotia - 1)									
Sampling Date			**2026-04-02**	**2026-04-06**	**2026-04-09**	**2026-04-13**	**2026-04-16**	**2026-04-20**	**2026-04-23**	**2026-04-25**	**2026-04-28**	**Method**
Sulphur Dioxide as SO_2	µg/m³	80	10.3	8.1	7.9	11.4	8.5	10.1	9.4	7.6	7.3	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m³	80	12.2	10.5	8.4	13.5	10.8	12.5	11.6	9.3	10.2	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m³	100	58.7	62.1	47.4	42.8	53.6	48.1	54.9	53.7	50.4	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m³	60	20.7	22.4	16.9	14.9	20.8	17.5	19.3	18.1	17.4	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m³	400	1.4	1.1	0.9	0.7	1.0	1.2	0.8	1.3	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	3.7	2.6	3.2	5.1	4.7	3.3	4.8	2.9	5.1	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	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	µg/m³	2000	134	69	128	113	107	128	82	74	105	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m³	100	1.6	2.7	2.2	1.8	3.7	2.1	2.8	1.4	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:	2026-05-05
KORBA (C.G.)	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT WEIGH BRIDGE (CHOTIA -1)

Analysis starting date :- 2026-04-06 **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 : Weigh Bridge (Chotia - 1)									
Sampling Date			**2026-04-02**	**2026-04-06**	**2026-04-09**	**2026-04-13**	**2026-04-16**	**2026-04-20**	**2026-04-23**	**2026-04-25**	**2026-04-28**	**Method**
Sulphur Dioxide as SO_2	$\mu g/m^3$	80	9.5	11.6	7.7	9.1	8.4	6.9	10.1	8.5	7.4	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	$\mu g/m^3$	80	11.8	12.9	9.1	11.5	10.6	9.3	12.7	10.3	8.9	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	$\mu g/m^3$	100	56.2	60.8	63.1	54.8	45.7	51.9	47.6	50.4	55.9	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	$\mu g/m^3$	60	18.7	20.4	21.9	16.7	14.2	20.1	13.8	15.7	17.9	IS 5182 (PART-24) 2019
Ammonia as NH_3	$\mu g/m^3$	400	0.7	0.9	1.0	0.7	0.8	0.6	0.9	1.0	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	5.7	3.5	4.6	5.1	4.3	3.9	5.5	3.8	2.4	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	74	92	88	122	96	118	142	83	101	IS 5182 (PART-10) RA 2019
Ozone as O_3	$\mu g/m^3$	100	2.6	1.4	3.8	2.7	1.6	2.1	2.5	1.9	3.2	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/26-27/02504/005
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 BHUJANG VILLAGE (CHOTIA 2)

Analysis starting date :- 2026-04-06 **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 : Bhujang Village - (CHOTIA 2)									
Sampling Date			2026-04-02	2026-04-06	2026-04-09	2026-04-13	2026-04-16	2026-04-20	2026-04-23	2026-04-25	2026-04-28	Method
Sulphur Dioxide as SO_2	µg/m³	80	12.7	9.1	11.5	7.6	10.4	8.6	10.1	8.9	12.3	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m³	80	13.4	11.7	12.1	9.5	12.7	10.4	12.7	9.5	14.4	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m³	100	58.7	63.1	57.9	55.2	60.5	54.8	51.7	48.4	53.9	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m³	60	20.7	24.2	21.3	18.5	22.6	19.1	16.9	15.3	17.4	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m³	400	1.3	1.0	0.8	1.1	0.9	1.4	1.1	0.9	0.7	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	4.8	6.2	3.5	4.1	5.7	4.6	5.1	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	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	µg/m³	2000	139	71	122	96	75	109	141	86	114	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m³	100	2.7	1.4	3.1	2.8	2.4	2.7	1.6	2.2	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:	Report No.:	VLL/VLS/26-27/02504/006
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 D G SET (CHOTIA - 2)

Analysis starting date :- 2026-04-06 **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 : D G SET (Chotia - 2)									
Sampling Date			**2026-04-02**	**2026-04-06**	**2026-04-09**	**2026-04-13**	**2026-04-16**	**2026-04-20**	**2026-04-23**	**2026-04-25**	**2026-04-28**	**Method**
Sulphur Dioxide as SO_2	$\mu g/m^3$	80	8.6	9.2	11.3	7.6	10.5	8.2	12.4	10.1	8.3	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	$\mu g/m^3$	80	10.8	11.7	12.5	9.2	11.9	10.5	14.2	12.7	9.4	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	$\mu g/m^3$	100	48.7	56.2	45.9	41.8	57.4	53.1	48.4	50.2	54.9	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	$\mu g/m^3$	60	16.8	20.4	16.4	15.1	21.1	17.9	16.4	19.5	18.3	IS 5182 (PART-24) 2019
Ammonia as NH_3	$\mu g/m^3$	400	0.7	0.5	0.9	1.2	0.8	1.0	0.8	1.1	0.6	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	4.2	3.3	3.6	5.1	4.7	4.2	5.6	3.9	2.5	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	152	127	87	134	72	95	69	128	93	IS 5182 (PART-10) RA 2019
Ozone as O_3	$\mu g/m^3$	100	4.2	2.7	2.2	1.9	2.0	1.8	2.6	2.4	3.1	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/26-27/02504/007
	Issue Date:	2026-05-05
	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT GOVT SOLAR PANEL (CHOTIA -2)

Analysis starting date :- 2026-04-06 **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 : Govt. Solar Panel (Chotia - 2)									
Sampling Date			2026-04-02	2026-04-06	2026-04-09	2026-04-13	2026-04-16	2026-04-20	2026-04-23	2026-04-25	2026-04-28	Method
Sulphur Dioxide as SO_2	µg/m³	80	11.7	8.9	6.8	9.3	13.2	10.8	7.5	13.1	8.4	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m³	80	13.5	10.5	9.3	11.4	15.2	12.7	9.5	14.6	11.2	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m³	100	58.7	64.5	60.9	55.4	47.6	52.8	61.9	57.4	53.2	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m³	60	22.6	26.3	21.5	18.1	15.3	20.8	23.2	20.7	18.4	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m³	400	1.1	0.8	1.0	0.7	0.6	0.9	1.0	0.8	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	4.7	2.9	5.7	4.1	3.9	6.2	5.5	6.3	4.8	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	129	96	83	107	91	148	125	73	98	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m³	100	2.7	3.1	3.1	2.8	1.6	2.9	1.6	2.3	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:	2026-05-05
KORBA (C.G.)	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT WEIGH BRIDGE (CHOTIA -2)

Analysis starting date :- 2026-04-06 **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 : Weigh Bridge (Chotia - 2)									
Sampling Date			**2026-04-02**	**2026-04-06**	**2026-04-09**	**2026-04-13**	**2026-04-16**	**2026-04-20**	**2026-04-23**	**2026-04-25**	**2026-04-28**	**Method**
Sulphur Dioxide as SO_2	µg/m³	80	7.6	9.3	8.8	6.9	9.2	8.7	11.6	8.4	12.1	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m³	80	9.7	11.4	10.4	9.5	10.8	11.3	13.1	10.7	14.4	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m³	100	48.7	50.9	54.2	46.8	53.4	51.7	47.3	52.8	56.1	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m³	60	17.9	18.4	20.3	17.2	21.7	19.1	17.8	19.3	21.5	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m³	400	1.4	1.0	0.9	1.2	0.8	0.6	1.0	0.9	0.7	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	3.8	5.9	4.1	2.9	5.8	3.2	5.7	3.6	4.5	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	138	114	84	96	121	69	81	78	141	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m³	100	1.9	1.7	3.2	2.4	1.6	2.1	1.9	3.3	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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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 D G SET (CHOTIA 1)

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 : D G SET - (CHOTIA 1)									
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	9.3	11.4	7.5	9.1	8.6	10.3	7.4	8.8	7.6	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m³	80	7.6	12.5	10.3	11.7	9.1	13.2	9.5	11.2	8.6	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m³	100	57.6	43.2	48.7	50.1	54.8	46.2	62.1	56.9	51.4	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m³	60	21.3	14.1	17.6	19.2	20.1	15.9	23.1	20.5	18.4	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m³	400	0.8	0.5	0.8	1.3	0.9	1.0	1.0	0.7	0.6	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	4.1	2.7	3.5	4.4	3.9	2.6	4.2	3.6	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	85	103	91	74	89	124	93	77	112	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m³	100	1.9	4.2	2.7	3.6	1.4	2.7	3.1	2.2	1.6	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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KORBA (C.G.)	Issue Date:	2026-06-04
	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT DHANSAR CAMP (CHOTIA - 1)

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 : Dhansar Camp (Chotia - 1)									
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	9.4	7.8	8.1	7.7	6.9	8.3	10.1	7.9	9.2	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	$\mu g/m^3$	80	11.2	9.5	10.9	10.2	8.4	11.6	13.2	8.4	11.3	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	$\mu g/m^3$	100	45.2	48.9	40.6	54.8	51.2	47.6	56.4	53.9	49.1	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	$\mu g/m^3$	60	15.9	17.2	14.8	20.3	18.3	16.9	21.1	19.4	18.5	IS 5182 (PART-24) 2019
Ammonia as NH_3	$\mu g/m^3$	400	0.7	1.2	1.0	1.1	1.0	0.8	0.9	1.2	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	4.1	5.3	2.9	3.5	5.6	6.8	4.9	5.1	3.8	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	92	128	91	84	79	116	142	87	104	IS 5182 (PART-10) RA 2019
Ozone as O_3	$\mu g/m^3$	100	1.7	2.1	1.4	1.9	2.4	3.6	2.7	3.3	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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KORBA (C.G.)	Issue Date:	2026-06-04
	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT GUEST HOUSE (CHOTIA -1)

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 : Guest House (Chotia - 1)									
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	9.2	11.5	8.3	9.1	7.7	8.5	7.2	9.1	10.4	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	$\mu g/m^3$	80	11.7	12.9	10.5	11.8	9.3	10.7	9.6	11.4	13.2	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	$\mu g/m^3$	100	48.3	46.2	53.9	57.6	45.4	51.8	56.8	44.2	49.1	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	$\mu g/m^3$	60	17.4	15.2	20.6	21.1	15.9	19.4	21.7	14.8	18.3	IS 5182 (PART-24) 2019
Ammonia as NH_3	$\mu g/m^3$	400	1.0	0.9	1.1	1.3	0.7	0.5	0.9	1.0	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	3.9	4.1	3.2	4.7	4.2	5.1	3.9	4.3	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	135	109	78	91	84	72	89	127	96	IS 5182 (PART-10) RA 2019
Ozone as O_3	$\mu g/m^3$	100	2.2	3.7	1.5	1.8	2.1	1.8	3.2	2.8	3.3	IS 5182 (PART-9) RA 2019

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

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

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ISSUED TO:		
M/s. Bharat Aluminium Company Limited,	Report No.:	VLL/VLS/26-27/05017/004
KORBA (C.G.)	Issue Date:	2026-06-04
	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT WEIGH BRIDGE (CHOTIA -1)

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 : Weigh Bridge (Chotia - 1)									
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	8.4	10.2	10.5	9.3	11.4	6.5	8.9	9.3	7.1	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m³	80	10.7	11.6	13.2	11.8	13.1	8.7	10.3	11.6	9.4	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m³	100	57.4	43.9	63.2	55.8	52.3	48.1	46.4	52.6	42.5	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m³	60	22.6	15.3	24.1	20.7	19.3	16.9	15.6	20.4	14.8	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m³	400	0.8	1.0	0.7	0.8	1.2	0.8	0.9	1.1	0.7	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	7.6	3.9	5.2	4.9	4.1	3.9	4.4	3.7	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	93	146	101	85	69	82	131	64	96	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m³	100	2.7	3.1	2.2	1.7	1.4	0.8	3.6	2.5	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/26-27/05017/005
Issue Date:	2026-06-04
P.O.No:	3402001553
P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT BHUJANG VILLAGE (CHOTIA 2)

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 : Bhujang Village - (CHOTIA 2)									
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	10.8	12.1	8.4	9.6	11.3	13.4	9.5	10.2	8.7	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	$\mu g/m^3$	80	12.7	14.2	10.6	11.2	12.9	10.5	11.8	13.2	9.1	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	$\mu g/m^3$	100	63.2	57.4	46.3	50.9	48.8	56.3	52.9	54.1	46.7	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	$\mu g/m^3$	60	25.1	22.6	17.1	19.5	16.9	21.6	19.8	20.7	15.6	IS 5182 (PART-24) 2019
Ammonia as NH_3	$\mu g/m^3$	400	0.9	1.2	0.7	0.6	1.2	1.1	1.0	1.3	0.9	APHA 3rd Edition - 401
Benzene as C_6H_6	$\mu g/m^3$	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	IS 5182 (PART-11) RA 2017
Benzo(a) Pyrene in particulate phase	ng/m^3	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS 5182 (PART-12) RA 2019
Arsenic as As	ng/m^3	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	USEPA IO 3.4
Nickel as Ni	ng/m^3	20	4.8	6.2	3.8	5.1	3.9	4.4	3.6	4.2	4.9	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	89	121	93	114	85	152	131	79	91	IS 5182 (PART-10) RA 2019
Ozone as O_3	$\mu g/m^3$	100	3.6	4.2	3.8	1.4	2.6	1.8	2.7	3.2	2.9	IS 5182 (PART-9) RA 2019

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

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

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ISSUED TO:	Report No.:	VLL/VLS/26-27/05017/006
M/s. Bharat Aluminium Company Limited,	Issue Date:	2026-06-04
KORBA (C.G.)	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT D G SET (CHOTIA - 2)

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 : D G SET (Chotia - 2)									
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	9.5	11.3	10.1	8.2	11.6	10.5	9.1	7.4	10.8	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	$\mu g/m^3$	80	11.7	12.4	13.2	10.6	12.8	8.3	11.1	9.6	13.3	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	$\mu g/m^3$	100	53.9	45.1	57.4	52.1	49.3	46.5	56.8	58.2	55.7	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	$\mu g/m^3$	60	20.3	16.1	21.7	18.4	16.5	14.9	21.6	23.5	22.6	IS 5182 (PART-24) 2019
Ammonia as NH_3	$\mu g/m^3$	400	0.9	1.1	1.3	1.0	0.8	1.0	0.9	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	3.6	5.4	3.8	2.5	4.2	5.6	4.8	3.8	4.4	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	72	138	92	117	86	94	69	74	126	IS 5182 (PART-10) RA 2019
Ozone as O_3	$\mu g/m^3$	100	3.1	2.8	1.4	1.7	3.2	2.7	2.4	1.9	3.3	IS 5182 (PART-9) RA 2019

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

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

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ISSUED TO:	Report No.:	VLL/VLS/26-27/05017/007
M/s. Bharat Aluminium Company Limited,	Issue Date:	2026-06-04
KORBA (C.G.)	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT GOVT SOLAR PANEL (CHOTIA -2)

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 : Govt. Solar Panel (Chotia - 2)									
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	7.4	9.1	12.8	10.5	8.6	11.3	8.6	10.1	9.7	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m³	80	9.6	11.4	10.2	12.7	10.8	13.1	9.7	12.4	10.5	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m³	100	54.7	63.2	48.9	51.6	45.8	52.6	49.7	44.5	47.3	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m³	60	21.8	25.6	17.5	19.2	15.8	20.3	18.1	15.7	17.4	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m³	400	0.9	1.2	1.0	1.4	0.7	0.9	1.0	1.2	0.6	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	4.2	5.8	3.9	4.6	5.1	3.7	2.8	4.7	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	84	129	92	146	61	87	103	118	93	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m³	100	1.7	2.3	1.5	3.4	2.6	1.9	1.1	2.5	3.2	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:		
M/s. Bharat Aluminium Company Limited,	Report No.:	VLL/VLS/26-27/05017/008
KORBA (C.G.)	Issue Date:	2026-06-04
	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT WEIGH BRIDGE (CHOTIA -2)

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 : Weigh Bridge (Chotia - 2)									
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	9.1	7.5	10.2	8.9	7.6	11.3	9.5	10.7	8.4	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	$\mu g/m^3$	80	11.5	9.2	12.8	10.1	9.7	8.9	12.6	12.1	10.2	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	$\mu g/m^3$	100	53.5	48.2	63.1	58.7	59.4	52.8	46.2	50.7	61.9	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	$\mu g/m^3$	60	24.6	17.4	25.1	22.9	23.1	20.8	17.5	20.2	22.7	IS 5182 (PART-24) 2019
Ammonia as NH_3	$\mu g/m^3$	400	1.0	1.3	0.8	1.0	1.1	0.8	0.7	0.9	0.8	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	5.7	4.2	4.1	3.6	5.3	3.8	6.3	4.9	5.1	USEPA IO 3.4
Lead as Pb	$\mu g/m^3$	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	$\mu g/m^3$	2000	68	134	93	87	68	106	124	95	148	IS 5182 (PART-10) RA 2019
Ozone as O_3	$\mu g/m^3$	100	2.4	4.2	3.7	5.6	4.7	3.1	2.8	3.6	3.4	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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ISSUED TO:	Report No.:	VLL/VLS/26-27/07623/001
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 D G SET (CHOTIA 1)

Analysis starting date :- 2026-06-04 **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 : D G SET - (CHOTIA 1)								
Sampling Date			**2026-06-01**	**2026-06-05**	**2026-06-09**	**2026-06-12**	**2026-06-15**	**2026-06-18**	**2026-06-22**	**2026-06-25**	**Method**
Sulphur Dioxide as SO_2	$\mu g/m^3$	80	9.9	10.9	8.2	10.4	9.4	11.1	8.1	9.8	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	$\mu g/m^3$	80	11.2	13.1	10.6	11.9	11.3	12.6	9.9	11.1	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	$\mu g/m^3$	100	54.8	58.9	51.4	64.2	52.7	48.6	43.1	50.4	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	$\mu g/m^3$	60	17.1	19.4	16.2	21.7	18.3	14.9	13.5	15.2	IS 5182 (PART-24) 2019
Ammonia as NH_3	$\mu g/m^3$	400	0.7	0.8	0.6	0.9	1.2	1.0	0.9	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	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	4.5	3.2	3.9	4.1	4.2	3.4	4.6	3.9	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	USEPA IO 3.4
Carbon Monoxide as CO	$\mu g/m^3$	2000	90	110	95	81	94	136	100	81	IS 5182 (PART-10) RA 2019
Ozone as O_3	$\mu g/m^3$	100	2.4	1.1	3.7	2.7	1.9	1.5	3.9	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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ISSUED TO:	Report No.:	VLL/VLS/26-27/07623/002
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 DHANSAR CAMP (CHOTIA - 1)

Analysis starting date :- 2026-06-04 **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 : Dhansar Camp (Chotia - 1)								
Sampling Date			**2026-06-01**	**2026-06-05**	**2026-06-09**	**2026-06-12**	**2026-06-15**	**2026-06-18**	**2026-06-22**	**2026-06-25**	**Method**
Sulphur Dioxide as SO_2	µg/m³	80	7.7	8.3	9.4	8.9	7.8	9.8	10.2	8.8	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m³	80	9.4	10.8	11.6	10.3	9.8	11.2	12.7	10.2	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m³	100	46.4	43.8	54.1	52.9	46.8	44.1	52.1	47.3	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m³	60	15.1	12.9	17.6	16.2	14.3	13.6	16.2	14.8	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m³	400	0.9	0.6	1.0	0.8	0.9	1.1	0.9	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	4.6	4.9	3.2	3.9	5.9	6.2	5.1	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	USEPA IO 3.4
Carbon Monoxide as CO	µg/m³	2000	96	132	96	90	83	125	135	93	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m³	100	2.1	1.3	2.4	1.7	3.1	1.5	2.1	2.9	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.

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

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

AMBIENT AIR QUALITY MONITORING AT GUEST HOUSE (CHOTIA -1)

Analysis starting date :- 2026-06-04 **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 : Guest House (Chotia - 1)								
Sampling Date			**2026-06-01**	**2026-06-05**	**2026-06-09**	**2026-06-12**	**2026-06-15**	**2026-06-18**	**2026-06-22**	**2026-06-25**	**Method**
Sulphur Dioxide as SO_2	$\mu g/m^3$	80	10.4	8.1	9.6	10.8	8.4	9.7	8.6	10.7	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	$\mu g/m^3$	80	11.9	13.6	11.4	12.1	10.4	9.6	10.4	11.9	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	$\mu g/m^3$	100	56.2	46.9	43.8	52.1	57.6	54.8	48.9	50.2	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	$\mu g/m^3$	60	18.9	15.4	13.6	16.2	19.4	17.3	14.3	16.1	IS 5182 (PART-24) 2019
Ammonia as NH_3	$\mu g/m^3$	400	0.9	1.0	0.8	1.1	0.9	0.7	1.1	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	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	5.1	4.1	4.6	3.6	5.1	4.6	4.8	4.2	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	140	112	82	96	91	82	94	119	IS 5182 (PART-10) RA 2019
Ozone as O_3	$\mu g/m^3$	100	2.9	2.8	2.0	2.4	1.8	2.8	3.8	2.1	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
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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 WEIGH BRIDGE (CHOTIA -1)

Analysis starting date :- 2026-06-04 **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 : Weigh Bridge (Chotia - 1)								
Sampling Date			2026-06-01	2026-06-05	2026-06-09	2026-06-12	2026-06-15	2026-06-18	2026-06-22	2026-06-25	Method
Sulphur Dioxide as SO_2	$\mu g/m^3$	80	9.5	7.4	8.3	9.3	7.8	7.9	8.1	10.4	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	$\mu g/m^3$	80	10.9	11.3	10.7	11.8	10.4	9.4	9.8	11.6	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	$\mu g/m^3$	100	53.1	55.4	48.6	57.1	50.9	47.4	44.9	52.7	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	$\mu g/m^3$	60	16.4	17.5	13.1	18.7	16.2	15.0	12.7	15.3	IS 5182 (PART-24) 2019
Ammonia as NH_3	$\mu g/m^3$	400	0.7	1.1	0.9	1.0	0.8	0.7	1.1	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	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	3.4	6.8	4.2	5.4	5.2	4.5	4.2	4.9	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	USEPA IO 3.4
Carbon Monoxide as CO	$\mu g/m^3$	2000	98	140	110	92	72	86	140	71	IS 5182 (PART-10) RA 2019
Ozone as O_3	$\mu g/m^3$	100	1.9	2.1	2.9	1.8	2.4	1.7	2.6	3.1	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.

Dr. Subba Reddy Mallampati
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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 BHUJANG VILLAGE (CHOTIA 2)

Analysis starting date :- 2026-06-04 **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 : Bhujang Village - (CHOTIA 2)								
Sampling Date			**2026-06-01**	**2026-06-05**	**2026-06-09**	**2026-06-12**	**2026-06-15**	**2026-06-18**	**2026-06-22**	**2026-06-25**	**Method**
Sulphur Dioxide as SO_2	$\mu g/m^3$	80	11.2	9.1	9.7	10.3	10.9	11.8	10.6	8.9	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	$\mu g/m^3$	80	12.9	10.6	11.4	12.2	11.7	13.9	11.9	10.8	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	$\mu g/m^3$	100	59.3	53.7	64.1	57.9	51.7	48.6	50.2	46.4	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	$\mu g/m^3$	60	18.7	16.3	22.1	18.0	16.4	14.8	15.2	13.9	IS 5182 (PART-24) 2019
Ammonia as NH_3	$\mu g/m^3$	400	0.7	1.0	0.9	0.6	1.0	0.8	1.1	0.6	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	4.6	5.9	4	5.6	4.2	4.9	3.9	4.6	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	96	128	95	119	91	138	138	84	IS 5182 (PART-10) RA 2019
Ozone as O_3	$\mu g/m^3$	100	2.8	3.7	2.9	1.6	2.3	2.6	1.8	3.4	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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KORBA (C.G.)	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT D G SET (CHOTIA - 2)

Analysis starting date :- 2026-06-04 **Analysis Completion date :- 2026-07-03**

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 : D G SET (Chotia - 2)								
Sampling Date			**2026-06-01**	**2026-06-05**	**2026-06-09**	**2026-06-12**	**2026-06-15**	**2026-06-18**	**2026-06-22**	**2026-06-25**	**Method**
Sulphur Dioxide as SO_2	$\mu g/m^3$	80	10.2	8.8	9.2	9.7	10.7	8.8	9.9	8.6	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	$\mu g/m^3$	80	12.1	10.5	12.7	10.8	12.8	13.1	10.9	10.1	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	$\mu g/m^3$	100	56.1	49.4	53.8	50.9	46.4	43.9	48.1	51.7	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	$\mu g/m^3$	60	19.5	14.7	17.1	15.8	13.0	12.5	14.1	16.8	IS 5182 (PART-24) 2019
Ammonia as NH_3	$\mu g/m^3$	400	1.0	0.8	1.1	0.9	0.7	0.9	1.1	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	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	4.1	5.8	4.3	3.1	4.6	5.9	5.1	4.1	USEPA IO 3.4
Lead as Pb	$\mu g/m^3$	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	$\mu g/m^3$	2000	80	128	98	121	93	88	74	80	IS 5182 (PART-10) RA 2019
Ozone as O_3	$\mu g/m^3$	100	2.9	1.5	2.1	2.3	1.7	2.1	2.8	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 GOVT SOLAR PANEL (CHOTIA -2)

Analysis starting date :- 2026-06-04 **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 : Govt. Solar Panel (Chotia - 2)								
Sampling Date			**2026-06-01**	**2026-06-05**	**2026-06-09**	**2026-06-12**	**2026-06-15**	**2026-06-18**	**2026-06-22**	**2026-06-25**	**Method**
Sulphur Dioxide as SO_2	µg/m³	80	8.1	10.7	9.4	11.5	9.7	10.4	9.7	8.2	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m³	80	10.2	12.1	13.4	12.6	10.7	11.6	11.1	12.9	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m³	100	52.7	56.2	62.1	58.4	49.6	45.3	52.8	47.9	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m³	60	17.6	19.2	22.1	20.6	15.4	13.8	16.3	14.7	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m³	400	1.0	0.7	0.9	1.1	0.8	0.9	1.1	0.7	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	4.9	5.3	4.1	3.1	4.9	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	90	135	94	136	71	96	112	124	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m³	100	2.4	1.7	3.4	2.8	1.5	2.0	2.3	3.1	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 WEIGH BRIDGE (CHOTIA -2)

Analysis starting date :- 2026-06-04 **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 : Weigh Bridge (Chotia - 2)								
Sampling Date			**2026-06-01**	**2026-06-05**	**2026-06-09**	**2026-06-12**	**2026-06-15**	**2026-06-18**	**2026-06-22**	**2026-06-25**	**Method**
Sulphur Dioxide as SO_2	µg/m³	80	10.6	8.5	7.1	9.4	8.8	9.3	10.8	8.5	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m³	80	11.4	10.7	12.9	11.3	10.3	12.7	11.7	12.7	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m³	100	45.2	53.9	50.4	48.7	44.1	56.2	47.3	52.5	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m³	60	13.8	18.5	16.0	15.1	12.7	19.2	14.9	17.2	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m³	400	0.8	1.1	0.9	1.2	1.0	0.9	0.7	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	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	5.9	4.6	4.5	4.1	5.6	4.2	6.5	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	USEPA IO 3.4
Carbon Monoxide as CO	µg/m³	2000	73	138	96	94	74	119	130	99	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m³	100	3.1	2.3	1.9	3.5	2.4	1.7	1.3	2.4	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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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 D G SET (CHOTIA 1)

Analysis starting date :- 2026-07-06

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 : D G SET - (CHOTIA 1)									
Sampling Date			**2026-07-01**	**2026-07-04**	**2026-07-08**	**2026-07-10**	**2026-07-14**	**2026-07-16**	**2026-07-20**	**2026-07-22**	**2026-07-27**	**Method**
Sulphur Dioxide as SO_2	$\mu g/m^3$	80	10.2	11.3	9.1	9.9	10.2	11.4	8.6	9.9	8.9	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	$\mu g/m^3$	80	11.8	13.5	11.4	11.6	12.1	13.4	10.1	11.3	11.3	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	$\mu g/m^3$	100	45.3	46.2	43.9	50.8	50.4	42.8	47.5	49.2	48.1	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	$\mu g/m^3$	60	14.5	19.8	12.1	17.0	18.9	13.2	15.4	16.2	18.1	IS 5182 (PART-24) 2019
Ammonia as NH_3	$\mu g/m^3$	400	1.1	1.0	1.3	1.6	1.2	1.6	1.7	1.2	1.6	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	5.1	4.8	6.3	4.4	5.8	6.1	2.8	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	91	98	110	87	112	137	77	89	120	IS 5182 (PART-10) RA 2019
Ozone as O_3	$\mu g/m^3$	100	2.8	5.1	4.1	3.2	2.4	2.2	4.2	3.6	3.4	IS 5182 (PART-9) RA 2019

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

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

AMBIENT AIR QUALITY MONITORING AT DHANSAR CAMP (CHOTIA - 1)

Analysis starting date :- 2026-07-06

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 : Dhansar Camp (Chotia - 1)									
Sampling Date			**2026-07-01**	**2026-07-04**	**2026-07-08**	**2026-07-10**	**2026-07-14**	**2026-07-16**	**2026-07-20**	**2026-07-22**	**2026-07-27**	**Method**
Sulphur Dioxide as SO_2	$\mu g/m^3$	80	8.3	8.9	9.9	10.1	8.4	9.6	10.8	8.9	8.1	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	$\mu g/m^3$	80	10.1	10.2	11.9	11.8	10.6	11.3	11.9	10.8	10.4	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	$\mu g/m^3$	100	37.4	46.9	42.9	45.7	51.3	48.2	40.5	43.9	54.8	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	$\mu g/m^3$	60	11.6	17.3	13.5	16.3	20.2	18.5	14.1	16.7	21.4	IS 5182 (PART-24) 2019
Ammonia as NH_3	$\mu g/m^3$	400	1.5	1.1	1.0	1.3	1.6	1.3	1.5	1.8	1.9	APHA 3rd Edition - 401
Benzene as C_6H_6	$\mu g/m^3$	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	IS 5182 (PART-11) RA 2017
Benzo(a) Pyrene in particulate phase	ng/m^3	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS 5182 (PART-12) RA 2019
Arsenic as As	ng/m^3	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	USEPA IO 3.4
Nickel as Ni	ng/m^3	20	5.9	5.1	4.6	4.2	6.2	7.1	6.3	4.8	5.6	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	110	153	106	98	85	139	145	112	108	IS 5182 (PART-10) RA 2019
Ozone as O_3	$\mu g/m^3$	100	2.6	2.3	2.7	2.4	3.8	2.3	3.1	3.8	3.9	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:	2026-08-05
KORBA (C.G.)	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT GUEST HOUSE (CHOTIA -1)

Analysis starting date :- 2026-07-06 **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 : Guest House (Chotia - 1)									
Sampling Date			2026-07-01	2026-07-04	2026-07-08	2026-07-10	2026-07-14	2026-07-16	2026-07-20	2026-07-22	2026-07-27	Method
Sulphur Dioxide as SO_2	µg/m³	80	11.1	9.2	10.2	11.2	8.8	10.3	9.3	9.6	8.4	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m³	80	12.7	11.6	12.5	12.8	10.1	11.5	11.4	10.8	10.4	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m³	100	47.8	48.8	45.1	46.9	47.3	42.4	38.6	48.3	43.9	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m³	60	17.3	19.5	16.8	16.5	20.2	15.0	11.9	17.1	14.6	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m³	400	1.2	1.3	0.7	1.1	0.9	1.1	0.9	1.2	2.1	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	4.6	5.3	4.2	5.9	6.4	5.3	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	120	112	96	137	98	97	106	125	83	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m³	100	3.3	2.5	2.6	2.8	2.3	3.1	4.1	3.1	3.2	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 WEIGH BRIDGE (CHOTIA -1)

Analysis starting date :- 2026-07-06 **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 : Weigh Bridge (Chotia - 1)									
Sampling Date			**2026-07-01**	**2026-07-04**	**2026-07-08**	**2026-07-10**	**2026-07-14**	**2026-07-16**	**2026-07-20**	**2026-07-22**	**2026-07-27**	**Method**
Sulphur Dioxide as SO_2	$\mu g/m^3$	80	9.9	8.5	9.2	10.2	8.6	8.4	8.6	10.6	8.1	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	$\mu g/m^3$	80	11.5	9.9	10.6	12.3	11.7	9.7	10.2	11.3	10.9	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	$\mu g/m^3$	100	47.9	44.2	48.8	49.9	46.4	40.9	48.1	41.5	45.7	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	$\mu g/m^3$	60	16.7	14.8	19.4	17.2	16.1	12.4	18.3	13.6	15.8	IS 5182 (PART-24) 2019
Ammonia as NH_3	$\mu g/m^3$	400	1.6	0.9	0.8	1.2	0.7	1.1	1.2	1.4	1.7	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	4.2	7.1	4.9	6.1	5.9	6.4	6.8	5.6	4.7	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	104	123	82	110	79	95	117	89	92	IS 5182 (PART-10) RA 2019
Ozone as O_3	$\mu g/m^3$	100	2.7	2.8	3.2	2.3	3.1	2.8	3.8	4.1	3.1	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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KORBA (C.G.)	Issue Date:	2026-08-05
	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT BHUJANG VILLAGE (CHOTIA 2)

Analysis starting date :- 2026-07-06 **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 : Bhujang Village - (CHOTIA 2)									
Sampling Date			2026-07-01	2026-07-04	2026-07-08	2026-07-10	2026-07-14	2026-07-16	2026-07-20	2026-07-22	2026-07-27	**Method**
Sulphur Dioxide as SO_2	µg/m³	80	10.9	10.1	8.3	9.8	10.2	11.6	9.1	8.4	11.3	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m³	80	13.1	12.4	10.9	11.4	12.6	13.4	11.3	10.5	13.5	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m³	100	46.9	47.1	48.3	45.7	42.8	46.6	48.1	47.4	50.7	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m³	60	13.8	19.2	16.7	15.1	12.8	16.8	20.7	16.2	18.5	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m³	400	1.4	1.8	1.2	1.1	1.0	1.3	1.8	1.1	2.8	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	5.2	6.6	4.6	6.4	5.2	4.5	5.8	6.1	4.9	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	110	132	89	127	95	78	125	107	91	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m³	100	3.6	3.9	3.1	2.4	3.1	3.2	2.4	4.6	3.9	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:	2026-08-05
KORBA (C.G.)	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT D G SET (CHOTIA - 2)

Analysis starting date :- 2026-07-06

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 : D G SET (Chotia - 2)									
Sampling Date			2026-07-01	2026-07-04	2026-07-08	2026-07-10	2026-07-14	2026-07-16	2026-07-20	2026-07-22	2026-07-27	Method
Sulphur Dioxide as SO_2	µg/m³	80	11.6	9.6	10.3	10.8	11.2	9.4	10.6	8.9	9.6	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m³	80	12.9	11.4	11.6	12.1	12.7	10.8	11.5	10.7	11.3	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m³	100	47.4	48.2	42.9	40.1	46.7	46.5	49.3	45.8	48.1	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m³	60	14.9	19.3	15.7	13.2	16.9	19.3	17.4	15.8	16.7	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m³	400	1.1	1.2	1.5	0.7	0.9	1.9	0.8	1.6	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	4.8	6.7	5.1	3.8	5.4	6.3	4.9	5.2	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	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	µg/m³	2000	97	137	140	122	94	98	89	96	127	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m³	100	3.3	2.4	2.9	3.1	2.4	2.8	3.5	2.4	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,	Report No.:	VLL/VLS/26-27/10232/007
KORBA (C.G.)	Issue Date:	2026-08-05
	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT GOVT SOLAR PANEL (CHOTIA -2)

Analysis starting date :- 2026-07-06 **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 : Govt. Solar Panel (Chotia - 2)									
Sampling Date			2026-07-01	2026-07-04	2026-07-08	2026-07-10	2026-07-14	2026-07-16	2026-07-20	2026-07-22	2026-07-27	**Method**
Sulphur Dioxide as SO_2	µg/m³	80	8.8	11.1	10.4	10.9	10.5	10.9	10.5	9.4	10.9	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m³	80	9.9	13.4	12.7	12.8	11.2	12.7	11.8	11.4	13.2	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m³	100	48.8	46.5	50.7	42.1	40.9	48.3	44.6	47.2	48.8	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m³	60	19.3	15.7	18.2	14.3	12.9	17.3	15.7	16.9	20.3	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m³	400	1.9	1.4	1.4	0.9	1.1	1.6	1.4	1.3	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	5.3	6.5	5.1	6.3	5.7	4.9	4.2	5.7	6.2	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	93	154	102	87	68	91	124	85	75	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m³	100	3.2	2.2	3.8	3.2	2.0	2.4	3.1	4.1	3.2	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:		
M/s. Bharat Aluminium Company Limited, KORBA (C.G.)	Report No.:	VLL/VLS/26-27/10232/008
	Issue Date:	2026-08-05
	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT WEIGH BRIDGE (CHOTIA -2)

Analysis starting date :- 2026-07-06 **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 : Weigh Bridge (Chotia - 2)									
Sampling Date			2026-07-01	2026-07-04	2026-07-08	2026-07-10	2026-07-14	2026-07-16	2026-07-20	2026-07-22	2026-07-27	Method
Sulphur Dioxide as SO_2	µg/m³	80	11.2	9.7	8.4	10.5	8.6	10.2	11.1	9.1	10.4	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m³	80	13.4	11.3	10.7	12.9	10.4	13.2	12.8	12.3	11.9	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m³	100	37.2	45.1	48.6	47.8	45.4	49.3	36.9	44.7	49.2	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m³	60	11.8	16.3	18.5	17.2	14.9	17.4	13.1	15.9	19.6	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m³	400	0.8	0.7	0.9	1.3	1.3	1.6	1.4	0.8	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	5.1	6.3	5.6	4.9	3.7	4.9	5.6	5.1	6.6	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	89	145	130	106	87	92	118	83	90	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m³	100	2.8	2.7	2.8	3.9	2.9	2.4	2.6	3.2	2.9	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 D G SET (CHOTIA 1)

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 : D G SET - (CHOTIA 1)									
Sampling Date			**2026-08-01**	**2026-08-06**	**2026-08-08**	**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	11.2	9.9	9.2	9.2	11.3	10.4	8.4	8.9	8.2	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m³	80	12.9	12.3	10.9	10.8	12.8	12.5	10.6	11.1	10.2	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m³	100	47.8	42.1	44.8	53.2	37.6	51.9	46.1	35.3	54.8	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m³	60	15.7	13.5	14.4	17.6	12.1	17.0	15.3	13.8	18.2	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m³	400	0.8	0.9	1.0	1.1	0.7	0.8	1.2	0.8	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	5.7	3.9	5.1	5.8	6.7	4.5	6.5	6.1	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	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	µg/m³	2000	91	98	110	96	112	124	134	96	120	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m³	100	2.9	2.2	1.6	3.5	2.7	3.1	2.3	2.9	2.0	IS 5182 (PART-9) RA 2019

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

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

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

AMBIENT AIR QUALITY MONITORING AT DHANSAR CAMP (CHOTIA - 1)

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 : Dhansar Camp (Chotia - 1)									
Sampling Date			**2026-08-01**	**2026-08-06**	**2026-08-08**	**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	9.6	8.3	8.8	9.4	9.1	9.5	9.2	8.6	8.4	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m³	80	11.7	10.6	10.5	11.4	11.1	11.5	11.6	10.9	9.4	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m³	100	42.5	39.6	37.4	45.4	48.7	40.2	36.4	47.2	43.9	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m³	60	13.9	12.6	11.8	14.9	16.0	13.5	12.0	15.5	14.6	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m³	400	1.2	0.7	1.2	1.6	1.3	0.9	1.1	0.8	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	4.1	5.7	4.9	5.2	5.8	6.2	6.8	5.6	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	110	63	106	98	95	139	84	112	108	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m³	100	1.9	1.3	2.7	2.9	2.3	2.7	3.2	2.5	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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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 GUEST HOUSE (CHOTIA -1)

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 : Guest House (Chotia - 1)									
Sampling Date			**2026-08-01**	**2026-08-06**	**2026-08-08**	**2026-08-12**	**2026-08-14**	**2026-08-18**	**2026-08-20**	**2026-08-24**	**2026-08-26**	**Method**
Sulphur Dioxide as SO_2	$\mu g/m^3$	80	9.7	8.7	9.6	10.4	9.4	9.4	9.1	9.6	8.9	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	$\mu g/m^3$	80	11.8	10.6	11.9	12.4	11.4	11.3	10.5	11.6	11.2	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	$\mu g/m^3$	100	53.1	38.7	43.9	47.4	36.5	41.8	52.8	46.4	42.9	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	$\mu g/m^3$	60	17.4	12.7	14.5	15.5	12.1	13.7	17.6	15.2	14.3	IS 5182 (PART-24) 2019
Ammonia as NH_3	$\mu g/m^3$	400	0.6	1.2	0.8	1.3	0.9	1.0	1.3	0.8	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	5.4	4.1	5.6	6.2	6.5	5.9	6.1	4.3	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	120	134	96	142	98	97	106	121	130	IS 5182 (PART-10) RA 2019
Ozone as O_3	$\mu g/m^3$	100	3.1	2.8	3.2	4.1	3.1	2.9	3.8	3.7	3.4	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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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 WEIGH BRIDGE (CHOTIA -1)

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 : Weigh Bridge (Chotia - 1)									
Sampling Date			2026-08-01	2026-08-06	2026-08-08	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	10.2	9.1	8.3	9.5	8.4	8.1	8.5	8.7	8.9	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m³	80	12.2	10.4	10.2	11.2	10.5	10.1	10.4	10.7	9.9	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m³	100	45.7	40.8	47.2	53.9	41.6	44.1	39.2	43.8	49.5	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m³	60	15.0	13.4	15.2	17.7	13.2	14.5	12.4	14.6	16.2	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m³	400	1.3	0.7	0.9	1.4	1.2	0.7	1.5	1.1	0.8	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	4.5	6.7	4.1	6.3	5.6	6.6	5.3	5.9	6.0	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	104	91	128	110	83	97	117	89	76	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m³	100	2.6	3.4	2.7	3.2	3.6	1.7	2.2	3.5	3.6	IS 5182 (PART-9) RA 2019

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

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

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ISSUED TO:	Report No.:	VLL/VLS/26-27/13104/005
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 BHUJANG VILLAGE (CHOTIA 2)

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 : Bhujang Village - (CHOTIA 2)									
Sampling Date			**2026-08-01**	**2026-08-06**	**2026-08-08**	**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	9.9	9.7	9.6	9.1	9.2	10.3	10.2	8.7	9.4	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m³	80	12.6	11.3	11.8	10.7	11.4	12.5	12.2	10.7	11.8	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m³	100	46.4	52.8	49.5	45.3	38.2	43.7	50.8	36.9	47.1	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m³	60	15.2	17.5	16.1	15.3	12.5	14.4	16.7	12.1	15.8	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m³	400	1.2	0.9	1.4	0.8	1.5	0.6	0.8	0.9	1.1	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	5.7	5.2	6.7	5.8	4.7	5.2	6.3	4.2	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	110	73	89	120	115	145	68	102	94	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m³	100	3.4	2.2	2.7	1.4	2.6	2.9	2.3	1.5	2.1	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/26-27/13104/006
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 D G SET (CHOTIA - 2)

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 : D G SET (Chotia - 2)									
Sampling Date			2026-08-01	2026-08-06	2026-08-08	2026-08-12	2026-08-14	2026-08-18	2026-08-20	2026-08-24	2026-08-26	Method
Sulphur Dioxide as SO_2	$\mu g/m^3$	80	9.9	9.5	9.6	8.7	10.3	9.3	8.9	8.6	9.8	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	$\mu g/m^3$	80	12.7	11.8	11.7	10.9	11.3	10.7	11.1	9.8	12.3	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	$\mu g/m^3$	100	45.7	42.9	46.3	40.8	37.7	41.4	48.6	45.4	49.2	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	$\mu g/m^3$	60	15.0	13.8	15.2	13.4	12.6	13.7	16.0	14.7	16.5	IS 5182 (PART-24) 2019
Ammonia as NH_3	$\mu g/m^3$	400	1.3	0.9	1.6	1.1	0.7	1.4	1.2	1.0	0.8	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	4.2	6.1	6.7	5.6	5.4	6.1	6.3	4.8	5.9	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	97	137	110	82	135	98	129	96	120	IS 5182 (PART-10) RA 2019
Ozone as O_3	$\mu g/m^3$	100	1.7	2.5	2.0	2.8	1.8	3.4	1.1	2.9	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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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 GOVT SOLAR PANEL (CHOTIA -2)

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 : Govt. Solar Panel (Chotia - 2)									
Sampling Date			2026-08-01	2026-08-06	2026-08-08	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	9.4	10.3	9.6	9.6	8.9	9.7	9.8	9.1	9.9	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m³	80	11.4	12.6	11.5	11.2	10.8	11.8	12.1	11.2	12.4	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m³	100	47.6	44.9	46.1	50.9	43.7	41.4	48.6	37.5	52.1	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m³	60	15.6	13.9	15.1	16.8	14.3	13.3	16.2	12.1	17.5	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m³	400	1.2	0.8	0.7	1.3	0.8	1.1	0.6	0.8	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	4.8	6.9	6.4	5.9	6.1	4.8	5.6	6.7	6.3	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	103	74	102	124	88	118	104	134	92	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m³	100	2.1	1.5	2.4	1.7	2.0	2.8	1.9	2.3	1.6	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:	2026-09-04
KORBA (C.G.)	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT WEIGH BRIDGE (CHOTIA -2)

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 : Weigh Bridge (Chotia - 2)									
Sampling Date			**2026-08-01**	**2026-08-06**	**2026-08-08**	**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	10.6	9.9	10.4	8.8	8.7	9.6	10.6	8.8	9.3	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m³	80	12.8	11.9	12.6	10.4	10.9	11.6	12.7	10.6	11.5	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m³	100	38.7	43.8	48.6	42.9	53.1	47.7	36.9	44.5	51.4	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m³	60	12.7	14.7	16.1	14.4	17.2	15.6	12.3	14.6	17.0	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m³	400	1.4	0.6	1.3	0.9	1.2	0.7	1.0	0.8	1.1	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	6.3	5.9	5.4	7.3	5.6	5.7	4.9	5.1	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	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	µg/m³	2000	89	145	130	106	89	110	138	83	90	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m³	100	1.5	2.0	2.3	1.8	2.4	2.9	2.4	1.3	1.7	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:	2026-10-05
KORBA (C.G.)	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT D G SET (CHOTIA 1)

Analysis starting date :- 2026-09-07 **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 : D G SET - (CHOTIA 1)									
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	10.8	9.6	9.7	10.3	10.9	10.8	8.6	9.2	8.4	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	$\mu g/m^3$	80	12.3	10.9	11.1	11.7	12.4	11.9	10.2	10.5	10.6	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	$\mu g/m^3$	100	46.4	43.2	37.9	41.6	45.3	47.1	39.5	42.9	40.8	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	$\mu g/m^3$	60	17.2	15.7	12.5	14.6	16.3	18.1	13.9	15.0	14.6	IS 5182 (PART-24) 2019
Ammonia as NH_3	$\mu g/m^3$	400	0.6	0.8	0.8	0.9	1.0	0.9	0.7	0.9	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	4.5	4.1	4.6	5.3	5.9	4.7	5.9	5.4	5.1	USEPA IO 3.4
Lead as Pb	$\mu g/m^3$	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	USEPA IO 3.4
Carbon Monoxide as CO	$\mu g/m^3$	2000	85	100	98	86	107	101	120	91	103	IS 5182 (PART-10) RA 2019
Ozone as O_3	$\mu g/m^3$	100	2.7	3.4	3.1	2.9	3.2	2.9	3.2	3.4	3.2	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 DHANSAR CAMP (CHOTIA - 1)

Analysis starting date :- 2026-09-07 **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 : Dhansar Camp (Chotia - 1)									
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	10.1	9.4	9.3	9.6	9.8	9.7	9.9	9.4	8.9	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	$\mu g/m^3$	80	11.4	10.9	10.8	11.1	11.4	11.3	11.2	10.6	10.3	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	$\mu g/m^3$	100	38.4	42.7	47.9	35.2	52.1	45.8	40.6	44.9	54.5	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	$\mu g/m^3$	60	12.4	14.7	16.9	12.4	18.3	16.1	13.8	15.6	19.2	IS 5182 (PART-24) 2019
Ammonia as NH_3	$\mu g/m^3$	400	1.1	0.8	0.9	1.3	0.9	0.8	0.9	1.1	0.9	APHA 3rd Edition - 401
Benzene as C_6H_6	$\mu g/m^3$	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	IS 5182 (PART-11) RA 2017
Benzo(a) Pyrene in particulate phase	ng/m^3	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS 5182 (PART-12) RA 2019
Arsenic as As	ng/m^3	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	USEPA IO 3.4
Nickel as Ni	ng/m^3	20	4.6	5.1	4.5	5.7	5.2	5.7	6.1	5.9	6.2	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	98	71	96	84	78	110	79	102	98	IS 5182 (PART-10) RA 2019
Ozone as O_3	$\mu g/m^3$	100	2.8	2.9	3.2	2.7	3.2	3.4	2.9	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.

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

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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 GUEST HOUSE (CHOTIA -1)

Analysis starting date :- 2026-09-07 **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 : Guest House (Chotia - 1)									
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	10.3	9.4	9.8	10.9	8.9	9.8	9.4	10.4	9.2	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	$\mu g/m^3$	80	12.3	10.8	11.3	10.9	10.2	11.3	11.2	12.1	11.1	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	$\mu g/m^3$	100	43.2	35.6	40.8	47.5	42.1	53.9	41.7	47.8	51.6	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	$\mu g/m^3$	60	15.1	12.7	14.3	16.8	14.6	19.2	14.5	17.1	18.2	IS 5182 (PART-24) 2019
Ammonia as NH_3	$\mu g/m^3$	400	0.8	1.0	0.9	1.1	0.6	0.9	1.1	0.9	0.8	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	4.2	3.8	5.1	5.8	6.1	5.4	5.7	4.8	5.2	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	110	108	115	122	91	90	96	108	112	IS 5182 (PART-10) RA 2019
Ozone as O_3	$\mu g/m^3$	100	2.9	3.1	3.4	3.5	2.8	2.7	3.1	2.8	3.2	IS 5182 (PART-9) RA 2019

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

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

ENVIRONMENT LABORATORY Vimta VIMTA LABS REGD. OFFICE Sr. No.-5 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 WEIGH BRIDGE (CHOTIA -1)

Analysis starting date :- 2026-09-07

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 : Weigh Bridge (Chotia - 1)									
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	10.6	9.1	8.6	9.8	8.9	8.4	8.7	9.3	9.5	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	$\mu g/m^3$	80	11.1	10.6	10.1	11.4	10.3	10.6	10.1	10.8	11.1	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	$\mu g/m^3$	100	47.3	46.1	37.4	42.6	45.8	56.9	48.7	41.5	53.6	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	$\mu g/m^3$	60	16.6	15.8	12.7	14.9	16.1	20.5	17.1	14.5	19.3	IS 5182 (PART-24) 2019
Ammonia as NH_3	$\mu g/m^3$	400	1.1	0.9	0.8	1.2	0.9	0.6	0.9	0.8	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	4.1	5.9	3.6	5.8	4.8	5.3	4.2	5.3	5.5	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	98	96	109	114	101	94	105	90	80	IS 5182 (PART-10) RA 2019
Ozone as O_3	$\mu g/m^3$	100	2.9	3.1	3.4	2.9	3.2	3.3	3.6	3.1	2.9	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/26-27/15382/005
Issue Date:	2026-10-05
P.O.No:	3402001553
P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT BHUJANG VILLAGE (CHOTIA 2)

Analysis starting date :- 2026-09-07

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 : Bhujang Village - (CHOTIA 2)									
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
ulphur Dioxide as SO_2	µg/m³	80	10.5	10.2	9.7	9.5	9.8	10.8	10.6	9.2	9.9	IS 5182 (PART-2) RA 2017
)xides of Nitrogen as IO_2	µg/m³	80	12.2	11.8	11.3	11.1	11.4	12.5	12.3	10.7	11.5	IS 5182 (PART-6) RA 2017
'articulate Matter PM10)	µg/m³	100	49.6	54.2	37.8	43.2	50.1	38.6	56.9	52.7	42.5	IS 5182 (PART-23) RA 2017
articulate Matter PM2.5)	µg/m³	60	17.2	19.5	13.1	15.4	17.2	13.6	20.5	18.6	14.8	IS 5182 (PART-24) 2019
,mmonia as NH_3	µg/m³	400	1.0	0.8	1.2	0.7	0.9	0.8	0.9	1.1	0.9	APHA 3rd Edition - 401
enzene 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
enzo(a) Pyrene in articulate 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
rsenic 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
ickel as Ni	ng/m³	20	5.2	5.1	4.8	6.4	5.2	5.3	5.6	5.9	5.7	USEPA IO 3.4
ead 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
arbon Monoxide as O	µg/m³	2000	103	68	76	96	101	123	78	97	78	IS 5182 (PART-10) RA 2019
zone as O_3	µg/m³	100	3.1	2.7	2.9	3.3	3.1	2.7	3.2	3.1	2.9	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:	2026-10-05
KORBA (C.G.)	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT D G SET (CHOTIA - 2)

Analysis starting date :- 2026-09-07 **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 : D G SET (Chotia - 2)									
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	10.5	9.8	10.2	9.2	10.9	9.4	9.5	9.2	10.4	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	$\mu g/m^3$	80	12.4	11.6	12.1	10.7	12.5	11.1	11.2	10.6	12.1	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	$\mu g/m^3$	100	37.5	44.2	47.8	39.1	52.6	45.3	48.9	34.8	45.4	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	$\mu g/m^3$	60	13.5	15.6	17.4	14.2	19.5	14.6	18.2	12.7	16.4	IS 5182 (PART-24) 2019
Ammonia as NH_3	$\mu g/m^3$	400	1.1	0.8	1.4	1.2	0.8	1.2	0.9	0.6	0.9	APHA 3rd Edition - 401
Benzene as C_6H_6	$\mu g/m^3$	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	IS 5182 (PART-11) RA 2017
Benzo(a) Pyrene in particulate phase	ng/m^3	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS 5182 (PART-12) RA 2019
Arsenic as As	ng/m^3	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	USEPA IO 3.4
Nickel as Ni	ng/m^3	20	4.6	5.8	5.4	4.9	5.1	5.9	5.7	4.9	5.2	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	112	106	77	118	89	110	83	102	IS 5182 (PART-10) RA 2019
Ozone as O_3	$\mu g/m^3$	100	2.9	3.1	2.8	3.2	3.1	2.9	3.3	2.7	3.1	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/26-27/15382/007
KORBA (C.G.)	Issue Date:	2026-10-05
	P.O.No:	3402001553
	P.O. Date:	2025-10-01

AMBIENT AIR QUALITY MONITORING AT GOVT SOLAR PANEL (CHOTIA -2)

Analysis starting date :- 2026-09-07 **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 : Govt. Solar Panel (Chotia - 2)									
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	9.6	11.2	9.8	10.2	9.4	10.5	10.1	9.6	10.6	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	$\mu g/m^3$	80	11.1	12.9	11.3	11.7	10.9	11.9	11.6	11.3	12.2	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	$\mu g/m^3$	100	47.3	45.9	54.2	44.8	37.1	48.6	43.2	50.9	46.4	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	$\mu g/m^3$	60	16.5	15.8	19.1	13.9	11.8	17.1	14.8	18.2	16.3	IS 5182 (PART-24) 2019
Ammonia as NH_3	$\mu g/m^3$	400	1.1	0.7	1.1	1.0	0.6	0.9	0.8	0.7	0.9	APHA 3rd Edition - 401
Benzene as C_6H_6	$\mu g/m^3$	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	IS 5182 (PART-11) RA 2017
Benzo(a) Pyrene in particulate phase	ng/m^3	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	IS 5182 (PART-12) RA 2019
Arsenic as As	ng/m^3	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	USEPA IO 3.4
Nickel as Ni	ng/m^3	20	4.3	5.8	5.6	5.1	5.9	5.2	5.2	6.3	5.9	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	110	82	109	112	93	104	120	105	85	IS 5182 (PART-10) RA 2019
Ozone as O_3	$\mu g/m^3$	100	3.1	3.2	2.1	2.9	2.7	2.6	3.1	3.5	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.

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

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ISSUED TO:	Report No.:	VLL/VLS/26-27/15382/008
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 WEIGH BRIDGE (CHOTIA -2)

Analysis starting date :- 2026-09-07 **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 : Weigh Bridge (Chotia - 2)									
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	11.0	10.4	10.9	9.2	9.1	10.2	10.9	9.3	9.6	IS 5182 (PART-2) RA 2017
Oxides of Nitrogen as NO_2	µg/m³	80	12.3	11.6	12.1	10.3	10.2	11.4	12.2	10.4	10.8	IS 5182 (PART-6) RA 2017
Particulate Matter (PM10)	µg/m³	100	38.5	44.9	49.4	45.1	53.8	46.5	37.2	48.6	43.7	IS 5182 (PART-23) RA 2017
Particulate Matter (PM2.5)	µg/m³	60	13.4	16.2	17.4	15.7	19.2	16.2	13.1	17.5	15.3	IS 5182 (PART-24) 2019
Ammonia as NH_3	µg/m³	400	1.2	0.6	1.1	1.2	0.9	0.8	0.7	0.9	0.7	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	5.2	4.7	4.9	6.2	5.9	6.1	4.2	4.8	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	76	124	110	94	79	93	103	89	74	IS 5182 (PART-10) RA 2019
Ozone as O_3	µg/m³	100	3.1	2.7	2.9	3.1	3.1	3.4	3.5	2.9	3.4	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.

ENVIRONMENT LABORATORY VIMTA LABS VIMTA

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