

No. SEIAA/GUJ/EC/1(a)/4392/2015

Date: 31-12-2015

By R.P.A.D.

Time Limit

Sub: Environment Clearance to Saurashtra Calcine Bauxite and Allied Industries for mining of Bauxite from the Lease Area [Lease Area in Hectare & Type: 02.44.00, Existing] located at Survey No. 199/Paiky, Village: Nandana, Taluka: Kalyanpur, Dist: Devbhumi Dwarka, State: Gujarat.....Mining project in Category 1 (a) of the Schedule of the EIA Notification dated 14/9/2006.

Ref: Your proposal No. SIA/GJ/MIN/504/2015 & File No. SIA/GJ/2908/2015

Dear Sir,

This has reference to your application seeking environmental clearance for mining of Bauxite. Being a mining project, the above proposal falls under project / activity no. 1(a) of the Schedule of the EIA Notification, 2006. As the lease area of the proposal is less than 50 Hectare, it falls under Category B and categorized as B2.

The SEAC, Gujarat has recommended proposal to SEIAA, Gujarat vide their letter dated 23-12-2015 for grant of environmental clearance based on the discussion held in the meeting of the SEAC held on 15-12-2015 wherein Project Proponent was called for presentation.

The above proposal was considered by the SEIAA, Gujarat in its meeting held on 31-12-2015 at Gandhinagar. After detailed deliberation and careful consideration, the SEIAA, Gujarat hereby accord Environmental Clearance to above project under the provisions of the EIA Notification dated 14th September, 2006; subject to compliance of the following conditions.

SPECIFIC CONDITIONS:

1. Project proponent shall comply with all the guidelines and notifications issued by MOEFCC, New Delhi regarding cluster policy as part of compliance of orders of Hon'ble National Green Tribunal from time to time.
2. If lease area of project proponent falls in the cluster and total borrowed area of the cluster falls under category B1 or A, as per the prevailing guidelines of MoEFCC, New Delhi, all the concerned procedures shall be followed up accordingly for compliance of Environmental Laws/Notifications/Rules and under such circumstances project proponent shall extend all support including financial contribution or otherwise also for compliance of environmental Laws/Notifications/Rules such cluster.
3. If lease area of applicant falls in the cluster and total borrowed area of the cluster fall under category B1 or A, EIA study shall be carried out for the said cluster as decided by the competent authority and EMP for the cluster shall be prepared based on outcome of the EIA study. In such a case, all the suggestions/recommendations of EIA/EMP prepared for the cluster shall be complied with in a letter and spirit by the project proponent(s) including lease holders who have already been accorded Environmental Clearance.
4. No mining shall be undertaken outside the area specified in this Environmental Clearance.
5. There shall be no Blasting for mining activity.
6. Any change in lease area (Individual/cluster), survey number, entailing capacity addition with change in mining technology, modernization and scope of working shall again require prior Environmental Clearance as per the provisions of EIA Notification, 2006 as amended from time to time.

CONDITIONS:

A.1 WATER:

7. The project proponent shall obtain necessary prior permission of the competent authorities for withdrawal of requisite quantity of water (surface water and/or ground water) required for the project.
8. Mining operation shall not intersect ground table and hence there shall not be any water / wastewater discharge from mining operations.
9. Garland Drains, setting tank and Catch drains of appropriate size, gradient and length shall be constructed around the excavated mine, mineral dumps, reject dumps to prevent silt and sediments flowing into any water

body.

10. Domestic wastewater shall be disposed off through septic tank - soak pit.

A.2 AIR:

11. Effective safeguards, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as loading and unloading point and all transfer points.
12. Drills shall either be operated with dust extractors or equipped with water injection system (wet drilling) to suppress air borne dust during drilling.
13. Internal roads shall be either paved properly or sprinkled with water at regular intervals for controlling fugitive emission during vehicular movement. Trees of native species shall be developed along both sides of internal road/s in order to contain dust.
14. Vehicles shall not be overloaded and mineral transportation shall be done only through covered trucks so that no spillage of mineral / dust take place.
15. Vehicles used in mining operations shall be maintained well so as to keep vehicular emissions in control.
16. Fugitive emission in work place and ambient air shall be monitored. The emission shall conform to the standards prescribed by the concerned authorities.
17. Ambient air quality shall be monitored at site and the nearest human habitation and it shall conform to the norms prescribed by the MoEF, Govt. of India.

A.3 OVER BURDEN / REJECTS / HAZARDOUS WASTE:

18. The project proponent 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.
19. Top soil from the mining area shall be scrapped, stacked separately, preserved and utilized for the plantation work.
20. Overburden, waste rock and non-saleable mineral generated during prospecting or mining operations shall be stored separately in properly formed dumps on grounds earmarked. Slope and height of such dumps shall be restricted adequately to prevent any slippage of material. Such dumps should be properly terraced, stabilized and secured at toe to prevent the escape of material that may cause degradation of the surrounding land or silting of water courses.
21. Overburden or other rejects shall be backfilled into the worked out quarry so far as possible with a view to restore the land to its original use or desired alternate use.
22. Used oil / waste oil, if any, generated shall be sold only to the registered recyclers. In case of generation of hazardous waste, the project proponent shall strictly comply with the provisions of Hazardous Waste (Management, Handling and Transboundary Movement) Rules 2008, as may be amended from time to time.

A.4 SAFETY:

23. Anti-vibration devices shall be provided to vibrating tools / equipments to be used by workers during mining. Vibrations shall be maintained within safe limit.
24. 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.
25. First Aid Box should be made readily available at the site.
26. Occupational health surveillance of workers shall be undertaken periodically by a doctor who is expert in occupational health and hygiene and its records shall be maintained.
27. Information regarding occupational mine diseases caused due to air pollution and its preventive measures shall be displayed at site in vernacular language for workers.

A.5 NOISE:

28. Noise level in and around the lease 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. Ambient noise level shall conform to the standards prescribed under the Environment (Protection) Act & Rules, 1986.

A.6 GREEN BELT DEVELOPMENT:

29. Green belt shall be developed in periphery of the lease area as per the CPCB guidelines and strictly as per the time schedule. The green belt should comprise of rows of varying height native trees with thick foliage.
30. Drip irrigation system shall be used for the green belt development within the premises.

B. OTHER CONDITIONS:


31. This Environmental Clearance does not confer any right to the project proponent on the land proposed for lease and all necessary statutory clearances / permissions shall be obtained from respective department before start of mining operations.

32. Mining operation shall be restricted to above ground water table and it shall be ensured that it does not intersect ground water table.
33. The project proponent shall ensure that no natural water course gets obstructed due to mining operations.
34. The pits left unfilled in lease area shall be converted to water body. Higher benches of excavated void/mining pit shall be terraced and its slope shall be made gentler for easy accessibility to the water body.
35. No mining shall be carried out in the safety zone of any bridge / embankment and in the vicinity of natural / manmade archeological sites.
36. No wildlife habitat shall be infringed and in addition to that before issuing the mining lease, it has to be ensured that no wildlife movement shall be existing in the lease area proposed for mining.
37. A booklet containing the Dos and Don'ts shall be prepared in vernacular languages for the use of site in-charge and workers to ensure that all necessary environmental, safety and health measures are undertaken.
38. Funds earmarked for environmental protection measures shall be kept in a separate account and shall not be diverted for other purpose. Records of year wise expenditure shall be maintained.
39. 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 environmental protection and management.
40. Half yearly compliance reports on the conditions stipulated hereinabove shall be submitted to the SEIAA, State Pollution Control Board and the Regional Office of the Ministry of Environment and Forests, Bhopal, on 1st June and 1st December of each calendar year by individual project proponent.
41. The project proponent shall have to comply with the provisions of Gujarat Minor Mineral Concession Rules (GMMCR) as and when amended by the State Govt. with respect to the provisions for approval of mining plan, EMP for cluster, creation of separate corpus, etc. in view of the recommendations made by the MoEF in its report of March 2010 and the model guidelines framed by the Ministry of Mines.
42. The project proponent shall have to get their Mining Plan approved by the competent authority, within a period of one year from the date of grant of environmental clearance.
43. Decisions/Directions of Hon'ble Court and Hon'ble National Green Tribunal given in the matter of minor minerals shall be binding on the project proponent.
44. The Individual project proponent 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.
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 project proponent 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 and Hazardous Wastes (Management Handling and Transboundary) Rules, 2008 along with their amendments and rules.
48. The environmental clearance is being issued without prejudice to the action, if any, initiated under the E.P. Act or any court case, if any, pending in the court of law and it does not mean that the project proponent has not violated any environmental laws in the past. This clearance does not give immunity to the project proponent for the case, if any, filed against him in any court of law or action initiated under the E.P. Act.
49. Precise mining area shall be jointly demarcated at the site by officials of Mining / Revenue Department prior to mining operations. Records of such site plan, duly verified by competent authority shall be maintained.
50. The project proponent shall carry out activities under CSR in consultation with the District Development Officer / District Collector.
51. Project proponent shall ensure that Mining Plan of the proposed project will be prepared and approved by the competent authority within a period of one year from the date of grant of environmental clearance.
52. Geology and Mining Department will take all measures to comply with all the conditions stipulated in this Environmental Clearance and all the conditions stipulated in this clearance shall be incorporated while granting lease to individual lease holder.
53. This clearance is issued with respect to only environmental considerations and it does not imply that SEIAA approved the way by which lease is granted to the project. While granting lease, the concerned authority shall

ensure compliance of relevant Rules, Regulations, Notifications, Government Resolutions, Circulars, Judgments / Orders of Hon'ble Courts and NGT, etc.

54. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

With regards,
Yours sincerely,


(M.M.JOSHI)
Member Secretary

Issued to:

Saurashtra Calcine Bauxite and Allied Industries
Survey No. 199/Paiky, Village: Nandana,
Taluka: Kalyanpur, Dist: Devbhumi Dwarka.
Gujarat

Copy to:-

1. The Secretary, SEAC, C/O. G.P.C.B. Gandhinagar - 382010.
2. The Commissioner, Geology & Mining, Block No. ½, 7th Floor, Udyog Bhavan, Sector – 11, Gandhinagar.
3. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD -cum-Office Complex, East Arjun Nagar, New Delhi-110032
4. Zonal Officer, Central Pollution Control Board, Parivesh Bhavan, Opp Ward Office, Ward Number 10, Subhanpura, Vadodara – 390 023
5. The Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office (WZ), E-5, Arera Colony, Link Road-3, Bhopal-462016, MP
6. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi-110003.
7. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10 A, Gandhinagar-382010
8. Select File


(M.M.JOSHI)
Member Secretary



Provisional Consent Order (CCA)

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

Consent No. AW-122334 Valid upto: 22/09/2027

Application : CtO:CCA-Fresh, No. 264517 Dt. 23/09/2022, Granted On: 29/10/2022

PCB Id:10963

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-Fresh) 264517 and Dated 23/09/2022 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 And Allied Industries (02.44.00 Hect).

Survey No. 199 paiki., At- Nandana,

Nandana Bauxite Mine., City : Nandana,

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

Phone : 9979887507

1. Consent Order No: **AW-122334** 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)

TEST REPORT

TEST REPORT NO.: ETS/3032-36/06/2023

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
NANDANA KALYANPURDEVBHUMI-DWARKA
199 PAIKY 02.44.00 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 : 3032-36
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	135.4	For 24 Hrs.=100	IS 5182 (Part-23)
2	Particulate Matters,(PM _{2.5})	µg/m ³	75.6	For 24 Hrs.=60	ETS/STP/AIR-03
3	Sulphur Dioxide, (SO ₂)	µg/m ³	23.8	For 24 Hrs.=80	IS: 5182 (Part-2)
4	Nitrogen Dioxide,(NO ₂)	µg/m ³	36.2	For 24 Hrs.=80	IS: 5182 (Partt-6)
5	Carbon Monoxide,(CO)	mg/m ³	0.72	For 8 Hrs =2 / For 1 Hrs.=4	IS 5182 (Part-10)

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

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CHECKED BY
SHRADDHA GUPTA

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

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

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.



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

TEST REPORT NO.: ETS/3032-37/06/2023

DATE OF REPORT: 07.06.2023

NOISE MONITORING REPORT

Name And Address of Customer : M/S SAURASHTRA CALCINE BAUXITE & ALLIED INDUSTRIES
NANDANA KALYANPURDEVBHUMI-DWARKA
199 PAIKY 02.44.00 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 : 3032-37

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)	68.6	75	IS: 9989
2	Night Time Noise Level	Leq :dB (A)	57.5	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*****



Page 1 of 1

For ENVIRO-TECH SERVICES
AUTHORIZED SIGNATORY
Quality Manager

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TEST REPORT

TEST REPORT NO.: ETS/3032-38/06/2023

DATE OF REPORT: 07.06.2023

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : M/S SAURASHTRA CALCINE BAUXITE & ALLIED INDUSTRIES
NANDANA KALYANPURDEVBHUMI-DWARKA
199 PAIKY 02.44.00 HA.(BAUXITE)

Date of Sampling : 02.06.2023

Analysis Start Date : 03.06.2023

Analysis End Date : 07.06.2023

Sample ID No : 3032-38

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	...	7.48	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	751.0	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	246.2	200	600	APHA 2320-B
9	Total Hardness,(CaCO ₃)	mg/L	360.7	200	600	APHA 2340-C
10	Calcium,(Ca)	mg/L	70.8	75	200	APHA 3500:(Ca)-B
11	Chloride,(Cl)	mg/L	60.3	250	1000	APHA 4500:(Cl ⁻)-B
12	Iron,(Fe)	mg/L	0.31	1.0	No Relaxation	APHA-3120B
13	Total Coliform Count	PER100mL	Absent	Shall Not Be Detectable		IS 15185

Page 1 of 1

For ENVIRO-TECH SERVICES *****End of Test Report*****



AUTHORIZED SIGNATORY
Quality Manager

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TEST REPORT

TEST REPORT NO.: ETS/3032-39/06/2023

DATE OF REPORT: 07.06.2023

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer : M/S SAURASHTRA CALCINE BAUXITE & ALLIED INDUSTRIES
NANDANA KALYANPURDEVBHUMI-DWARKA
199 PAIKY 02.44.00 HA.(BAUXITE)

Date of Sampling : 02.06.2023
Analysis Start Date : 03.06.2023
Analysis End Date : 07.06.2023
Sample ID No : 3032-39
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	%	53.7	IS 2720 (Part-4)
3	Silt	%	25.2	IS 2720 (Part-4)
4	Clay	%	21.1	IS 2720 (Part-4)
5	pH	...	6.47	IS 2720 (Part-26)
6	Bulk Density	g/cm ³	1.44	IS 2386 (Part-4)
7	Moisture Content	%	22.0	IS 4332 (Part-2)
8	Electrical Conductivity (EC)	µs/cm	323.0	IS 14767
9	Water Holding Capacity (WHC)	%	26.0	IS 2720 (Part-2)
10	Bicarbonate	mg/kg	53.9	ETS/STP/SOIL-20
11	Exchangable Sodium	mg/kg	68.5	ETS/STP/SOIL-21
12	Orthophosphate	mg/kg	1.2	ETS/STP/SOIL-22
13	Sodium,(Na)	mg/kg	66.4	ETS/STP/SOIL-18
14	Potassium (K)	mg/kg	47.0	ETS/STP/SOIL-18
15	Total Nitrogen (N)	mg/kg	22.0	ETS/STP/SOIL-15
16	Available Sulphur	mg/kg	15.9	ETS/STP/SOIL-23
17	Magnesium,(Mg)	mg/kg	418.0	ETS/STP/SOIL-08
19	Phosphorus Pentoxide (P ₂ O ₅)	%	3.6	BS 1377 -3
20	Porosity	%	18.0	IS 13030
28	Calcium (Ca)	mg/kg	1144.0	IS 2720 (Part-23)
29	Organic Matter,(OM)	%	1.5	IS 2720 (Part-22)

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CHECKED BY
SHRADDHA GUPTA

AUTHORIZED SIGNATORY
Quality Manager

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

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SAURASHTRA CALCINE BAUXITE & ALLIED INDUSTRIES

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

Name & Contact details of all the members of Sustainable Development Unit (SDU)
(Nandana.No.199)

Srl. No.	Name	Designation	Email Id	Phone number
1	G.P. Pabari	Agent (Mines)	scabalbhatiya@gmail.com	9979887508
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4.	V.M. Sathvara	Surveyor	scabalbhatiya@gmail.com	8866448085
5.	G.G. Chandarana	Statistic Officer	scabalbhatiya@gmail.com	9979679212

