

MEMBER SECRETARY
SEIAA (GUJARAT)



Government of Gujarat

STATE LEVEL ENVIRONMENT
IMPACT ASSESSMENT
AUTHORITY
GUJARAT

No. SEIAA/GUJ/EC/1(a)/54/2010

Date: 15 APR 2011

Time Limit

Sub: Environment Clearance for Lamba Bauxite Mine - 2 (Lease Area: 5.4935 Hectare) located at Survey No. 415/1P, Vill: Lamba, Ta: Kalyanpur, Dist: Jamnagar by M/s. Saurashtra Calcine Bauxite and Allied Industries Ltd.,...in Category 1(a) of Schedule annexed with EIA Notification dated 14/9/2006.

Dear Sir

This has reference to your application in Form-I, EIA report, Proceedings of Public Hearing and Additional details submitted to the SEAC, seeking Environmental Clearance under Environment Impact Assessment Notification, 2006.

The proposal is for Environmental Clearance for Lamba Bauxite Mine - 2 (Lease Area: 5.4935 Hectare) located at Survey No. 415/1P, Vill: Lamba, Ta: Kalyanpur, Dist: Jamnagar by M/s. Saurashtra Calcine Bauxite and Allied Industries Limited. The total area of the mine is 5.4935 Hectares. The rate of mining will be 44800 MT/Annum. The mining lease was executed on 20.06.1981 for 20 years and prior to expiry of lease, they have applied for renewal of the same on 20.03.2000. Mining shall be carried out by Manual Open Cast Mining method. Except sorting, no other beneficiation will be carried out at this mine. The project proponent has got mining plan approved from the IBM for the mining lease area of 5.4935 Ha. and production capacity of 44800 MT/A, which is valid till November 2010 2013.

The project activity is covered in 1(a) and is of 'B' Category. The public Hearing is carried out on 26.02.2010 at 16:00 hrs. at Shri Gokaldas Jamnadas Raychura High School, Village: Lamba, Ta: Kalyanpur, Dist: Jamnagar.

The SEAC, Gujarat had recommended to the SEIAA, Gujarat, to grant the Environment Clearance to this project for the above-mentioned limestone mine. The public hearing has been conducted on 26.02.2010 and the proposal was considered by SEIAA, Gujarat in its meeting held on 24.03.2011 at Gandhinagar. The SEIAA hereby accords Environmental Clearance to above project under the provisions of EIA Notification dated 14th September, 2006 subject to the compliance of the following Specific and General conditions.:

A. SPECIFIC CONDITIONS:

A.1 WATER:

1. Fresh water requirement for domestic purpose, dust suppression and green belt development shall be 2.1 KL/day comprising of 0.6 KL/d for domestic purpose and 1.5 KL/d for dust suppression and plantation purpose. No ground water shall be used for the project.
2. The mining operation shall not intersect ground water table and there shall not be any water / wastewater discharge from the mining operations.
3. Domestic wastewater shall be disposed off through soak pit.

A.2 AIR:

4. Air Pollution Control Measures (APCM) such as regular water sprinkling on the surface of raw material heaps and haul roads, covered dumpers / trucks / lorries for transportation of bauxite, deployment of own dedicated and specially fabricated tankers mounted on lorries for water sprinkling on haulage roads,

- development of green belt etc. shall be taken and implemented efficiently to meet the GPCB norms.
5. The project proponent shall not carry out any blasting activity as committed by them and as mentioned in the EIA Report of the project.
 6. Ambient air quality monitoring through a third party shall be carried out in the downward direction as well as at a point where maximum ground level concentration is anticipated. Such data on ambient air quality monitoring shall be regularly submitted to the GPCB and SEIAA, Gujarat once in six month.
 7. The project proponent shall not deploy long trucks / dumpers having more than 10 MT carrying capacity for transportation of materials.
 8. Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The vehicles shall be covered with a tarpaulin and shall not be overloaded.
 9. The project proponent shall deploy own dedicated tanker for water sprinkling for dust suppression.
 10. The fugitive emission in the work zone environment and ambient air shall be monitored. The emission shall conform to the standards prescribed by the concerned authorities including Director of Mines and Geology as well as Gujarat Pollution Control Board from time to time. Following indicative guidelines shall be followed to reduce the fugitive emission.
 - a) Enclosure shall be provided at all loading and unloading operations.
 - b) Water shall be sprayed on all reject material / product material stock piles periodically to retain some moisture in top layer to reduce the fugitive emission.
 - c) All transfer points shall be fully enclosed.
 - d) Internal road shall be either paved properly or sprinkled with water regularly to reduce the fugitive emission during vehicular movement.
 - e) Air borne dust shall be controlled with water sprinklers at suitable intervals.

A.3 SOLID WASTE:

11. Used oil / waste oil shall be sold only to the registered recycler.
12. The solid waste collected in the different Air Pollution Control Measures and other collection system shall be reutilized.

A.4 SAFETY:

13. The blasting shall not be carried out, as committed by the project proponent.
14. First Aid Box shall be made readily available at the site.
15. Occupational health surveillance of the workers shall be done by the doctor who is expert in occupational health and hygiene and its records shall be maintained. Pre-employment and periodical medical examination for all the workers shall be undertaken on regular basis as per mining Acts & Rules.
16. Information regarding occupational mine diseases caused due to air pollution and its preventive measures shall be displayed at site in vernacular language for the benefit of the workers.
17. Anti-vibration devices shall be provided to the vibrating tools and equipments to be used by workers during mining and its usage shall be ensured. Safe limit of vibration impact shall be maintained.
18. All the precautions are to be observed as per Reg. 106 of MMR, 1961 for safety and security. Face masks, helmets, safety shoes etc. shall be provided to all the workers working in the mining areas and its usage shall be ensured and supervised.

A.5 NOISE:

19. The overall noise level in and around the mine area shall be kept well within the standards by providing noise control measures including engineering control like acoustic insulation, hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall conform to the standards prescribed under Environment (Protection) Act & Rules, 1986.
20. Noise levels for workers shall be as per the Mine Act & Rules.

A.6 CLEANER PRODUCTION AND WASTE MINIMISATION:

21. The company shall strive to adopt zero waste mining concepts by reducing the quantum of reject through technological innovation or finding the use of fines through perspective buyers.

A.7. GREEN BELT AND OTHER PLANTATION:

22. Top soil from the mining area shall be scrapped in special slices, preserved and utilized for the plantation work.
23. The unit shall develop green belt as shown in the conceptual mine closure plan with native species and strictly as per time schedule.
24. A thick plantation belt on the periphery, nearby villages and other appropriate places shall be carried out vigorously in consultation with the Gram Panchayats, GPCB and the Forests Department to increase the green cover of the area.

B. GENERAL CONDITIONS:

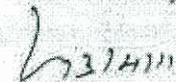
25. The mining operation shall be restricted to above ground water table and it shall not intersect ground table. In case of working below ground water table, prior approval of the SEIAA shall be obtained for which a detailed hydro-geological study shall be carried out.
26. The project proponent shall ensure that no natural watercourse / river shall be obstructed due to any mining operations.
27. Catch drains, Garland drains shall be constructed around the excavated mine, mineral dumps, reject dumps to prevent run off of water and flow of silt and sediments directly into the water bodies.
28. The pits left unfilled in an area shall be converted into water body. The higher benches of excavated void/mining pit shall be terraced and plantation shall be done to stabilize the slopes. The slope of higher benches shall be made gentler for easy accessibility by local people to use the water body. Peripheral fencing shall be carried out along the excavated area. In addition, a protective bund with 15° slope shall be made around the periphery of the worked out area to check the inadvertent entry of men and animal.
29. Appropriate fencing and manning of lease area and mined out areas shall be done to avoid falling and/or drowning of humans and animals.
30. Training to the drivers of the trucks and other vehicles shall be given by the company to reduce the accidents on the highway during transportation of the minerals.
31. All the recommendations made in the EIA / EMP report of the project and the commitments made in the undertaking dated 02.07.2007 submitted by the project proponent shall be implemented.
32. All the issues raised, suggestions and recommendations made and commitments given during the public hearing / consultation process shall be implemented satisfactorily.
33. The project proponent shall earmark specific budget for socio-economic upliftment activities to be carried out as part of their corporate social responsibility. A list of the activities to be carried out for this purpose shall be prepared after assessing the requirements and needs of the community in the vicinity and the list of the activities to be undertaken every year by the company shall be prepared in consultation with the nearby villages. The fund earmarked for this purpose shall not be diverted for any other purpose.
34. A booklet containing the Dos and Don'ts shall be prepared in vernacular languages for the use of the mine engineers / managers and the workers to ensure that all necessary environmental, safety and health measures are undertaken.
35. The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of the environmental protection and management.
36. The six monthly compliance reports on the conditions stipulated hereinabove shall be submitted to the SEIAA, GPCB and the Regional Office of the Ministry of Environment and Forests, Bhopal, without fail.
37. At no time, the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.
38. The project management shall also comply with all the environment protection measures, risk mitigation measures and safeguards recommended in the EIA / EMP report as well as other proposals made by them.
39. The applicant shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of the environmental protection and

management

40. No further expansion or modifications in the plant shall be carried out without prior approval of the MoEF/ SEIAA, as the case may be. In case of deviations or alterations in the project proposal from those submitted to MoEF/ SEIAA/ SEAC for clearance, a fresh reference shall be made to the SEIAA/ SEAC to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
41. The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.
42. The applicant shall inform the public that the project has been accorded Environmental Clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the Website of SEIAA/ SEAC/ GPCB. This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region, one of which shall be in the Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.
43. It shall be mandatory for the project management to submit half-yearly compliance report in respect of the stipulated prior Environmental Clearance terms and conditions in hard and soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year.
44. The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.
45. The project authorities shall inform the GPCB, Regional Office of MoEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
46. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.
47. The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act 1986, Hazardous Wastes (Management and Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules.
48. This Environmental Clearance is valid for five years from the date of issue.

With regards,

Yours sincerely,



(R.G.SHAH)

Member Secretary

Issued to:

✓ Mrs. Saurashtra Calcine Bauxite & Allied Ind. Ltd., Hadmatiya Bauxite Mine,
2 Km Bhatia - Harsad Road,
Post: Bhatia, Dist: Jamnagar- 361 315.

Copy to:-

1. The Secretary, Department of Environment and Forests, Govt. of Gujarat, Secretariat, Gandhinagar-382010.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD -cum-Office Complex, East Arjun Nagar, New Delhi-110032

3. The Chief Conservator of Forests (Central), Ministry of Environment & Forests,
Regional Office (WZ), E-5, Arera Colony, Link Road-3, Bhopal-462016, MP
4. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi-
110003.
5. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10 A, Gandhinagar-
382010.
6. Select File.

(R.G.SHAH)

Member Secretary



Provisional Consent Order (CCA)

Gujarat Pollution Control Board
Paryavaran Bhavan, Sector-10/A,
Gandhinagar - 382010
Tele : 23222756

Consent No. AW-122332 Valid upto: 22/09/2027

Application : CtO:CCA-Renewal, No. 264436 Dt. 22/09/2022, Granted On: 29/10/2022

PCB Id:30974

Besides streamlining and simplifying of regulatory regime, Gujarat Pollution Control Board has taken initiative in from of introduction of Consolidated Consent and Authorization (CC&A) which provides for a one shot application and clearance of the consents under Water Act, Air Act and Authorization under Hazardous Wastes Rules for a period of 5 years.

Board issues consolidated consent and Authorization to an industrial unit for operation of plant/carrying out industrial activity specifying following conditions.

Consolidated Consent and Authorisation

In exercise of the power conferred under section-25 of the Water (Prevention and Control of Pollution) Act-1974, under section-21 of the Air (Prevention and Control of Pollution) Act-1981

and Authorization under rule 3(c)& 5(5) of the Hazardous Waste (Management, Handling and Transboundary Movement) Rules'2008 framed under the E(P) Act-1986.

And whereas Board has received consolidated Application No.(CtO:CCA-Renewal) 264436 and Dated 22/09/2022 for the consolidated consent and authorization(CC&A) of this Board under the provisions / rules of the aforesaid Acts Consent & Authorization is hereby granted as under.

CONSENT AND AUTHORISATION : (under the provisions / rules of the aforesaid environmental acts)

To,

M/s. Saurashtra Calcine Bauxite & Allied Ind.,

415/1,, Lamba - 2 Bauxite Mines (5.4935 Hectares),

City : Lamba,

Dist : Devbhoomi Dwarka, Tal : Kalyanpur, SIDC : Not In Gide

Phone : -

1. Consent Order No: **AW-122332** Valid Upto: **22/09/2027**

2. All Conditions under the AIR ACT-1981 WATER ACT-1974 shall be Applicable to you as mentioned in the detailed Consent Order ***

Consented CETP: Not Linked to any CETP

Consented TSDF: Not Regd with any TSDF

3. GENERAL CONDITIONS :-

a) This order is provisional order and detailed order is considered as final.

b) All the conditions & provisions under the Water Act 1974, the Air Act 1981 and the Environment (Protection) Act – 1986 and the rules made there under shall be complied with *.

c) All the conditions & provisions under the Hazardous Waste (Management, Handling and Trans boundary Movement) Rules 2008 as amended shall be complied

d) The applicant shall provide portholes, ladder, platform etc at chimney(s) for monitoring the air emissions and the same shall be open for inspection to/and for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.

e) The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75dB(A) during day time and 70dB(A) during night time. Daytime is reckoned in between 6 a.m. and 10 p.m. and nighttime is reckoned between 10 p.m. and 6 a.m.

f) In case of change of ownership/management the name and address of the new owners/ partners/ directors/ proprietor or equipment or working conditions as mentioned in the consents form / order should immediately be intimated to the Board.

g) Industry shall have to display data outside the main factory gate with regard to quantity and nature of hazardous chemicals being handled in the plant, including waste water and air emissions and solid hazardous wastes generated within the factory premises.

h) The CCA shall be produced for inspection at the request of an officer authorized by the Gujarat Pollution Control Board.

i) Any unauthorized change in personnel, equipment or working conditions as mentioned in the CCA order by CCA holder shall constitute a breach of this CCA.

j) Adequate plantation shall be carried out all along the periphery of the industrial premises in such a way that the density of plantation is atleast 1000 trees per acre of land and a green belt of 5 meters width is developed.

K) The applicant shall have to submit the returns in prescribed form regarding water consumption and shall have to make payment of water cess to the Board under the Water Cess Act- 1977.

***** Note : ACT-Specific, Industry-specific, Area-specific Conditions alongwith Product, Waste water effluent details shall be precisely mentioned in the DETAILED Consent Order.**

***** Note :This is only provisional communication. The final Consent/Authorization in hard copy with duly signed by competent authority shall the final and valid Consent/Authorization.**

For and on behalf of
Gujarat Pollution Control Board

D. M. Thaker.

(Member Secretary)



ENVIRO-TECH SERVICES

An Analytical Laboratory



(A GOVERNMENT APPROVED LAB)

Plot No. 1/32, S.S. of G.T. Road Industrial Area, Ghaziabad (U.P.) - 201001

email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063



TEST REPORT

EST REPORT NO.: ETS/3032-44/06/2023

DATE OF REPORT: 07.06.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : M/S SAURASHTRA CALCINE BAUXITE & ALLIED INDUSTRIES
LAMBIA-II KALYANPUR DEVBHUMI-DWARKA
415 PAIKY 05.49.35 HA. (BAUXITE)

Date of Monitoring : 02.06.2023
Analysis Start Date : 03.06.2023
Analysis End Date : 07.06.2023
Duration Of Monitoring : 03.06.2023 To 04.06.2023
Time Of Monitoring : 10.10 AM To 10:10 AM (CO for 1.0 Hrs.)
Sample ID No : 3032-44
Sampling Done By : ETS STAFF
Sampling Location : NEAR MAIN GATE
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 METER FROM GROUND LEVEL
Weather Condition : CLEAR Ambient Temperature: 38.0 °C
Wind Direction : E To W
Equipment Used : Respirable Dust Sampler (PM₁₀) + Fine Particulate Sampler (PM_{2.5})

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Particulate Matters,(PM ₁₀)	µg/m ³	142.3	For 24 Hrs.=100	IS 5182 (Part-23)
2	Particulate Matters,(PM _{2.5})	µg/m ³	85.7	For 24 Hrs.=60	ETS/STP/AIR-03
3	Sulphur Dioxide, (SO ₂)	µg/m ³	24.3	For 24 Hrs.=80	IS: 5182 (Part-2)
4	Nitrogen Dioxide,(NO ₂)	µg/m ³	34.8	For 24 Hrs.=80	IS: 5182 (Partt-6)
5	Carbon Monoxide,(CO)	mg/m ³	0.71	For 8 Hrs.=2 / For 1 Hrs.=4	IS 5182 (Part-10)

*****End of Test Report*****



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SHRADDHA GUPTA

Page 1 of 1

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

Format No ETS/LAB/TR-01, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

Note:-

1. Test reports without ETS LAB HOLOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested samples and listed applicable parameters.
3. No complaint will be entertained if received after 7 days of issue of test report.
4. Our liability is limited to invoice value only.
5. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.
6. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.



TEST REPORT

TEST REPORT NO.: ETS/3032-45/06/2023

DATE OF REPORT: 07.06.2023

NOISE MONITORING REPORT

Name And Address of Customer : M/S SAURASHTRA CALCINE BAUXITE & ALLIED INDUSTRIES
LAMBA-II KALYANPUR DEVBHUMI-DWARKA
415 PAIKY 05.49.35 HA. (BAUXITE)

Date of Monitoring : 02.06.2023

Monitoring Start Date : 02.06.2023

Monitoring End Date : 03.06.2023

Duration Of Monitoring : 24 HOURS

Sample ID No : 3032-45

Monitoring Done By : ETS STAFF

Sampling Location : NEAR MAIN GATE

Sampling Method : ETS/STP/NOISE-01

Category Of Area : INDUSTRIAL AREA

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Day Time Noise Level	Leq :dB (A)	66.9	75	IS: 9989
2	Night Time Noise Level	Leq :dB (A)	59.7	70	IS: 9989

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

*****End of Test Report*****



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SHRADDHA GUPTA

Page 1 of 1

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

Format No ETS/LAB/TR-02, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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3. No complaint will be entertained if received after 7 days of issue of test report.
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TEST REPORT

TEST REPORT NO.: ETS/3032-46/06/2023

DATE OF REPORT: 07.06.2023

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : M/S SAURASHTRA CALCINE BAUXITE & ALLIED INDUSTRIES
LAMBA-II KALYANPUR DEVBHUMI-DWARKA
415 PAIKY 05.49.35 HA. (BAUXITE)

Date of Sampling : 02.06.2023

Analysis Start Date : 03.06.2023

Analysis End Date : 07.06.2023

Sample ID No : 3032-46

Sampling Done By : ETS STAFF

Sampling Description : GROUND WATER

Sampling Location : BORE WELL

Sampling Method : ETS/STP/WATER-02

Sample Quantity : 2.0 + 0.5 Ltr

Packing Condition : SEALED

Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per IS:10500: 2012)		Test Method
				Desirable	Permissible	
1	Colour	Hazen	<5.0	5	15	APHA 2120-B
2	Odour	...	Agreeable	Agreeable	Agreeable	APHA 2150-B
3	Taste	...	Agreeable	Agreeable	Agreeable	APHA 2160-C
4	pH	...	7.45	6.5 - 8.5	No Relaxation	APHA 4500-H+
5	Turbidity	NTU	<1.0	1	5	APHA 2130-B
6	Total Dissolved Solids,(TDS)	mg/L	748.0	500	2000	APHA 2540-C
7	Chlorine (Residual)	mg/L	<0.1	0.2	1	APHA 4500:(Cl)-B
8	Total Alkalinity,(CaCO ₃)	mg/L	248.2	200	600	APHA 2320-B
9	Total Hardness,(CaCO ₃)	mg/L	358.8	200	600	APHA 2340-C
10	Calcium,(Ca)	mg/L	74.1	75	200	APHA 3500:(Ca)-B
11	Chloride,(Cl)	mg/L	63.6	250	1000	APHA 4500:(Cl) -B
12	Iron,(Fe)	mg/L	0.32	1.0	No Relaxation	APHA-3120B
13	Total Coliform Count	PER100mL	Absent	Shall Not Be Detectable		IS 15185

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SHRADDHA GUPTA

AUTHORIZED SIGNATORY
Quality Manager

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TEST REPORT

TEST REPORT NO.: ETS/3032-47/06/2023

DATE OF REPORT: 07.06.2023

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer : M/S SAURASHTRA CALCINE BAUXITE & ALLIED INDUSTRIES
LAMBA-II KALYANPUR DEVBHUMI-DWARKA
415 PAIKY 05.49.35 HA. (BAUXITE)

Date of Sampling : 02.06.2023
Analysis Start Date : 03.06.2023
Analysis End Date : 07.06.2023
Sample ID No : 3032-47
Sampling Done By : ETS STAFF
Sampling Description : SOIL
Sampling Location : NEAR MAIN GATE
Sampling Method : ETS/STP/SOIL-01
Sample Quantity : 2.0 Kg.
Packing Condition : SEALED
Packed In : POLY BAG

S. No.	Test Parameter	Unit	Result	Test Method
1	Texture	...	SANDY CLAY LOAM	IS 2720 (Part-4)
2	Sand	%	52.7	IS 2720 (Part-4)
3	Silt	%	21.2	IS 2720 (Part-4)
4	Clay	%	26.1	IS 2720 (Part-4)
5	pH	...	6.48	IS 2720 (Part-26)
6	Bulk Density	g/cm ³	1.42	IS 2386 (Part-4)
7	Moisture Content	%	23.0	IS 4332 (Part-2)
8	Electrical Conductivity (EC)	µs/cm	326.0	IS 14767
9	Water Holding Capacity (WHC)	%	26.0	IS 2720 (Part-2)
10	Bicarbonate	mg/kg	51.5	ETS/STP/SOIL-20
11	Exchangable Sodium	mg/kg	67.6	ETS/STP/SOIL-21
12	Orthophosphate	mg/kg	1.2	ETS/STP/SOIL-22
13	Sodium,(Na)	mg/kg	64.9	ETS/STP/SOIL-18
14	Potassium (K)	mg/kg	45.0	ETS/STP/SOIL-18
15	Total Nitrogen (N)	mg/kg	21.0	ETS/STP/SOIL-15
16	Available Sulphur	mg/kg	16.8	ETS/STP/SOIL-23
17	Magnesium,(Mg)	mg/kg	419.0	ETS/STP/SOIL-08
19	Phosphorus Pentoxide (P ₂ O ₅)	%	3.6	BS 1377 -3
20	Porosity	%	19.0	IS 13030
28	Calcium (Ca)	mg/kg	1145.0	IS 2720 (Part-23)
29	Organic Matter,(OM)	%	1.9	IS 2720 (Part-22)

*****End of Test Report*****

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

MD HUMRAJ
Quality Manager

Page 1 of 1

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SHRADDHA GUPTA

Format No ETS/LAB/TR-12, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

- Note:-
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SAURASHTRA CALCINE BAUXITE & ALLIED INDUSTRIES

AT- BHATIA, TALUKA - KALYANPUR, DIST. DEVBHUMI DWARKA - 361315

Name & Contact details of all the members of Sustainable Development Unit (SDU)
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