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

BALCO/ENV/A-02(A)/2025/510 Date:01.11.2025

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-2025 to September-2025) 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-2025 to September-2025 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,

Colliery Manager
Chotia II OC Coal Mine

Colliery Manager
Chotia - II OC Coal Mine
Bharat Aluminium Co. Ltd

(Authorized Signatory)

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

Annexure-I

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d/c

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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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=75b2cbb5fc1f0d788780d06fd2462f9, 2.5.4.20=4178e88e82e4bc43614aac7b75f61dceb2e404b474862f6e1da83b3a067db4f9, postalCode=834009, st=Jharkhand, serialNumber=ae63fd7777c9b4ec100e8f6d698fa84ab37b28adb71e499d628b052172ade6c, cn=AMIT KUMAR DUBEY
Date: 2024.09.02 11:58:09 +05'30'

For, Bharat Aluminium Company Limited

Authorised Signatory

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

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.**

Saurabh Pandey 01/09/2024

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

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/25-26/02532/001**
Issued Date	:	**2025-05-05**
P.O. No.	:	**8500005780**
P.O. Date	:	**2022-06-29**

SAMPLE PARTICULARS : GROUND WATER SAMPLES (CHOTIA MINES)

Sample Registration Date	:	2025-04-10	Sampling Date	:	2025-04-03
Analysis Starting Date	:	2025-04-10	Analysis Completion Date	:	2025-04-25
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	6.87	7.24	7.19
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	1.3	1.7	1.2	1.1
6	Total dissolved solids at 180°C	mg/l	500(2000)	146	194	167	134	121
7	Total Hardness as $CaCO_3$	mg/l	200(600)	86	102	87	76	69
8	Total Alkalinity as $CaCO_3$	mg/l	200(600)	40	50	45	50	45
9	Calcium as Ca	mg/l	75(200)	18.6	21.5	17.6	16.5	15.6
10	Magnesium as Mg	mg/l	30(100)	9.7	11.7	10.5	8.4	7.3
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)	0.011	0.013	0.028	0.024	0.031
13	Chlorides as Cl	mg/l	250(1000)	51.5	67.8	58.6	38.6	34.9
14	Sulphates as SO_4	mg/l	200(400)	8.7	12.3	11	5.3	4.8
15	Fluorides as F	mg/l	1.0(1.5)	0.128	0.167	0.145	0.136	0.153
16	Nitrates as NO_3	mg/l	45(NR)	2.1	3.4	1.6	1.5	1.1
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 330 Sr. No.-5

Dr. Subba Reddy Mallampati
Manager - Environment

Vimta Labs Limited
Registered Office
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Hyderabad-500 051,Telangana, India
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BALCO
KORBA
Chhattisgarh

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P.O. No.	:	**8500005780**
P.O. Date	:	**2022-06-29**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (CHOTIA MINES)**

Sample Registration Date	:	2025-04-10	Sampling Date	:	2025-04-03
Analysis Starting Date	:	2025-04-10	Analysis Completion Date	:	2025-04-25
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)	<0.01	<0.01	<0.01	<0.01	<0.01
26	Molybdenum as Mo	mg/l	0.07(NR)	<0.01	<0.01	<0.01	<0.01	<0.01
27	Nickel as Ni	mg/l	0.02(NR)	<0.01	<0.01	<0.01	<0.01	<0.01
28	Iron as Fe	mg/l	0.3(NR)	0.014	0.035	0.027	0.021	0.043
29	Total Chromium as Cr	mg/l	0.05(NR)	<0.05	<0.05	<0.05	<0.05	<0.05
30	Selenium as Se	mg/l	0.05(NR)	<0.01	<0.01	<0.01	<0.01	<0.01
31	Zinc as Zn	mg/l	5.0(15)	0.015	0.043	0.036	0.047	0.022
32	Aluminum as Al	mg/l	0.03(0.2)	<0.01	0.016	0.024	0.018	0.036
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)	0.011	0.023	0.019	0.026	0.022
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

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

Name and Designation of Authorized Signatory
Dr. Subba Reddy Mallampati
Manager - Environment

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ISSUED TO:

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

Report Number	:	**VLL/VLS/25-26/02532/001**
Issued Date	:	**2025-05-05**
P.O. No.	:	**8500005780**
P.O. Date	:	**2022-06-29**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (CHOTIA MINES)**

Sample Registration Date	:	2025-04-10	Sampling Date	:	2025-04-03
Analysis Starting Date	:	2025-04-10	Analysis Completion Date	:	2025-04-25
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

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

Dr. Subba Reddy Mallampati
Manager - Environment

Vimta Labs Limited
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Report Number	:	**VLL/VLS/25-26/02532/001**
Issued Date	:	**2025-05-05**
P.O. No.	:	**8500005780**
P.O. Date	:	**2022-06-29**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (CHOTIA MINES)**

Sample Registration Date	:	2025-04-10	Sampling Date	:	2025-04-03
Analysis Starting Date	:	2025-04-10	Analysis Completion Date	:	2025-04-25
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 330(NB) Sr. No.-5 VIMTA

Dr. Subba Reddy Mallampati
Manager - Environment

Vimta Labs Limited
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ISSUED TO:

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

Report Number	:	**VLL/VLS/25-26/04458/001**
Issued Date	:	**2025-06-04**
P.O. No.	:	**8500005780**
P.O. Date	:	**2022-06-29**

SAMPLE PARTICULARS : GROUND WATER SAMPLES (CHOTIA MINES)

Sample Registration Date	:	2025-05-08	Sampling Date	:	2025-05-05
Analysis Starting Date	:	2025-05-08	Analysis Completion Date	:	2025-05-26
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)	7.24	7.03	6.97	7.33	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)	<1.0	1.6	1.9	1	<1.0
6	Total dissolved solids at 180°C	mg/l	500(2000)	161	210	182	146	133
7	Total Hardness as $CaCO_3$	mg/l	200(600)	84	112	94	83	79
8	Total Alkalinity as $CaCO_3$	mg/l	200(600)	45	70	60	55	50
9	Calcium as Ca	mg/l	75(200)	19.5	23.6	18.2	17.6	16.8
10	Magnesium as Mg	mg/l	30(100)	8.6	12.8	11.7	9.5	8.9
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)	<0.01	0.017	0.034	0.012	0.015
13	Chlorides as Cl	mg/l	250(1000)	56.4	63.3	54.7	39.8	38.4
14	Sulphates as SO_4	mg/l	200(400)	6.4	9.7	8.5	5.2	3.5
15	Fluorides as F	mg/l	1.0(1.5)	0.098	0.154	0.254	0.176	0.129
16	Nitrates as NO_3	mg/l	45(NR)	1.8	2.7	2.5	1.9	1.3
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 3300 Sr. No.-5 VIMTA

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ISSUED TO:

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

Report Number	:	**VLL/VLS/25-26/04458/001**
Issued Date	:	**2025-06-04**
P.O. No.	:	**8500005780**
P.O. Date	:	**2022-06-29**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (CHOTIA MINES)**

Sample Registration Date	:	2025-05-08	Sampling Date	:	2025-05-05
Analysis Starting Date	:	2025-05-08	Analysis Completion Date	:	2025-05-26
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)	<0.01	<0.01	<0.01	<0.01	<0.01
26	Molybdenum as Mo	mg/l	0.07(NR)	<0.01	<0.01	<0.01	<0.01	<0.01
27	Nickel as Ni	mg/l	0.02(NR)	<0.01	<0.01	<0.01	<0.01	<0.01
28	Iron as Fe	mg/l	0.3(NR)	0.019	0.026	0.034	0.016	0.032
29	Total Chromium as Cr	mg/l	0.05(NR)	<0.05	<0.05	<0.05	<0.05	<0.05
30	Selenium as Se	mg/l	0.05(NR)	<0.01	<0.01	<0.01	<0.01	<0.01
31	Zinc as Zn	mg/l	5.0(15)	0.012	0.029	0.031	0.039	0.017
32	Aluminum as Al	mg/l	0.03(0.2)	<0.01	0.013	0.015	0.021	0.025
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)	0.008	0.016	0.023	0.018	0.019
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

ENVIRONMENT LABORATORY Vimta VIMTA LABS Sr. No.-5

Name and Designation of Authorized Signatory

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ISSUED TO:

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

Report Number	:	**VLL/VLS/25-26/04458/001**
Issued Date	:	**2025-06-04**
P.O. No.	:	**8500005780**
P.O. Date	:	**2022-06-29**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (CHOTIA MINES)**

Sample Registration Date	:	2025-05-08	Sampling Date	:	2025-05-05
Analysis Starting Date	:	2025-05-08	Analysis Completion Date	:	2025-05-26
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 33004/99 Sr. No.-5

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ISSUED TO:

M/s. Bharat Aluminum Company Limited,
BALCO
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Chhattisgarh

Report Number	:	**VLL/VLS/25-26/04458/001**
Issued Date	:	**2025-06-04**
P.O. No.	:	**8500005780**
P.O. Date	:	**2022-06-29**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (CHOTIA MINES)**

Sample Registration Date	:	2025-05-08	Sampling Date	:	2025-05-05
Analysis Starting Date	:	2025-05-08	Analysis Completion Date	:	2025-05-26
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

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

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ISSUED TO:

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Chhattisgarh

Report Number	:	**VLL/VLS/25-26/06982/001**
Issued Date	:	**2025-07-05**
P.O. No.	:	**8500005780**
P.O. Date	:	**2022-06-29**

SAMPLE PARTICULARS : GROUND WATER SAMPLES (CHOTIA MINES)

Sample Registration Date	:	2025-06-10	Sampling Date	:	2025-06-03
Analysis Starting Date	:	2025-06-10	Analysis Completion Date	:	2025-06-28
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)	7.18	6.98	7.05	7.26	7.34
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	1.5	1.76	1.1	1
6	Total dissolved solids at 180°C	mg/l	500(2000)	154	210	160	120	130
7	Total Hardness as $CaCO_3$	mg/l	200(600)	75	105	82	65	70
8	Total Alkalinity as $CaCO_3$	mg/l	200(600)	40	60	50	50	45
9	Calcium as Ca	mg/l	75(200)	18.4	24.5	17.0	15.5	16.0
10	Magnesium as Mg	mg/l	30(100)	7.4	10.6	9.6	6.3	7.1
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)	0.01	0.026	0.042	0.018	0.013
13	Chlorides as Cl	mg/l	250(1000)	58.2	67.7	49.8	28.2	37.8
14	Sulphates as SO_4	mg/l	200(400)	4.5	8.3	7.8	4.2	4.7
15	Fluorides as F	mg/l	1.0(1.5)	0.075	0.163	0.198	0.143	0.117
16	Nitrates as NO_3	mg/l	45(NR)	1.2	2.6	2.3	1.2	1.3
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 VIMTA LABS REGD. No. TL-3300499 Sr. No.-5

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ISSUED TO:

M/s. Bharat Aluminum Company Limited,
BALCO
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Chhattisgarh

Report Number	:	**VLL/VLS/25-26/06982/001**
Issued Date	:	**2025-07-05**
P.O. No.	:	**8500005780**
P.O. Date	:	**2022-06-29**

SAMPLE PARTICULARS : GROUND WATER SAMPLES (CHOTIA MINES)

Sample Registration Date	:	2025-06-10	Sampling Date	:	2025-06-03
Analysis Starting Date	:	2025-06-10	Analysis Completion Date	:	2025-06-28
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)	<0.01	0.01	0.01	<0.01	<0.01
26	Molybdenum as Mo	mg/l	0.07(NR)	<0.01	<0.01	<0.01	<0.01	<0.01
27	Nickel as Ni	mg/l	0.02(NR)	<0.01	<0.01	<0.01	<0.01	<0.01
28	Iron as Fe	mg/l	0.3(NR)	0.011	0.018	0.025	0.015	0.027
29	Total Chromium as Cr	mg/l	0.05(NR)	<0.05	<0.05	<0.05	<0.05	<0.05
30	Selenium as Se	mg/l	0.05(NR)	<0.01	<0.01	<0.01	<0.01	<0.01
31	Zinc as Zn	mg/l	5.0(15)	<0.01	0.034	0.029	0.022	0.019
32	Aluminum as Al	mg/l	0.03(0.2)	<0.01	0.013	0.015	0.021	0.025
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)	0.007	0.019	0.027	0.011	0.015
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

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

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ISSUED TO:

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

Report Number	:	**VLL/VLS/25-26/06982/001**
Issued Date	:	**2025-07-05**
P.O. No.	:	**8500005780**
P.O. Date	:	**2022-06-29**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (CHOTIA MINES)**

Sample Registration Date	:	2025-06-10	Sampling Date	:	2025-06-03
Analysis Starting Date	:	2025-06-10	Analysis Completion Date	:	2025-06-28
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

ENVIRONMENT LABORATORY Vimta VIMTA LABS REGD. No- DL33004/99 Sr. No.-5

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BALCO
KORBA
Chhattisgarh

Report Number	:	**VLL/VLS/25-26/06982/001**
Issued Date	:	**2025-07-05**
P.O. No.	:	**8500005780**
P.O. Date	:	**2022-06-29**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (CHOTIA MINES)**

Sample Registration Date	:	2025-06-10	Sampling Date	:	2025-06-03
Analysis Starting Date	:	2025-06-10	Analysis Completion Date	:	2025-06-28
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-2004/99 Sr. No.-9

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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/25-26/09740/001**
Issued Date	:	**2025-08-05**
P.O. No.	:	**8500005780**
P.O. Date	:	**2022-06-29**

SAMPLE PARTICULARS : GROUND WATER SAMPLES (CHOTIA MINES)

Sample Registration Date : 2025-07-07 Sampling Date : 2025-07-02
Analysis Starting Date : 2025-07-07 Analysis Completion Date : 2025-07-26
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)	7.32	7.34	7.24	7.14	7.69
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	1.1	1.64	1.3	1.1
6	Total dissolved solids at 180°C	mg/l	500(2000)	169	234	181	132	142
7	Total Hardness as $CaCO_3$	mg/l	200(600)	79	116	89	69	73
8	Total Alkalinity as $CaCO_3$	mg/l	200(600)	43	64	56	57	48
9	Calcium as Ca	mg/l	75(200)	19.2	28.1	19.3	48.3	18.6
10	Magnesium as Mg	mg/l	30(100)	8.1	15.6	8.7	7.2	7.6
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)	0.024	0.031	0.051	0.022	0.018
13	Chlorides as Cl	mg/l	250(1000)	56.4	64.8	45.3	32.7	36.1
14	Sulphates as SO_4	mg/l	200(400)	4.1	7.6	7.5	4.1	4.5
15	Fluorides as F	mg/l	1.0(1.5)	0.064	0.152	0.168	0.137	0.124
16	Nitrates as NO_3	mg/l	45(NR)	1.4	2.1	2.6	1.4	1.5
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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Report Number	:	**VLL/VLS/25-26/09740/001**
Issued Date	:	**2025-08-05**
P.O. No.	:	**8500005780**
P.O. Date	:	**2022-06-29**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (CHOTIA MINES)**

Sample Registration Date	:	2025-07-07	Sampling Date	:	2025-07-02
Analysis Starting Date	:	2025-07-07	Analysis Completion Date	:	2025-07-26
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)	<0.01	0.01	0.01	<0.01	<0.01
26	Molybdenum as Mo	mg/l	0.07(NR)	<0.01	<0.01	<0.01	<0.01	<0.01
27	Nickel as Ni	mg/l	0.02(NR)	<0.01	<0.01	<0.01	<0.01	<0.01
28	Iron as Fe	mg/l	0.3(NR)	0.018	0.027	0.029	0.017	0.025
29	Total Chromium as Cr	mg/l	0.05(NR)	<0.05	<0.05	<0.05	<0.05	<0.05
30	Selenium as Se	mg/l	0.05(NR)	<0.01	<0.01	<0.01	<0.01	<0.01
31	Zinc as Zn	mg/l	5.0(15)	<0.01	0.027	0.024	0.028	0.027
32	Aluminum as Al	mg/l	0.03(0.2)	<0.01	0.018	0.019	0.018	0.029
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)	0.011	0.023	0.014	0.021	0.018
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 LABORATORY Vimta VIMTA LABS REGD. No: DL 3150/99 Sr. No. VIMTA

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ISSUED TO:

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BALCO
KORBA
Chhattisgarh

Report Number	:	**VLL/VLS/25-26/09740/001**
Issued Date	:	**2025-08-05**
P.O. No.	:	**8500005780**
P.O. Date	:	**2022-06-29**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (CHOTIA MINES)**

Sample Registration Date	:	2025-07-07	Sampling Date	:	2025-07-02
Analysis Starting Date	:	2025-07-07	Analysis Completion Date	:	2025-07-26
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 Limited REGD. No- DL 33004/99 Sr. No.-5

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ISSUED TO:

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Chhattisgarh

Report Number	:	**VLL/VLS/25-26/09740/001**
Issued Date	:	**2025-08-05**
P.O. No.	:	**8500005780**
P.O. Date	:	**2022-06-29**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (CHOTIA MINES)**

Sample Registration Date	:	2025-07-07	Sampling Date	:	2025-07-02
Analysis Starting Date	:	2025-07-07	Analysis Completion Date	:	2025-07-26
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 REGD. No- DL 33004/99 Sr. No.-5 VIMTA

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Report Number	:	**VLL/VLS/25-26/11867/001**
Issued Date	:	**2025-09-04**
P.O. No.	:	**8500005780**
P.O. Date	:	**2022-06-29**

SAMPLE PARTICULARS : GROUND WATER SAMPLES (CHOTIA MINES)

Sample Registration Date	:	2025-08-13	Sampling Date	:	2025-08-05
Analysis Starting Date	:	2025-08-13	Analysis Completion Date	:	2025-08-30
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)	7.24	6.89	7.15	7.34	7.21
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	1.28	<1.0	<1.0
6	Total dissolved solids at 180°C	mg/l	500(2000)	135	176	130	96	112
7	Total Hardness as $CaCO_3$	mg/l	200(600)	67	90	68	55	63
8	Total Alkalinity as $CaCO_3$	mg/l	200(600)	45	55	40	38	40
9	Calcium as Ca	mg/l	75(200)	16.4	21.5	15.3	13.2	14.2
10	Magnesium as Mg	mg/l	30(100)	6.3	8.6	7.3	5.4	6.7
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)	<0.01	0.015	0.034	0.013	0.011
13	Chlorides as Cl	mg/l	250(1000)	41.5	54.2	39.5	22.2	31.4
14	Sulphates as SO_4	mg/l	200(400)	5.6	9.4	6.7	5.3	4.3
15	Fluorides as F	mg/l	1.0(1.5)	0.065	0.121	0.154	0.113	0.094
16	Nitrates as NO_3	mg/l	45(NR)	0.9	1.6	2.7	1.5	1.9
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 VIMTA

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Issued Date	:	**2025-09-04**
P.O. No.	:	**8500005780**
P.O. Date	:	**2022-06-29**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (CHOTIA MINES)**

Sample Registration Date	:	2025-08-13	Sampling Date	:	2025-08-05
Analysis Starting Date	:	2025-08-13	Analysis Completion Date	:	2025-08-30
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)	<0.01	0.02	0.01	0.01	<0.01
26	Molybdenum as Mo	mg/l	0.07(NR)	<0.01	<0.01	<0.01	<0.01	<0.01
27	Nickel as Ni	mg/l	0.02(NR)	<0.01	<0.01	<0.01	<0.01	<0.01
28	Iron as Fe	mg/l	0.3(NR)	0.021	0.037	0.014	0.012	0.033
29	Total Chromium as Cr	mg/l	0.05(NR)	<0.05	<0.05	<0.05	<0.05	<0.05
30	Selenium as Se	mg/l	0.05(NR)	<0.01	<0.01	<0.01	<0.01	<0.01
31	Zinc as Zn	mg/l	5.0(15)	0.01	0.028	0.036	0.012	0.017
32	Aluminum as Al	mg/l	0.03(0.2)	<0.01	0.011	0.018	0.015	0.029
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)	0.012	0.023	0.017	0.015	0.024
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

VIMTA LABS REGD. No- DL 33004/99

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Report Number	:	**VLL/VLS/25-26/11867/001**
Issued Date	:	**2025-09-04**
P.O. No.	:	**8500005780**
P.O. Date	:	**2022-06-29**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (CHOTIA MINES)**

Sample Registration Date	:	2025-08-13	Sampling Date	:	2025-08-05
Analysis Starting Date	:	2025-08-13	Analysis Completion Date	:	2025-08-30
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 RGD. 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/25-26/11867/001**
Issued Date	:	**2025-09-04**
P.O. No.	:	**8500005780**
P.O. Date	:	**2022-06-29**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (CHOTIA MINES)**

Sample Registration Date	:	2025-08-13	Sampling Date	:	2025-08-05
Analysis Starting Date	:	2025-08-13	Analysis Completion Date	:	2025-08-30
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

VIMTA LABS
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Report Number	:	**VLL/VLS/25-26/14073/001**
Issued Date	:	**2025-10-04**
P.O. No.	:	**8500005780**
P.O. Date	:	**2022-06-29**

SAMPLE PARTICULARS : GROUND WATER SAMPLES (CHOTIA MINES)

Sample Registration Date	:	2025-09-09	Sampling Date	:	2025-09-04
Analysis Starting Date	:	2025-09-09	Analysis Completion Date	:	2025-09-24
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)	7.14	6.96	6.84	7.21	7.16
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	1.2	1.16	<1.0	<1.0
6	Total dissolved solids at 180°C	mg/l	500(2000)	116	158	118	86	110
7	Total Hardness as $CaCO_3$	mg/l	200(600)	56	78	64	50	55
8	Total Alkalinity as $CaCO_3$	mg/l	200(600)	40	50	35	30	35
9	Calcium as Ca	mg/l	75(200)	13.5	19.2	14.6	12.2	13.3
10	Magnesium as Mg	mg/l	30(100)	5.3	7.2	6.8	4.7	5.6
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)	<0.01	0.013	0.025	0.011	0.009
13	Chlorides as Cl	mg/l	250(1000)	34.3	47.2	37.4	23.6	32.7
14	Sulphates as SO_4	mg/l	200(400)	4.1	8.3	5.9	4.7	3.2
15	Fluorides as F	mg/l	1.0(1.5)	0.076	0.098	0.121	0.097	0.112
16	Nitrates as NO_3	mg/l	45(NR)	1.3	2.4	3.1	1.1	2.4
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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Chhattisgarh

Report Number	:	**VLL/VLS/25-26/14073/001**
Issued Date	:	**2025-10-04**
P.O. No.	:	**8500005780**
P.O. Date	:	**2022-06-29**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (CHOTIA MINES)**

Sample Registration Date	:	2025-09-09	Sampling Date	:	2025-09-04
Analysis Starting Date	:	2025-09-09	Analysis Completion Date	:	2025-09-24
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)	<0.01	0.01	0.02	<0.01	<0.01
26	Molybdenum as Mo	mg/l	0.07(NR)	<0.01	<0.01	<0.01	<0.01	<0.01
27	Nickel as Ni	mg/l	0.02(NR)	<0.01	<0.01	<0.01	<0.01	<0.01
28	Iron as Fe	mg/l	0.3(NR)	0.016	0.018	0.011	0.021	0.01P7
29	Total Chromium as Cr	mg/l	0.05(NR)	<0.05	<0.05	<0.05	<0.05	<0.05
30	Selenium as Se	mg/l	0.05(NR)	<0.01	<0.01	<0.01	<0.01	<0.01
31	Zinc as Zn	mg/l	5.0(15)	<0.01	0.032	0.045	0.018	0.021
32	Aluminum as Al	mg/l	0.03(0.2)	<0.01	0.008	0.023	0.019	0.033
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)	0.011	0.027	0.015	0.023	0.018
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

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KORBA
Chhattisgarh

Report Number	:	**VLL/VLS/25-26/14073/001**
Issued Date	:	**2025-10-04**
P.O. No.	:	**8500005780**
P.O. Date	:	**2022-06-29**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (CHOTIA MINES)**

Sample Registration Date	:	2025-09-09	Sampling Date	:	2025-09-04
Analysis Starting Date	:	2025-09-09	Analysis Completion Date	:	2025-09-24
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 LAB Vimta VIMTA LABS Sr. No.5 VIMTA

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

Report Number	:	**VLL/VLS/25-26/14073/001**
Issued Date	:	**2025-10-04**
P.O. No.	:	**8500005780**
P.O. Date	:	**2022-06-29**

SAMPLE PARTICULARS : **GROUND WATER SAMPLES (CHOTIA MINES)**

Sample Registration Date	:	2025-09-09	Sampling Date	:	2025-09-04
Analysis Starting Date	:	2025-09-09	Analysis Completion Date	:	2025-09-24
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

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ISSUED TO:	Report No.:	VLL/VLS/25-26/02532/001
M/s. Bharat Aluminium Company Limited,	Issue Date:	2025-05-05
KORBA (C.G.)	P.O.No:	8500005780
	P.O. Date:	2022-06-29

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

Analysis starting date :- 2025-04-05 **Analysis Completion date :- 2025-05-05**

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 1)								
Sampling Date			2025-04-03	2025-04-05	2025-04-09	2025-04-11	2025-04-15	2025-04-17	2025-04-21	2025-04-23	Method
Sulphur Dioxide (SO_2)	µg/m³	80	10.7	11.6	8.3	10.5	9.2	8.6	10.8	11.2	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	12.9	13.8	10.6	12.7	11.6	10.8	12.1	13.5	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	53.8	49.6	59.5	60.4	54.1	47.6	44.9	56.3	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	15.4	14.4	17.2	18.3	15.2	14.2	13.2	15.8	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	1.6	1.1	0.9	1.4	1.3	1.2	1.1	1.4	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	3.4	2.1	2.8	4.2	3.6	4.7	3.2	2.6	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	258	294	328	304	257	248	182	237	NDIR Spectroscopy Method
Ozone	µg/m³	100	2.8	3.1	1.6	2.4	1.9	2.7	2.2	2.6	UV photometric method

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

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ISSUED TO:	Report No.:	VLL/VLS/25-26/02532/002
M/s. Bharat Aluminium Company Limited,	Issue Date:	2025-05-05
KORBA (C.G.)	P.O.No:	8500005780
	P.O. Date:	2022-06-29

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

Analysis starting date :- 2025-04-05 **Analysis Completion date :- 2025-05-05**

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			**2025-04-03**	**2025-04-05**	**2025-04-09**	**2025-04-11**	**2025-04-15**	**2025-04-17**	**2025-04-21**	**2025-04-23**	**Method**
Sulphur Dioxide (SO_2)	µg/m³	80	8.9	7.5	10.1	7.4	8.6	9.4	10.9	9.4	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	11.2	9.8	12.5	9.6	10.9	11.7	13.1	11.8	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	49.4	53.7	50.6	45.1	48.6	56.3	51.8	56.2	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	15.1	17.6	15.5	13.1	13.9	17.2	15.4	17.1	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	0.9	1.3	1.1	0.8	1.0	1.2	1.1	1.5	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	2.8	3.4	3.2	2.8	2.1	3.6	2.9	3.3	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	186	264	301	296	198	252	279	248	NDIR Spectroscopy Method
Ozone	µg/m³	100	2.1	1.5	1.9	2.6	1.7	2.2	1.6	1.8	UV photometric method

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M/s. Bharat Aluminium Company Limited,	Issue Date:	2025-05-05
KORBA (C.G.)	P.O.No:	8500005780
	P.O. Date:	2022-06-29

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

Analysis starting date :- 2025-04-05 **Analysis Completion date :- 2025-05-05**

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 : Guest House (Chotia - 1)								
Sampling Date			**2025-04-03**	**2025-04-05**	**2025-04-09**	**2025-04-11**	**2025-04-15**	**2025-04-17**	**2025-04-21**	**2025-04-23**	**Method**
Sulphur Dioxide (SO_2)	µg/m³	80	11.4	11.0	9.0	11.2	10.4	12.3	10.8	11.9	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	13.7	13.4	11.3	13.7	12.8	14.6	13.1	14.1	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	56.8	53.9	50.8	64.2	48.6	45.2	49.1	55.7	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	17.3	16.0	14.5	20.5	12.0	11.7	13.5	16.5	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	1.1	1.3	1.1	0.8	1.0	0.9	1.2	1.0	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	2.6	3.2	3.6	2.9	2.8	2.7	3.5	3.3	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	237	274	248	219	231	319	377	342	NDIR Spectroscopy Method
Ozone	µg/m³	100	2.5	2.9	3.6	3.1	4.2	2.8	3.3	2.7	UV photometric method

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M/s. Bharat Aluminium Company Limited,	Issue Date:	2025-05-05
KORBA (C.G.)	P.O.No:	8500005780
	P.O. Date:	2022-06-29

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

Analysis starting date :- 2025-04-05 **Analysis Completion date :- 2025-05-05**

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			**2025-04-03**	**2025-04-05**	**2025-04-09**	**2025-04-11**	**2025-04-15**	**2025-04-17**	**2025-04-21**	**2025-04-23**	**Method**
Sulphur Dioxide (SO_2)	µg/m³	80	13.8	11.4	10.8	12.0	13.4	10.9	12.5	11.9	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	15.2	13.6	12.7	14.2	15.6	12.6	14.4	13.8	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	57.3	54.8	61.6	58.2	54.7	63.5	56.9	52.4	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	19.1	15.5	21.5	17.3	14.5	24.1	16.1	14.2	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	1.8	1.4	1.6	2.2	1.5	1.3	1.7	2.1	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	1.8	2.7	3.1	2.9	2.1	2.4	2.8	3.6	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	216	341	287	254	195	319	331	356	NDIR Spectroscopy Method
Ozone	µg/m³	100	3.7	2.2	2.8	3.6	3.1	3.5	2.4	2.3	UV photometric method

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	P.O. Date:	2022-06-29

AMBIENT AIR QUALITY MONITORING AT BHUJANG VILLAGE (CHOTIA 2)

Analysis starting date :- 2025-04-05 **Analysis Completion date :- 2025-05-05**

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			2025-04-03	2025-04-05	2025-04-09	2025-04-11	2025-04-15	2025-04-17	2025-04-21	2025-04-23	**Method**
Sulphur Dioxide (SO_2)	µg/m³	80	9.4	11.2	8.3	10.0	12.2	10.7	9.6	9.3	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	11.7	13.5	10.6	12.2	14.6	12.8	11.9	11.4	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	48.7	39.6	45.2	41.8	47.6	52.3	46.4	43.1	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	13.5	10.6	12.9	11.3	14.4	17.0	15.6	12.5	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	1.0	0.8	0.8	1.2	1.0	1.1	1.2	0.9	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	2.5	1.4	2.2	1.9	3.4	2.8	2.6	3.2	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	169	205	237	248	183	272	259	194	NDIR Spectroscopy Method
Ozone	µg/m³	100	1.5	2.2	2.8	1.8	3.4	1.9	2.7	3.6	UV photometric method

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	P.O. Date:	2022-06-29

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

Analysis starting date :- 2025-04-05 **Analysis Completion date :- 2025-05-05**

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			2025-04-03	2025-04-05	2025-04-09	2025-04-11	2025-04-15	2025-04-17	2025-04-21	2025-04-23	Method
Sulphur Dioxide (SO_2)	µg/m³	80	11.6	9.4	13.7	11.9	12.3	10.2	11.8	12.1	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	13.8	11.5	15.0	13.6	14.8	13.1	13.9	14.3	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	54.3	48.7	51.2	60.4	54.9	57.3	48.4	52.9	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	16.6	14.1	14.8	22.0	16.3	18.2	14.5	16.2	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	1.4	1.1	1.6	1.3	1.1	1.5	1.2	1.6	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	3.1	2.8	2.4	3.6	3.3	2.7	2.9	3.5	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	316	259	274	174	296	328	261	307	NDIR Spectroscopy Method
Ozone	µg/m³	100	3.9	4.2	2.8	2.1	3.4	1.6	2.8	2.6	UV photometric method

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KORBA (C.G.)	P.O.No:	8500005780
	P.O. Date:	2022-06-29

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

Analysis starting date :- 2025-04-05 **Analysis Completion date :- 2025-05-05**

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			**2025-04-03**	**2025-04-05**	**2025-04-09**	**2025-04-11**	**2025-04-15**	**2025-04-17**	**2025-04-21**	**2025-04-23**	**Method**
Sulphur Dioxide (SO_2)	µg/m³	80	11.7	8.4	12.4	9.2	9.5	10.8	9.8	11.4	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	13.5	10.6	14.2	11.5	11.8	12.9	11.6	13.1	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	46.3	50.8	44.1	48.9	43.7	52.1	47.3	43.4	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	12.5	15.6	11.5	16.4	13.6	16.1	13.9	10.9	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	1.2	0.9	1.1	1.0	1.4	1.2	0.8	1.1	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	1.4	3.9	2.5	3.2	2.8	2.6	1.9	3.4	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	273	258	324	308	224	281	376	265	NDIR Spectroscopy Method
Ozone	µg/m³	100	1.3	2.8	2.1	1.5	1.4	2.6	2.2	1.2	UV photometric method

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M/s. Bharat Aluminium Company Limited,	Issue Date:	2025-05-05
KORBA (C.G.)	P.O.No:	8500005780
	P.O. Date:	2022-06-29

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

Analysis starting date :- 2025-04-05 **Analysis Completion date :- 2025-05-05**

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			**2025-04-03**	**2025-04-05**	**2025-04-09**	**2025-04-11**	**2025-04-15**	**2025-04-17**	**2025-04-21**	**2025-04-23**	**Method**
Sulphur Dioxide (SO_2)	µg/m³	80	10.9	13.7	11.7	12.8	10.5	11.4	13.4	12.8	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	13.1	15.2	13.4	14.5	12.6	13.7	14.8	14.2	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	53.7	49.6	61.6	58.6	55.9	52.7	45.8	51.3	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	17.6	18.8	22.8	19.5	16.3	14.2	12.2	14.9	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	1.5	1.2	1.0	1.3	1.1	1.0	1.4	1.3	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	2.7	3.2	4.5	3.7	2.9	3.5	3.3	2.6	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	350	273	168	338	244	347	231	316	NDIR Spectroscopy Method
Ozone	µg/m³	100	3.5	3.1	2.3	2.6	2.2	3.2	2.8	2.1	UV photometric method

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Report No.:	VLL/VLS/25-26/04458/002
Issue Date:	2025-06-04
P.O.No:	8500005780
P.O. Date:	2022-06-29

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

Analysis starting date :- 2025-05-05

Analysis Completion date :- 2025-06-03

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 : Dhansar Camp (Chotia - 1)									
Sampling Date			2025-05-01	2025-05-07	2025-05-09	2025-05-13	2025-05-15	2025-05-19	2025-05-21	2025-05-25	2025-05-27	Method
Sulphur Dioxide (SO_2)	µg/m³	80	7.6	8.7	6.6	7.1	8.6	7.3	7.7	9.3	8.5	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	9.8	11.3	8.9	9.5	10.9	9.8	10.2	12.1	11.9	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	47.5	53.2	44.6	51.8	56.4	52.9	50.6	46.4	49.8	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	13.6	16.4	12.8	15.0	15.1	13.1	12.6	13.9	12.7	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	1.1	0.8	1.0	1.2	1.4	1.0	1.2	1.3	0.9	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	3.8	3.2	2.9	3.6	3.3	2.8	3.1	2.6	3.7	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	252	291	174	218	293	186	264	217	236	NDIR Spectroscopy Method
Ozone	µg/m³	100	1.9	2.4	2.1	1.7	2.7	2.5	1.8	2.2	2.5	UV photometric method

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KORBA (C.G.)	Issue Date:	2025-06-04
	P.O.No:	8500005780
	P.O. Date:	2022-06-29

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

Analysis starting date :- 2025-05-05

Analysis Completion date :- 2025-06-03

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 : D G SET - (CHOTIA 1)									
Sampling Date			**2025-05-01**	**2025-05-07**	**2025-05-09**	**2025-05-13**	**2025-05-15**	**2025-05-19**	**2025-05-21**	**2025-05-25**	**2025-05-27**	**Method**
Sulphur Dioxide (SO_2)	µg/m³	80	9.0	10.2	7.6	9.5	7.3	8.9	9.1	6.3	8.9	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	11.9	14.3	9.2	12.4	8.9	10.5	11.4	8.5	10.4	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	58.9	54.3	48.7	52.1	56.8	68.7	65.2	46.9	42.5	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	16.6	14.2	11.6	13.9	15.7	19.7	17.8	12.2	10.9	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	1.2	1.0	1.1	0.9	1.3	1.5	1.0	1.3	1.1	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	4.2	3.8	3.2	3.6	2.8	4.5	3.7	3.1	3.3	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	187	217	262	193	258	209	174	229	241	NDIR Spectroscopy Method
Ozone	µg/m³	100	3.6	2.4	2.8	3.1	2.8	1.6	3.2	2.9	2.2	UV photometric method

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

Analysis starting date :- 2025-05-05

Analysis Completion date :- 2025-06-03

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 : Guest House (Chotia - 1)									
Sampling Date			2025-05-01	2025-05-07	2025-05-09	2025-05-13	2025-05-15	2025-05-19	2025-05-21	2025-05-25	2025-05-27	Method
Sulphur Dioxide (SO_2)	µg/m³	80	9.1	7.7	7.5	8.1	6.9	8.4	9.7	10.3	10.0	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	11.6	10.3	9.9	10.5	9.2	10.7	11.9	12.8	12.6	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	61.8	59.4	64.8	57.6	53.8	47.3	62.9	50.5	52.1	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	17.2	15.8	19.3	16.4	15.5	12.9	20.3	13.5	14.6	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	0.9	1.1	1.3	1.0	0.8	1.0	0.9	1.2	1.1	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	3.8	4.5	3.3	5.6	4.8	2.7	3.6	4.1	4.6	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	297	262	290	220	193	303	276	228	249	NDIR Spectroscopy Method
Ozone	µg/m³	100	2.1	3.3	3.7	2.6	2.9	3.5	2.4	3.7	3.3	UV photometric method

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

Analysis starting date :- 2025-05-05 **Analysis Completion date :- 2025-06-03**

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			2025-05-01	2025-05-07	2025-05-09	2025-05-13	2025-05-15	2025-05-19	2025-05-21	2025-05-25	2025-05-27	Method
Sulphur Dioxide (SO_2)	µg/m³	80	10.5	8.9	11.6	8.8	9.4	9.0	9.9	12.6	9.7	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	13.2	11.4	13.7	11.3	11.8	11.3	12.5	15.3	13.1	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	57.4	62.8	54.1	68.7	64.1	71.3	63.7	55.6	52.8	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	15.3	18.8	13.2	21.8	19.5	22.8	18.7	15.2	12.7	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	1.2	1.1	1.5	1.2	1.0	1.4	1.1	1.5	1.3	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	3.6	4.2	2.7	4.4	4.7	3.9	3.5	3.2	4.6	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	353	264	299	278	307	281	252	239	334	NDIR Spectroscopy Method
Ozone	µg/m³	100	3.4	2.7	3.6	3.1	2.7	2.5	2.2	3.6	3.2	UV photometric method

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AMBIENT AIR QUALITY MONITORING AT BHUJANG VILLAGE (CHOTIA 2)

Analysis starting date :- 2025-05-05

Analysis Completion date :- 2025-06-03

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			2025-05-01	2025-05-07	2025-05-09	2025-05-13	2025-05-15	2025-05-19	2025-05-21	2025-05-25	2025-05-27	Method
Sulphur Dioxide (SO_2)	µg/m³	80	8.2	7.0	6.4	7.7	8.1	9.7	7.2	9.5	8.6	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	10.6	9.4	8.1	10.6	11.4	12.1	10.3	12.9	11.7	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	52.1	47.4	50.7	54.1	46.8	50.7	53.2	49.6	45.3	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	14.9	12.3	14.4	15.7	12.6	14.4	15.0	13.5	12.6	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	0.9	1.2	1.0	0.8	1.1	1.0	0.9	0.8	1.0	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	3.7	3.2	4.6	3.9	3.5	3.1	3.4	2.9	3.3	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	263	294	216	238	227	194	268	201	259	NDIR Spectroscopy Method
Ozone	µg/m³	100	2.6	2.3	1.9	2.5	2.4	2.1	2.9	2.3	2.5	UV photometric method

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	P.O. Date:	2022-06-29

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

Analysis starting date :- 2025-05-05

Analysis Completion date :- 2025-06-03

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			2025-05-01	2025-05-07	2025-05-09	2025-05-13	2025-05-15	2025-05-19	2025-05-21	2025-05-25	2025-05-27	Method
Sulphur Dioxide (SO_2)	µg/m³	80	9.5	10.7	8.6	7.4	8.3	10.6	9.0	11.3	10.5	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	11.9	13.1	11.7	10.3	10.9	12.8	11.6	13.9	12.5	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	56.3	48.2	51.7	59.4	49.2	57.8	52.1	45.4	47.3	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	18.2	15.2	15.5	20.6	13.8	16.9	15.1	12.5	13.1	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	1.2	1.5	1.2	0.8	1.1	1.5	1.3	1.7	1.4	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	3.1	2.8	2.4	3.6	3.3	2.7	2.9	3.5	3.5	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	295	323	223	274	319	241	195	283	262	NDIR Spectroscopy Method
Ozone	µg/m³	100	3.2	2.7	2.4	3.6	3.1	2.8	1.5	2.4	2.9	UV photometric method

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

Analysis starting date :- 2025-05-05

Analysis Completion date :- 2025-06-03

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 : Govt. Solar Panel (Chotia - 2)									
Sampling Date			2025-05-01	2025-05-07	2025-05-09	2025-05-13	2025-05-15	2025-05-19	2025-05-21	2025-05-25	2025-05-27	**Method**
Sulphur Dioxide (SO_2)	µg/m³	80	7.1	8.1	6.3	7.1	8.4	7.3	6.8	8.2	7.5	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	9.5	10.6	8.9	9.4	10.6	9.8	9.3	11.2	10.8	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	43.8	54.1	47.3	44.7	50.9	53.7	57.2	42.8	46.9	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	13.4	16.6	14.1	13.0	13.4	14.9	16.9	10.7	13.6	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	1.1	0.8	1.0	0.9	1.4	1.2	0.9	1.2	1.0	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	1.4	3.9	2.5	3.2	2.8	2.6	1.9	3.4	3.4	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	179	256	210	199	168	258	219	242	287	NDIR Spectroscopy Method
Ozone	µg/m³	100	1.9	2.2	1.6	2.5	2.3	1.9	3.2	2.6	1.8	UV photometric method

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

Analysis starting date :- 2025-05-05 **Analysis Completion date :- 2025-06-03**

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			2025-05-01	2025-05-07	2025-05-09	2025-05-13	2025-05-15	2025-05-19	2025-05-21	2025-05-25	2025-05-27	Method
Sulphur Dioxide (SO_2)	µg/m³	80	9.2	10.7	9.2	8.7	8.5	9.5	7.4	8.1	9.7	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	11.7	13.2	11.9	11.3	10.8	12.2	9.7	10.5	12.3	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	56.8	60.2	54.7	48.3	51.8	57.4	53.9	47.9	45.2	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	18.5	21.5	17.2	14.6	16.4	18.0	15.9	12.8	14.2	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	1.3	1.1	1.5	1.2	0.9	1.2	1.0	1.4	1.2	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	4.3	3.9	3.5	4.6	4.2	3.7	4.1	4.6	3.8	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	331	266	293	241	255	286	259	319	273	NDIR Spectroscopy Method
Ozone	µg/m³	100	2.6	3.2	2.5	2.9	3.1	2.7	2.3	2.9	2.4	UV photometric method

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

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M/s. Bharat Aluminium Company Limited,	Issue Date:	2025-07-05
KORBA (C.G.)	P.O.No:	8500005780
	P.O. Date:	2022-06-29

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

Analysis starting date :- 2025-06-09 **Analysis Completion date :- 2025-07-04**

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			**2025-06-03**	**2025-06-06**	**2025-06-10**	**2025-06-13**	**2025-06-17**	**2025-06-20**	**2025-06-23**	**2025-06-26**	**Method**
Sulphur Dioxide (SO_2)	µg/m³	80	8.5	9.6	8.1	7.3	9.2	6.8	7.4	8.5	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	10.9	12.6	10.2	9.8	11.3	9.5	10.2	11.6	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	52.1	56.3	50.9	53.4	48.6	51.2	47.7	49.5	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	14.2	16.8	12.9	13.4	12.3	15.7	12.6	14.8	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	1.1	1.3	1.4	1.2	1.0	1.1	1.1	1.2	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	5.2	4.9	4.2	4.3	3.8	5.1	3.9	4.8	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	192	201	177	164	243	174	158	189	NDIR Spectroscopy Method
Ozone	µg/m³	100	2.8	1.9	2.2	2.6	1.4	3.1	2.7	2.4	UV photometric method

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

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M/s. Bharat Aluminium Company Limited,	Report No.:	VLL/VLS/25-26/06982/002
KORBA (C.G.)	Issue Date:	2025-07-05
	P.O.No:	8500005780
	P.O. Date:	2022-06-29

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

Analysis starting date :- 2025-06-09

Analysis Completion date :- 2025-07-04

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			2025-06-03	2025-06-06	2025-06-10	2025-06-13	2025-06-17	2025-06-20	2025-06-23	2025-06-26	Method
Sulphur Dioxide (SO_2)	µg/m³	80	8.2	6.9	7.1	7.8	6.6	7.4	8.5	6.4	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	10.8	9.3	9.5	10.6	9.3	10.8	11.4	9.1	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	46.9	51.6	53.9	48.4	42.9	48.3	45.1	43.7	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	12.7	14.3	16.2	13.1	10.9	12.4	13.7	11.6	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	0.9	1.0	1.1	1.0	0.8	1.2	1.0	0.8	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	5.1	4.9	4.4	5.3	4.7	4.3	3.9	4.6	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	182	177	163	191	154	149	168	181	NDIR Spectroscopy Method
Ozone	µg/m³	100	1.6	1.2	2.3	1.5	1.8	2.2	1.9	1.7	UV photometric method

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M/s. Bharat Aluminium Company Limited,	Issue Date:	2025-07-05
KORBA (C.G.)	P.O.No:	8500005780
	P.O. Date:	2022-06-29

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

Analysis starting date :- 2025-06-09

Analysis Completion date :- 2025-07-04

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			2025-06-03	2025-06-06	2025-06-10	2025-06-13	2025-06-17	2025-06-20	2025-06-23	2025-06-26	Method
Sulphur Dioxide (SO_2)	µg/m³	80	8.5	7.6	9.2	6.6	7.4	10.6	9.6	11.3	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	11.4	9.8	11.5	9.2	9.8	13.2	11.9	14.5	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	56.3	52.9	54.7	49.3	51.6	47.2	45.9	48.7	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	17.3	13.8	16.1	12.1	15.1	13.7	11.8	14.6	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	1.3	1.1	1.2	1.1	0.9	1.0	1.1	1.3	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	5.2	4.9	3.4	4.8	3.9	4.1	5.4	4.6	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	224	198	253	219	183	205	174	191	NDIR Spectroscopy Method
Ozone	µg/m³	100	3.6	2.8	2.4	3.3	2.9	3.1	2.5	4.2	UV photometric method

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

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	P.O. Date:	2022-06-29

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

Analysis starting date :- 2025-06-09 **Analysis Completion date :- 2025-07-04**

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			2025-06-03	2025-06-06	2025-06-10	2025-06-13	2025-06-17	2025-06-20	2025-06-23	2025-06-26	Method
Sulphur Dioxide (SO_2)	µg/m³	80	8.9	11.3	12.5	10.6	9.4	8.5	10.4	7.9	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	11.5	13.8	15.1	12.8	12.1	11.3	13.8	10.6	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	56.1	49.5	50.8	47.3	43.9	52.1	47.4	45.2	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	17.3	15.3	16.1	12.8	11.6	15.9	12.8	14.2	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	1.1	1.4	1.2	0.8	1.0	1.2	1.0	1.1	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	5.1	4.8	4.4	3.6	4.1	5.8	6.4	4.7	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	218	194	187	205	176	211	193	206	NDIR Spectroscopy Method
Ozone	µg/m³	100	2.6	3.1	2.4	2.7	1.9	2.3	2.8	2.1	UV photometric method

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

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M/s. Bharat Aluminium Company Limited,	Issue Date:	2025-07-05
KORBA (C.G.)	P.O.No:	8500005780
	P.O. Date:	2022-06-29

AMBIENT AIR QUALITY MONITORING AT BHUJANG VILLAGE (CHOTIA 2)

Analysis starting date :- 2025-06-09

Analysis Completion date :- 2025-07-04

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			2025-06-03	2025-06-06	2025-06-10	2025-06-13	2025-06-17	2025-06-20	2025-06-23	2025-06-26	Method
Sulphur Dioxide (SO_2)	µg/m³	80	7.1	9.2	7.5	7.2	6.9	8.3	7.6	9.4	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	9.6	11.4	9.9	9.6	9.1	10.8	10.3	11.9	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	46.8	42.7	49.3	52.6	44.1	37.2	43.7	45.3	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	14.8	11.9	16.1	17.6	13.6	10.8	12.4	15.8	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	1.0	1.0	1.1	1.2	0.9	0.8	1.0	0.8	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	4.6	5.1	4.8	4.1	3.6	3.7	4.5	3.9	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	182	154	211	197	167	178	169	205	NDIR Spectroscopy Method
Ozone	µg/m³	100	3.7	2.8	2.1	1.9	3.5	2.7	2.4	3.3	UV photometric method

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

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M/s. Bharat Aluminium Company Limited,	Issue Date:	2025-07-05
KORBA (C.G.)	P.O.No:	8500005780
	P.O. Date:	2022-06-29

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

Analysis starting date :- 2025-06-09 **Analysis Completion date :- 2025-07-04**

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			2025-06-03	2025-06-06	2025-06-10	2025-06-13	2025-06-17	2025-06-20	2025-06-23	2025-06-26	Method
Sulphur Dioxide (SO_2)	µg/m³	80	8.2	11.3	9.4	7.9	8.4	6.9	7.4	7.1	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	10.6	13.5	11.6	10.5	10.8	9.3	10.2	9.6	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	52.1	48.7	50.4	46.4	43.2	49.2	47.3	53.4	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	17.8	13.8	15.6	12.6	11.9	14.8	12.9	16.1	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	1.3	1.1	1.4	1.0	1.2	1.0	1.1	1.2	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	3.9	4.5	3.7	3.3	3.9	4.6	3.1	4.8	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	234	187	192	251	209	174	214	226	NDIR Spectroscopy Method
Ozone	µg/m³	100	2.4	1.9	1.4	2.5	1.8	1.2	3.6	2.8	UV photometric method

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

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Report No.:	VLL/VLS/25-26/06982/007
Issue Date:	2025-07-05
P.O.No:	8500005780
P.O. Date:	2022-06-29

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

Analysis starting date :- 2025-06-09

Analysis Completion date :- 2025-07-04

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			2025-06-03	2025-06-06	2025-06-10	2025-06-13	2025-06-17	2025-06-20	2025-06-23	2025-06-26	Method
Sulphur Dioxide (SO_2)	µg/m³	80	8.3	10.4	9.6	8.4	7.7	11.3	8.2	9.8	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	10.6	13.8	11.3	12.8	9.8	13.6	11.1	13.2	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	50.9	53.9	51.6	49.3	47.2	45.6	42.9	46.9	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	14.6	16.8	16.2	15.2	13.8	12.6	11.1	13.1	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	0.9	1.0	1.0	0.8	1.1	1.2	0.9	1.0	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	3.9	4.6	5.2	4.4	5.8	6.3	4.7	3.2	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	254	183	173	226	241	205	196	172	NDIR Spectroscopy Method
Ozone	µg/m³	100	2.3	1.4	1.8	2.1	1.9	2.6	1.5	1.7	UV photometric method

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KORBA (C.G.)	Issue Date:	2025-07-05
	P.O.No:	8500005780
	P.O. Date:	2022-06-29

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

Analysis starting date :- 2025-06-09

Analysis Completion date :- 2025-07-04

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			2025-06-03	2025-06-06	2025-06-10	2025-06-13	2025-06-17	2025-06-20	2025-06-23	2025-06-26	Method
Sulphur Dioxide (SO_2)	µg/m³	80	7.1	9.3	12.1	8.6	10.4	11.3	12.4	9.6	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	9.6	12.5	14.6	10.8	12.9	14.2	14.8	12.1	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	54.8	52.1	49.3	55.6	47.2	50.6	43.8	46.9	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	17.9	15.3	13.9	16.4	12.8	14.1	13.6	14.4	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	1.2	1.0	1.3	1.2	1.0	0.8	0.9	1.2	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	5.1	4.9	3.6	4.7	4.8	5.6	4.4	4.9	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	263	184	217	158	192	218	234	189	NDIR Spectroscopy Method
Ozone	µg/m³	100	1.8	2.4	2.2	1.9	2.5	1.6	2.4	2.7	UV photometric method

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

Analysis starting date :- 2025-07-05 **Analysis Completion date :- 2025-08-04**

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			**2025-07-02**	**2025-07-04**	**2025-07-07**	**2025-07-10**	**2025-07-15**	**2025-07-18**	**2025-07-21**	**2025-07-24**	**2025-07-28**	**Method**
Sulphur Dioxide (SO_2)	µg/m³	80	6.5	8.8	8.1	7.5	7.0	9.7	8.4	7.9	7.6	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	7.7	10.2	10.6	8.9	9.3	12.7	11.6	10.1	9.3	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	47.8	42.6	53.1	47.4	42.9	45.3	38.5	41.2	44.8	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	15.1	13.7	19.6	17.4	15.3	15.3	13.0	14.0	10.3	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	0.9	1.2	1.0	0.9	0.8	1.0	0.9	1.1	0.9	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	4.6	3.9	4.2	2.8	3.6	3.2	4.4	2.7	3.8	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	241	159	186	292	314	267	164	228	236	NDIR Spectroscopy Method
Ozone	µg/m³	100	2.6	1.3	1.8	3.2	1.9	2.7	3.3	2.4	3.7	UV photometric method

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

Analysis starting date :- 2025-07-05 **Analysis Completion date :- 2025-08-04**

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 : Guest House (Chotia - 1)									
Sampling Date			**2025-07-02**	**2025-07-04**	**2025-07-07**	**2025-07-10**	**2025-07-15**	**2025-07-18**	**2025-07-21**	**2025-07-24**	**2025-07-28**	**Method**
Sulphur Dioxide (SO_2)	µg/m³	80	8.6	10.4	8.6	6.9	7.6	6.7	9.9	7.4	8.4	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	10.2	12.6	9.4	8.1	9.7	8.3	13.8	10.5	10.7	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	42.1	51.8	54.9	48.5	52.1	50.3	49.2	34.4	45.9	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	12.6	17.0	18.6	11.9	16.2	13.8	14.4	12.4	13.6	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	1.0	1.3	1.1	0.8	1.2	1.0	1.3	1.1	1.0	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	4.1	3.9	4.8	5.3	4.1	3.9	4.4	3.7	3.1	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	213	195	247	280	219	252	183	274	239	NDIR Spectroscopy Method
Ozone	µg/m³	100	2.7	3.8	2.2	2.5	3.4	2.6	2.2	3.1	2.8	UV photometric method

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

Analysis starting date :- 2025-07-05 **Analysis Completion date :- 2025-08-04**

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			**2025-07-02**	**2025-07-04**	**2025-07-07**	**2025-07-10**	**2025-07-15**	**2025-07-18**	**2025-07-21**	**2025-07-24**	**2025-07-28**	**Method**
Sulphur Dioxide (SO_2)	µg/m³	80	9.4	7.5	8.7	10.3	8.9	9.5	7.6	9.1	8.3	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	11.7	9.3	10.6	11.7	9.4	7.9	8.3	11.2	9.6	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	48.8	58.4	51.8	44.3	49.6	46.2	44.8	47.4	50.3	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	14.6	18.8	15.0	12.1	17.5	12.4	13.2	14.9	16.7	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	1.3	1.1	1.2	1.0	0.9	1.1	1.3	1.0	1.1	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	3.6	5.1	3.8	5.9	4.7	4.2	3.9	5.3	3.7	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	273	216	195	255	286	319	285	209	174	NDIR Spectroscopy Method
Ozone	µg/m³	100	4.2	3.9	1.7	3.5	2.8	2.4	4.7	3.1	2.7	UV photometric method

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AMBIENT AIR QUALITY MONITORING AT BHUJANG VILLAGE (CHOTIA 2)

Analysis starting date :- 2025-07-05 **Analysis Completion date :- 2025-08-04**

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			**2025-07-02**	**2025-07-04**	**2025-07-07**	**2025-07-10**	**2025-07-15**	**2025-07-18**	**2025-07-21**	**2025-07-24**	**2025-07-28**	**Method**
Sulphur Dioxide (SO_2)	µg/m³	80	7.3	5.9	9.3	8.7	11.4	8.8	7.2	9.5	8.7	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	9.4	8.6	10.3	9.2	10.6	10.1	9.8	11.5	10.4	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	59.2	41.0	49.1	53.8	49.2	51.7	43.8	55.8	46.7	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	17.7	11.3	14.9	11.4	8.2	11.2	10.2	17.0	12.1	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	1.1	0.8	1.0	0.9	0.9	0.8	1.0	0.9	1.0	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	2.6	3.7	3.2	2.8	4.7	3.4	2.9	4.2	3.1	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	283	179	154	218	247	219	254	186	164	NDIR Spectroscopy Method
Ozone	µg/m³	100	1.9	3.4	2.6	2.5	1.9	3.1	2.8	1.6	2.3	UV photometric method

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

Analysis starting date :- 2025-07-05 **Analysis Completion date :- 2025-08-04**

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			**2025-07-02**	**2025-07-04**	**2025-07-07**	**2025-07-10**	**2025-07-15**	**2025-07-18**	**2025-07-21**	**2025-07-24**	**2025-07-28**	**Method**
Sulphur Dioxide (SO_2)	µg/m³	80	10.4	7.5	10.1	9.5	8.1	9.1	8.7	9.4	7.8	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	9.8	10.1	12.9	10.6	9.2	12.8	11.3	13.1	10.1	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	46.5	53.8	45.8	47.9	43.0	52.1	51.4	40.1	44.3	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	13.8	17.4	13.1	13.0	16.3	15.5	14.9	11.6	12.5	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	0.9	1.3	1.1	1.0	1.2	0.8	1.0	0.9	1.1	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	3.7	4.2	3.1	2.7	2.4	3.6	2.1	3.3	3.2	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	247	164	195	262	186	234	217	223	218	NDIR Spectroscopy Method
Ozone	µg/m³	100	2.8	3.1	3.8	4.6	2.7	4.4	3.9	3.2	2.5	UV photometric method

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

Analysis starting date :- 2025-07-05 **Analysis Completion date :- 2025-08-04**

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 : Govt. Solar Panel (Chotia - 2)									
Sampling Date			**2025-07-02**	**2025-07-04**	**2025-07-07**	**2025-07-10**	**2025-07-15**	**2025-07-18**	**2025-07-21**	**2025-07-24**	**2025-07-28**	**Method**
Sulphur Dioxide (SO_2)	µg/m³	80	9.3	10.1	8.3	6.9	8.1	9.7	10.5	9.8	7.4	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	11.8	13.6	10.1	9.4	10.8	12.4	11.6	12.2	10.9	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	32.8	41.2	48.6	41.9	53.5	45.4	36.1	43.9	40.9	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	11.0	14.5	18.2	13.5	19.0	14.6	11.6	13.5	11.4	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	1.2	1.0	0.9	1.0	0.9	0.8	1.3	1.1	1.0	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	3.8	4.3	2.7	3.6	4.1	3.9	4.4	3.2	2.6	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	259	291	335	178	261	238	274	219	204	NDIR Spectroscopy Method
Ozone	µg/m³	100	2.7	4.1	3.8	3.2	4.7	2.4	3.3	2.9	2.4	UV photometric method

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M/s. Bharat Aluminium Company Limited,	Issue Date:	2025-08-05
KORBA (C.G.)	P.O.No:	8500005780
	P.O. Date:	2022-06-29

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

Analysis starting date :- 2025-07-05 **Analysis Completion date :- 2025-08-04**

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			2025-07-02	2025-07-04	2025-07-07	2025-07-10	2025-07-15	2025-07-18	2025-07-21	2025-07-24	2025-07-28	Method
Sulphur Dioxide (SO_2)	µg/m³	80	8.5	11.3	9.2	8.6	8.4	7.8	9.5	10.5	8.1	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	10.7	12.8	10.6	11.9	11.3	9.7	11.4	12.1	10.6	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	48.3	56.4	43.9	45.8	43.1	56.3	44.9	47.5	50.4	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	13.7	18.8	13.7	15.6	12.5	17.0	12.9	14.5	16.8	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	0.9	1.2	1.0	1.4	1.1	1.3	1.1	1.0	1.2	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	3.4	2.7	4.5	3.9	4.2	3.1	4.7	3.8	3.2	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	281	257	196	262	275	306	227	219	243	NDIR Spectroscopy Method
Ozone	µg/m³	100	3.7	4.2	3.6	3.1	2.8	3.5	4.4	4.1	3.5	UV photometric method

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KORBA (C.G.)	P.O.No:	8500005780
	P.O. Date:	2022-06-29

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

Analysis starting date :- 2025-07-05 **Analysis Completion date :- 2025-08-04**

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			**2025-07-02**	**2025-07-04**	**2025-07-07**	**2025-07-10**	**2025-07-15**	**2025-07-18**	**2025-07-21**	**2025-07-24**	**2025-07-28**	**Method**
Sulphur Dioxide (SO_2)	µg/m³	80	7.6	9.0	7.3	9.7	6.8	7.8	8.2	9.1	10.1	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	10.3	12.1	9.6	11.4	10.1	10.9	12.4	11.7	12.6	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	49.9	47.3	59.6	34.1	43.7	50.4	56.2	51.1	46.3	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	16.5	14.9	19.2	12.0	14.7	16.7	17.0	15.8	12.4	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	0.9	1.1	1.0	0.8	0.9	1.0	1.3	1.1	1.2	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	3.7	5.2	4.1	3.4	2.7	4.6	3.9	5.4	3.2	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	204	162	184	257	239	258	172	263	248	NDIR Spectroscopy Method
Ozone	µg/m³	100	2.7	4.1	2.7	2.2	3.8	2.1	3.6	2.4	4.3	UV photometric method

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	P.O. Date:	2022-06-29

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

Analysis starting date :- 2025-08-06 **Analysis Completion date :- 2025-09-04**

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			**2025-08-01**	**2025-08-05**	**2025-08-08**	**2025-08-11**	**2025-08-14**	**2025-08-18**	**2025-08-21**	**2025-08-25**	**2025-08-27**	**Method**
Sulphur Dioxide (SO_2)	µg/m³	80	5.6	7.9	7.7	8.0	6.4	7.1	7.7	8.1	7.9	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	7.6	9.1	10.3	9.4	9.5	9.9	11.7	10.4	10.1	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	46.3	50.8	44.7	41.9	43.8	48.3	52.9	47.2	54.6	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	14.6	18.6	15.6	12.9	15.4	17.8	20.5	14.6	18.3	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	0.7	1.0	1.1	0.7	0.9	0.7	1.2	0.8	1.0	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	4.1	2.6	3.9	5.2	4.7	4.2	2.8	3.9	4.5	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	203	290	246	294	165	250	195	260	151	NDIR Spectroscopy Method
Ozone	µg/m³	100	1.8	2.4	1.6	3.1	2.8	2.4	1.5	2.2	3.6	UV photometric method

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

Analysis starting date :- 2025-08-06 **Analysis Completion date :- 2025-09-04**

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			**2025-08-01**	**2025-08-05**	**2025-08-08**	**2025-08-11**	**2025-08-14**	**2025-08-18**	**2025-08-21**	**2025-08-25**	**2025-08-27**	**Method**
Sulphur Dioxide (SO_2)	µg/m³	80	7.9	7.5	6.6	8.0	8.4	10.9	9.0	9.7	8.4	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	9.3	8.7	8.6	9.6	11.1	12.4	12.5	12.3	10.6	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	52.9	44.5	50.1	46.9	49.6	46.3	40.4	43.8	45.7	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	19.0	14.6	18.5	17.3	18.5	15.2	11.9	13.4	16.9	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	1.0	1.0	0.8	1.0	1.0	1.1	1.0	1.3	1.2	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	5.2	4.3	4.1	5.7	5.1	4.9	3.3	5.8	4.2	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	188	217	264	192	178	152	184	201	163	NDIR Spectroscopy Method
Ozone	µg/m³	100	4.8	3.1	3.6	2.8	4.4	4.1	3.9	2.7	3.5	UV photometric method

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

Analysis starting date :- 2025-08-06 **Analysis Completion date :- 2025-09-04**

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			**2025-08-01**	**2025-08-05**	**2025-08-08**	**2025-08-11**	**2025-08-14**	**2025-08-18**	**2025-08-21**	**2025-08-25**	**2025-08-27**	**Method**
Sulphur Dioxide (SO_2)	µg/m³	80	9.4	8.7	4.6	5.4	7.9	5.9	10.2	8.9	5.5	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	11.1	10.6	6.3	7.9	10.3	7.8	12.6	10.8	8.3	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	48.3	53.7	50.4	49.3	42.6	46.5	43.8	51.7	47.9	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	15.1	19.7	18.6	16.2	14.6	16.2	12.6	17.1	15.8	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	0.8	1.0	1.3	0.9	1.1	0.7	1.2	1.0	0.8	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	2.7	5.3	4.4	4.9	5.8	3.4	4.1	2.9	5.6	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	225	268	398	234	186	212	182	169	217	NDIR Spectroscopy Method
Ozone	µg/m³	100	3.6	4.1	3.3	3.0	3.8	2.4	3.1	2.4	2.7	UV photometric method

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KORBA (C.G.)	P.O.No:	8500005780
	P.O. Date:	2022-06-29

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

Analysis starting date :- 2025-08-06 **Analysis Completion date :- 2025-09-04**

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			**2025-08-01**	**2025-08-05**	**2025-08-08**	**2025-08-11**	**2025-08-14**	**2025-08-18**	**2025-08-21**	**2025-08-25**	**2025-08-27**	**Method**
Sulphur Dioxide (SO_2)	µg/m³	80	8.1	6.7	7.0	7.3	8.9	9.1	6.8	8.1	7.4	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	11.8	9.1	9.6	10.4	10.6	11.4	8.4	11.6	10.8	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	44.9	48.2	45.1	53.9	46.3	43.8	51.9	55.7	47.1	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	13.9	17.5	15.7	20.8	16.2	14.3	19.1	20.4	16.4	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	0.8	1.0	0.9	1.0	0.7	0.8	1.0	0.9	0.7	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	4.2	3.9	3.1	4.6	4.4	5.8	5.2	4.7	5.6	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	275	214	188	294	181	148	195	237	261	NDIR Spectroscopy Method
Ozone	µg/m³	100	3.1	2.4	2.2	4.6	3.9	4.1	1.5	2.9	3.6	UV photometric method

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M/s. Bharat Aluminium Company Limited,	Issue Date:	2025-09-04
KORBA (C.G.)	P.O.No:	8500005780
	P.O. Date:	2022-06-29

AMBIENT AIR QUALITY MONITORING AT BHUJANG VILLAGE (CHOTIA 2)

Analysis starting date :- 2025-08-06 **Analysis Completion date :- 2025-09-04**

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			2025-08-01	2025-08-05	2025-08-08	2025-08-11	2025-08-14	2025-08-18	2025-08-21	2025-08-25	2025-08-27	**Method**
Sulphur Dioxide (SO_2)	µg/m³	80	6.0	4.9	8.0	6.8	8.9	6.9	6.8	10.6	7.9	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	8.7	7.2	9.8	8.7	10.5	9.2	8.6	12.8	9.6	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	46.3	38.5	40.8	47.9	52.1	49.3	56.7	44.8	42.5	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	14.6	12.4	15.8	17.1	20.5	16.2	22.1	16.8	14.4	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	0.9	0.7	0.8	0.7	1.0	0.6	0.8	0.9	0.8	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	3.8	4.1	4.3	3.6	5.2	5.8	4.4	5.3	4.7	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	189	219	247	191	218	204	227	168	234	NDIR Spectroscopy Method
Ozone	µg/m³	100	3.9	2.4	3.1	1.8	2.7	2.2	3.5	2.6	3.8	UV photometric method

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

Analysis starting date :- 2025-08-06 **Analysis Completion date :- 2025-09-04**

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			2025-08-01	2025-08-05	2025-08-08	2025-08-11	2025-08-14	2025-08-18	2025-08-21	2025-08-25	2025-08-27	Method
Sulphur Dioxide (SO_2)	µg/m³	80	8.1	6.8	9.4	7.5	8.4	7.3	9.2	10.8	8.4	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	10.3	9.1	12.0	10.5	10.3	9.8	12.1	14.8	11.6	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	53.9	56.4	48.7	45.1	49.3	50.7	46.1	42.9	51.2	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	19.8	23.6	16.8	14.9	18.3	17.7	15.1	13.9	16.5	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	0.8	1.0	0.9	0.9	1.0	0.7	0.9	1.0	0.7	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	3.3	5.2	3.9	3.1	4.7	5.1	4.8	3.9	5.5	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	251	275	156	214	189	175	204	144	179	NDIR Spectroscopy Method
Ozone	µg/m³	100	4.2	2.6	3.3	3.5	2.7	2.2	2.9	3.6	4.4	UV photometric method

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	P.O. Date:	2022-06-29

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

Analysis starting date :- 2025-08-06 **Analysis Completion date :- 2025-09-04**

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			**2025-08-01**	**2025-08-05**	**2025-08-08**	**2025-08-11**	**2025-08-14**	**2025-08-18**	**2025-08-21**	**2025-08-25**	**2025-08-27**	**Method**
Sulphur Dioxide (SO_2)	µg/m³	80	8.4	9.3	9.8	7.2	4.8	9.9	9.7	10.1	9.1	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	10.6	12.5	11.9	9.8	6.7	12.7	11.8	13.4	12.8	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	54.3	48.5	52.1	50.9	47.4	53.9	45.4	49.6	42.8	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	19.3	15.9	18.2	16.4	17.3	20.8	14.1	18.6	13.7	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	0.8	0.9	1.1	1.1	0.6	0.9	1.2	1.4	1.0	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	4.2	5.8	5.6	6.3	4.7	3.9	4.4	5.8	5.1	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	288	316	274	258	241	264	185	209	237	NDIR Spectroscopy Method
Ozone	µg/m³	100	3.4	4.5	3.1	2.9	3.8	4.2	3.3	4.9	2.6	UV photometric method

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KORBA (C.G.)	P.O.No:	8500005780
	P.O. Date:	2022-06-29

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

Analysis starting date :- 2025-08-06 **Analysis Completion date :- 2025-09-04**

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			**2025-08-01**	**2025-08-05**	**2025-08-08**	**2025-08-11**	**2025-08-14**	**2025-08-18**	**2025-08-21**	**2025-08-25**	**2025-08-27**	**Method**
Sulphur Dioxide (SO_2)	µg/m³	80	9.2	7.4	8.5	9.2	10.3	7.7	8.3	9.1	8.9	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	11.6	9.8	10.8	12.2	13.6	9.7	11.6	13.0	11.4	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	55.2	51.3	47.6	43.9	50.7	53.6	48.5	46.2	44.9	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	23.2	19.6	15.4	13.8	18.5	20.6	17.9	14.3	16.9	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	1.0	0.8	0.7	0.8	1.0	0.9	0.7	1.0	0.9	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	4.1	3.9	5.2	3.4	4.6	5.8	4.4	3.9	4.8	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	248	188	142	215	246	217	239	254	235	NDIR Spectroscopy Method
Ozone	µg/m³	100	3.4	2.4	3.9	4.1	3.6	4.7	4.2	3.8	3.6	UV photometric method

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	P.O. Date:	2022-06-29

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

Analysis starting date :- 2025-09-08 **Analysis Completion date :- 2025-10-03**

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			**2025-09-02**	**2025-09-05**	**2025-09-08**	**2025-09-11**	**2025-09-16**	**2025-09-19**	**2025-09-23**	**2025-09-26**	**Method**
Sulphur Dioxide (SO_2)	µg/m³	80	8.5	6.8	6.7	7.5	9.1	8.0	6.3	7.3	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	10.2	8.5	9.2	10.6	12.2	11.8	7.6	9.5	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	42.9	49.6	54.2	47.4	50.7	46.1	44.3	52.8	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	13.1	17.4	19.8	14.6	16.9	14.8	12.5	18.3	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	1.4	1.0	1.0	1.3	1.1	1.0	1.2	1.1	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	3.5	4.2	3.3	3.9	2.7	3.2	2.5	3.7	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	174	218	153	197	162	249	205	187	NDIR Spectroscopy Method
Ozone	µg/m³	100	3.0	1.3	1.8	2.2	1.6	2.1	1.9	2.4	UV photometric method

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

Analysis starting date :- 2025-09-08 **Analysis Completion date :- 2025-10-03**

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			**2025-09-02**	**2025-09-05**	**2025-09-08**	**2025-09-11**	**2025-09-16**	**2025-09-19**	**2025-09-23**	**2025-09-26**	**Method**
Sulphur Dioxide (SO_2)	µg/m³	80	8.3	6.7	8.9	7.2	5.8	7.2	9.0	6.6	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	10.7	9.3	11.1	9.6	19.1	9.8	11.4	8.9	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	43.9	46.8	49.2	44.3	38.6	53.2	48.4	41.7	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	14.4	16.3	18.1	15.4	11.7	18.4	16.9	13.8	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	1.3	0.8	1.1	1.0	0.8	1.2	0.9	1.1	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	4.3	5.7	4.1	3.9	4.5	3.8	3.2	4.4	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	258	231	287	185	249	292	213	274	NDIR Spectroscopy Method
Ozone	µg/m³	100	1.4	2.2	1.9	1.1	1.6	1.3	1.7	1.4	UV photometric method

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

Analysis starting date :- 2025-09-08 **Analysis Completion date :- 2025-10-03**

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			2025-09-02	2025-09-05	2025-09-08	2025-09-11	2025-09-16	2025-09-19	2025-09-23	2025-09-26	Method
Sulphur Dioxide (SO_2)	µg/m³	80	7.5	6.5	8.2	7.9	6.4	8.4	6.9	7.2	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	9.8	8.3	11.2	10.5	8.6	10.8	9.2	10.1	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	42.9	37.4	47.8	51.9	56.9	45.4	49.2	52.6	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	12.4	10.8	13.6	15.8	19.7	13.9	15.4	17.2	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	0.9	1.3	1.0	0.8	1.0	1.3	0.8	1.1	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	2.7	4.7	3.3	3.9	5.6	4.2	4.8	3.5	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	225	264	218	259	252	173	237	194	NDIR Spectroscopy Method
Ozone	µg/m³	100	1.7	2.4	2.1	1.5	1.2	1.8	2.3	2.0	UV photometric method

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

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ISSUED TO:		
M/s. Bharat Aluminium Company Limited,	Report No.:	VLL/VLS/25-26/14073/004
KORBA (C.G.)	Issue Date:	2025-10-04
	P.O.No:	8500005780
	P.O. Date:	2022-06-29

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

Analysis starting date :- 2025-09-08 **Analysis Completion date :- 2025-10-03**

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			**2025-09-02**	**2025-09-05**	**2025-09-08**	**2025-09-11**	**2025-09-16**	**2025-09-19**	**2025-09-23**	**2025-09-26**	**Method**
Sulphur Dioxide (SO_2)	µg/m³	80	9.3	11.2	10.6	8.1	10.2	9.6	7.3	10.4	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	11.6	12.9	12.1	10.5	12.4	11.6	8.9	12.8	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	53.9	46.8	49.2	52.9	55.7	45.3	47.1	51.5	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	18.9	14.6	16.1	19.7	21.3	13.8	17.5	19.3	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	1.2	0.9	1.1	1.4	1.0	1.2	1.1	0.8	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	3.7	3.2	4.8	2.6	3.9	4.1	2.5	3.3	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	264	229	169	218	294	257	196	213	NDIR Spectroscopy Method
Ozone	µg/m³	100	2.5	2.1	1.9	1.6	3.2	2.7	2.4	3.3	UV photometric method

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

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M/s. Bharat Aluminium Company Limited,	Issue Date:	2025-10-04
KORBA (C.G.)	P.O.No:	8500005780
	P.O. Date:	2022-06-29

AMBIENT AIR QUALITY MONITORING AT BHUJANG VILLAGE (CHOTIA 2)

Analysis starting date :- 2025-09-08 **Analysis Completion date :- 2025-10-03**

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			2025-09-02	2025-09-05	2025-09-08	2025-09-11	2025-09-16	2025-09-19	2025-09-23	2025-09-26	Method
Sulphur Dioxide (SO_2)	µg/m³	80	6.5	8.1	6.1	5.6	7.3	6.7	8.6	7.3	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	8.7	10.4	9.3	8.1	10.6	11.4	10.9	9.7	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	39.6	53.7	35.2	47.2	50.9	44.9	37.8	48.5	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	12.9	17.6	10.9	16.4	18.7	14.7	11.3	17.7	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	1.2	0.8	1.0	0.7	0.9	1.1	0.8	1.0	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	3.6	5.4	4.7	4.2	3.7	5.5	4.1	4.9	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	258	231	319	226	164	228	194	279	NDIR Spectroscopy Method
Ozone	µg/m³	100	2.7	1.3	1.7	1.4	2.5	2.1	1.9	2.6	UV photometric method

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KORBA (C.G.)	P.O.No:	8500005780
	P.O. Date:	2022-06-29

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

Analysis starting date :- 2025-09-08 **Analysis Completion date :- 2025-10-03**

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			**2025-09-02**	**2025-09-05**	**2025-09-08**	**2025-09-11**	**2025-09-16**	**2025-09-19**	**2025-09-23**	**2025-09-26**	**Method**
Sulphur Dioxide (SO_2)	µg/m³	80	7.9	9.2	8.8	6.4	9.1	7.3	6.4	8.2	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	10.6	11.3	10.7	9.1	11.5	9.8	8.9	10.4	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	52.8	47.4	50.9	48.6	54.1	43.7	51.6	49.2	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	19.3	14.6	17.6	15.9	17.9	13.4	16.9	15.1	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	1.3	1.0	0.9	0.9	0.7	1.0	0.9	1.1	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	4.2	2.8	4.5	3.6	3.2	5.8	3.4	3.7	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	318	287	149	182	238	317	274	249	NDIR Spectroscopy Method
Ozone	µg/m³	100	3.4	2.9	2.3	1.5	2.5	1.9	2.6	2.2	UV photometric method

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M/s. Bharat Aluminium Company Limited,	Issue Date:	2025-10-04
KORBA (C.G.)	P.O.No:	8500005780
	P.O. Date:	2022-06-29

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

Analysis starting date :- 2025-09-08 **Analysis Completion date :- 2025-10-03**

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			2025-09-02	2025-09-05	2025-09-08	2025-09-11	2025-09-16	2025-09-19	2025-09-23	2025-09-26	**Method**
Sulphur Dioxide (SO_2)	µg/m³	80	7.6	6.2	5.9	10.2	9.7	7.5	8.2	6.5	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	10.2	8.7	8.3	12.4	11.6	10.2	11.4	9.8	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	49.4	53.1	45.8	48.3	51.7	56.4	50.9	46.3	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	19.3	21.7	16.1	15.9	18.4	20.5	18.3	17.2	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	1.2	0.8	1.0	0.9	1.1	1.0	1.3	1.0	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	3.7	5.2	4.8	4.2	3.9	2.4	5.3	4.6	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	195	273	308	183	179	234	206	229	NDIR Spectroscopy Method
Ozone	µg/m³	100	2.9	3.4	3.0	2.7	1.4	2.5	3.6	3.2	UV photometric method

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KORBA (C.G.)	Issue Date:	2025-10-04
	P.O.No:	8500005780
	P.O. Date:	2022-06-29

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

Analysis starting date :- 2025-09-08 **Analysis Completion date :- 2025-10-03**

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			2025-09-02	2025-09-05	2025-09-08	2025-09-11	2025-09-16	2025-09-19	2025-09-23	2025-09-26	**Method**
Sulphur Dioxide (SO_2)	µg/m³	80	9.0	6.4	7.0	10.3	9.2	7.6	6.2	8.6	Improved West and Gaeke Method
Nitrogen Dioxide (NO_x)	µg/m³	80	11.4	8.9	9.3	12.5	11.7	9.3	8.8	10.8	Modified Jacob & Hochheiser Method
Particulate Matter (PM10)	µg/m³	100	53.7	47.4	43.1	51.9	45.4	49.3	56.1	48.2	Gravimetric Method
Particulate Matter (PM2.5)	µg/m³	60	19.4	15.6	13.4	17.8	15.8	14.6	18.4	15.9	Gravimetric Method
Ammonia (NH_3)	µg/m³	400	0.8	1.4	1.2	0.9	1.1	0.9	1.5	1.3	Indophenol Blue Method
Benzene (C_6H_6)	µg/m³	5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Benzo(a) Pyrene in particulate phase	ng/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	Solvent Extraction followed by GC Analysis
Arsenic as As	ng/m³	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	AAS/ICP Method
Nickel as Ni	ng/m³	20	5.7	5.2	4.9	4.3	5.4	4.2	3.8	4.6	AAS/ICP Method
Lead as Pb	µg/m³	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	AAS/ICP Method
Carbon Monoxide	µg/m³	2000	293	176	209	256	249	226	287	163	NDIR Spectroscopy Method
Ozone	µg/m³	100	2.7	3.5	3.2	2.9	2.2	3.4	2.8	3.1	UV photometric method

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Report Number: VLL/VLS/25-26/02532/001
Issue Date: 2025-05-05
P.O. No: 8500005780
P.O. Date: 2022-06-29

Sample Particulars: AMBIENT NOISE MONITORING (CHOTIA-1)

Tests required: Sound Level

SAMPLES COLLECTED BY VIMTA LABS LTD **LAB REF.: EC**

TEST RESULTS

S. No	Location	Unit	Norms in dB(Day)	2025-04-12 6:00 to 22.00	Norms in dB(Night)	2025-04-12 22.00 to 6.00
1	Near haul Road	dB	75	48.6	70	40.1
2	Guest House	dB	55	49.3	45	39.5
3	R. P. L. Camp (Work Shop)	dB	75	47.7	70	37.7
4	Chotia Village	dB	55	50.9	45	38.5
5	Near D. G. Room	dB	75	46.3	70	38.7

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Report Number: VLL/VLS/25-26/02532/001
Issue Date: 2025-05-05
P.O. No: 8500005780
P.O. Date: 2022-06-29

Sample Particulars: AMBIENT NOISE MONITORING (CHOTIA-1)

Tests required: Sound Level

SAMPLES COLLECTED BY VIMTA LABS LTD **LAB REF.: EC**

TEST RESULTS

S. No	Location	Unit	Norms in dB(Day)	2025-04-29 6:00 to 22.00	Norms in dB(Night)	2025-04-29 22.00 to 6.00
1	Near haul Road	dB	75	49.3	70	37.1
2	Guest House	dB	55	48.6	45	39.3
3	R. P. L. Camp (Work Shop)	dB	75	47.9	70	36.8
4	Chotia Village	dB	55	47.9	50	37.9
5	Near D. G. Room	dB	75	44.8	70	37.6

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

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Report Number: VLL/VLS/25-26/04458/001
Issue Date: 2025-06-04
P.O. No: 8500005780
P.O. Date: 2022-06-29

Sample Particulars: AMBIENT NOISE MONITORING (CHOTIA-1)

Tests required: Sound Level

SAMPLES COLLECTED BY VIMTA LABS LTD **LAB REF.: EC**

TEST RESULTS

S. No	Location	Unit	Norms in dB(Day)	2025-05-09 6:00 to 22.00	Norms in dB(Night)	2025-05-09 22.00 to 6.00
1	Near haul Road	dB	75	47.4	70	37.6
2	Guest House	dB	55	48.1	45	38.1
3	R. P. L. Camp (Work Shop)	dB	75	47.2	70	37.3
4	Chotia Village	dB	55	49.4	45	39.7
5	Near D. G. Room	dB	75	47.9	70	38.5

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

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Report Number: VLL/VLS/25-26/04458/001
Issue Date: 2025-06-04
P.O. No: 8500005780
P.O. Date: 2022-06-29

Sample Particulars: AMBIENT NOISE MONITORING (CHOTIA-1)

Tests required: Sound Level

SAMPLES COLLECTED BY VIMTA LABS LTD **LAB REF.: EC**

TEST RESULTS

S. No	Location	Unit	Norms in dB(Day)	2025-05-26 6:00 to 22.00	Norms in dB(Night)	2025-05-26 22.00 to 6.00
1	Near haul Road	dB	75	47.8	70	37.6
2	Guest House	dB	55	48.2	45	38.2
3	R. P. L. Camp (Work Shop)	dB	75	46.9	70	37.9
4	Chotia Village	dB	55	48.1	45	38.5
5	Near D. G. Room	dB	75	46.3	70	37.4

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Issue Date: 2025-07-05
P.O. No: 8500005780
P.O. Date: 2022-06-29

Sample Particulars: AMBIENT NOISE MONITORING (CHOTIA-1)

Tests required: Sound Level

SAMPLES COLLECTED BY VIMTA LABS LTD **LAB REF.: EC**

TEST RESULTS

S. No	Location	Unit	Norms in dB(Day)	2025-06-14 6:00 to 22.00	Norms in dB(Night)	2025-06-14 22.00 to 6.00
1	Near haul Road	dB	75	45.6	70	38.4
2	Guest House	dB	55	45.7	45	37.7
3	R. P. L. Camp (Work Shop)	dB	75	46.2	70	38.0
4	Chotia Village	dB	55	47.4	45	38.2
5	Near D. G. Room	dB	75	46.1	70	37.3

ENVIRONMENT LABORATORY Vimta VIMTA LABS VIMTA

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Manager - Environment

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

Report Number: VLL/VLS/25-26/06982/001
Issue Date: 2025-07-05
P.O. No: 8500005780
P.O. Date: 2022-06-29

Sample Particulars: AMBIENT NOISE MONITORING (CHOTIA-1)

Tests required: Sound Level

SAMPLES COLLECTED BY VIMTA LABS LTD **LAB REF.: EC**

TEST RESULTS

S. No	Location	Unit	Norms in dB(Day)	2025-06-24 6:00 to 22.00	Norms in dB(Night)	2025-06-24 22.00 to 6.00
1	Near haul Road	dB	75	46.2	70	38.5
2	Guest House	dB	55	46.1	45	38.1
3	R. P. L. Camp (Work Shop)	dB	75	46.1	70	38.8
4	Chotia Village	dB	55	47.2	45	39.4
5	Near D. G. Room	dB	75	47.6	70	38.9

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

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ISSUED TO

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

Report Number: VLL/VLS/25-26/09740/001
Issue Date: 2025-08-05
P.O. No: 8500005780
P.O. Date: 2022-06-29

Sample Particulars: AMBIENT NOISE MONITORING (CHOTIA-1)

Tests required: Sound Level

SAMPLES COLLECTED BY VIMTA LABS LTD **LAB REF.: EC**

TEST RESULTS

S. No	Location	Unit	Norms in dB(Day)	2025-07-05 6:00 to 22.00	Norms in dB(Night)	2025-07-05 22.00 to 6.00
1	Near haul Road	dB	75	46.2	70	38.2
2	Guest House	dB	55	44.9	45	36.8
3	R. P. L. Camp (Work Shop)	dB	75	46.9	70	38.4
4	Chotia Village	dB	55	46.9	45	36.8
5	Near D. G. Room	dB	75	47.4	70	37.9

ENVIRONMENT LABORATORY Vimta REGD. No- DL33CC4789 Sr. No. 5 VIMTA

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ISSUED TO
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KORBA (C.G)

Report Number: VLL/VLS/25-26/09740/001
Issue Date: 2025-08-05
P.O. No: 8500005780
P.O. Date: 2022-06-29

Sample Particulars: AMBIENT NOISE MONITORING (CHOTIA-1)

Tests required: Sound Level

SAMPLES COLLECTED BY VIMTA LABS LTD **LAB REF.: EC**

TEST RESULTS

S. No	Location	Unit	Norms in dB(Day)	2025-07-29 6:00 to 22.00	Norms in dB(Night)	2025-07-29 22.00 to 6.00
1	Near haul Road	dB	75	47.4	70	37.8
2	Guest House	dB	55	45.8	45	38.4
3	R. P. L. Camp (Work Shop)	dB	75	46.6	70	37.9
4	Chotia Village	dB	55	48.3	45	38.7
5	Near D. G. Room	dB	75	47.2	70	37.4

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

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ISSUED TO

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

Report Number: VLL/VLS/25-26/11867/001
Issue Date: 2025-09-04
P.O. No: 8500005780
P.O. Date: 2022-06-29

Sample Particulars: AMBIENT NOISE MONITORING (CHOTIA-1)

Tests required: Sound Level

SAMPLES COLLECTED BY VIMTA LABS LTD **LAB REF.: EC**

TEST RESULTS

S. No	Location	Unit	Norms in dB(Day)	2025-08-09 6:00 to 22.00	Norms in dB(Night)	2025-08-09 22.00 to 6.00
1	Near haul Road	dB	75	46.1	70	38.3
2	Guest House	dB	55	46.8	45	38.8
3	R. P. L. Camp (Work Shop)	dB	75	47.1	70	37.7
4	Chotia Village	dB	55	48.5	45	37.7
5	Near D. G. Room	dB	75	48.3	70	37.2

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

Dr. Subba Reddy Mallampati
Manager - Environment

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ISSUED TO
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KORBA (C.G)

Report Number: VLL/VLS/25-26/11867/001
Issue Date: 2025-09-04
P.O. No: 8500005780
P.O. Date: 2022-06-29

Sample Particulars: AMBIENT NOISE MONITORING (CHOTIA-1)

Tests required: Sound Level

SAMPLES COLLECTED BY VIMTA LABS LTD **LAB REF.: EC**

TEST RESULTS

S. No	Location	Unit	Norms in dB(Day)	2025-08-27 6:00 to 22.00	Norms in dB(Night)	2025-08-27 22.00 to 6.00
1	Near haul Road	dB	75	46.0	70	38.0
2	Guest House	dB	55	47.3	45	37.3
3	R. P. L. Camp (Work Shop)	dB	75	46.6	70	38.1
4	Chotia Village	dB	55	46.3	45	38.5
5	Near D. G. Room	dB	75	47.5	70	38.7

ENVIRONMENT LABORATORY Vimta VIMTA LABS REGD. No. 0799 Sr. No.-5

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ISSUED TO

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

Report Number: VLL/VLS/25-26/14073/001
Issue Date: 2025-10-04
P.O. No: 8500005780
P.O. Date: 2022-06-29

Sample Particulars: AMBIENT NOISE MONITORING (CHOTIA-1)

Tests required: Sound Level

SAMPLES COLLECTED BY VIMTA LABS LTD **LAB REF.: EC**

TEST RESULTS

S. No	Location	Unit	Norms in dB(Day)	2025-09-11 6:00 to 22.00	Norms in dB(Night)	2025-09-11 22.00 to 6.00
1	Near haul Road	dB	75	46.2	70	38.8
2	Guest House	dB	55	47.0	45	39.7
3	R. P. L. Camp (Work Shop)	dB	75	46.9	70	40.2
4	Chotia Village	dB	55	48.7	45	41.3
5	Near D. G. Room	dB	75	47.9	70	39.1

Dr. Subba Reddy Mallampati
Manager - Environment

Sensitivity: Internal (C3)

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ISSUED TO
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KORBA (C.G)

Report Number: VLL/VLS/25-26/14073/001
Issue Date: 2025-10-04
P.O. No: 8500005780
P.O. Date: 2022-06-29

Sample Particulars: AMBIENT NOISE MONITORING (CHOTIA-1)

Tests required: Sound Level

SAMPLES COLLECTED BY VIMTA LABS LTD **LAB REF.: EC**

TEST RESULTS

S. No	Location	Unit	Norms in dB(Day)	2025-09-24 6:00 to 22.00	Norms in dB(Night)	2025-09-24 22.00 to 6.00
1	Near haul Road	dB	75	46.5	70	39.6
2	Guest House	dB	55	46.0	45	40.8
3	R. P. L. Camp (Work Shop)	dB	75	45.1	70	37.8
4	Chotia Village	dB	55	46.3	45	39.8
5	Near D. G. Room	dB	75	45.7	70	39.7

Dr. Subba Reddy Mallampati
Manager - Environment

Vimta LABS Sr. No.-5 VIMTA