

AAA RESOURCES PRIVATE LIMITED

Registered Office : Industry House, 2nd Floor, 159 Churchgate Reclamation, Mumbai – 400020
Corporate Identity Number (CIN): U13209MH2006PTC160774
Email ID: bathiya.mine@birlacorp.com

No: AAA/Bathiya/MoEFCC/05
20 April 2023

To
The Member Secretary
EAC (Non-Coal Mining)
Ministry of Environment Forest & Climate Change,
3rd Floor, Indira Paryavaran Bhawan
Jorbag Road, Aliganj, New Delhi - 110003

Sub : Bathiya limestone mine of AAA Resources Private Limited for 4.0 Million Tonne Per Annum (MTPA) Limestone, waste/reject: 4.43 MTPA, soil: 0.41 MTPA, total excavation: 8.84 MTPA from mine lease area of 266.302 ha. located at villages - Bathiya, Barahiya, Karaundi, Chapna and Tamoria, Tehsil Maihar, District Satna, Madhya Pradesh (SW No.: SW/103373/2022 and Proposal No. IA/MP/405276/2022) for Environment Clearance.

Ref : ADS raised during 11th EAC (Non-Coal Mining) meeting held on 02 March, 2023

Sir,

With reference captioned subject and reference, additional details have been sought by EAC vide minutes of meeting of 11th EAC (Non-coal mining) held on 02 March 2023. In this regard, we are herewith submitting/uploading point wise response with corresponding enclosures.

Sr. No	Additional Details Sought	Response
1	The Project Proponent needs to submit the action plan to monitor the movement of tigers in the vicinity of the mine lease area and the Project Proponent needs to ensure the tiger corridors passing in the study area from Digital Support System (DSS) available in NTCA website.	Tiger corridor is not passing through the study area as verified from DSS available in NTCA website. PCCF (wildlife and chief wildlife warden, Madhya Pradesh) certified vide letter no. No./B.Pra/Ma.Chi/Mine-85/3211 dated 08-04-2021 that there were no national park,

AAA RESOURCES PRIVATE LIMITED

Registered Office : Industry House, 2nd Floor, 159 Churchgate Reclamation, Mumbai – 400020

Corporate Identity Number (CIN): U13209MH2006PTC160774

Email ID: bathiya.mine@birlacorp.com

Sr. No	Additional Details Sought	Response
		wildlife-sanctuary, elephant/tiger reserves within study area. The action plan to monitor the movement of tigers in the vicinity of the mine lease area and maps prepared by expert ,based on KML file of Protected Areas and Tiger Reserves / Corridors, is attached as Enclosure – 1.
2	The Project Proponent needs to submit the plan to avoid the shifting the proposal for diversion of canal.	Plan to avoid the shifting of canal is attached as Enclosure – 2.
3	The Project Proponent needs to collect one-month fresh baseline data by new EIA consultant to ascertain the ground reality and for revalidation of earlier baseline data.	One-month fresh baseline data by new EIA consultant i.e. Pragathi Labs & Consultants Pvt. Ltd. is attached as Enclosure – 3.
4	The Project Proponent needs to revisit the safety distance of 300m to be left for habitation in consultation with DGMS.	Safety distance is reviewed and revised and detailed note is attached as Enclosure – 4.
5	The Project Proponent needs to submit the action plan for promotion of solar energy in the mine lease area and to the local people and also the action plan to reduce the diesel consumption by deploying CNG/Electric vehicles.	Promotion of solar energy has been initiated. Till date total 60 nos. of solar lights are installed. The action plan for promotion of solar energy in the mine lease area. Action plan to reduce the diesel consumption by deploying CNG / Electric vehicles is attached as Enclosure – 5.
6	The Project Proponent needs to submit an action plan for the purpose of local employment in	The action plan for the purpose of local employment is attached as Enclosure – 6.

AAA RESOURCES PRIVATE LIMITED

Registered Office : Industry House, 2nd Floor, 159 Churchgate Reclamation, Mumbai – 400020

Corporate Identity Number (CIN): U13209MH2006PTC160774

Email ID: bathiya.mine@birlacorp.com

Sr. No	Additional Details Sought	Response
	such a way that atleast one person in PAF's shall get employment.	
7	The Project Proponent needs to submit the timeline for land acquisition for an area of 258.230 ha.	The land will be purchased for mining in phased manner. It is planned to obtain surface rights of the land required for first five year mining operations within two years of start of operation. The balance land will be purchased in phases.
8	The Project Proponent needs to submit time line for installation of crusher plant of 1400 TPH.	The installation of crusher plant of 1400 TPH shall start immediately after obtaining CTE and the installation work shall be completed within 1 year time.
9	The Project Proponent needs to carry out hydrogeology study and indicate location of garland drains, retaining walls and silt check dam.	Detailed hydrogeology study was carried out and report is attached as an Annexure to EIA. A plan indicating location of garland drains, retaining walls and silt check dam is attached as Enclosure – 7 .
10	The Project Proponent needs to obtain permission from CGWA for drawing ground water.	Application to obtain NOC from CGWA is submitted on 15 th November 2022 vide reference no. 21-4/1658/MP/MIN/2022. Water abstraction charge ₹3,09,000/- was paid and application is in final stage of processing at CGWA, HQ. The status of application is attached as Enclosure – 8 .
11	The Project Proponent needs to submit the present status of the court case no: 484 of 2017 pending	The petitioner SNS Minerals has filed a WP no 484 of 2017 before the HC of MP at Jabalpur Bench. The matter is

AAA RESOURCES PRIVATE LIMITED

Registered Office : Industry House, 2nd Floor, 159 Churchgate Reclamation, Mumbai – 400020

Corporate Identity Number (CIN): U13209MH2006PTC160774

Email ID: bathiya.mine@birlacorp.com

Sr. No	Additional Details Sought	Response
	at Hon'ble High Court of Madhya Pradesh.	pending for admission hearing. The matter came for hearing on 30th March 2023. But Petitioner sought time from the court and made oral averments before the court that they want to bring subsequent orders of centre/state on record. Next date of hearing is awaited. The status of the case downloaded from the website of High Court is appended as Enclosure – 09.

We humbly request your kind self to consider Bathiya limestone mining project in the agenda of the upcoming EAC (non-coal) mining meeting and appraise our project for the grant of Environment Clearance.

Thanking You,

Yours sincerely,



Prahlad Kumar Choudhary
(Authorized Signatory)

Enclosures : as above

ADS 1 : The Project Proponent needs to submit the action plan to monitor the movement of tigers in the vicinity of the mine lease area and the Project Proponent needs to ensure the tiger corridors passing in the study area from Digital Support System (DSS) available in NTCA website.

Reply:

Then actual mining site of the proposed Bathiya mine lease area does not form a part of any forest land. The 10 km area from the mining lease will be considered as Zone of Influence. A few forested compartments of the Amarpatan & Maihar Range of Satna Division falling within the 10 km zone of influence. No national park, wildlife sanctuary or tiger reserve is located within it and no wildlife/tiger corridor passes through the 10 km zone of influence. Distance to nearby protected areas as per the kml file obtained from Digital Support System (DSS) available in NTCA website and the spatial data from the Madhya Pradesh Forest Department is as under:

Sr. No.	Description	Distance in KMs
1	Bathiya ML 10 km Zone of Influence – Bandhavgarh Tiger Reserve Buffer Boundary	17.04
2	Bathiya ML 10 km Zone of Influence – Bandhavgarh-Sanjay Dubri Tiger Corridor	28.75
3	Bathiya ML 10 km Zone of Influence – Son Gharial Sanctuary	26.71
4	Bathiya ML 10 km Zone of Influence – Ranipur WLS, Uttar Pradesh	57.75
5	Bathiya ML 10 km Zone of Influence – Panna Tiger Reserve Buffer Boundary	74.58

Table-1: Distance of the protected area and tiger corridors from the Mining Lease

The forested area (compartments) falling within the 10 km Zone of Influence (Study Area) are as under.

Sr. No.	Description of the Study area	Division	Range	Compartment No.
1	10 km- Zone of influence	Satna	Amarpatan	585
2	10 km- Zone of influence	Satna	Amarpatan	587
3	10 km- Zone of influence	Satna	Amarpatan	588
4	10 km- Zone of influence	Satna	Amarpatan	603
5	10 km- Zone of influence	Satna	Amarpatan	604
6	10 km- Zone of influence	Satna	Amarpatan	608
7	10 km- Zone of influence	Satna	Amarpatan	609
8	10 km- Zone of influence	Satna	Amarpatan	610
9	10 km- Zone of influence	Satna	Amarpatan	611
10	10 km- Zone of influence	Satna	Amarpatan	612
11	10 km- Zone of influence	Satna	Amarpatan	613
12	10 km- Zone of influence	Satna	Amarpatan	614
13	10 km- Zone of influence	Satna	Amarpatan	615
14	10 km- Zone of influence	Satna	Amarpatan	616
15	10 km- Zone of influence	Satna	Amarpatan	617
16	10 km- Zone of influence	Satna	Amarpatan	619
17	10 km- Zone of influence	Satna	Amarpatan	620
18	10 km- Zone of influence	Satna	Amarpatan	621
19	10 km- Zone of influence	Satna	Amarpatan	622
20	10 km- Zone of influence	Satna	Amarpatan	618
21	10 km- Zone of influence	Satna	Maihar	471
22	10 km- Zone of influence	Satna	Maihar	472
23	10 km- Zone of influence	Satna	Maihar	547

Sr. No.	Description of the Study area	Division	Range	Compartment No.
24	10 km- Zone of influence	Satna	Maihar	548
25	10 km- Zone of influence	Satna	Maihar	549
26	10 km- Zone of influence	Satna	Maihar	552
27	10 km- Zone of influence	Satna	Maihar	554
28	10 km- Zone of influence	Satna	Maihar	555
29	10 km- Zone of influence	Satna	Maihar	557
30	10 km- Zone of influence	Satna	Maihar	551
31	10 km- Zone of influence	Satna	Maihar	550
32	10 km- Zone of influence	Satna	Maihar	553

Table-1: Details of the forest compartment falling within the 10 km Zone of Influence

Maps showing Protected Areas and Tiger Reserves / Corridor in India as per NTCA are attached. Please refer Map-1 & Map-2.

Location of the proposed Bathiya Mining Lease is also depicted in both maps.

However, as advised by the Hon'ble committee to prepare action plan. The action plan to monitor the movement of tigers with participation of mine staff, workers, JFMC members, students and forest department is prepared by Sh. Ravikant Mishra IFS, CCF(Rtd), Bhopal, which is detailed below .


- ❖ The field data collection and analysis of the same will be done by field experts.
- ❖ Equipment like camera trap, its accessories, binoculars, handheld GPS, mobile phones etc. will be procured and provided.
- ❖ The awareness on wildlife importance and their conservation will be created amongst locals with the help of time-tested means such as Pamphlets distribution and Education Camps etc.

- ❖ Poster presentations, talk show etc. will be organized at school and Gram Panchayat level in the vicinity. Winners & participants will be suitably rewarded for encouragement.
- ❖ Action plan will be implemented through Satna Forest Division.

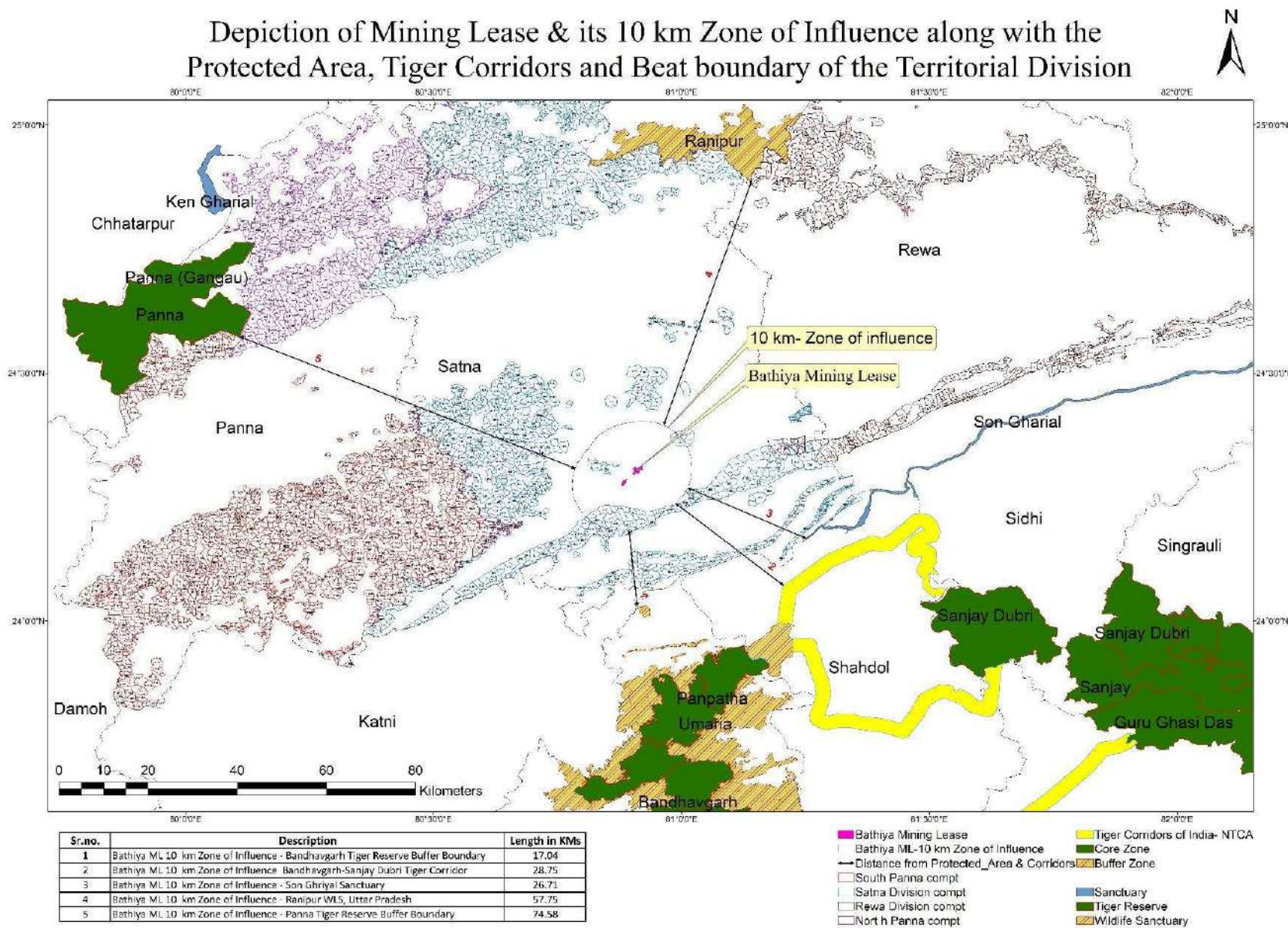
In addition, project proponent will also communicate with local populace and project employees to gather intelligence inputs on presence and or tracking incidental observations of tiger, if any. Information so collected will be shared with forest department.

Financial Outlay (for contribution to Forest Department):

Sr. No.	Item of Work	Amount (Rs. in Lacs)
1	Procurement of Camera Trap(20 nos.)	4.00
2	Procurement of Batteries, Memory Cards, etc for Camera Trap	0.50
3	Procurement of hand held GPS, binoculars	2.00
4	Procurement of Mobile Phone	1.00
5	Creation of pug-mark impression pads in forest roads, near water holes and other places as per requirement.	2.00
6	Awareness generation, workshop of mine staff, workers, JFMC members & students by forest department.	5.00
7	Honorarium and wages for camera installation in field and its data collection and analysis	2.00
	Total	16.50

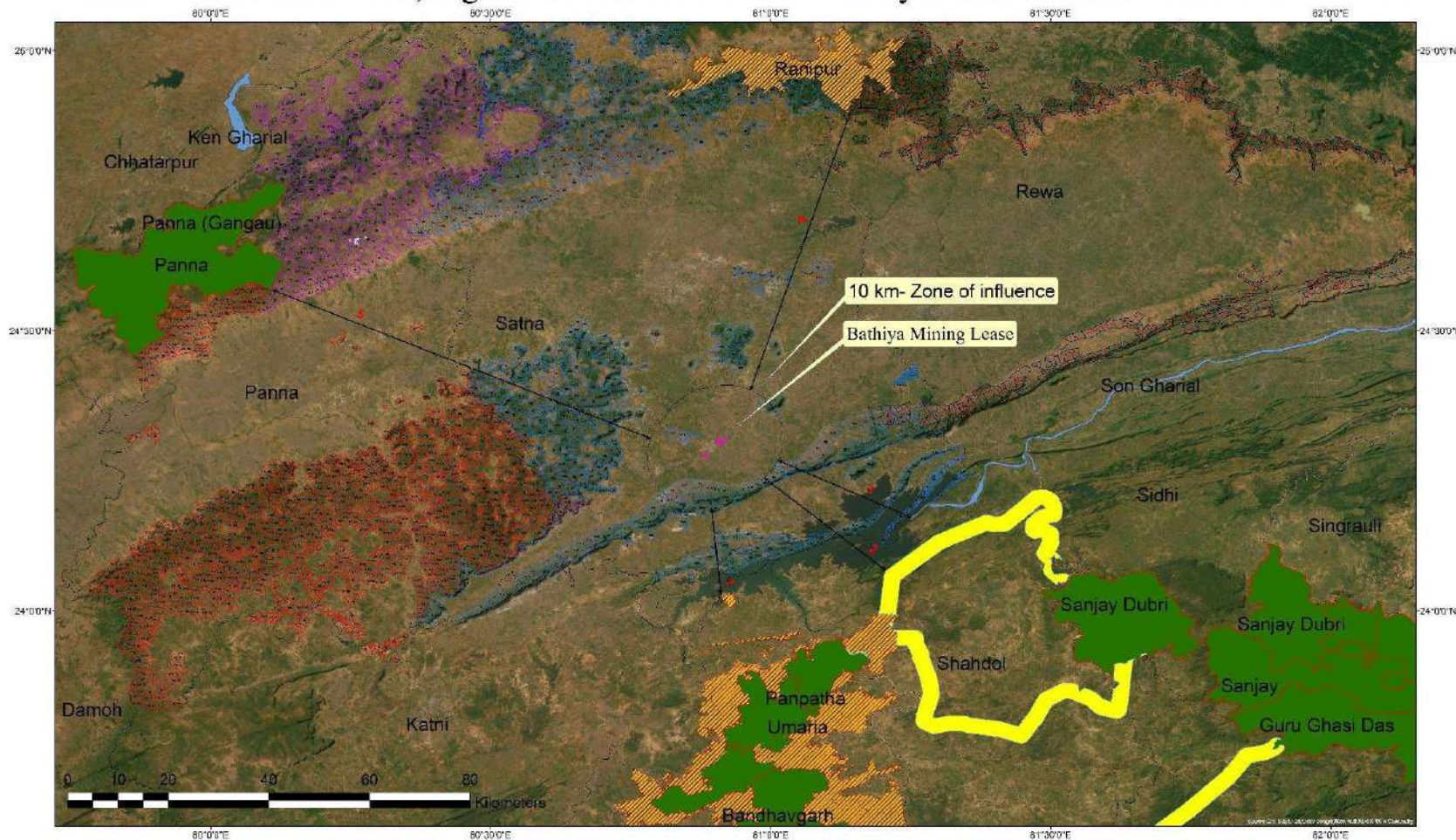

 (Ravikant Mishra) IFS(Retd.) CCF
 PG Diploma in WL Management
 11/05/2023

Depiction of Mining Lease & its 10 km Zone of Influence along with the Protected Area, Tiger Corridors and Beat boundary of the Territorial Division



Map-1: Protected Areas & Tiger Reserves / Corridors in India as per NTCA

Depiction of Mining Lease & its 10 km Zone of Influence along with the Protected Area, Tiger Corridors and Beat boundary of the Territorial Division



Sr.no.	Description	Length in KMs
1	Bathiya ML 10 km Zone of Influence - Bandhavgarh Tiger Reserve Buffer Boundary	17.04
2	Bathiya ML 10 km Zone of Influence - Bandhavgarh-Sanjay Dubri Tiger Corridor	28.75
3	Bathiya ML 10 km Zone of Influence - Son Ghriyal Sanctuary	26.71
4	Bathiya ML 10 km Zone of Influence - Ranipur WLS, Uttar Pradesh	57.75
5	Bathiya ML 10 km Zone of Influence - Panna Tiger Reserve Buffer Boundary	74.58

- Bathiya Mining Lease
- Bathiya ML-10 km Zone of Influence
- Distance from Protected Area & Corridors
- South Panna compt
- Satna Division compt
- Rewa Division compt
- North Panna compt
- Tiger Corridors of India- NTCA
- Core Zone
- Buffer Zone
- Sanctuary
- Tiger Reserve
- Wildlife Sanctuary

Map-2: Protected Areas & Tiger Reserves / Corridors in India as per NTCA - Satellite Image

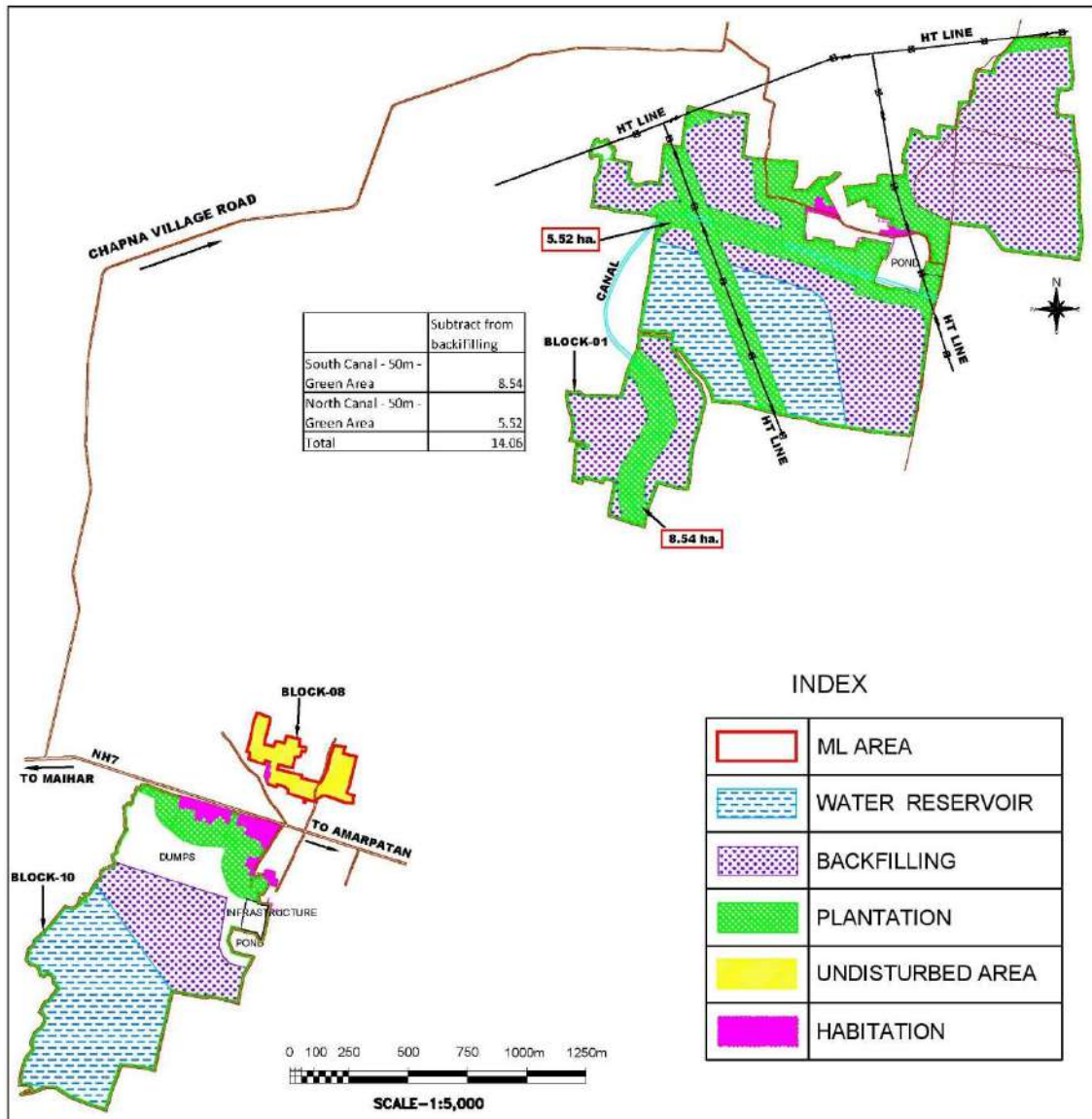
ADS Point No. 02

The Project Proponent needs to submit the plan to avoid the shifting the proposal for diversion of canal

REPLY:

Two small portions of the canal passing through the lease area will not be diverted. A safety barrier of 50 meters on either side of the canal will be left and plantation will be done on the safety barrier.

Accordingly, the modified Conceptual land use map and figures have been updated as given below:



Sr. No.	Land Use Category	Pre-Operational	Operational	Post-Operational
		(Present)	(At the end of 1 st 5 year plan)	(At the end of Life of Mine)
1	Soil Dump Area	0	6.17	0
2	Waste Dump Area	0	11.29	0
3	Storage of sub-grade mineral	0	2.00	0
4	Excavation including protective bund	0.30	31.00	190.26
5	Mine pit Backfilled and utilized for Plantation	0	0	-120.79
6	Mine pit converted to Water Reservoir	0	0	-69.47
7	Public road, Mine road, Cart Track, temple	0.70	2.40	0.78
8	Infrastructure viz Crusher, office and site services	0	5.50	1.20
9	Bund/ Drain/ Canal	1.90	2.05	2.20
10	Built-up area (village)	4.27	4.27	4.27
11	Barrier due to HT line by the side of which green belt will be developed	0	-20.00	-20.00
12	Plantation & Greenbelt on safety barriers, along lease, road, HT line and other areas	0	60.70	60.70
13	Undisturbed area	259.132	154.982	6.892
Total		266.302	266.302	266.302

ENVIRONMENTAL MONITORING REPORT SUMMARY

FOR

the Proposed Bathiya Limestone Mine with Production Capacity of Limestone 4.0 MTPA, waste/reject: 4.43 MTPA, soil: 0.41 MTPA, total excavation: 8.84 MTPA from mine lease area of 266.302 ha. located at villages - Bathiya, Barahiya, Karaundi, Chapna and Tamoria, Tehsil Maihar, District Satna, Madhya Pradesh

ADDITIONAL MONITORING REPORT

Sponsor:

**M/s AAA Resources Private Limited,
2nd Floor, Industry House,
159, Churchgate Reclamation,
Mumbai – 400020, Maharashtra**

Consultant:



PRAGATHI LABS & CONSULTANTS PVT LTD

Phone No: 040-23717213, Email id: info@pragathilabs.com

ENVIRONMENTAL MONITORING TEST REPORT FOR ONE MONTH (MARCH-2023)

FOR

THE PROPOSED BATHIYA LIMESTONE MINE WITH PRODUCTION CAPACITY OF 4.0 MTPA LIMESTONE, WASTE/REJECT: 4.43 MTPA, SOIL: 0.41 MTPA, TOTAL EXCAVATION: 8.84 MTPA FROM MINE LEASE AREA OF 266.302 HA. LOCATED AT VILLAGES BATHIYA, BARAHIYA, KARAUNDI, CHAPNA AND TAMORIA, TEHSIL MAIHAR, DISTRICT SATNA, MADHYA PRADESH

A regional background to the baseline data is being presented at the very outset, which will help in better appreciation of micro-level field data, generated on several environmental and ecological attributes of the study area. Additional One-month Field monitoring studies to evaluate the base line status of the project site were carried out during the period of **09th March 2023 to 09th April, 2023**.

EIA notification requires that 10 km study area surrounding the project site (Mine Lease) shall be covered under the study and the same is denoted as study area. However, as a universally accepted methodology of EIA studies, physical and environmental attributes such as ambient air quality, water quality, soil quality and noise levels have been studied at selective locations representing various land use such as industrial, rural/residential, commercial and sensitive locations including the densely populated areas, agricultural lands, forest lands and other ecologically sensitive areas, if any falling within 10 km study area.

Summary on Environmental Monitoring Report for the Proposed Bathiya Limestone Mine with Production Capacity of Limestone: 4.0 MTPA, waste/reject: 4.43 MTPA, soil: 0.41 MTPA, total excavation: 8.84 MTPA from mine lease area of 266.302 ha. located at villages - Bathiya, Barahiya, Karaundi, Chapna and Tamoria, Tehsil Maihar, District Satna, Madhya Pradesh.

Additional Baseline Monitoring Report

1.0 SUMMARY REPORT OF ONE MONTH MONITORING DATA

1.1 Summary of Ambient Air Quality (AAQ) Data

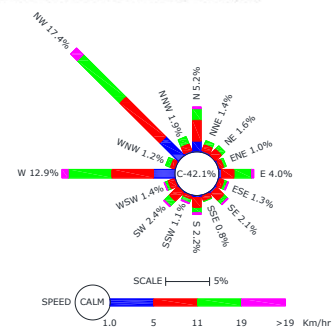
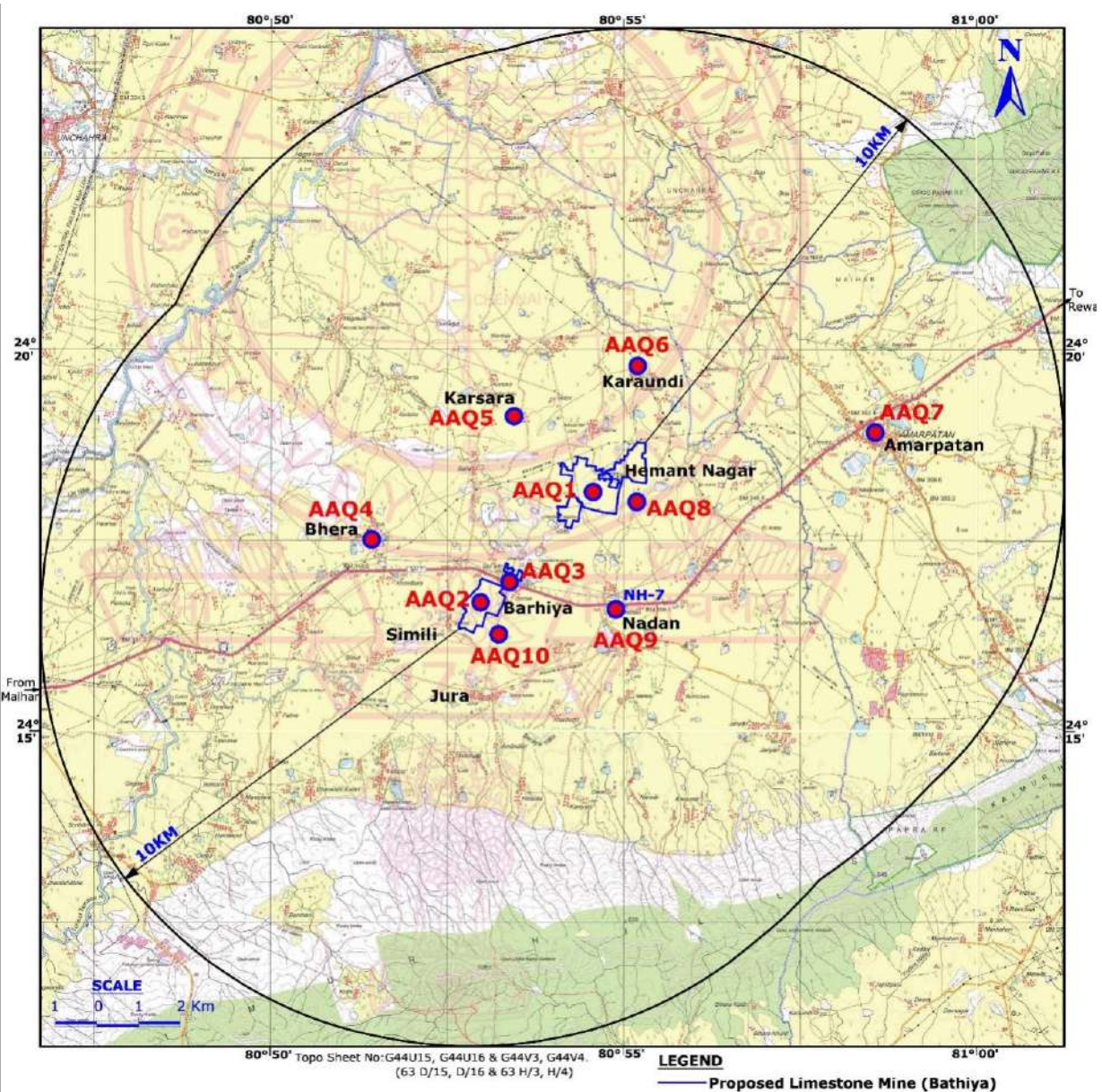
Ambient Air Quality Monitoring (AAQM) stations were set-up at Ten (10) locations. The details of environmental setting around each monitoring station are given in **Table-1**. Detailed test report is provided in **Annexure-I**.

TABLE-1
DETAILS OF AMBIENT AIR QUALITY MONITORING LOCATIONS

Station Code	Name of the Station	Distance (km)	Direction
AAQ1	Mine Area (Block-1)	Core Zone	
AAQ2	Mine Area (Block-10)		
AAQ3	Barhiya	0.1	NE
AAQ4	Bhera	4.6 (Block-10)	NW
AAQ5	Karsara	2.6 (Block-1)	NW
AAQ6	Karaundi	1.6 (Block-1)	N
AAQ7	Amarpatan	5.8 (Block-1)	ENE
AAQ8	Near Hemantnagar	0.3 (Block-1)	E
AAQ9	Nadan	2.3 (Block-8)	ESE
AAQ10	Towards Block 10 near Jura	0.5 (Block-10)	SE

Summary on Environmental Monitoring Report for the Proposed Bathiya Limestone Mine with Production Capacity of Limestone: 4.0 MTPA, waste/reject: 4.43 MTPA, soil: 0.41 MTPA, total excavation: 8.84 MTPA from mine lease area of 266.302 ha. located at villages - Bathiya, Barahiya, Karaundi, Chapna and Tamoria, Tehsil Maihar, District Satna, Madhya Pradesh.

Additional Baseline Monitoring Report



Ambient Air Quality Monitoring Locations

Summary on Environmental Monitoring Report for the Proposed Bathiya Limestone Mine with Production Capacity of Limestone: 4.0 MTPA, waste/reject: 4.43 MTPA, soil: 0.41 MTPA, total excavation: 8.84 MTPA from mine lease area of 266.302 ha. located at villages - Bathiya, Barahiya, Karaundi, Chapna and Tamoria, Tehsil Maihar, District Satna, Madhya Pradesh.

Additional Baseline Monitoring Report

TABLE-2
SUMMARY OF AMBIENT AIR QUALITY RESULTS

(All values are expressed in $\mu\text{g}/\text{m}^3$)

Sr. No	Location	PM ₁₀		PM _{2.5}		SO ₂		NO ₂		CO		O ₃	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
AAQ-1	Mine area	56.8	64.7	31.8	39.5	13.6	15.9	19.1	24.1	356	463	5.5	9.2
AAQ-2	Mine Area (Simili)	42.3	69.3	33.3	39.2	14.6	19.0	20.2	28.2	360	444	4.8	8.7
AAQ-3	Barhiya	45.6	71.8	33.5	41.7	18.5	21.3	19.3	28.3	366	417	7.6	11.0
AAQ-4	Bhera	53.2	66.7	35.2	40.6	14.3	19.6	20.8	27.1	353	431	7.3	9.6
AAQ-5	Karsara	48.2	68.2	35.4	41.2	14.9	16.6	21.1	23.9	389	474	3.1	5.3
AAQ-6	Karaundi	46.2	65.9	29.9	34.7	13.9	15.9	18.2	22.1	395	478	3.7	6.4
AAQ-7	Amarpatan	44.6	71.9	34.4	46.3	14.6	16.9	19.3	24.1	391	466	8.7	12.0
AAQ-8	Near Hemant Nagar	50.9	68.1	40.9	44.5	14.9	15.9	20.4	21.6	352	427	7.5	10.7
AAQ-9	Nadan	61.7	72.6	41.2	44.9	15.2	18.6	20.9	27.5	360	447	8.0	11.8
AAQ-10	Towards Block 10near Jura	56.9	67.2	35.3	39.5	14.2	18.0	20.1	23.7	366	453	3.4	8.6
Range		42.3-72.6		29.9-46.3		13.6-21.3		18.2-28.3		352-478		3.1-12.0	
NAAQ Standards 2009		100		60		80		80		2000		100	

The observations based on a perusal of the results for baseline period March 2023 are summarized below:

Respirable Particulate Matter (PM₁₀)

A maximum value of 72.60 $\mu\text{g}/\text{m}^3$ was observed at Nadan (AAQ9) and minimum value of 42.30 $\mu\text{g}/\text{m}^3$ was observed at Mine Area (Block-10) (AAQ2) that is well within the prescribed limits of CPCB (100 $\mu\text{g}/\text{m}^3$).

Respirable Particulate Matter (PM_{2.5})

A maximum value of 46.30 $\mu\text{g}/\text{m}^3$ was observed at Amarpatan (AAQ7) and minimum value of 29.90 $\mu\text{g}/\text{m}^3$ was observed at Karaundi (AAQ6) that is well within the prescribed limits of CPCB (60 $\mu\text{g}/\text{m}^3$).

Sulphur dioxide (SO₂)

Maximum concentration of SO₂ is observed to be 21.3 $\mu\text{g}/\text{m}^3$ at Barhiya (AAQ3) and minimum value of 13.6 $\mu\text{g}/\text{m}^3$ observed at Mine Area (Block-1) (AAQ1) that is well within the prescribed limits of CPCB standards (80 $\mu\text{g}/\text{m}^3$).

Nitrogen Dioxide (NO₂)

Maximum concentration of NO₂ is observed to be 28.3 $\mu\text{g}/\text{m}^3$ at Barhiya (AAQ3) and minimum value of 18.2 $\mu\text{g}/\text{m}^3$ observed at Karaundi (AAQ6) that is well within the prescribed limits of CPCB standards (80 $\mu\text{g}/\text{m}^3$).

Summary on Environmental Monitoring Report for the Proposed Bathiya Limestone Mine with Production Capacity of Limestone: 4.0 MTPA, waste/reject: 4.43 MTPA, soil: 0.41 MTPA, total excavation: 8.84 MTPA from mine lease area of 266.302 ha. located at villages - Bathiya, Barahiya, Karaundi, Chapna and Tamoria, Tehsil Maihar, District Satna, Madhya Pradesh.

Additional Baseline Monitoring Report

Carbon Monoxide (CO)

The CO concentrations in the region are observed to be well under the limits of 2000 $\mu\text{g}/\text{m}^3$ applicable for residential areas as specified by CPCB standards.

Ozone (O₃)

The O₃ concentrations in the region are observed to be well under the limits as specified by CPCB standards.

Lead (Pb)

The values of Pb are observed $<0.1 \mu\text{g}/\text{m}^3$.

Ammonia (NH₃)

The values of NH₃ are observed $<20.0 \mu\text{g}/\text{m}^3$.

Benzene (C₆H₆)

The values of C₆H₆ are observed $<1.0 \mu\text{g}/\text{m}^3$.

Benzo (a) Pyrene (BaP)

The values of BaP are observed $<0.1 \text{ng}/\text{m}^3$.

Arsenic (As) & Nickel (Ni)

The values of As & Ni are observed $<1.0 \text{ng}/\text{m}^3$.

Summary on Environmental Monitoring Report for the Proposed Bathiya Limestone Mine with Production Capacity of Limestone: 4.0 MTPA, waste/reject: 4.43 MTPA, soil: 0.41 MTPA, total excavation: 8.84 MTPA from mine lease area of 266.302 ha. located at villages - Bathiya, Barahiya, Karaundi, Chapna and Tamoria, Tehsil Maihar, District Satna, Madhya Pradesh.

Additional Baseline Monitoring Report

1.2 Summary of Noise Data

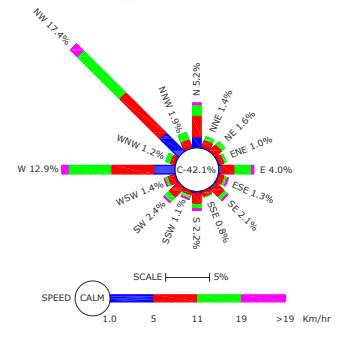
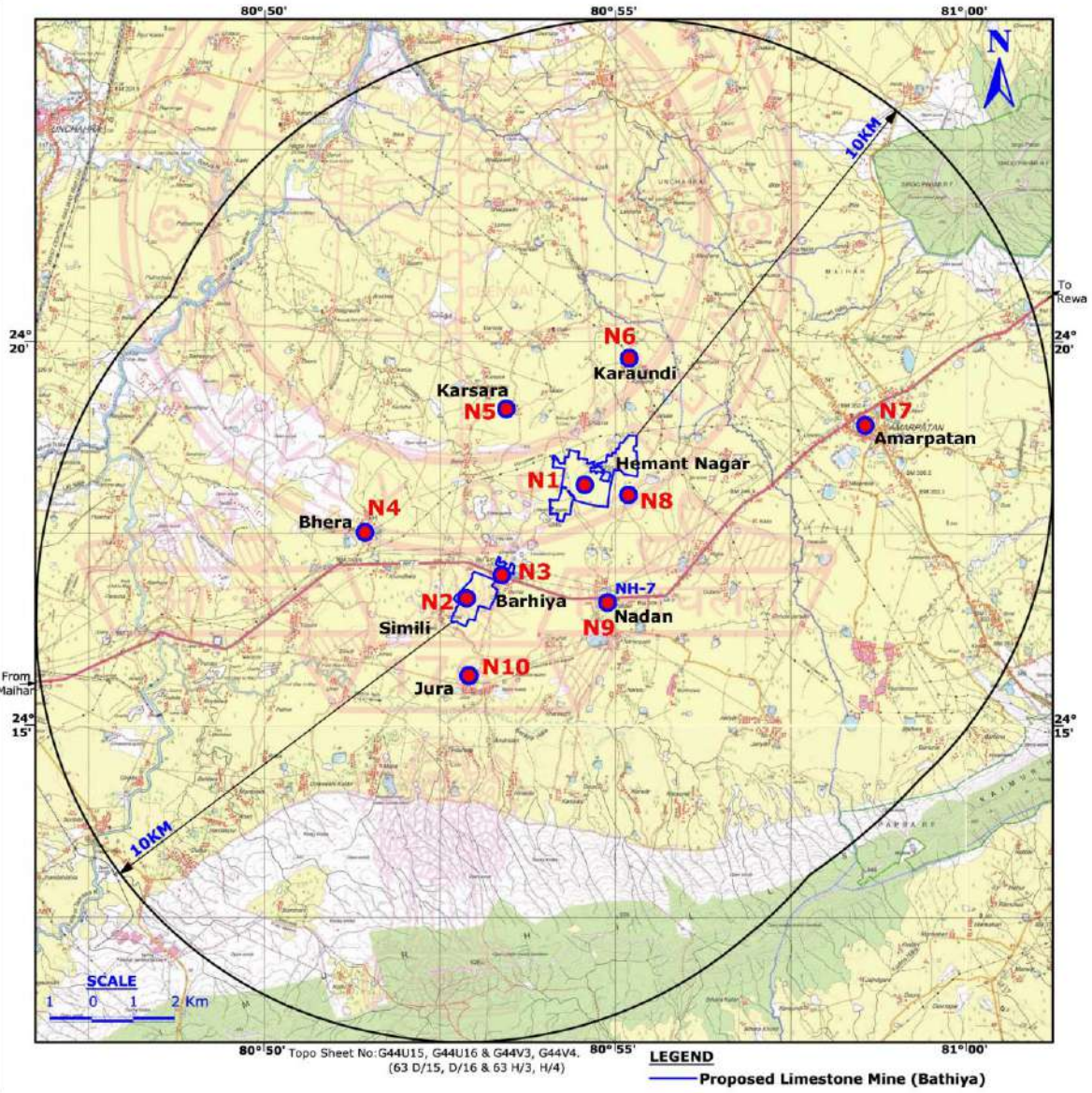
Sound Pressure Level (SPL) measurements were measured at all locations. The day noise levels have been monitored during 6 am to 10 pm and night levels during 10 pm to 6 am at all the locations covered in 10 km study area. The details of Noise Monitoring Location are provided in **Table-3**. The noise levels at Ten (10) locations are provided in **Table-4**. Detailed test report is provided in **Annexure-I**.

TABLE-3
DETAILS OF NOISE MONITORING LOCATIONS

Station Code	Name of the Station	Distance w.r.t ML Area (km)	Direction	Environmental Setting
N1	Mine Area (Block-1)	Core Zone		
N2	Mine Area (Block-10)			
N3	Barhiya	0.1	NE	Rural/Residential
N4	Bhera	4.6	NW	Rural/Residential
N5	Karsara	2.6	NW	Rural/Residential
N6	Karaundi	1.6	N	Rural/Residential
N7	Amarpatan	5.8	ENE	Commercial
N8	Near Hemantnagar	0.3	E	Rural/Residential
N9	Nadan	2.3	ESE	Rural/Residential
N10	Jura	1.9	S	Rural/Residential

Summary on Environmental Monitoring Report for the Proposed Bathiya Limestone Mine with Production Capacity of Limestone: 4.0 MTPA, waste/reject: 4.43 MTPA, soil: 0.41 MTPA, total excavation: 8.84 MTPA from mine lease area of 266.302 ha. located at villages - Bathiya, Barahiya, Karaundi, Chapna and Tamoria, Tehsil Maihar, District Satna, Madhya Pradesh.

Additional Baseline Monitoring Report



Noise Quality Monitoring Locations

Summary on Environmental Monitoring Report for the Proposed Bathiya Limestone Mine with Production Capacity of Limestone: 4.0 MTPA, waste/reject: 4.43 MTPA, soil: 0.41 MTPA, total excavation: 8.84 MTPA from mine lease area of 266.302 ha. located at villages - Bathiya, Barahiya, Karaundi, Chapna and Tamoria, Tehsil Maihar, District Satna, Madhya Pradesh.

Additional Baseline Monitoring Report

Day time Noise Levels (L_{day})

The day time noise levels at all the locations were ranged in between 47.0 to 61.0 dB(A). The minimum value (47.0 dB (A)) was recorded at Near Hemant nagar (N8) and the maximum value was recorded at Amarpatan (N7).

Night time Noise Levels (L_{night})

The night time noise levels were ranged in between 34.0 to 49.0 dB (A). The minimum value (34.0 dB (A)) was recorded at Near Hemant nagar (N8) and the maximum value (49.0 dB (A)) was recorded at Amarpatan (N7).

TABLE-4
NOISE LEVELS [dB (A)] IN THE STUDY AREA

Location	Date of Monitoring	Noise Levels in dB (A)	
		L_{day}	L_{Night}
Mine Site (Block-1)	01-04-2023	52	40
Mine Site (Block-10)	01-04-2023	52	39
Barhiya	01-04-2023	56	42
Bhera	01-04-2023	53	40
Karsara	31-03-2023	50	38
Karaundi	31-03-2023	48	36
Amarpatan	31-03-2023	61	49
Near Hemant nagar	31-03-2023	47	34
Nadan	31-03-2023	53	39
Jura	31-03-2023	49	37

TABLE-5
CPCB STANDARDS

Area Code	Category of Area	Ambient Noise Standards	
		Noise Levels (dB (A)) Leq (Limits)	
		Day time	Night time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

Summary on Environmental Monitoring Report for the Proposed Bathiya Limestone Mine with Production Capacity of Limestone: 4.0 MTPA, waste/reject: 4.43 MTPA, soil: 0.41 MTPA, total excavation: 8.84 MTPA from mine lease area of 266.302 ha. located at villages - Bathiya, Barahiya, Karaundi, Chapna and Tamoria, Tehsil Maihar, District Satna, Madhya Pradesh.

Additional Baseline Monitoring Report

1.3 Summary of Water Quality Results

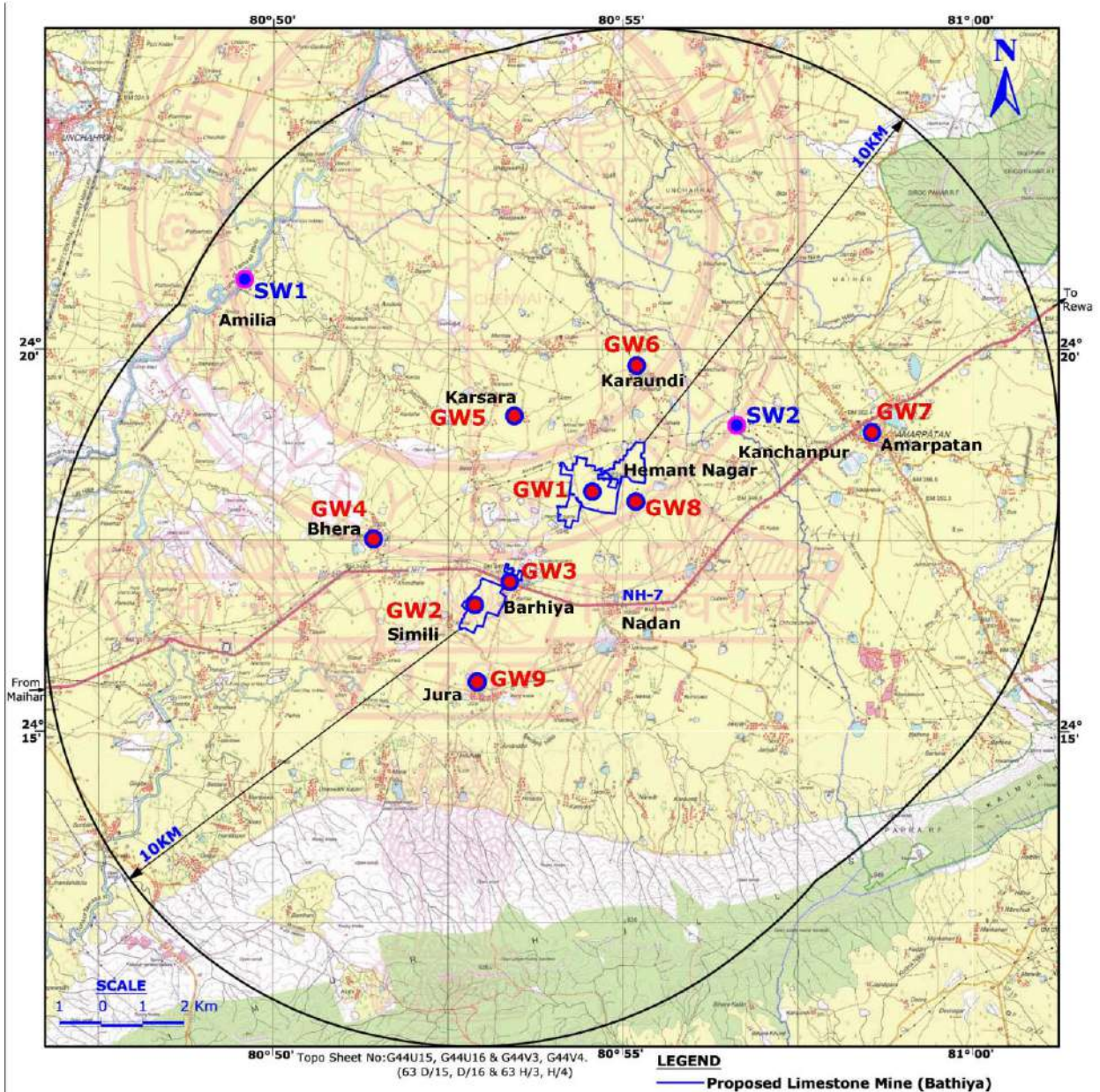
In the study area, surface and ground water samples were collected in the month of March 2023. These samples were taken as grab samples and were analyzed for various parameters to compare with the standards for drinking water as per IS: 10500. The water sampling locations are listed below in **Table- 6**. Detailed test report is provided in **Annexure-I**.

TABLE-6
WATER SAMPLING LOCATIONS

Code	Location	Distance from w.r.t ML Area (km)	Direction
Surface Water			
SW1	Tons River near Amilia	8.8	NW
SW2	Jhinna Nala near Kanchanpur	2.5	NE
Ground Water			
GW1	Mine Area	Core zone	
GW2	Mine Area		
GW3	Barhiya	0.1	NE
GW4	Bhera	4.6	NW
GW5	Karsara	2.6	NW
GW6	Karaundi	1.6	N
GW7	Amarpatan	5.8	ENE
GW8	Near Hemantnagar	0.3	E
GW9	Jura	1.9	S

Summary on Environmental Monitoring Report for the Proposed Bathiya Limestone Mine with Production Capacity of Limestone: 4.0 MTPA, waste/reject: 4.43 MTPA, soil: 0.41 MTPA, total excavation: 8.84 MTPA from mine lease area of 266.302 ha. located at villages - Bathiya, Barahiya, Karaundi, Chapna and Tamoria, Tehsil Maihar, District Satna, Madhya Pradesh.

Additional Baseline Monitoring Report



Water Quality Monitoring Locations

Summary on Environmental Monitoring Report for the Proposed Bathiya Limestone Mine with Production Capacity of Limestone: 4.0 MTPA, waste/reject: 4.43 MTPA, soil: 0.41 MTPA, total excavation: 8.84 MTPA from mine lease area of 266.302 ha. located at villages - Bathiya, Barahiya, Karaundi, Chapna and Tamoria, Tehsil Maihar, District Satna, Madhya Pradesh.

Additional Baseline Monitoring Report

TABLE-7
SURFACE WATER QUALITY

No.	Parameters	Units	SW-1	IS: 2296	
				Class-C	Class-E
1	pH Value	--	7.1	8.5	8.5
2	Conductivity	µmhos/cm	1310	NS	2250
3	TDS	mg/L	865	1500	2100
4	Total Alkalinity as CaCO ₃	mg/L	288	NS	NS
5	Total Hardness as CaCO ₃	mg/L	380	NS	NS
6	Chlorides as Cl	mg/L	195	600	600
7	Sulphate as SO ₄	mg/L	74	400	1000
8	Nitrate as NO ₃	mg/L	3.1	50	NS
9	Fluoride as F	mg/L	0.9	1.5	NS
10	Calcium as Ca	mg/L	82	NS	NS
11	Magnesium as Mg	mg/L	43	NS	NS
12	Copper as Cu	mg/L	0.2	1.5	NS
13	Iron as Fe	mg/L	0.6	50	NS
14	Manganese as Mn	mg/L	<0.1	NS	NS
15	Zinc as Zn	mg/L	3.5	15	NS
16	Lead as Pb	mg/L	<0.1	0.1	NS
17	Cadmium as Cd	mg/L	<0.01	0.01	NS
18	Chromium as Cr ⁶⁺	mg/L	<0.05	0.05	NS
19	Oil & Grease	mg/L	<0.1	<0.1	<0.1
20	DO	mg/L	4.9	4.9	5.8
21	COD	mg/L	16	16	14
22	BOD (3 days at 27 ^o C)	mg/L	4.0	6	4
23	Arsenic as As	mg/L	<0.2	<0.2	<0.2
24	Mercury as Hg	mg/L	<0.001	<0.001	<0.001
25	Percent sodium	%	42	20	25
26	Sodium absorption ratio	---	2.8	NS	NS
27	Total Coliforms	MPN/100ml	840	5000	NS
28	Fecal Coliform	MPN/100ml	2.0	Nil	NS

- **Surface Water Quality**

The results for the surface water samples analysed are compared with the IS-2296 standards. SW2 Jhinna Nala near Kanchanpur was dry at the time of sampling.

- The analysis results of surface water samples indicate that the pH value was observed to be 7.1 which are well within the specified standards of 6.5 to 8.5.
- Electrical conductivity of surface water samples was observed to be 1310 µS/cm.
- The Dissolved Oxygen was observed to be 4.9 mg/l. BOD values were observed in the range less than 4 mg/l.
- The total hardness was found to be 380 mg/l. The Chloride concentration was observed to be 195 mg/l and the Sulphates were found to be 74 mg/l. Both the parameters are well within the prescribed limits.

Summary on Environmental Monitoring Report for the Proposed Bathiya Limestone Mine with Production Capacity of Limestone: 4.0 MTPA, waste/reject: 4.43 MTPA, soil: 0.41 MTPA, total excavation: 8.84 MTPA from mine lease area of 266.302 ha. located at villages - Bathiya, Barahiya, Karaundi, Chapna and Tamoria, Tehsil Maihar, District Satna, Madhya Pradesh.

Additional Baseline Monitoring Report

- Nitrates content was found to be 3.1 mg/l which is within the standard limits. Fluoride content was found to be 0.9 mg/l which is within the standard limits. Cyanides and Phenolic compounds found to be less than detection limits.

The physico-chemical and biological analysis revealed that most of the parameters are well within the permissible limits as per IS: 2296. The surface water quality does not indicate any industrial contamination.

**TABLE-8
GROUND WATER QUALITY**

Parameters	Units	Sample code									IS : 10500	
		GW1	GW2	GW3	GW4	GW5	GW6	GW7	GW8	GW9	Acceptable	Permissible
Taste	--	Agr.	Agr	Agr	Agr.	Agr	Agr	Agr	Agr	Agr	Agr.	Agr.
Turbidity	NTU	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1	5
pH value	--	7.1	7.2	7.1	7.3	7.6	7.2	7.3	7.5	7.0	6.5 to 8.5	NR
Electrical Conductivity	umhos/cm	924	1072	965	656	1275	1480	1026	1194	1423	NS	NS
TDS	mg/L	610	707	637	433	842	977	678	789	940	500	2000
TSS	mg/L	4.0	7.0	5.0	4.0	9.0	6.0	5.0	10	8.0	NS	NS
T. Hardness as CaCO ₃	mg/L	276	312	280	176	360	420	292	348	396	200	600
Iron as Fe	mg/L	0.8	0.5	0.9	0.7	1.0	1.3	0.5	0.9	1.1	1	NR
Chlorides as Cl	mg/L	130	160	140	105	195	225	155	175	220	250	1000
Calcium as Ca	mg/L	69	79	74	50	83	99	78	84	109	75	200
Magnesium as Mg	mg/L	25	28	23	13	37	42	23	34	30	30	100
Nitrates as NO ₃	mg/L	12	16	14	11	15	28	17	19	22	45	45
Copper as Cu	mg/L	0.4	0.2	0.3	0.4	0.7	0.8	0.3	0.6	0.5	0.05	1.5
Sulphate as SO ₄	mg/L	57	66	61	45	91	107	62	82	95	200	400
Fluorides as F	mg/L	1.0	1.0	1.1	1.0	1.1	1.1	1.1	1.0	1.1	1	1.5
Cadmium as Cd	mg/L	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.003	NR
Lead as Pb	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.01
Zinc as Zn	mg/L	4.8	5.4	4.9	4.6	5.8	6.2	5.1	5.5	6.0	5	15
T. Alkalinity as CaCO ₃	mg/L	212	236	216	128	256	296	216	252	288	200	600
Mercury as Hg	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	NR
Arsenic as As	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	NR
Total Coliform Bacteria	MPN/100 ml	Abs.	Abs.	Abs.	Abs.	Abs.	Abs.	Abs.	Abs.	Abs.	Absent	Absent
Faecal coliform	MPN/100 ml	Abs.	Abs.	Abs.	Abs.	Abs.	Abs.	Abs.	Abs.	Abs.	Absent	Absent

- **Ground Water Quality**

The results for the ground water samples analysed are presented in

- The analysis results of ground water samples showed the pH in range of 7.0 to 7.6 which are well within the specified standard limits of 6.5 to 8.5.
- Electrical conductivity of the samples ranged from 656 – 1480 µS/cm. The minimum value was observed at GW4 (Bhera), and where as the maximum value was observed at GW6 (Karaundi).
- Turbidity of the samples ranged from 0.1 NTU respectively.

Summary on Environmental Monitoring Report for the Proposed Bathiya Limestone Mine with Production Capacity of Limestone: 4.0 MTPA, waste/reject: 4.43 MTPA, soil: 0.41 MTPA, total excavation: 8.84 MTPA from mine lease area of 266.302 ha. located at villages - Bathiya, Barahiya, Karaundi, Chapna and Tamoria, Tehsil Maihar, District Satna, Madhya Pradesh.

Additional Baseline Monitoring Report

- The Total Hardness of the samples ranged from 176 mg/l to 420 mg/l. The maximum value was observed at GW6 (Karaundi) and whereas the minimum value observed at GW4 (Bhera).
- Calcium and Magnesium concentrations ranged from 50.0 – 109.0 mg/l and 13.0 – 42.0 mg/l respectively.
- The Total Dissolved solids of the samples ranged from 433 – 977 mg/l.
- Range of Chlorides and Sulphates concentrations at all the locations 105.0 – 225.0 mg/l and 45.0 – 107.0 mg/l respectively.
- Fluoride concentrations are ranging in between 1.0 – 1.1 mg/l. Nitrates are also found to be ranging between 11.0 – 28.0 mg/l.
- Iron concentrations in ground waters varied from 0.5 – 1.3 mg/l. Zinc levels varied from 4.6 mg/l to 6.2 mg/l. It is evident from the above values that all the parameters are found to comply with the requirements of IS: 10500 specification of surface water.

1.4 Summary of Soil Analysis

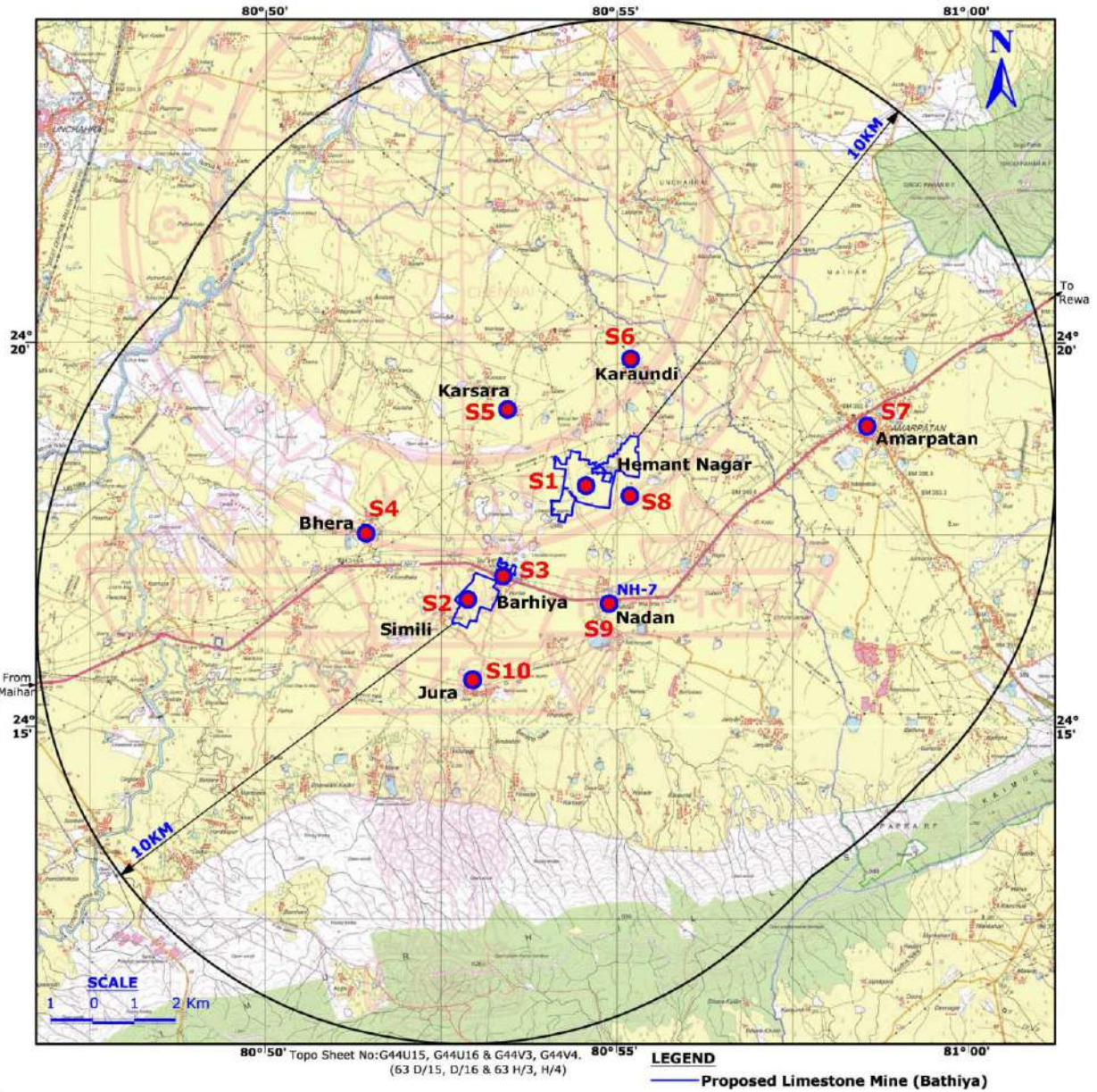
The details of soil sampling locations during the study period are given in **Table-9**. Detailed test report is provided in **Annexure-I**.

TABLE-9
DETAILS OF SOIL SAMPLING LOCATIONS

Sr. No.	Location	Distance w.r.t Mine Lease Area (km)	Direction
S1	Mine Area	Core zone	
S2	Mine Area		
S3	Barhiya	0.1	NE
S4	Bhera	4.6	NW
S5	Karsara	2.6	NW
S6	Karaundi	1.6	N
S7	Amarpatan	5.8	ENE
S8	Near Hemantnagar	0.3	E
S9	Nadan	2.3	ESE
S10	Jura	1.9	S

Summary on Environmental Monitoring Report for the Proposed Bathiya Limestone Mine with Production Capacity of Limestone: 4.0 MTPA, waste/reject: 4.43 MTPA, soil: 0.41 MTPA, total excavation: 8.84 MTPA from mine lease area of 266.302 ha. located at villages - Bathiya, Barahiya, Karaundi, Chapna and Tamoria, Tehsil Maihar, District Satna, Madhya Pradesh.

Additional Baseline Monitoring Report



Soil Quality Monitoring Locations

Summary on Environmental Monitoring Report for the Proposed Bathiya Limestone Mine with Production Capacity of Limestone: 4.0 MTPA, waste/reject: 4.43 MTPA, soil: 0.41 MTPA, total excavation: 8.84 MTPA from mine lease area of 266.302 ha. located at villages - Bathiya, Barahiya, Karaundi, Chapna and Tamoria, Tehsil Maihar, District Satna, Madhya Pradesh.

Additional Baseline Monitoring Report

TABLE-10
SOIL ANALYSIS RESULTS

No.	Parameters	Units	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10
1	EC	µmhos/cm	228	121	318	119	168.5	93.7	297	284	191	229
2	pH	--	7.4	6.9	7.1	7.7	7.2	6.9	6.7	6.8	7.8	6.6
3	Soil Texture	--	Clay	Clay	Clay	Sandy Clay	Clay	Clay	Clay	Clay	Clay	Sandy Clay
i	Sand	%	22	25	20	48	18	34	20	34	28	46
ii	Silt	%	33	34	31	12	37	25	27	15	20	11
iii	Clay	%	45	41	49	40	45	41	53	51	52	43
4	Bulk Density	g/cc	1.19	1.25	1.04	1.08	1.02	1.31	1.28	1.16	1.06	1.35
5	Available Nitrogen as N	Kg/ha	50.17	41.81	62.74	47.04	55.75	53.76	50.17	41.81	62.72	36.85
6	Available Phosphorus as P ₂ O ₅	Kg/ha	54.6	61	45.6	54.7	60.7	45.5	68.3	63.8	72.9	60.7
7	Available Potassium as K ₂ O	Kg/ha	140	151.2	160.1	137.76	132.16	221.76	184.8	164.64	143.36	252
8	Organic Matter	%	0.8	0.97	0.72	0.24	0.96	1.69	1.82	1.57	1.45	0.6
9	Exchangeable Calcium as Ca	meq/100g	43.4	37.8	42	32.2	39.2	43.4	45.0	43.0	33.6	36.4
10	Exchangeable Magnesium as Mg	meq/100g	9.8	7.0	11.2	9.1	8.4	7.0	8.4	6.5	6.9	8.3
11	Exchangeable Sodium as Na	mg/kg	49	41.5	59	46.5	45.5	51	34.5	57.5	48	58.5
12	Organic Carbon	%	0.49	0.56	0.42	0.14	0.56	0.98	1.0	0.9	0.84	0.350
13	Porosity	%	52	50	53	41	49	51	53	50	48	43
14	Water Holding Capacity	%	31	35	37	19	36	33	38	30	34	22

Soil Reaction (pH): For the ten soil samples under consideration the pH ranges between 6.6 to 7.8 indicating soils are neutral to moderately alkaline.

Electrical Conductivity (EC): The EC of ten soil samples is between 93.7 to 318 µs/cm and are below the limits to be called as saline and hence the soils are normal for crop growth.

Available Nitrogen (N): The available nitrogen in the ten samples in question, as per analysis ranges between 36.85 to 62.74 kg/ha showing very low to low nitrogen content for crop growth.

Available Phosphorus (P): The phosphorus content of soil of ten samples ranges between 45.5 to 72.9 kg/ha and falls under medium to more than sufficient category for crop growth.

Available Potassium (K): The Potassium content of ten soil samples ranges between 132.16 to 252 kg/ha and is very less, less for crop growth.



PRAGATHI LABS & CONSULTANTS PVT.LTD.

(LAB RECOGNISED BY MINISTRY OF ENVIRONMENT & FORESTS, GOVT. OF INDIA)

(ISO 9001:2015, OHSMS ISO 45001:2018)

Plot No. B15 & 16, Industrial Estate, Behind Pollution Control Board
Opp. Bank of Baroda, Sanath Nagar, Hyderabad - 500 018. Telangana.
Telefax : 040-23717213 Mail : info@pragathilabs.com Web : www.pragathilabs.com

TEST REPORT



Issued to

M/s. AAA Resources Private Ltd.
02nd Floor, Industry House,
159, Churchgate Reclamation,
Mumbai - 400020, Maharashtra

Date of Monitoring	09 th March, 2023	Date of Reporting	08 th April, 2023
Report No.	PLCPL/23/5428-5437/0957		
ULR No.	ULR-TC574123000000136F		
Sample particulars	Ambient Air, No. of samples: 10(Ten), Duration of sampling 24hrs.		
Instrument used	RDS 2874-DTE-2015, 3038-DTK-2016, 1341-DT2-2018, 3250-DT1-2019, 3258-DT1-2019, 55E-22, 56E-22, 080831, 071239; FDS 1950-DTL-2019, 1776-DTL-2017, 1816-DTH-2018, 1928-DTJ-2019, 1792-DTC-2018, 101F-22, 102F-22, FPS 101023, 101027. Make: Envirotech, Aerovironment, Instrumex.		
Test required	PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ , CO, O ₃	Method of analysis	IS: 5182
Sampling Done by	Field in charge, PLCPL		

Discipline: Chemical Testing
Group: Atmospheric air Pollution

TEST RESULTS

Locations	Date of monitoring	Concentration $\mu\text{g}/\text{m}^3$									
		PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO			O ₃		
01 st Day Observations						I	II	III	I	II	III
Mine Area (Block-1)	09-03-2023	58.2	32.9	14.4	19.7	395	424	356	7.1	7.9	6.9
Mine Area (Block-10)	09-03-2023	52.7	38.0	14.6	20.2	377	388	367	5.8	7.0	5.9
Barhiya	09-03-2023	68.3	41.7	20.3	25.4	366	399	377	8.6	8.7	8.4
Bhera	09-03-2023	65.2	35.4	16.7	22.6	391	431	371	8.5	8.9	8.1
Karsara	09-03-2023	48.2	35.4	16.6	23.1	453	465	424	3.5	3.8	3.1
Karaundi	09-03-2023	65.9	30.3	15.3	21.3	452	453	411	5.4	6.0	5.1
Amarpatan	09-03-2023	60.9	37.6	15.2	19.3	443	466	432	10.7	11.4	9.7
Near Hemant Nagar	09-03-2023	60.4	43.2	15.9	21.3	397	410	375	8.8	9.2	8.1
Nadan	09-03-2023	72.6	43.3	15.4	24.8	405	424	388	9.6	11.2	8.4
Towards Block 10	09-03-2023	66.5	35.6	14.6	20.4	411	428	393	6.1	8.6	5.7

Note: Results related only to the sample tested.

Methods For Measurement of Air Pollution in Ambient Air:

Parameters	Method	IS Code
PM ₁₀	Measurement of PM ₁₀ in Ambient Air	IS 5182(P23)
PM _{2.5}	Measurement of PM _{2.5} in Ambient Air	IS 5182(P24)
SO ₂	Measurement of SO ₂ in Ambient Air	IS 5182(P02)
NO ₂	Measurement of NO ₂ in Ambient Air	IS 5182(P06)
O ₃	Measurement of O ₃ in Ambient Air	IS 5182(P09)
CO	Measurement of CO in Ambient Air	IS 5182(P10)

A. Sudheerkumar
Verified by
(A. Sudheerkumar)
Analyst

Authorized Signatory
(M. Ravi Kiran)
Managing director



PRAGATHI LABS & CONSULTANTS PVT.LTD.

(LAB RECOGNISED BY MINISTRY OF ENVIRONMENT & FORESTS, GOVT. OF INDIA)

(ISO 9001:2015, OHSMS ISO 45001:2018)

Plot No. B15 & 16, Industrial Estate, Behind Pollution Control Board
Opp. Bank of Baroda, Sanath Nagar, Hyderabad - 500 018. Telangana.
Telefax : 040-23717213 Mail : info@pragathilabs.com Web : www.pragathilabs.com

TEST REPORT



Issued to

M/s. AAA Resources Private Ltd.
02nd Floor, Industry House,
159, Churchgate Reclamation,
Mumbai - 400020, Maharashtra

Date of Monitoring	10 th March, 2023	Date of Reporting	08 th April, 2023
Report No.	PLCPL/23/5448-5457/0958		
ULR No.	ULR-TC574123000000136F		
Sample particulars	Ambient Air, No. of samples: 10(Ten), Duration of sampling 24hrs.		
Instrument used	RDS 2874-DTE-2015, 3038-DTK-2016, 1341-DT2-2018, 3250-DT1-2019, 3258-DT1-2019, 55E-22, 56E-22, 080831, 071239; FDS 1950-DTL-2019, 1776-DTL-2017, 1816-DTH-2018, 1928-DTJ-2019, 1792-DTC-2018, 101F-22, 102F-22, FPS 101023, 101027. Make: Envirotech, Aerovironment, Instrumex.		
Test required	PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ , CO, O ₃	Method of analysis	IS: 5182
Sampling Done by	Field in charge, PLCPL		

Discipline: Chemical Testing

Group: Atmospheric air Pollution

TEST RESULTS

Locations	Date of monitoring	Concentration $\mu\text{g}/\text{m}^3$									
		PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO			O ₃		
02nd Day Observations											
Mine Area (Block-1)	10-03-2023	58.0	31.8	14.0	19.4	362	396	359	7.6	9.2	6.7
Mine Area (Block-10)	10-03-2023	54.4	36.7	19.0	28.2	401	423	377	6.2	7.6	4.8
Barhiya	10-03-2023	45.6	33.5	18.5	19.3	390	403	386	8.8	10.3	7.6
Bhera	10-03-2023	66.7	35.2	19.6	27.1	398	406	381	8.1	9.6	7.3
Karsara	10-03-2023	68.2	41.2	15.2	22.9	465	466	451	4.1	4.4	3.5
Karaundi	10-03-2023	63.5	34.2	15.8	22.1	452	478	438	5.3	5.7	4.9
Amarpatan	10-03-2023	59.2	35.4	15.1	21.5	436	449	413	10.5	11.3	10.0
Near Hemant Nagar	10-03-2023	55.8	40.9	15.5	21.5	392	410	382	9.6	9.5	8.3
Nadan	10-03-2023	72.1	42.0	15.9	26.1	429	447	380	8.5	11.8	8.8
Towards Block 10	10-03-2023	66.9	35.5	15.0	20.9	436	453	386	6.6	8.0	5.4

Note: Results related only to the sample tested.

Methods For Measurement of Air Pollution in Ambient Air:

Parameters	Method	IS Code
PM ₁₀	Measurement of PM ₁₀ in Ambient Air	IS 5182(P23)
PM _{2.5}	Measurement of PM _{2.5} in Ambient Air	IS 5182(P24)
SO ₂	Measurement of SO ₂ in Ambient Air	IS 5182(P02)
NO ₂	Measurement of NO ₂ in Ambient Air	IS 5182(P06)
O ₃	Measurement of O ₃ in Ambient Air	IS 5182(P09)
CO	Measurement of CO in Ambient Air	IS 5182(P10)

A. Sudheerkumar
Verified by
(A. Sudheerkumar)
Analyst

M. Ravi Kiran
Authorized Signatory
(M. Ravi Kiran)
Managing director



PRAGATHI LABS & CONSULTANTS PVT.LTD.

(LAB RECOGNISED BY MINISTRY OF ENVIRONMENT & FORESTS, GOVT. OF INDIA)

(ISO 9001:2015, OHSMS ISO 45001:2018)

Plot No. B15 & 16, Industrial Estate, Behind Pollution Control Board
Opp. Bank of Baroda, Sanath Nagar, Hyderabad - 500 018. Telangana.
Telefax : 040-23717213 Mail : info@pragathilabs.com Web : www.pragathilabs.com

TEST REPORT



Issued to

M/s. AAA Resources Private Ltd.
02nd Floor, Industry House,
159, Churchgate Reclamation,
Mumbai - 400020, Maharashtra

Date of Monitoring	15 th March, 2023	Date of Reporting	08 th April, 2023
Report No.	PLCPL/23/5508-5517/0959		
ULR No.	ULR-TC574123000000136F		
Sample particulars	Ambient Air, No. of samples: 10(Ten), Duration of sampling 24hrs.		
Instrument used	RDS 2874-DTE-2015, 3038-DTK-2016, 1341-DT2-2018, 3250-DT1-2019, 3258-DT1-2019, 55E-22, 56E-22, 080831, 071239; FDS 1950-DTL-2019, 1776-DTL-2017, 1816-DTH-2018, 1928-DTJ-2019, 1792-DTC-2018, 101F-22, 102F-22, FPS 101023, 101027. Make: Envirotech, Aerovironment, Instrumex.		
Test required	PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ , CO, O ₃	Method of analysis	IS: 5182
Sampling Done by	Field in charge, PLCPL		

Discipline: Chemical Testing

Group: Atmospheric air Pollution

TEST RESULTS

Locations	Date of monitoring	Concentration $\mu\text{g}/\text{m}^3$									
		PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO			O ₃		
03rd Day Observations											
Mine Area (Block-1)	15-03-2023	63.9	37.6	13.6	19.1	370	389	365	8.5	8.4	7.8
Mine Area (Block-10)	15-03-2023	69.3	35.2	16.9	23.9	377	433	365	6.3	6.1	5.1
Barhiya	15-03-2023	70.6	41.2	18.9	25.4	388	406	382	8.6	8.9	8.4
Bhera	15-03-2023	64.6	37.9	17.0	23.2	366	389	359	8.7	9.2	8.2
Karsara	15-03-2023	65.3	36.8	16.3	23.9	464	474	442	3.5	5.3	3.1
Karaundi	15-03-2023	61.3	31.9	13.9	18.2	461	471	430	5.0	5.5	4.6
Amarpatan	15-03-2023	44.6	34.4	15.8	19.5	430	449	421	9.2	10.7	8.7
Near Hemant Nagar	15-03-2023	56.7	42.4	14.9	20.6	421	427	393	8.5	9.8	7.7
Nadan	15-03-2023	71.9	43.7	16.3	20.9	406	366	395	8.0	10.2	9.4
Towards Block 10	15-03-2023	65.5	36.4	14.5	20.2	411	371	401	6.0	6.5	3.8

Note: Results related only to the sample tested.

Methods For Measurement of Air Pollution in Ambient Air:

Parameters	Method	IS Code
PM ₁₀	Measurement of PM ₁₀ in Ambient Air	IS 5182(P23)
PM _{2.5}	Measurement of PM _{2.5} in Ambient Air	IS 5182(P24)
SO ₂	Measurement of SO ₂ in Ambient Air	IS 5182(P02)
NO ₂	Measurement of NO ₂ in Ambient Air	IS 5182(P06)
O ₃	Measurement of O ₃ in Ambient Air	IS 5182(P09)
CO	Measurement of CO in Ambient Air	IS 5182(P10)

A. Sudheerkumar
Verified by
(A. Sudheerkumar)
Analyst

(Signature)
Authorized Signatory
(M. Ravi Kiran)
Managing director



PRAGATHI LABS & CONSULTANTS PVT.LTD.

(LAB RECOGNISED BY MINISTRY OF ENVIRONMENT & FORESTS, GOVT. OF INDIA)

(ISO 9001:2015, OHSMS ISO 45001:2018)

Plot No. B15 & 16, Industrial Estate, Behind Pollution Control Board
Opp. Bank of Baroda, Sanath Nagar, Hyderabad - 500 018. Telangana.
Telefax : 040-23717213 Mail : info@pragathilabs.com Web : www.pragathilabs.com

TEST REPORT



Issued to

M/s. AAA Resources Private Ltd.
02nd Floor, Industry House,
159, Churchgate Reclamation,
Mumbai - 400020, Maharashtra

Date of Monitoring	16 th March, 2023	Date of Reporting	08 th April, 2023
Report No.	PLCPL/23/5533-5542/0960		
ULR No.	ULR-TC574123000000136F		
Sample particulars	Ambient Air, No. of samples: 10(Ten), Duration of sampling 24hrs.		
Instrument used	RDS 2874-DTE-2015, 3038-DTK-2016, 1341-DT2-2018, 3250-DT1-2019, 3258-DTI-2019, 55E-22, 56E-22, 080831, 071239; FDS 1950-DTL-2019, 1776-DTL-2017, 1816-DTH-2018, 1928-DTJ-2019, 1792-DTC-2018, 101F-22, 102F-22, FPS 101023, 101027. Make: Envirotech, Aerovironment, Instrumex.		
Test required	PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ , CO, O ₃	Method of analysis	IS: 5182
Sampling Done by	Field in charge, PLCPL		

Discipline: Chemical Testing

Group: Atmospheric air Pollution

TEST RESULTS

Locations	Date of monitoring	Concentration $\mu\text{g}/\text{m}^3$									
		PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO			O ₃		
04th Day Observations											
						I	II	III	I	II	III
Mine Area (Block-1)	16-03-2023	57.3	33.9	15.0	23.7	377	410	386	7.5	7.8	5.5
Mine Area (Block-10)	16-03-2023	56.7	33.3	17.6	26.2	370	423	360	5.3	6.1	5.7
Barhiya	16-03-2023	71.2	39.9	21.3	28.3	396	410	383	8.2	8.3	7.7
Bhera	16-03-2023	62.0	39.3	18.4	23.0	371	411	362	8.3	8.8	7.9
Karsara	16-03-2023	58.3	39.2	14.9	21.1	439	450	431	3.6	4.7	3.6
Karaundi	16-03-2023	48.9	29.9	15.9	21.9	437	456	418	5.6	4.8	3.7
Amarpatan	16-03-2023	51.2	37.0	16.9	24.1	461	465	432	9.1	11.8	9.3
Near Hemant Nagar	16-03-2023	57.3	41.7	15.3	20.4	409	420	356	9.2	10.3	7.6
Nadan	16-03-2023	71.4	41.8	18.0	27.5	392	406	373	9.0	8.5	8.2
Towards Block 10	16-03-2023	64.8	35.5	18.0	23.7	397	411	380	5.5	6.9	3.4

Note: Results related only to the sample tested

Methods For Measurement of Air Pollution in Ambient Air:

Parameters	Method	IS Code
PM ₁₀	Measurement of PM ₁₀ in Ambient Air	IS 5182(P23)
PM _{2.5}	Measurement of PM _{2.5} in Ambient Air	IS 5182(P24)
SO ₂	Measurement of SO ₂ in Ambient Air	IS 5182(P02)
NO ₂	Measurement of NO ₂ in Ambient Air	IS 5182(P06)
O ₃	Measurement of O ₃ in Ambient Air	IS 5182(P09)
CO	Measurement of CO in Ambient Air	IS 5182(P10)

A. Sudheerkumar
Verified by
(A. Sudheerkumar)
Analyst

Authorized Signatory
(M. Ravi Kiran)
Managing director



PRAGATHI LABS & CONSULTANTS PVT.LTD.

(LAB RECOGNISED BY MINISTRY OF ENVIRONMENT & FORESTS, GOVT. OF INDIA)

(ISO 9001:2015, OHSMS ISO 45001:2018)

Plot No. B15 & 16, Industrial Estate, Behind Pollution Control Board
Opp. Bank of Baroda, Sanath Nagar, Hyderabad - 500 018. Telangana.
Telefax : 040-23717213 Mail : info@pragathilabs.com Web : www.pragathilabs.com

TEST REPORT



Issued to

M/s. AAA Resources Private Ltd.
02nd Floor, Industry House,
159, Churchgate Reclamation,
Mumbai - 400020, Maharashtra

Date of Monitoring	23 rd March, 2023	Date of Reporting	08 th April, 2023
Report No.	PLCPL/23/5743-5752/0961		
ULR No.	ULR-TC5741230000000136F		
Sample particulars	Ambient Air, No. of samples: 10(Ten), Duration of sampling 24hrs.		
Instrument used	RDS 2874-DTE-2015, 3038-DTK-2016, 1341-DT2-2018, 3250-DT1-2019, 3258-DT1-2019, 55E-22, 56E-22, 080831, 071239; FDS 1950-DTL-2019, 1776-DTL-2017, 1816-DTH-2018, 1928-DTJ-2019, 1792-DTC-2018, 101F-22, 102F-22, FPS 101023, 101027. Make: Envirotech, Aerovironment, Instrumex.		
Test required	PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ , CO, O ₃	Method of analysis	IS: 5182
Sampling Done by	Field in charge, PLCPL		

Discipline: Chemical Testing

Group: Atmospheric air Pollution

TEST RESULTS

Locations	Date of monitoring	Concentration $\mu\text{g}/\text{m}^3$									
		PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO			O ₃		
05 th Day Observations											
						I	II	III	I	II	III
Mine Area (Block-1)	23-03-2023	64.7	39.5	14.5	20.6	425	463	420	5.6	7.2	7.6
Mine Area (Block-10)	23-03-2023	55.4	36.5	15.1	22.1	417	419	377	6.4	8.7	5.8
Barhiya	23-03-2023	70.0	41.1	19.4	25.6	366	394	384	8.2	11.0	7.9
Bhera	23-03-2023	56.5	37.8	14.3	20.8	366	394	353	8.0	8.9	7.7
Karsara	23-03-2023	53.1	36.5	15.7	21.9	428	440	389	4.0	4.3	3.8
Karaundi	23-03-2023	46.2	32.6	15.2	19.2	426	476	395	4.9	6.3	4.1
Amarpatan	23-03-2023	59.6	37.5	14.6	20.2	449	458	394	10.0	12.0	9.1
Near Hemant Nagar	23-03-2023	65.2	44.5	15.5	21.0	388	409	352	9.2	9.9	7.5
Nadan	23-03-2023	72.0	43.1	18.6	26.5	390	400	372	9.6	10.0	9.1
Towards Block 10	23-03-2023	67.2	37.2	15.3	20.4	397	405	379	6.0	6.1	3.5

Note: Results related only to the sample tested

Methods For Measurement of Air Pollution in Ambient Air:

Parameters	Method	IS Code
PM ₁₀	Measurement of PM ₁₀ in Ambient Air	IS 5182(P23)
PM _{2.5}	Measurement of PM _{2.5} in Ambient Air	IS 5182(P24)
SO ₂	Measurement of SO ₂ in Ambient Air	IS 5182(P02)
NO ₂	Measurement of NO ₂ in Ambient Air	IS 5182(P06)
O ₃	Measurement of O ₃ in Ambient Air	IS 5182(P09)
CO	Measurement of CO in Ambient Air	IS 5182(P10)

A. Sudheerkumar
Verified by
(A. Sudheerkumar)
Analyst


Authorized Signatory
(M. Ravi Kiran)
Managing director



PRAGATHI LABS & CONSULTANTS PVT.LTD.

(LAB RECOGNISED BY MINISTRY OF ENVIRONMENT & FORESTS, GOVT. OF INDIA)

(ISO 9001:2015, OHSMS ISO 45001:2018)

Plot No. B15 & 16, Industrial Estate, Behind Pollution Control Board
Opp. Bank of Baroda, Sanath Nagar, Hyderabad - 500 018. Telangana.
Telefax : 040-23717213 Mail : info@pragathilabs.com Web : www.pragathilabs.com

TEST REPORT



Issued to

M/s. AAA Resources Private Ltd.
02nd Floor, Industry House,
159, Churchgate Reclamation,
Mumbai - 400020, Maharashtra

Date of Monitoring	24 th March, 2023	Date of Reporting	08 th April, 2023
Report No.	PLCPL/23/5759-5768/0962		
ULR No.	ULR-TC574123000000136F		
Sample particulars	Ambient Air, No. of samples: 10(Ten), Duration of sampling 24hrs.		
Instrument used	RDS 2874-DTE-2015, 3038-DTK-2016, 1341-DT2-2018, 3250-DT1-2019, 3258-DT1-2019, 55E-22, 56E-22, 080831, 071239; FDS 1950-DTL-2019, 1776-DTL-2017, 1816-DTH-2018, 1928-DTJ-2019, 1792-DTC-2018, 101F-22, 102F-22, FPS 101023, 101027. Make: Envirotech, Aerovironment, Instrumex.		
Test required	PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ , CO, O ₃	Method of analysis	IS: 5182
Sampling Done by	Field in charge, PLCPL		

Discipline: Chemical Testing

Group: Atmospheric air Pollution

TEST RESULTS

Locations	Date of monitoring	Concentration $\mu\text{g}/\text{m}^3$									
		PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO			O ₃		
06 th Day Observations											
						I	II	III	I	II	III
Mine Area (Block-1)	24-03-2023	58.8	32.9	15.9	24.1	452	436	423	6.6	8.1	5.8
Mine Area (Block-10)	24-03-2023	47.2	37.5	18.4	26.6	419	444	404	6.0	6.9	5.2
Barhiya	24-03-2023	54.3	38.5	18.6	26.3	372	401	379	8.8	9.1	8.4
Bhera	24-03-2023	59.1	40.6	16.4	23.1	385	414	370	8.6	9.0	8.1
Karsara	24-03-2023	55.1	35.7	16.5	22.4	452	464	417	3.7	4.9	3.6
Karaundi	24-03-2023	55.1	32.2	14.7	18.9	450	452	404	5.1	6.2	3.8
Amarpatan	24-03-2023	58.8	36.6	15.1	21.9	426	447	391	10.2	11.0	8.7
Near Hemant Nagar	24-03-2023	50.9	42.2	14.9	21.5	408	423	398	8.0	10.1	8.4
Nadan	24-03-2023	71.2	44.9	15.9	26.1	421	445	399	9.3	11.1	8.6
Towards Block 10	24-03-2023	65.9	39.5	17.8	22.1	427	451	404	6.8	7.0	3.6

Note: Results related only to the sample tested

Methods For Measurement of Air Pollution in Ambient Air:

Parameters	Method	IS Code
PM ₁₀	Measurement of PM ₁₀ in Ambient Air	IS 5182(P23)
PM _{2.5}	Measurement of PM _{2.5} in Ambient Air	IS 5182(P24)
SO ₂	Measurement of SO ₂ in Ambient Air	IS 5182(P02)
NO ₂	Measurement of NO ₂ in Ambient Air	IS 5182(P06)
O ₃	Measurement of O ₃ in Ambient Air	IS 5182(P09)
CO	Measurement of CO in Ambient Air	IS 5182(P10)

A. Sudheerkumar

Verified by
(A. Sudheerkumar)
Analyst

M. Ravi Kiran

Authorized Signatory
(M. Ravi Kiran)
Managing director



PRAGATHI LABS & CONSULTANTS PVT.LTD.

(LAB RECOGNISED BY MINISTRY OF ENVIRONMENT & FORESTS, GOVT. OF INDIA)

(ISO 9001:2015, OHSMS ISO 45001:2018)

Plot No. B15 & 16, Industrial Estate, Behind Pollution Control Board
Opp. Bank of Baroda, Sanath Nagar, Hyderabad - 500 018. Telangana.
Telefax : 040-23717213 Mail : info@pragathilabs.com Web : www.pragathilabs.com

TEST REPORT



Issued to

M/s. AAA Resources Private Ltd.
02nd Floor, Industry House,
159, Churchgate Reclamation,
Mumbai - 400020, Maharashtra.

Date of Monitoring	27 th March, 2023	Date of Reporting	08 th April, 2023
Report No.	PLCPL/23/5788-5797/0963		
ULR No.	ULR-TC574123000000136F		
Sample particulars	Ambient Air, No. of samples: 10(Ten), Duration of sampling 24hrs.		
Instrument used	RDS 2874-DTE-2015, 3038-DTK-2016, 1341-DT2-2019, 3250-DT1-2019, 3258-DT1-2019, 55E-22, 56E-22, 080831, 071239; FDS 1950-DTL-2019, 1776-DTL-2017, 1816-DTH-2018, 1928-DTJ-2019, 1792-DTC-2018, 101F-22, 102F-22, FPS 101023, 101027. Make: Envirotech, Aerovironment, Instrumex.		
Test required	PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ , CO, O ₃	Method of analysis	IS: 5182
Sampling Done by	Field in charge, PLCPL		

Discipline: Chemical Testing

Group: Atmospheric air Pollution

TEST RESULTS

Locations	Date of monitoring	Concentration $\mu\text{g}/\text{m}^3$									
		PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO			O ₃		
07 th Day Observations						I	II	III	I	II	III
Mine Area (Block-1)	27-03-2023	57.4	35.4	14.3	21.4	450	461	428	6.3	7.7	6.7
Mine Area (Block-10)	27-03-2023	42.3	39.2	17.1	23.5	397	413	389	7.0	7.1	5.5
Barhiya	27-03-2023	71.8	39.1	20.1	25.7	395	405	382	8.3	8.7	7.6
Bhera	27-03-2023	53.2	36.5	16.0	22.5	421	426	412	8.4	9.2	7.9
Karsara	27-03-2023	49.3	36.3	16.0	21.6	443	443	432	3.1	4.7	3.9
Karaundi	27-03-2023	61.5	31.2	15.2	19.8	430	466	420	4.6	5.7	3.9
Amarpatan	27-03-2023	71.9	46.3	14.6	21.9	419	448	414	10.9	11.7	9.5
Near Hemant Nagar	27-03-2023	68.1	42.1	15.7	21.2	409	418	395	9.0	10.4	7.5
Nadan	27-03-2023	64.1	43.4	16.0	22.6	395	409	372	10.5	9.8	9.0
Towards Block 10	27-03-2023	59.8	37.0	14.4	20.7	401	416	378	6.8	7.2	4.0

Note: Results related only to the sample tested

Methods For Measurement of Air Pollution in Ambient Air:

Parameters	Method	IS Code
PM ₁₀	Measurement of PM ₁₀ in Ambient Air	IS 5182(P23)
PM _{2.5}	Measurement of PM _{2.5} in Ambient Air	IS 5182(P24)
SO ₂	Measurement of SO ₂ in Ambient Air	IS 5182(P02)
NO ₂	Measurement of NO ₂ in Ambient Air	IS 5182(P06)
O ₃	Measurement of O ₃ in Ambient Air	IS 5182(P09)
CO	Measurement of CO in Ambient Air	IS 5182(P10)

A. Sudheerkumar
Verified by
(A. Sudheerkumar)
Analyst

Authorized Signatory
(M. Ravi Kiran)
Managing director



PRAGATHI LABS & CONSULTANTS PVT.LTD.

(LAB RECOGNISED BY MINISTRY OF ENVIRONMENT & FORESTS, GOVT. OF INDIA)

(ISO 9001:2015, OHSMS ISO 45001:2018)

Plot No. B15 & 16, Industrial Estate, Behind Pollution Control Board
Opp. Bank of Baroda, Sanath Nagar, Hyderabad - 500 018. Telangana.
Telefax : 040-23717213 Mail : info@pragathilabs.com Web : www.pragathilabs.com

TEST REPORT



Issued to

M/s. AAA Resources Private Ltd.
02nd Floor, Industry House,
159, Churchgate Reclamation,
Mumbai - 400020, Maharashtra

Date of Monitoring	28 th March, 2023	Date of Reporting	08 th April, 2023
Report No.	PLCPL/23/5807-5816/0964		
ULR No.	ULR-TC574123000000136F		
Sample particulars	Ambient Air, No. of samples: 10(Ten), Duration of sampling 24hrs.		
Instrument used	RDS 2874-DTE-2015, 3038-DTK-2016, 1341-DT2-2018, 3250-DT1-2019, 3258-DTI-2019, 55E-22, 56E-22, 080831, 071239; FDS 1950-DTL-2019, 1776-DTL-2017, 1816-DTH-2018, 1928-DTJ-2019, 1792-DTC-2018, 101F-22, 102F-22, FPS 101023, 101027. Make: Envirotech, Aerovironment, Instrumex.		
Test required	PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ , CO, O ₃	Method of analysis	IS: 5182
Sampling Done by	Field in charge, PLCPL		

Discipline: Chemical Testing

Group: Atmospheric air Pollution

TEST RESULTS

Locations	Date of monitoring	Concentration $\mu\text{g}/\text{m}^3$									
		PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO			O ₃		
08 th Day Observations											
						I	II	III	I	II	III
Mine Area (Block-1)	28-03-2023	56.8	33.4	14.1	19.6	441	448	420	8.5	8.2	7.4
Mine Area (Block-10)	28-03-2023	53.1	35.4	14.7	20.8	383	420	377	6.8	7.5	6.1
Barhiya	28-03-2023	70.0	40.5	19.0	24.4	396	417	377	9.5	10.5	8.4
Bhera	28-03-2023	62.1	39.9	16.5	23.4	405	412	400	8.7	9.0	8.2
Karsara	28-03-2023	58.1	36.1	15.2	22.3	430	441	431	3.3	5.2	4.0
Karaundi	28-03-2023	59.0	34.7	14.1	18.6	428	460	418	5.3	6.4	4.9
Amarpatan	28-03-2023	55.9	35.9	15.3	22.3	441	465	439	10.3	10.6	9.0
Near Hemant Nagar	28-03-2023	65.0	41.3	15.4	21.6	406	423	393	9.7	10.7	8.2
Nadan	28-03-2023	61.7	41.2	15.2	23.7	382	423	360	9.6	10.4	8.1
Towards Block 10	28-03-2023	56.9	35.3	14.2	20.1	388	428	366	6.6	7.7	4.2

Note: Results related only to the sample tested

Methods For Measurement of Air Pollution in Ambient Air:

Parameters	Method	IS Code
PM ₁₀	Measurement of PM ₁₀ in Ambient Air	IS 5182(P23)
PM _{2.5}	Measurement of PM _{2.5} in Ambient Air	IS 5182(P24)
SO ₂	Measurement of SO ₂ in Ambient Air	IS 5182(P02)
NO ₂	Measurement of NO ₂ in Ambient Air	IS 5182(P06)
O ₃	Measurement of O ₃ in Ambient Air	IS 5182(P09)
CO	Measurement of CO in Ambient Air	IS 5182(P10)

A Sudheerkumar
Verified by
(A. Sudheerkumar)
Analyst

(Signature)
Authorized Signatory
(M. Ravi Kiran)
Managing director



PRAGATHI LABS & CONSULTANTS PVT.LTD.

(LAB RECOGNISED BY MINISTRY OF ENVIRONMENT & FORESTS, GOVT. OF INDIA)

(ISO 9001:2015, OHSMS ISO 45001:2018)

Plot No. B15 & 16, Industrial Estate, Behind Pollution Control Board
Opp. Bank of Baroda, Sanath Nagar, Hyderabad - 500 018. Telangana.
Telefax : 040-23717213 Mail : info@pragathilabs.com Web : www.pragathilabs.com

TEST REPORT



Issued to

M/s. AAA Resources Private Ltd.
02nd Floor, Industry House,
159, Churchgate Reclamation,
Mumbai - 400020, Maharashtra

Date of Monitoring	31 st March - 01 st April, 2023	Date of Reporting	08 th April, 2023
Our Report No.	PLCPL/23/5872-5877, 5878-5881/0965		
ULR No.	ULR-TC574123000000136F	Test required	Recording Noise Levels
Location particulars	Noise, No. of locations: 10 (Ten)		
Instrument used	Sound Level Meter, Make: HTC, S.No: N865842		
Method of analysis	IS: 9989	Readings Taken By	Field in charge, PLCPL

Discipline: Chemical Testing
Group: Atmospheric Pollution

RESULTS

Location	Date of Monitoring	Noise Levels in dB (A)	
		L _{day}	L _{night}
Mine Site(Block-1)	01-04-2023	52	40
Mine Site(Block-10)	01-04-2023	52	39
Barhiya	01-04-2023	56	42
Bhera	01-04-2023	53	40
Karsara	31-03-2023	50	38
Karaundi	31-03-2023	48	36
Amarpatan	31-03-2023	61	49
Near Hemant nagar	31-03-2023	47	34
Nadan	31-03-2023	53	39
Jura	31-03-2023	49	37

National Ambient Air Quality Standards in Respect of Noise

Category of Area	Limits in dB (A)	
	Day Time	Night Time
Industrial Area	75	70
Residential Area	55	45
Commercial Area	65	55

A. Sudheerkumar
Verified by
(A. Sudheerkumar)
Analyst

(Signature)
Authorized Signatory
(M. Ravi Kiran)
Managing director



PRAGATHI LABS & CONSULTANTS PVT.LTD.

(LAB RECOGNISED BY MINISTRY OF ENVIRONMENT & FORESTS, GOVT. OF INDIA)

(ISO 9001:2015, OHSMS ISO 45001:2018)

Plot No. B15 & 16, Industrial Estate, Behind Pollution Control Board
Opp. Bank of Baroda, Sanath Nagar, Hyderabad - 500 018. Telangana.
Telefax : 040-23717213 Mail : info@pragathilabs.com Web : www.pragathilabs.com

TEST REPORT



Issued to

M/s. AAA Resources Private Ltd.
02nd Floor, Industry House,
159, Churchgate Reclamation,
Mumbai - 400020, Maharashtra

Date of Sampling	22 nd March, 2023	Date of Reporting	08 th April, 2023
Report No.	PLCPL/23/5722/0966	ULR No.	ULR-TC5741230000000136F
Method of Sampling	IS: 3025 (P 1)		
Sample Particulars	Surface water Sample, No. of samples: 01 (One), packed in one PVC Water Cans of 2liter qty and bsgb bottle		
Sample Location	SW-1(Tons River Near Amilia),		
Test required	pH, EC, TDS, T. Hardness, Ca, Mg, Cu, Fe , Cl- SO ₄ , NO ₃ , Cd, F, Mn, Zn, As, Hg, Pb, Cr ⁶ , Percent Sodium , Sodium Absorption Ratio, COD, BOD, O&G		
Sampling Done by	Field in charge, PLCPL	Method of analysis	IS:3025&APHA 23 RD Edition

Discipline: Chemical Testing

Group: Water

TEST RESULTS

No.	Parameters	Units	SW-1	IS: 2296	
				Class-C	Class-E
1	pH Value	--	7.1	8.5	8.5
2	Conductivity	µmhos/cm	1310	NS	2250
3	TDS	mg/L	865	1500	2100
4	Total Alkalinity as CaCO ₃	mg/L	288	NS	NS
5	Total Hardness as CaCO ₃	mg/L	380	NS	NS
6	Chlorides as Cl	mg/L	195	600	600
7	Sulphate as SO ₄	mg/L	74	400	1000
8	Nitrate as NO ₃	mg/L	3.1	50	NS
9	Fluoride as F	mg/L	0.9	1.5	NS
10	Calcium as Ca	mg/L	82	NS	NS
11	Magnesium as Mg	mg/L	43	NS	NS
12	Copper as Cu	mg/L	0.2	1.5	NS
13	Iron as Fe	mg/L	0.6	50	NS
14	Manganese as Mn	mg/L	<0.1	NS	NS
15	Zinc as Zn	mg/L	3.5	15	NS
16	Lead as Pb	mg/L	<0.1	0.1	NS
17	Cadmium as Cd	mg/L	<0.01	0.01	NS
18	Chromium as Cr ⁶⁺	mg/L	<0.05	0.05	NS
19	Oil & Grease	mg/L	<0.1	<0.1	<0.1
20	DO	mg/L	4.9	4.9	5.8
21	COD	mg/L	16	16	14
22	BOD (3 days at 27°C)	mg/L	4.0	6	4
23	Arsenic as As	mg/L	<0.2	<0.2	<0.2
24	Mercury as Hg	mg/L	<0.001	<0.001	<0.001
25	Percent sodium	%	42	20	25
26	Sodium absorption ratio	--	2.8	NS	NS

Note: Results only to the sample tested, NS: Not Specified, NS: Not specified in IS:2296(Class c)

K. Anusha
Verified by
(K. Anusha)
Analyst

M. Ravi Kiran
Authorized Signatory
(M. Ravi Kiran)
Managing director



PRAGATHI LABS & CONSULTANTS PVT.LTD.

(LAB RECOGNISED BY MINISTRY OF ENVIRONMENT & FORESTS, GOVT. OF INDIA)

(ISO 9001:2015, OHSMS ISO 45001:2018)

Plot No. B15 & 16, Industrial Estate, Behind Pollution Control Board
Opp. Bank of Baroda, Sanath Nagar, Hyderabad - 500 018. Telangana.
Telefax : 040-23717213 Mail : info@pragathilabs.com Web : www.pragathilabs.com

TEST REPORT

Issued to

M/s. AAA Resources Private Ltd.
02nd Floor, Industry House,
159, Churchgate Reclamation,
Mumbai - 400020, Maharashtra



Date of Sampling	22 nd March, 2023	Date of Reporting	08 th April, 2023
Report No.	PLCPL/23/5722/0967	ULR No.	ULR-TC5741230000000136F
Method of Sampling	IS:1622		
Sample Particulars	Surface water Sample, No. of samples: 01 (One), packed in one PVC Water Cans of 2liter qty and bsgb bottle		
Sample Location	SW-1(Tons River Near Amilia),		
Test required	Total coliform bacteria, Fecal Coliform		
Sampling Done by	Field in charge, PLCPL	Method of Analysis	APHA 23 RD Edition

Discipline: Biological Testing
Group: Water

TEST RESULTS

No.	Parameters	Units	SW-1	IS: 2296	
				Class-C	Class-E
1	Total Coliforms	MPN/100ml	840	5000	NS
2	Fecal Coliform	MPN/100ml	2.0	Nil	NS

Note: Results only to the sample tested,

Verified by
(V.Sandhya)
Analyst

Authorized Signatory
(M. Ravi Kiran)
Managing director



PRAGATHI LABS & CONSULTANTS PVT.LTD.

(LAB RECOGNISED BY MINISTRY OF ENVIRONMENT & FORESTS, GOVT. OF INDIA)

(ISO 9001:2015, OHSMS ISO 45001:2018)

Plot No. B15 & 16, Industrial Estate, Behind Pollution Control Board
Opp. Bank of Baroda, Sanath Nagar, Hyderabad - 500 018. Telangana.
Telefax : 040-23717213 Mail : info@pragathilabs.com Web : www.pragathilabs.com

TEST REPORT



Issued to

M/s. AAA Resources Private Ltd.
02nd Floor, Industry House,
159, Churchgate Reclamation,
Mumbai - 400020, Maharashtra

Date of Sampling	18 th & 31 st March, 2023	Date of Reporting	08 th April, 2023
Report No.	PLCPL/23/5571-5573, 5856-5861/0968		
Method of Sampling	IS: 3025 (P 1)	ULR No.	ULR-TC5741230000000136F
Sample Particulars	Ground Water Sample, No. of samples: 09 (Nine), packed in one PVC Water Cans of 2liter qty and bsgb bottle each		
Sample Location	GW-1(Mine site (Block-1)), GW-2(Mine Area (Block-10)), GW-3(Barhiya), GW-4 (Bhera), GW-5(Karsara), GW-6(Karaundi), GW-7(Amarpatan), GW-8(Hemant Nagar), GW-9(Jura)		
Test required	Turbidity, Taste, pH, EC, TDS, TSS, T. Hardness, Ca, Mg, Mn, Cu, Fe, Cl, SO ₄ , NO ₃ , Cd, Pb, Zn, Cr ⁶⁺ , F, Free Residual Chlorine, Total Alkalinity, As, Phenolic Compounds,		
Sampling Done by	Field in charge, PLCPL	Method of Analysis	IS:3025&APHA 23 RD Ed.

Discipline: Chemical Testing
Group: Water

Test results

Parameters	Units	Sample code									IS : 10500	
		GW1	GW2	GW3	GW4	GW5	GW6	GW7	GW8	GW9	Acceptable	Permissible
Taste	--	Agr.	Agr.	Agr.	Agr.	Agr.	Agr.	Agr.	Agr.	Agr.	Agr.	Agr.
Turbidity	NTU	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1	5
pH value	--	7.1	7.2	7.1	7.3	7.6	7.2	7.3	7.5	7.0	6.5 to 8.5	NR
Electrical Conductivity	umhos/cm	924	1072	965	656	1275	1480	1026	1194	1423	NS	NS
TDS	mg/L	610	707	637	433	842	977	678	789	940	500	2000
TSS	mg/L	4.0	7.0	5.0	4.0	9.0	6.0	5.0	10	8.0	NS	NS
T. Hardness as CaCO ₃	mg/L	276	312	280	176	360	420	292	348	396	200	600
Iron as Fe	mg/L	0.8	0.5	0.9	0.7	1.0	1.3	0.5	0.9	1.1	1	NR
Chlorides as Cl	mg/L	130	160	140	105	195	225	155	175	220	250	1000
Calcium as Ca	mg/L	69	79	74	50	83	99	78	84	109	75	200
Magnesium as Mg	mg/L	25	28	23	13	37	42	23	34	30	30	100
Nitrates as NO ₃	mg/L	12	16	14	11	15	28	17	19	22	45	45
Copper as Cu	mg/L	0.4	0.2	0.3	0.4	0.7	0.8	0.3	0.6	0.5	0.05	1.5
Sulphate as SO ₄	mg/L	57	66	61	45	91	107	62	82	95	200	400
Fluorides as F	mg/L	1.0	1.0	1.1	1.0	1.1	1.1	1.1	1.0	1.1	1	1.5
Cadmium as Cd	mg/L	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.003	NR
Lead as Pb	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.01
Zinc as Zn	mg/L	4.8	5.4	4.9	4.6	5.8	6.2	5.1	5.5	6.0	5	15
T. Alkalinity as CaCO ₃	mg/L	212	236	216	128	256	296	216	252	288	200	600
Mercury as Hg	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	NR
Arsenic as As	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	NR

Note: Results only to the sample tested, NS: Not Specified, NR: No Relaxation in IS: 10500, Agr-Agreeable.

K. Anusha
Verified by
(K. Anusha)
Analyst

M. Ravi Kiran
Authorized Signatory
(M. Ravi Kiran)
Managing Director



PRAGATHI LABS & CONSULTANTS PVT.LTD.

(LAB RECOGNISED BY MINISTRY OF ENVIRONMENT & FORESTS, GOVT. OF INDIA)

(ISO 9001:2015, OHSMS ISO 45001:2018)

Plot No. B15 & 16, Industrial Estate, Behind Pollution Control Board
Opp. Bank of Baroda, Sanath Nagar, Hyderabad - 500 018. Telangana.
Telefax : 040-23717213 Mail : info@pragathilabs.com Web : www.pragathilabs.com

TEST REPORT

Issued to

M/s. AAA Resources Private Ltd.
02nd Floor, Industry House,
159, Churchgate Reclamation,
Mumbai – 400020, Maharashtra



Date of Sampling	18 th & 31 st March, 2023	Date of Reporting	08 th April, 2023
Report No.	PLCPL/23/5571-5573, 5856-586/0969		
Method of Sampling	IS:1622	ULR No.	ULR-TC574123000000136F
Sample Particulars	Ground Water Sample, No. of samples: 09(Nine), packed in one PVC Water Cans of 2liter qty and bsgb bottle each		
Sample Location	GW-1(Mine site (Block-1)), GW-2(Mine Area (Block-10)), GW-3(Barhiya), GW-4 (Bhera), GW-5(Karsara), GW-6(Karaundi), GW-7(Amarpatan), GW-8(Hemant Nagar), GW-9(Jura)		
Test required	Fecal Coliform, Total coliform bacteria		
Sampling Done by	Field in charge, PLCPL	Method of Analysis	APHA 23 rd Edition

Discipline: Biological Testing
Group: Water

TEST RESULTS

Parameter	Units	Sample code									IS : 10500	
		GW1	GW2	GW3	GW4	GW5	GW6	GW7	GW8	GW9	Acceptable	Permissible
Total Coliform Bacteria	MPN/100ml	Abs.	Abs.	Abs.	Abs.	Abs.	Abs.	Abs.	Abs.	Abs.	Absent	Absent
Fecal coliform	MPN/100ml	Abs.	Abs.	Abs.	Abs.	Abs.	Abs.	Abs.	Abs.	Abs.	Absent	Absent

Note: Abs.: Absent


Verified by
(V.Sandhya)
Analyst


Authorized Signatory
(M. Ravi Kiran)
Managing director



PRAGATHI LABS & CONSULTANTS PVT.LTD.

(LAB RECOGNISED BY MINISTRY OF ENVIRONMENT & FORESTS, GOVT. OF INDIA)

(ISO 9001:2015, OHSMS ISO 45001:2018)

Plot No. B15 & 16, Industrial Estate, Behind Pollution Control Board
Opp. Bank of Baroda, Sanath Nagar, Hyderabad - 500 018. Telangana.
Telefax : 040-23717213 Mail : info@pragathilabs.com Web : www.pragathilabs.com

TEST REPORT

Issued to

M/s. AAA Resources Private Ltd.
02nd Floor, Industry House,
159, Church gate Reclamation,
Mumbai - 400020, Maharashtra.



Date of Sampling	18 th & 31 st March, 2023	Date of Reporting	08 th April, 2023
Method of Sampling	IS: 2720	ULR No.	ULR-TC5741230000000136F
Report No	PLCPL/23/5574-5576, 5853-5855, 5862-5863, 5870-5871/0970		
Sample Particulars	Soil Samples, No. of samples: 10 (Ten), Each packed in one kg polythene bag		
Sample Location	Mine Area(Block-1)-S1, Mine Soil (Block-10)-S2, Barhiya-S3, Bhera-S4, Karsara-S5, Karaundi-S6, Amarpatan-S7, Hemant Nagar-S8, Nadan-S9, Jura-S10		
Test required	EC, pH, Texture, Bulk Density, N, P ₂ O ₅ , K ₂ O, Organic Carbon, Ca, Mg, Na.		
Sampling Done by	Field in charge, PLCPL		

Discipline: Chemical Testing

Group: Pollution and Environment

TEST RESULTS

No.	Parameters	Units	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10
1	EC	µmhos/cm	228	121	318	119	168.5	93.7	297	284	191	229
2	pH	-	7.4	6.9	7.1	7.7	7.2	6.9	6.7	6.8	7.8	6.6
3	Soil Texture	-	Clay	Clay	Clay	Sandy Clay	Clay	Clay	Clay	Clay	Clay	Sandy Clay
i	Sand	%	22	25	20	48	18	34	20	34	28	46
ii	Silt	%	33	34	31	12	37	25	27	15	20	11
iii	Clay	%	45	41	49	40	45	41	53	51	52	43
4	Bulk Density	g/cc	1.19	1.25	1.04	1.08	1.02	1.31	1.28	1.16	1.06	1.35
5	Available Nitrogen as N	Kg/ha	50.17	41.81	62.74	47.04	55.75	53.76	50.17	41.81	62.72	36.85
6	Available Phosphorus as P ₂ O ₅	Kg/ha	54.6	61	45.6	54.7	60.7	45.5	68.3	63.8	72.9	60.7
7	Available Potassium as K ₂ O	Kg/ha	140	151.2	160.1	137.76	132.16	221.76	184.8	164.64	143.36	252
8	Organic Matter	%	0.8	0.97	0.72	0.24	0.96	1.69	1.82	1.57	1.45	0.6
9	Exchangeable Calcium as Ca	meq/100g	43.4	37.8	42	32.2	39.2	43.4	45.0	43.0	33.6	36.4
10	Exchangeable Magnesium as Mg	meq/100g	9.8	7.0	11.2	9.1	8.4	7.0	8.4	6.5	6.9	8.3
11	Exchangeable Sodium as Na	mg/kg	49	41.5	59	46.5	45.5	51	34.5	57.5	48	58.5

Verified by
(Aishwarya B)
Analyst

Authorized Signatory
(M. Ravi Kiran)
Managing director



PRAGATHI LABS & CONSULTANTS PVT.LTD.

(LAB RECOGNISED BY MINISTRY OF ENVIRONMENT & FORESTS, GOVT. OF INDIA)

(ISO 9001:2015, OHSMS ISO 45001:2018)

Plot No. B15 & 16, Industrial Estate, Behind Pollution Control Board
Opp. Bank of Baroda, Sanath Nagar, Hyderabad - 500 018. Telangana.
Telefax : 040-23717213 Mail : info@pragathilabs.com Web : www.pragathilabs.com

TEST REPORT

Issued to

M/s. AAA Resources Private Ltd.
02nd Floor, Industry House,
159, Churchgate Reclamation,
Mumbai - 400020, Maharashtra.

Date of Sampling	18 th & 31 st March, 2023	Date of Reporting	08 th April, 2023
Method of Sampling	IS: 2720	ULR No.	ULR-TC5741230000000136F
Report No	PLCPL/23/5574-5576, 5853-5855, 5862-5863, 5870-5871/0971		
Sample Particulars	Soil Samples, No. of samples: 10 (Ten), Each packed in one kg polythene bag		
Sample Location	Mine Area(Block-1)-S1, Mine Soil (Block-10)-S2, Barhiya-S3, Bhera-S4, Karsara-S5, Karaundi-S6, Amarpatan-S7, Hemant Nagar-S8, Nadan-S9, Jura-S10		
Test required	Organic Carbon, Porosity, Water Holding Capacity.		
Sampling Done by	Field in charge, PLCPL		

Discipline: Chemical Testing
Group: Pollution and Environment

TEST RESULTS

No.	Parameters	Units	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10
1	Organic Carbon	%	0.49	0.56	0.42	0.14	0.56	0.98	1.0	0.9	0.84	0.350
2	Porosity	%	52	50	53	41	49	51	53	50	48	43
3	Water Holding Capacity	%	31	35	37	19	36	33	38	30	34	22

Verified by
(Aishwarya B)
Analyst

Authorized Signatory
(M. Ravi Kiran)
Managing director

BASELINE MONITORING PHOTOGRAPHS
AMBIENT AIR QUALITY MONITORING (AAQM)



AAQ1: Mine Area (Block-1)



AAQ2: Mine Area (Block-10)



AAQ3: Barhiya Village



AAQ4: Bhera Village



AAQ5: Karsara



AAQ6: Karaundi



AAQ7: Amarpatan



AAQ8: Hemantnagar



AAQ9: Nandan



AAQ10: Jura

NOISE MONITORING PHOTOGRAPHS



N1: Mine Area (Block-1)



N2: Mine Area (Block-10)



N3: Barhiya



N4: Bhera



N5: Karsara



N6: Karaundi



N7: Amarpatan



N8: Hemantnagar



N9: Nadan



N10: Jura

WATER MONITORING PHOTOGRAPHS

GROUND WATER



GW1: Mine Area (Block-1)



GW2: Mine Area (Block-10)



GW3: Barhiya



GW4: Bhera



GW5: Karsara



GW6: Karaundi



GW7: Amarpatan



GW8: Hemantnagar



GW9: Jura



SW1: Tons River near Amelia

**SOIL MONITORING
PHOTOGRAPHS**



S1: Mine Area (Block-1)



S2: Mine Area (Block-10)



S3: Barhiya



S4: Bhera



S5: Karsara



S6: Karaundi



S7: Amarpatan



S8: Hemantnagar



S9: Nadan



S10: Jura

ADS Point No. 04

The Project Proponent needs to revisit the safety distance of 300m to be left for habitation in consultation with DGMS.

REPLY:

Mining operations will commence beyond 500 m from the habitation. Safety distances of 100m, 300m and 500m from nearest habitation, roads, etc. have been marked on the Surface Plan.

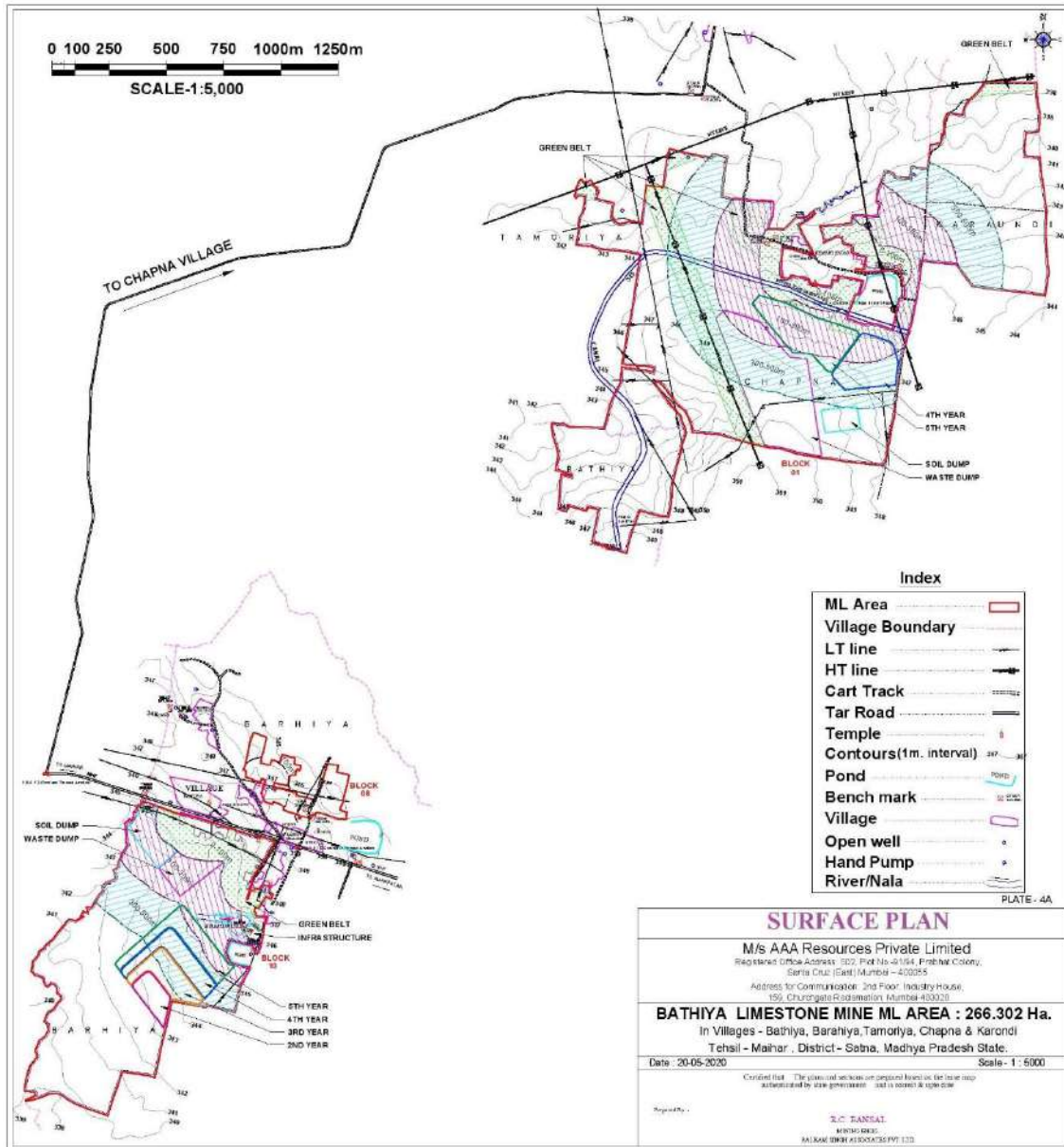
A safety barrier of 100 m wide is considered with green-belt. On this safety barrier of 100 m no mining activities will be done. The company would ensure that:

- 1) No mining activity to be carried out within 100 m from habitation
- 2) Beyond 100 m and within 300 m from habitation, controlled blasting will be conducted as per the conditions prescribed by DGMS under regulation 164 of MMR 1961

Moreover, following measures will also be taken to safeguard nearby habitations from blasting:

- a) Mining will commence beyond 500m from the habitation.
- b) After opening of the mine, the management will initially carry out ground vibration study through reputed institute to determine maximum charge per hole and charge to be blasted per delay so that vibrations are minimized and kept within permissible safe limits fixed by DGMS.
- c) The company will obtain necessary permission from DGMS under Regulation no. 164 of MMR'1961 for conducting controlled blasting within 300m but beyond 100m from Habitation.
- d) Preparation of charge and charging and stemming of holes will be done by a qualified blaster. Proper stemming of holes will be always carried out.
- e) Muffle blasting and pre-splitting will be practiced to control fly rock and vibration propagation.
- f) Before a shot is charged, stemmed or fired, sufficient warnings by signal will be given over the entire area falling within the danger zone and ensure that all persons within such area have taken proper shelter.
- g) Delay detonators will be used between holes as per the face configuration and advance planning. Short delay in blasting of successive blast holes effectively reduce the vibration problem and prevent flying fragments
- h) Proper inspection after shot firing will be done by the blaster
- i) All necessary precautions as enumerated under Metalliferous Mines Regulations will be taken
- j) Free face will be sufficiently cleared from any loose material before blasting
- k) Number of holes to be blasted at a time will be kept minimum to control the vibration and noise
- l) Holes will be fired towards the free face. Blasting will be avoided during foggy weather and high wind velocity
- m) Over charging will be avoided. The maximum charge per delay will be kept within limit to minimize ground vibration.

Surface plan showing Safety distances of 100m, 300m and 500m from nearest habitation, roads, etc. is shown below.:



ADS Point No. 05

The Project Proponent needs to submit the action plan for promotion of solar energy in the mine lease area and to the local people and also the action plan to reduce the diesel consumption by deploying CNG/Electric vehicles.

REPLY:

Action plan for promotion of Solar Energy in the mining lease area and to the local people is as under :

- 1) Solar panels shall be installed on roof-top of infrastructure buildings like Mine office, Workshop etc. It would cover an area of around 300 sq. mt. to generate 15 KW of green energy.
- 2) Solar street lighting will be provided in the village roads, and
- 3) Solar lantern will be provided to local people.

Sr. No.	Item	Number / Capacity	Estimated cost (Rs.)	Timeline
1.	Roof-top solar panel within premise for office power requirement	15 KW	15.00 lakh	During first year of mining
2.	Solar street lights in nearby villages	50 nos.	7.50 lakh	Within three years of mining
3.	Solar lanterns to nearby villagers	500 nos.	4.00 lakh	Within three years of mining

Action plan to reduce the diesel consumption by deploying CNG/ Electric vehicles is as under:

- a) Presently CNG filling station is not available in the area, as and when such facility is available, company will explore the possibility of deploying CNG vehicles.
- b) Electric trucks are not common in mining at present. Possibility will be explored after techno-commercial assessment.

ADS Point No. 6

The Project Proponent needs to submit an action plan for the purpose of local employment in such a way that atleast one person in PAF's shall get employment.

REPLY :

The mining lease, when operational, will generate employment of 132 nos. in various categories. PAFs will be given preference in employment as per their qualification and skill set.

Mining is an employment multiplier sector. One direct job in mining creates 10 additional indirect jobs in the economy. (source : Indian Mining a glimpse, publication by Federation of Indian Mineral Industries, February 2023). Thus, Bathiya mine is expected to generate direct and indirect employment opportunities of about 1450 nos. and PAFs (639) will get priority.

Indirect employment opportunities are likely to be generated in service related activities like transportation of limestone; ancillary services like repair workshops; trading services for consumer goods, spare parts, sundry items; green belt and horticultural works in the project; etc.

Apart from direct and indirect employment opportunities to PAFs, Company proposes following activities for youths, women, farmers etc. for upgrading their skill set to make them employable, self-employed and / or increase their income level.

1. Organizing skill development trainings to identified youth in the trades like computer literacy, accounting, driving, fitters, welders, electricians, security, masons, plumbers, carpenters, hospitality, house-keeping, horticulture, gardening etc.
2. Support and facilitation for income generation activities to women by formation of self-help groups for self-sustaining activities, training on computer literacy, beautician course, accounting, hospitality, dairy farming, poultry farming, kitchen gardening etc.
3. Increase the income level of farmers through following programs / activities :
 - i. Capacity building program / skill development to the farmers and exposure visits to enhance yield from the agriculture.

- ii. Awareness program on better agriculture practices, increasing yield, availability of improved & new variety of seeds, fertilizer, better irrigation practices, mechanized farming, farm-yard manure, organic farming etc. in consultation with experts from agriculture deptt, agriculture university, Krishi Vigyan Kendra (KVK) etc.
- iii. Facilitating in checking of soil quality and measures for increasing the fertility.
- iv. Facilitating in development of horticultural produce to create tree-based farming system, kitchen garden activities.
- v. Facilitating in creation of Farmers Producer Organisation (FPO).
- vi. Livestock development through artificial insemination, poultry.
- vii. Animal husbandry program like breed development, vaccination, green fodder cultivation & training etc.

ADS Point No. 09

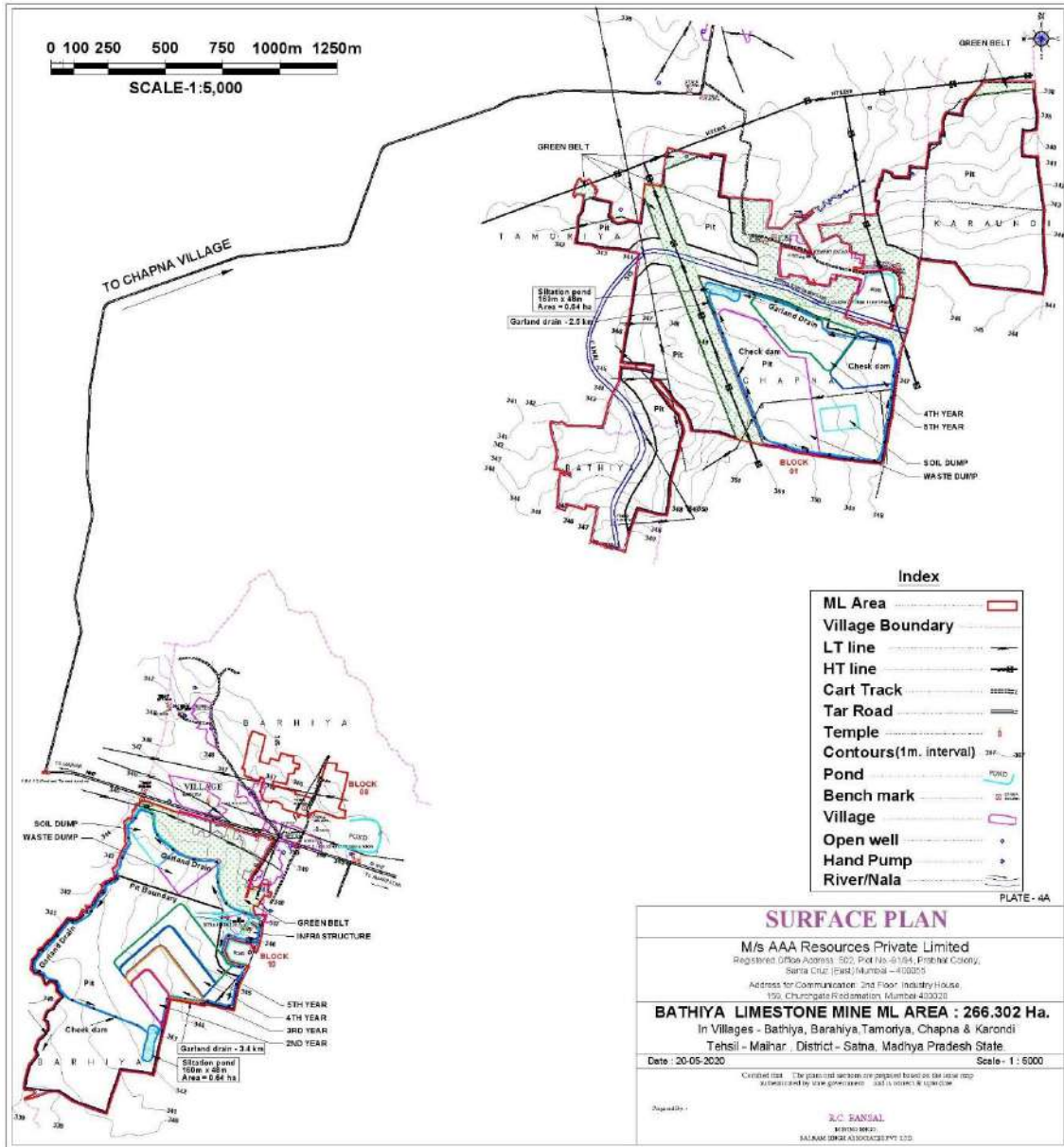
The Project Proponent needs to carry out hydrogeology study and indicate location of garland drains, retaining walls and silt check dam.

REPLY:

Detailed hydrogeology study was carried out and report is attached as an Annexure to EIA. Garland drains will be made around the mining pits to channelize surface water from higher elevation areas to nearby areas outside mining lease. The Garland drains will have silt check dams at regular interval. Finally the Garland drains will be terminated into settling ponds where the sediments will get settled.

Retaining walls will be erected around the temporary waste dumps, which will eventually be backfilled into the mined out pits.

Proposed locations of garland drain, settling ponds and silt check dams are shown on the surface plan given below:





Government of India
Ministry of Jal Shakti
Department of Water Resources, River Development and Ganga Rejuvenation
Central Ground Water Authority (CGWA)

Enclosure-8



Application for Issue of NOC to Abstract Ground Water (NOCAP)

Logout

Welcome : AAAResources

Previous Login Date Time: 19/04/2023 17:42:37 PM , IP Address: 122.177.109.168

[Applicant Home](#) | [Apply](#) | [Feedback](#) | [Change Password](#) | [Profile](#) | [Grievance](#) | [Payment](#)

Information

[Guidelines](#)

[Steps for Filling Online Application](#)

Documents Required

[Documents Required for Online Application](#)

- [▶ Industrial](#)
- [▶ Infrastructure](#)
- [▶ Mining](#)

Track Status

[Application Status](#)

- [▶ Online](#)

Location

- [Area Type](#)
- [Segment-B Area Type](#)
- [Regional office](#)
- [Location](#)
- [CGWA Headquarters](#)
- [Know Your Environmental Compensation\(EC\)](#)
- [Know Your Penalty](#)
- [Ground Water Abstraction/Restoration Charges](#)

Reports

- [Applied for NOC - Online](#)
- [NOC Issued-Online](#)

Contact Us

[Contact](#)

Application Status

Application No : 21-4/1658/MP/MIN/2022

Receive Date : 11/01/2023

Name of Mining : BATHIYA LIMESTONE MINE

Application Processing Fee : Rs. 10000.00/- (Rupees Ten Thousand Only) (Submitted: Yes)

Ground Water Abstraction/Restoration Charge : Ground Water Quality Approved

Ground Water Charge Required: Not Define

Charge:

SN	Submitted Amount	Submitted	Submitted Date	Amount to be submitted	Due Date
1	309000.00	Yes	11/11/2022	309000.00	11/11/2023

Area:

No Record Exists.

Current Stage : Application Processing Stage

Current Status : In Process

Address : Central Ground Water Authority
18/11, Jamnagar House, Man Singh Road
NEW DELHI
DELHI

Current Status

Application Verification

Receive Date	From User Name	To User Name	Forwarded User Name	Action Date	Action Internal Status	Action Comment	Copy of Application Received On
15/11/2022		(Evaluation Officer) Central Ground Water Board North Central Region	(Evaluation Officer) Central Ground Water Board North Central Region	29/11/2022	Approved	APPROVED	

Application Processing

Receive Date	From User Name	To User Name	Forwarded User Name	Action Date	Action Internal Status	Action Comment	Ground Water Recom Per Day	Ground Water Recom Annual
29/11/2022	(Evaluation Officer) Central Ground Water Board North Central Region	(Evaluation Officer) Central Ground Water Board North Central Region	(Approval Officer) Central Ground Water Authority	14/12/2022	Forward	Forward to AO	412.00	123600.00
14/12/2022	(Evaluation Officer) Central Ground Water Board North Central Region	(Approval Officer) Central Ground Water Authority	(Regional Director-HQ) Central Ground Water Authority	11/01/2023	Forward		412.00	123600.00
11/01/2023	(Approval Officer) Central Ground Water Authority	(Regional Director-HQ) Central Ground Water Authority					412.00	123600.00

NOC Processing

Receive Date	From User Name	To User Name	Forwarded User Name	Action Date	Action Internal Status	Action Comment
--------------	----------------	--------------	---------------------	-------------	------------------------	----------------

No Record for this Stage.

NOC Disbursement

Receive Date	From User Name	To User Name	Forwarded User Name	Action Date	Action Internal Status	Action Comment
--------------	----------------	--------------	---------------------	-------------	------------------------	----------------

No Record for this Stage.



High Court of Madhya Pradesh



Download App

HOME | JUDGMENT/ORDER'S | CASE STATUS | CAUSELIST | COPYING | CAVEAT | ROSTER |
DISTRICT COURT | E-SERVICES

Hon'ble Judges

Portfolio Judges

Committees

Registry Officers

Registrars
(Ministerial)Administrative
Setup

Gradation List

Circulars / Orders

Transfer / Posting

Photo Gallery

Video Gallery

Recruitment /
Result

Mediation

Legal Services

Tenders

e-Courts

Information

Juvenile Justice

Commercial Court

Cases

Judicial Training

Right to Information

ILR Journal

Museum

Online Court Fee

Tracking (District)

Rules

GSICC Committee

Standing Counsel

Calendar

Reports

Case Statistics

Reports

Child Custody

News and Events

Principal Seat Jabalpur

Jabalpur ▾

Case Number	Party Name	Counsel Name	Lawyer Enroll	District Court	Crime No./Year
-------------	------------	--------------	---------------	----------------	----------------

Captcha

6 2 0



Enter Captcha

Type

Number

Year

WP - WRIT PETITION ▾

484

2017 ▾

SHOW

Details ▾

Earlier Court ▾

Connected ▾

Listing ▾

I.A. ▾

Documents ▾

Notices ▾

Defaults ▾

Judgement/Orders ▾

Adjustments ▾

Mention Memo ▾

Restoration ▾

DropNote ▾

Appearance ▾

Paper Book ▾

Certified Copying ▾

Court Fee ▾

Pending

Case No.

WRIT PETITION (WP) 484/2017 Registered On 09-01-2017

Last page

Last Listed On

31-03-2023 [HON'BLE THE CHIEF JUSTICE, HON'BLE SHRI JUSTICE VISHAL MISHRA]

Last Order

Rule Nisi-Ord dt:31/03/2023

Status

Pending - Issue Rule Nisi

» Best Practices & Achievement
 » Action Plan

Stage	Final Hearing (Writ Civil - RULE NISI) (Writ Civil - OTHER THAN ABOVE) (16. Regular Case)
Statutory Info.	[FOR FINAL HEARING (RULE NISI)]
Bench	Divisional Bench
NOT LIST BEFORE	HON'BLE SHRI JUSTICE SANJAY DWIVEDI
NOT GO BEFORE (By Advocate)	
Category	MINES AND MINERALS-15100 Mines and Minerals (Regulation and Development)Act 1957-15102 Mines and Minerals (Regulation and Development)Act 1957-15102
Act	
Petitioner(s)	1 SNS MINERALS LTD. THR. SHRI S.P. TIWARI HOLDING POWER OF ATTORNEY ON BEHALF OF THE COMPANY A COMPANY INCORPORATED UNDER THE COMPANIS ACT KOLKATA , Kolkata , WEST BENGAL
Respondent(s)	1 THE STATE OF MADHYA PRADESH THR. SECRETARY M.P. MINERAL RESOURCES DEPARTMENT VALLABH BHAWAN BHOPAL , Bhopal , MADHYA PRADESH 2 SECRETARY GOVT. OF INDIA MINISTRY OF STEEL AND MINES S SHASTRI BHAWAN NEW DELHI , New Delhi , DELHI 3 M/S AAA RESOURCES PVT. LTD MUMBAI 3RD FLOOR, RELIANE ENERGY CENTER SANTA CRUIZE EAST MUMBAI , Mumbai , MAHARASHTRA 4 COLLECTOR SATNA SATNA , Satna , MADHYA PRADESH
Petitioner Advocate(s)	RAJMANI SHARMA-842/1994 KRISHANA KUMAR GAUTAM-1657/2003 PRADEEP BANERJEE-1386/2006
Respondent. Advocate(s)	JITENDRA KUMAR JAIN[R-2]-774/1978 HARSH PATHAK[R-3]-2186/2001 ADITYA CHOUBEY[R-3]-222/1997 MOHIT CHOUBEY[R-3]-2318/2009 SIDDHARTH SHUKLA[R-3]-9999/2014 ADVOCATE GENERAL[R-1]-7777/2014 ADVOCATE GENERAL[R-4]-7777/2014
Caveat No.	
District	
U/Section	

Contact

Registrar General

High Court of Madhya Pradesh

Jabalpur, India - 482001

0761-2620380, 2622674,

2626734

IVRS Number - 0761-2637400

email - [mphc\[at\]nic\[dot\]in](mailto:mphc[at]nic[dot]in)

Indore Bench - [hc-indore\[at\]nic\[dot\]in](mailto:hc-indore[at]nic[dot]in)

Gwalior Bench - [hc-gwalior\[at\]nic\[dot\]in](mailto:hc-gwalior[at]nic[dot]in)

[History & Constitution](#)

[High Court Rules](#)

[VC Schedule](#)

[Schemes](#)

[Listing Policy](#)

[Senior Advocate Rules](#)

[Advocates](#)

[Government Departments](#)

Sundays, 2nd- 3rd Saturday,

Gazetted holidays and

Vacation are shown in Red.

Registry Working Saturdays

are shown in Green. Court

Working Saturdays are shown

in Blue.

Apr 2023

Su Mo Tu We Th F

2	3	4	5	6	
9	10	11	12	13	
16	17	18	19	20	
23	24	25	26	27	
30					

[Disclaimer](#) [Sitemap](#)

Copyright © 2023, High Court of Madhya Pradesh

Server : B