



TSPL/MIN/MoEF/ENV/18-19/181

Srikakulam,
31-05-2018.

To
The Regional Office (South Eastern Zone)
Ministry of Environment, Forests and Climate Change
1st and 2nd floor, HEPC Building, No.34,
Cathedral Garden Road, Nungambakkam,
Chennai – 600034

Dear Sir,

Sub: Srikurmam Heavy Mineral Sand Project at Mineral Sand Project at Vatsavalasa & Tonangi Villages in Gara mandal in Srikakulam District, Andhra Pradesh by M/s Trimex Sands Pvt. Ltd., submission of half yearly CRZ compliance report for the period of Oct'2017 – Mar'2018 – Reg.

Ref: CRZ Clearance vide F.No.11-67/2013-IA-III dated 28-04-2015

With reference to the subject CRZ clearance granted vide reference above, we are submitting the half yearly CRZ compliance report for the period of Oct'2017 – Mar'2018.

Thanking you

Yours truly

Sr. Vice President (Mines)

CC to : 1. APPCB, RO, VZM

2. CPCB, ZO, Bangalore

Trimex Sands Pvt. Ltd. : Trimex Towers, No. 1 Subbaraya Avenue, C.P. Ramaswamy Road, Alwarpet, Chennai - 600 018. INDIA.

Tel: +91 44 24988822 /8813 Fax: +91 44 24986047, E-mail : info@trimexsands.com, URL: www.trimexgroup.com

CIN : U14299TN2004PTC071437



Compliance report on CRZ Conditions

CRZ Clearance Vide F.NO. 11-67/2013-IA-III dated 28-04-2015

CRZ Specific conditions:

S.No	Conditions	Compliance
1	Consent to Operate shall be obtained from State Pollution control Board under Air and Water Act and a copy shall be submitted to the Ministry before start of mining work at the site.	Consent to Operate is obtained from the State Pollution Control Board, Andhra Pradesh vide Consent Order No: APPCB/VSP/VZM/152/HO/CFO/2015 Dt: 30.10.2015 and is valid up to 31.05.2018, renewed for further period of 5(five) years i.e., upto 31.05.2023 (Annexure -1).
2	The Project Proponent should obtain the NOC/Clearance from the Competent Authority, as applicable with regard to conservation and management plan on Ridley Turtle.	Schedule-I species available in the study area is Olive Ridley Turtle and a detailed conservation plan is prepared through ENVID Group, Andhra University. This plan is approved by the Principal Chief Conservator of Forests (WL) & Chief Wildlife Warden, Hyderabad vide Rc. No:22899/2013/WL-3 Dt:11.11.2014. Copy of report was already submitted to MoEF, RO Chennai vide letter no.TSPL/MIN/MoEF/ENV/17-18/1126 Dt: 25-11-2017.
3	Soil conservation measures shall be prepared and implemented.	Being complied as detailed in the approved mine plan.
4	The mined-out pits shall be refilled with the sand only. The Ground Water Authority shall ensure that all the mined-out pits are refilled concurrently. Site photographs shall be submitted before and after the mining activity to Regional Office of MoEF	The mined out area is backfilled using the tailings generated during separation of minerals (Annexure-2). As on 1 st Apr 2018, about 324.97 Ha area is mined, of which 307.50 Ha area is backfilled by dumping 18.37 Million Tons of tailings.
5	All the conditions/recommendations as stipulated by the Andhra Pradesh Coastal Zone Management Authority (APCZMA) vide letter No. 6613/ENV/CZMA/2013 dated 15.02.2014, shall be complied with.	All conditions as stipulated by the Andhra Pradesh State Coastal Zone Management Authority are implemented (Annexure -3)
6	The Mining shall be in accordance with the Mining plan approved by AMD and IBM.	The mining is carried out in accordance with the Mining Plan approved by AMD and IBM. As per the AMCR, 2016 and MCR, 2016 IBM is the approving authority for this mining plan. Hence the Modified Mining Plan was approved by IBM vide letter No. AP/SRK/MP/Garent-Sillimanite-7/Hyd. Dated



S.No	Conditions	Compliance
		02.03.2017 (Annexure-4).
7	The Project Proponent shall co-ordinate with the Directorate of Fisheries in respect of providing access to Beach for fishermen.	For the uninterrupted access of the fishermen to the beach, a 20-m width approach road is provided.
8	Ground water monitoring on landward side of the mining area shall be carried out before during and after mining so as to check the possible impact/sea water intrusion.	7 Nos. of Piezometers are constructed within ML area and water monitoring is carried out every month. In addition, water monitoring is done in 11 Nos. observation well situated within and outside the mining lease area. Monitoring is being carried out on monthly basis and there is no negative impact/sea water intrusion due to mining activity. Plan showing the locations of the piezometers and observation wells as Annexure-5 and water monitoring reports are enclosed as Annexure – 6 .
9	Plantation shall be carried out on the mined-out area, as committed.	Plantation is being carried out in refilled lands. Density of plantation is more than 2500 plants per ha. Details of plantation carried out, extent of land covered and green belt developed during the period 2017-18 is attached as Annexure -7 .
10	Ground water observatory wells shall be within and outside the mining area prior to the mining for ground water monitoring. Project Proponent shall carry out soil analysis, ground water analysis at the site once in three months and submit the same to the State Pollution Control Board and Regional Office, MoEF to CC	7 Nos. of Piezometers are constructed within ML area and water monitoring is carried out every month. In addition, water monitoring is done in 11 Nos. of observation well situated within and outside the mining lease area Annexure – 5, 8(i) . Soil analysis is also carried out once in 3 months as enclosed as Annexure- 8(ii) .
11	Digital processing of the entire mining lease area using remote sensing technique should be carried out regularly once in three years for monitoring land use pattern and physiographic of the area and report submitted to the Regional Office, MoEF to CC	Will be complied as per the directive.
12	No drilling and blasting should be involved.	Strictly ensured.
13	There shall be no ground water drawl in CRZ area.	No ground water is tapped from the CRZ area.
14	There shall be no mining in intertidal zone.	No mining is carried out in inter tidal zone.
15	To control dust during transportation water sprinklers shall be adopted and also the sand transport vehicles shall be covered with tarpaulin sheets.	Water tankers are deployed for haul road dust suppression – Annexure-9 . Transport vehicles are covered with tarpaulin sheets to control the dust.
16	TCLP analysis of both mined and tail materials can be done to check the presence	Being complied, reports are enclosed as Annexure -10



S.No	Conditions	Compliance
	of Hazardous materials and report shall be submitted along with the six monthly monitoring reports	
17	A green belt shall be developed after mining and refilling block by block.	Complied. Enclosed details of plantation as per Annexure -7
18	Project proponent shall ensure that no disturbance is caused to the mangroves/fisher folk	It is ensured and complied.
19	All the commitments made during the public hearing including the budget for corporate social responsibility shall be earmarked for carrying out the activities.	All the commitments made during the public hearing are being implemented. Report submitted as Annexure-11 , CSR expenditure incurred during the year 2017-18 is enclosed as Annexure-12 .
20	Mineral processing plant shall be located outside CRZ area.	Mineral processing plant is located outside CRZ area – Enclosed map with Annexure -5
21	Safety measures shall be taken for workers to prevent radioactive impact on health. All the safety regulation as applicable shall be strictly followed.	Implemented as per the directive of the Atomic Energy Regulatory Board (AERB), DAE
22	All prior statutory clearances from Department of Atomic Energy, Indian Bureau of Mines, Central and State agencies as applicable shall be obtained.	Complied. All the required statutory clearances from Dept. of Atomic Energy, Indian Bureau of Mines, Central and State agencies have been obtained prior to start of mining activity.
23	Sand dunes should not be flattened.	It is being complied.

General conditions:

S.No	Conditions	Compliance
(i)	A copy of the clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries center and Collector's Office/Tehsildars's office for 30 days	Complied. A copy of EC & CRZ Clearance was sent to State Pollution Control Board's Regional Office, District Industry Centre and the District Collector's office vide our letter dated 30.04.2015 Annexure-13 .
(ii)	The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its concerned Regional Office.	Complied. Expenditure during the financial year 2017-18 given as Annexure – 14 .
8	Officials from the Regional Office of MoEF & CC, Chennai who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents /data by the project proponents	Full cooperation will be extended during the inspection. Have submitted a complete set of documents to the RO, Chennai.



S.No	Conditions	Compliance
	during their inspection. A complete set of all the documents submitted to MoEF & CC should be forwarded to the CCF, Regional office of MoEF & CC, Chennai.	
9	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.	Will be complied
10	The Ministry reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986. To ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	Noted.
11	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife(Protection) Act, 1972 etc. Shall be obtained, as applicable by project proponents from the respective competent authorities.	Complied. Enclosed Annexure -15 .
12	These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) act 1981, the Environment(Protection) Act, 1986, the Public Liability(Insurance) Act, 1991 and EIA Notification, 2006	All applicable provisions of these Acts/ Notifications are complied
13	The project proponent should advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment, Forest & Climate change at http://www.envfor.nic.in . The advertisement should be made within Seven days from the date of receipt of the Clearance letter and a copy of the same	Complied. An advertisement in two local newspapers was given and copies of the same were submitted to RO, Chennai vide letter Dated 05.05.2015 Annexure -16 .



S.No	Conditions	Compliance
	should be forwarded to the Regional Office of this Ministry at Chennai.	
14	This Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation v/s Union of India in Writ Petition (Civil) No. of 2004 as may be applicable to this project.	Noted.
15	Any appeal against this 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	Noted.
16	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Prishad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	Complied. A copy of EC & CRZ Clearance was sent to local Panchayat vide our letter dated 30.04.2015 Annexure-17 . The clearance letter also was put on the website of the company www.trimexsands.com .
17	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF & CC, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Being complied. We are uploading the status of compliance of the stipulated EC conditions, including results of monitored data on our company website periodically. It is simultaneously sent to the RO of MoEF & CC, the respective Zonal office of CPCB and the SPCB. The criteria pollutant levels or critical sectoral parameters, indicated for the project are monitored and displayed at the main gate of the company in the public domain Annexure-18 .
18	The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF & CC by e-mail.	Complied. The Form-V is submitted to SPCB and also uploaded on the company website. Copy of same for the period 2016-17 is enclosed as Annexure-19 .



ANDHRA PRADESH POLLUTION CONTROL BOARD
D.No.33-26-14D/2, Near Sunrise Hospital, Pushpa Hotel Centre,
Chalamalavaari Street, Kasturibaipet, Vijayawada - 520 010
Phone. No.0866-2436217, Website : www.appcb.ap.nic.in

AUTO RENEWAL OF CONSENT, HAZARDOUS WASTE AUTHORISATION ORDER FOR OPERATIONS

In response to your application dated 30.01.2018 for Auto Renewal of Consent for Operation & Hazardous waste Authorisation Order, the Board is hereby extending validity period of Consent and Authorisation order issued vide Order APPCB/VSP/VZN/152/HO/CFO/2015, dated 30/10/2015 and valid upto 31.05.2018, for further period of 5 (five) years i.e., upto **31.05.2023** under sections 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of Air (Prevention & Control of Pollution) Act 1981 and amendments thereof and Authorization under Rule 6 of the Hazardous & Other Wastes (Management & Transboundary, Movement) Rules, 2016.

1. All other conditions mentioned in Schedules A, B & C of the combined CFO&HWA order issued by the Board vide order dated 30.10.2015 will remain same.
2. The industry shall comply with the standards issued by MoEF&CC / CPCB from time to time.
3. The facility shall submit the compliance report to all the stipulated conditions for Consent for Operation for every six months i.e. on 1st of January and 1st of July of every year.
4. The facility shall ensure that dedicated fund is allotted towards Environment Relief Fund (ERF) in the Public Liability Insurance policy and submit a copy of the policy at the Regional Office: Vizianagaram every year.
5. In case of false certification, non compliance of conditions / directions and discrepancy in furnishing the information by the industry, the Board can withdraw the auto renewed consent and take action under provisions of relevant Acts & Rules.

Date: 25.02.2018

MEMBER SECRETARY

To

M/s. Trimex Sands Private Limited,
Vatsavalasa, Tonangi Villages,
Gara (M),
Srikakulam District
E-mail: info@trimexsands.com

Copy to:

1. The JCEE, Zonal Office, Visakhapatnam for information and necessary action.
2. The JCEE, Unit-II, APPCB, Vijayawada for information and necessary action.
3. The JCEE (HWM), APPCB, Vijayawada for information and necessary action.
4. The Environmental Engineer, Regional Office, Vizianagaram for information and necessary action.



ANDHRA PRADESH POLLUTION CONTROL BOARD

Paryavarana Bhavan, A-III, Industrial Estate,

Sanathnagar, Hyderabad-500 018

Phone : 040-23887500

Website : www.appcb.ap.nic.in

RED CATEGORY CONSENT & AUTHORISATION ORDER BY REGISTERED POST WITH ACKNOWLEDGEMENT DUE

Consent Order No : APPCB/VSP/VZM/152/HO/CFO/2015

Date : 30.10.2015

Consent Order for Existing/New or altered discharge of sewage and/or trade effluents/outlet under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and amendments thereof, Operation of the plant under section 21 of Air (Prevention & Control of Pollution) Act 1981 and amendments thereof and Renewal of Authorisation under Rule 5 of the Hazardous Wastes (Management, Handling & Transboundary Movement) Rules, 2008 & Amendments thereof.

CONSENT is hereby granted under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974, under section 21 of Air (Prevention & Control of Pollution) Act 1981 and Authorisation under the provisions of HW (MH & TM) Rules, 2008 (hereinafter referred to as 'the Acts', 'the Rules') and the rules and orders made thereunder to:

M/s. Trimex Sands Pvt., Ltd.,

(After Expansion)

(Beach Sand Mining, Wet Plant & Mineral Separation Plants),

Vatsavalasa (V) and Tonangi(V), Gara (M),

Srikakulam District – 532 001

E-mail: info@trimexsands.com

(hereinafter referred to as 'the Applicant') authorizing to operate the industrial plant to discharge the effluents from the outlets and the quantity of Emissions per hour from the chimneys as detailed below:

i) Out lets for discharge of effluents:

Outlet No.	Outlet Description	Max Daily Discharge KLD	Point of Disposal
Wet Plant, Tonangi(V):			
1.	Process (Outlet of Thickener)	1500	For disposal into mined out area of the industry.
2.	Domestic	2	Septic tank followed by soak pit.
Mineral Separation Plant / Wet Plant, Vatsavalasa(V):			
3.	Process (Outlet of Thickener)	4050	For disposal into mined out area of the industry.
4.	Domestic	15	Septic tank followed by soak pit.
Sand Mining			
5	Domestic	3	STP / Septic tank followed by soak pit

ii) Emissions from chimneys:

Chimney No.	Description of Chimney	Quantity of Emissions at peak flow
Mineral Separation Plant / Wet Plant, Vatsavalasa(V):		
1.	Attached to 70 TPH FBD-I (IRZ Section)	--
2.	Common stack attached to 15 TPH FBD-2 (Garnet Section), 15 TPH FBD-3 (Sillimanite Section) and 2 TPH FBD-4 (Zircon Section)	--
3.	Attached to 25 TPH FBD-1 (Garnet Section)	--

4.	Attached to 6 TPH FBD-2 (Sillimanite / Ball Mill Section)	--
5.	Attached to 10 TPH FBD-3 (Sillimanite sintering)	--
6.	Attached to 200 KVA D.G. Set	--
7.	Attached to 4 x 1500 KVA D.G. Sets	--
8.	Attached to 2000 KVA D.G. Set	--
9.	Attached to 315 KVA D.G. Set	--
Wet Plant, Tonangi(V):		
10.	Attached to 2000 KVA D.G. Set	--

iii) **HAZARDOUS WASTE AUTHORISATION (FORM – II) [See Rule 5 (4)]:**

M/s. Trimex Sands Pvt., Ltd., (Beach Sand Mining, Wet Plant & Mineral Separation Plant), Vatsavalasa (V) & Tonangi(V), Gara (M), Srikakulam District is hereby granted an authorization to operate a facility for collection, reception, storage, treatment, transport and disposal of Hazardous Wastes namely:

• **HAZARDOUS WASTES WITH RECYCLING OPTION:**

S. No.	Name of the hazardous waste	Stream	Quantity	Disposal option
1	Waste lubricant oil	5.1 of Schedule – I	430 LPM	To Authorised Reprocessors / Recyclers.

This consent order is valid to manufacture the following products with quantities indicated only:

S.No.	Product	Quantity
1.	Ilmenite	1100 TPD
2.	Sillimanite / Flour / Mulite	550 TPD
3.	Garnet	550 TPD
4.	Rutile	44 TPD
5.	Zircon	44 TPD
6.	Mineral Rich Tailings	260 TPD
	Total	2548 TPD (0.93 million TPA)
Beach Sand Mining:		
1.	Mining of Raw Sand	6.0 Millions TPA

This order is subject to the provisions of 'the Acts' and the Rules' and orders made thereunder and further subject to the terms and conditions incorporated in the schedule A, B & C enclosed to this order.

This combined order of consent & Hazardous Waste Authorisation shall be valid for a period ending with the 31st day of May, 2018.

Sd/-
MEMBER SECRETARY

To

M/s. Trimex Sands Pvt., Ltd.,
(Beach Sand Mining, Wet Plant & Mineral Separation Plants),
Vatsavalasa (V), Tonangi(V), Gara (M),
Srikakulam District – 532 001

Copy to:

1. The JCEE, Zonal Office, Visakhapatnam for information and necessary action.
2. The JCEE (Cess), APPCB, Hyderabad for information.
3. The JCEE(HWM), APPCB, Hyderabad for information.
4. The Environmental Engineer, Regional Office, Vizianagaram for information and necessary action.

//T.C.F.B.O//

o/c

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JOINT CHIEF ENVIRONMENTAL ENGINEER
UNIT HEAD - IV

SCHEDULE - A

1. The applicant shall make applications through Online for renewal of Consent (under Water and Air Acts) and Authorization under HWM Rules at least 120 days before the date of expiry of this order, along with prescribed fee under Water and Air Acts for obtaining Consent & HW Authorization of the Board and detailed compliance of CFO conditions.
2. Any person aggrieved by an order made by the State Board under Section 25, Section 26, Section 27 of Water Act, 1974 or Section 21 of Air Act, 1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as per Andhra Pradesh Water Rules, 1976 and Air Rules 1982, to such authority (hereinafter referred to as the Appellate Authority) constituted under Section 28 of the Water(Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air(Prevention and Control of Pollution) Act, 1981.
3. The facility shall immediately submit the revised application for consent to this Board in the event of any change in activity, quantity of trade effluents & quantity of emissions etc.
4. The applicant shall not change or alter either the quality or the quantity or the rate of the discharge or the route of discharge and shall not change or alter either the prescribed quality or the rate of emission without the previous written permission of the Board.
5. The applicant shall, not later than 30 days from the date of issue of this consent order, certify in writing to the Board that the applicant has installed or provided for an alternative electric power source sufficient to operate all facilities installed by the applicant, to comply with the terms and conditions of this consent. In absence of alternative electric power source sufficient to operate all facilities installed by the applicant, to comply with the terms and conditions of this consent, production shall be stopped.
6. Any up-set condition in any plant/plants of the facility, which result in, increased effluent discharge and/ or violation of standards stipulated in this order or the emission of any Air Pollutant into the environment in excess of the standards laid down by the Board, occurs or is apprehended to occur due to accident, or other unforeseen act or event, the person-in-charge of the premises, from where such discharge / emission occurs or is apprehended to occur shall forthwith intimate the fact of such occurrence or the apprehension of such occurrence to this Board, by fax / email under intimation to the Collector and District Magistrate.
7. In case of such episodal discharges / emissions mentioned in item 4 above, the facility shall take immediate action to bring down the discharge / emission below the limits prescribed in this order.
8. A good house keeping shall be maintained both within the facility and in the premises. All hoods, pipes, valves, sewers and drains shall be leak proof. Floor washings shall be admitted into the effluent collection system only and shall not be allowed to find their way into storm drains or open areas.
9.
 - a) The facility shall carryout analysis of waste water discharges or emissions through chimneys, for the parameters mentioned in Schedule – B of this order at regular intervals.
 - b) The facility shall maintain following records to accessible to the Board, whenever required.
 1. Analysis reports of waste water/ emissions.
 2. Log book for operation of pollution control systems.
 3. Inspection book
10. Separate power connection with energy meter shall be provided for the Pollution Control Equipments and record of power consumption and chemicals consumption for the operation of pollution control equipment shall be maintained separately.
11. The applicant shall comply with the directives/orders issued by the Board in this order and at all subsequent times without any negligence on his part. The applicant shall be liable for such legal action against him as per provisions of the Law/Act in case if non-compliance of any order/directive issued at any time and/or violation of the terms and conditions of this consent order.
12. The applicant shall furnish to the visiting officer and / or the Board any information regarding the construction, installation or operation of the effluent treatment system / air

- pollution control equipment / secured storage area of Hazardous Waste and such other particulars as may be pertinent for preventing and controlling pollution.
13. The facility is liable to pay compensation for any environmental damage caused by it, as fixed by the Collector and District Magistrate as Civil liability.
 14. All the rules & regulations notified by Ministry of Environment and Forests, Government of India in respect of management, handling, transportation and storage of hazardous chemicals and wastes shall be followed.
 15. All the rules & regulations notified by Ministry of Law and Justice, Government of India regarding Public Liability Insurance Act, 1991 shall be followed.
 16. The occupier shall educate the workers and nearby public of possible accidents and remedial measures.
 17. For any accident or spillage of hazardous wastes causing damage to the Environment, the occupier or the transporter as the case shall be held responsible.
 18. In case of closure of facility, the un-used/not consumed raw materials falling under the category of Hazardous Chemicals and mentioned in Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 and Amendment Rules, 2003 shall be removed and sold to other units within 90 days from the date of closure to prevent any possibility of occurrence of an accident. In case the above hazardous chemicals have lost their properties originally acquired, then they shall be treated, as Hazardous Waste and they shall be disposed off only to the agencies authorized by APPCB in a safe manner.
 19. The occupier shall prepare/update Emergency preparedness plan for safe handling of hazardous waste from time to time and submit the same to APPCB. Emergency preparedness plan must be implemented immediately whenever there is fire, explosion or release of hazardous waste or hazardous waste constituents, which could endanger to human health or environment.
 20. Packaging, labeling and transportation of Hazardous Wastes shall be in accordance with the provisions of the rules issued by the Central Govt. under the Motor Vehicles Act, 1988 and other guidelines issued from time to time. The packaging and labeling shall be based on the composition and hazardous constituent of the waste, however all Hazardous Waste containers shall be provided with a general label.
 21. The driver who transports Hazardous Waste shall be well acquainted about the procedure to be followed in case of an emergency during transit. The transporter shall carry a Transport Emergency (TREM) Card (as given in the guidelines for management and handling of hazardous wastes) duly filled by the Hazardous Waste generator.
 22. No Hazardous Wastes shall be mixed with any other wastes or shall be discharged to a common, other internal, external sewerage or other drainage system without prior approval of APPCB.
 23. If HDPE bags are used for storing Hazardous Wastes, it shall be ensured that they are perfectly sealed mechanically or double hot sealed. If MS/HDPE bags or drums are used for storing Hazardous Wastes, these drums / bags shall be ensured that they are perfectly sealed.
 24. The person authorized shall not rent, lend, sell, transfer their industrial premises without obtaining prior permission of the State Pollution Control Board.
 25. Any authorization change in personnel, equipment as working condition as mentioned in the application by the person authorized shall constitute a breach of his authorization.
 26. The facility shall comply with the provisions of Batteries (Management & Handling) Rules, 2001.
 27. The facility shall put up two sign boards (6x4 ft. each) at publicly visible places at the main gate. The first sign board shall provide information on specific conditions of CFO and Hazardous Waste Authorisation. The second sign board shall display online data on quantity and nature of hazardous chemicals being used in the plant, as well as water, air emissions and solid waste generated within the factory premises.
 28. The applicant shall exhibit the Consent & HW Authorisation order of the Board in the factory premises at a prominent place for the information of the inspecting officers of different departments.
 29. Notwithstanding anything contained in this conditional letter or consent, the Board hereby reserves the right and powers under Section 27(2) of the Water (Prevention & Control of Pollution) Act, 1974 and its amendments thereof and under Section 21 of the

Air (Prevention & Control of Pollution) Act, 1981 and its amendments thereof to review any and/or all the conditions imposed herein above and to make such variations as deemed fit for the purpose of the Acts by the Board.

30. The Authorization issued under Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008 and its amendments thereof, shall comply with the provision of the Environment (Protection) Act, 1986.

SCHEDULE - B

1. The industry shall handover the original Consent order No. APPCB/VSP/VZM/152/HO/CFO/2015-460, dated 21.04.2015, having validity upto 31.05.2018, to the RO, Vizianagaram after receipt of this order. The same stands cancelled from the date of receipt of this order.
2. The water consumption quantities of the facility are mentioned below:

S.No	Purpose	Sand Mine	Quantity (Wet Plant at Vatsavalasa)	Quantity (Mineral Separation plant)	Wet Plant at Tonangi
1.	Process (Makeup)	--	11619 KLD	275 KLD	3000 KLD
2.	Spraying in Stock Yard & Wetting the Roads	20.0	10 KLD	10 KLD	10 KLD
3.	Gardening / Irrigation	--	5 KLD	15 KLD	5 KLD
4.	Domestic / Canteen	6.0 KLD	6 KLD	20 KLD	4 KLD
Total		26.0 KLD	11640 KLD	320 KLD	3019 KLD

The industry shall maintain separate meters with necessary pipe-line for assessing the quantity of water used for each purpose at each Plant and maintain records.

3. The industry shall file the water cess returns in Form-I as required under section (5) of Water (Prevention and Control of Pollution) Cess Act, 1977 on or before the 5th of every calendar month, showing the quantity of water consumed in the previous month along with water meter readings. The industry shall remit water cess as per the assessment orders as and when issued by Board.
4. The industry shall comply with emission limits for DG sets of capacity upto 800 KW as per the Notification G.S.R.520 (E), dated 01.07.2003 under the Environment (Protection) Amendment Rules, 2003 and G.S.R.448(E), dated 12.07.2004 under the Environment (Protection) Second Amendment Rules, 2004. In case of DG sets of capacity more than 800 KW shall comply with emission limits as per the Notification G.S.R.489 (E), dated 09.07.2002 at serial no.96, under the Environment (Protection) Act, 1986.
5. The industry shall comply with ambient air quality standards of PM₁₀ (Particulate Matter size less than 10µm) - 100 µ/ m³; PM_{2.5} (Particulate Matter size less than 2.5 µm) - 60 µg/ m³; SO₂ - 80 µg/ m³; NO_x - 80 µg/ m³, outside the factory premises at the periphery of the industry.

Standards for other parameters as mentioned in the National Ambient Air Quality Standards CPCB Notification No.B-29016/20/90/PCI-I, dated 18.11.2009 shall be complied. Following standards prescribed for noise shall be complied.

Noise Levels: Day time (6 AM to 10 PM) - 75 dB (A)
Night time (10 PM to 6 AM) - 70 dB (A).

6. The industry shall not manufacture any product / activity, other than those mentioned in this order.
7. The industry shall submit the time bound action plan for backfilling of 6000 Tons of waste sand available at Vatsavalsa dry plant in the mined out areas.
8. The industry shall provide separate water meters with necessary pipeline Plant wise for assessing the quantity of water used for each of the purposes mentioned below.
 - a. Industrial cooling, boiler feed.

- b. Domestic purposes.
 - c. Processing, whereby water gets polluted and pollutants are easily biodegradable.
 - d. Processing, whereby water gets polluted and pollutants are not easily biodegradable.
9. The industry shall maintain the following records and the same shall be made available to the Board Officials during the inspection.
 - a. Daily production details, RG-I records and Central Excise Returns.
 - b. Quantity of Effluents generated, recycled and disposed.
 - c. Log Books for pollution control systems.
 - d. Daily solid waste generated and disposed.
 10. Thick green belt shall be maintained Plant wise with tall growing trees in atleast 33% of total area in the vacant spaces of the unit.
 11. A network of observation wells within and outside the lease area shall be maintained for regular monitoring of ground water quality and ground water table.
 12. A network of observation wells within and outside the lease area shall be maintained for regular monitoring of ground water quality and ground water table.
 13. The industry shall comply with EC conditions dated 17.04.2015 and CFE conditions dated 23.06.2015.
 14. The industry shall maintain the compliance of directions issued by the Board from time to time.
 15. The applicant shall submit Environment statement in Form V before 30th September every year as per Rule No.14 of E(P) Rules, 1986 & amendments.
 16. The conditions stipulated are without prejudice to the rights and contentions of this Board in any Hon'ble court of Law.

Wet & Dry Plants, Vatsavalasa(V):

17. The emissions shall not contain constituents in excess of the prescribed limits mentioned below:

Chimney No.	Parameter	Emission Standards
1 to 5	Particulate matter	115mg/Nm ³

18. The industry shall maintain separate energy meter for Effluent Treatment Plant (ETP) i.e., for sludge thickener and for air pollution control equipment.
19. The industry shall submit performance evaluation / efficiency of the Air Pollution Control Systems installed on quarterly basis.
20. The industry shall not cause dust / air pollution to surrounding environment during transportation of mined sand. Industry shall provide water sprinklers at raw material handling section for dust suppression.
21. The industry shall not discharge any effluents into Perlavanipet agricultural fields.
22. The industry shall maintain green belt in the mined area after leveling and towards sea side on reclaimed mined area.
23. The industry shall operate water sprinklers to control fugitive emissions at different transfer points and haul roads.
24. The industry shall maintain water sprinklers at raw material handling section for dust suppression and maintain records.
25. All transit water storage facilities shall be maintained with impervious lining to prevent pollution.
26. The thickener sludge / sand shall be disposed for back filling in mined out areas.
27. Total generation of Silica sand (Plant Tails) from the Wet Plants at Vatsavalasa and Tonangi shall not exceed 5.07 Million TPA. The plant tails shall be used for backfilling the mined out areas by transportation/pumping in the form of slurry and stock piling.

Wet Plant, Tonangi(V):

28. Water sprinklers shall be maintained for dust suppression.
29. The industry shall not discharge any effluent to outside the premises.
30. The industry shall control fugitive emissions generated at different transfer points and material storage and handling system.
31. The industry shall maintain water sprinklers at raw material handling section for dust suppression and maintain records.
32. All transit water storage facilities shall be provided with impervious lining to prevent pollution.
33. The thickener sludge / sand shall be disposed for back filling in mined out areas. The industry shall submit mine plan and back filling plan to RO, Vizianagaram.
34. The industry shall not cause dust / air pollution to surrounding environment during transportation of mined sand.

Beach Sand Mining, Vatsavalasa(V), Gara(M):

35. The industry shall submit the mining plan as well as back filling plan. The industry shall dispose the OB dump in the mined area only for back filling and shall not dump in unauthorized places.
36. The mining shall be in accordance with the mining plan approved by AMD & IBM.
37. The industry shall not carryout mining towards inter tidal area and within 100 Mts. from HTL towards landward side as stipulated in the EC order dated 17.04.2015.
38. The industry shall carryout radiation survey regularly as per statutory requirement.
39. The industry shall not cause dust / air pollution to the surrounding environment during transportation of mined sand.
40. The industry shall comply with the following:

Existing: Wet & Dry Plants

S. No.	Type of solid Waste	Source of Generation	Quantity at Vatsavalasa	Quantity at Tonangi	Sand Mine	Dry plant	Method of Disposal
1	Silica tailing containing low grade Minerals	Process	2433 TPD	2433 TPD	-----	-----	Back filling in mined out areas
2	Thickener Sludge (Slurry)	Thickener	2000 KLD	1000 KLD	-----	50 KLD	Back filling in mined out areas
3	Waste Lubricating Oil (Hazardous)	DG Set / Gear Boxes	100 LPM	100 LPM	10 LPM	100 LPM	To disposed to authorized agencies
4	Mineral Rich Tails from Dry mill of Mineral Separation plant		Non-Hazard	-----		170 TPD	Back filling in mined out areas

After Expansion: Wet Plant-I & II

S. No.	Solid Waste generated from	Exist-ing	Expansion Quantity	Total	Method of disposal
1.	Silica Sand (Plant Tails) from Wet mill of Pre-concentration plants	4867 TPD (1.77 MTPA)	3.30 MTPA	5.07 MTPA	Reused for back filling the mined out areas by transportation/ pumping in the form of slurry and stock piling.

2.	Mineral Rich Tails from Dry mill of Mineral Separation plant	170 TPD(0.062 MTPA)	0.032 MTPA	0.094 MTPA	
3.	Waste Lubricating Oil (Hazardous)	310 LPM	120 LPM	430 LPM	To be disposed to authorized agencies

41. During initial mining stages, a green belt of width 7.5 m. shall be developed all around the mine lease boundary. Subsequently to develop 50m barrier zone with 5-tier plantation inside mine lease in a progressive way near the active mining sites as specified in the EC order dt. 17.04.2015.
42. Fencing of entire lease area, barrier of 100m towards sea shall be done to protect Olive Turtle nesting ground.
43. The proponent shall obtain all clearances from all competent authorities.

SCHEDULE - C

[see rule 5(4)]

[CONDITIONS OF AUTHORISATION FOR OCCUPIER OR OPERATOR HANDLING HAZARDOUS WASTES]

1. The industry shall give top priority for waste minimization and cleaner production practices.
2. The industry shall not store hazardous waste for more than 90 days as per the Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and amendments thereof.
3. The industry shall store Used / Waste Oil and Used Lead Acid Batteries in a secured way in their premises till its disposal.
4. The industry shall not dispose Waste oils to the traders and the same shall be disposed to the authorized Reprocessors/ Recyclers.
5. The industry shall dispose Used Lead Acid Batteries to the manufacturers / dealers on buyback basis.
6. The industry shall not dispose spent solvents / mixed spent solvents to the traders.
7. The industry shall take necessary practical steps for prevention of oil spillages and carry over of oil from the premises.
8. The industry shall maintain 6 copy manifest system for transportation of waste generated and a copy shall be submitted to Board Office and concerned Regional Office.
9. The industry shall maintain good house keeping & maintain proper records for Hazardous Wastes stated in Authorisation.
10. The industry shall maintain proper records for Hazardous Wastes stated in Authorisation in FORM-3 i.e., quantity of Incinerable waste, land disposal waste, recyclable waste etc., and file annual returns in Form- 4 as per Rule 22(2) of the Hazardous Wastes (Management, Handling & Transboundary Movement) Rules, 2008 and amendments thereof.
11. The industry shall dispose of e-waste to the authorised recyclers only.
12. The industry shall submit the condition wise compliance report of the conditions stipulated in Schedule A, B & C of this Order on half yearly basis to Board Office, Hyderabad and concerned Regional Office.

**Sd/-
MEMBER SECRETARY**

To
M/s. Trimex Sands Pvt., Ltd.,
(Beach Sand Mining, Wet Plant & Mineral Separation Plants),
Vatsavalasa (V), Tonangi(V), Gara (M),
Srikakulam District – 532 001

//T.C.F.B.O//
10/31/15
JOINT CHIEF ENVIRONMENTAL ENGINEER
UNIT HEAD - IV

Back filling



Andhra Pradesh Coastal Zone Management Authority Minutes of Meeting

S.No	Condition	Compliance
1	No mining shall be carried out in the inter-tidal zone and within 100 M from HTL towards landward side. No mining shall be carried out in sand dune areas.	No mining is carried out in the inter-tidal zone and within 100m from HTL towards landward side. Area beyond 100m from HTL area is demarcated with boundary pillars & barbed wire fencing. Enclosed as Annexure-A
2	Dressing or altering the sand dunes, hills, natural features including landscape changes shall not be carried out for beautification or recreational purposes. In case of mining of rare minerals, precautions shall be taken to prevent intrusion of sea water into the hinterland to avoid problem of submersion/ flooding.	All sand dunes are identified before undertaking mining activities, by the ENVID group, Andhra University, Visakhapatnam and the detailed report has been submitted to MoEF, RO Chennai along with previous compliance report vide our letter no. TSPL/MIN/MoEF/ENV/17-18/427 dated 25.11.2017. All these dunes are being protected and maintained as per the approved plan. All precautions as per the recommendations of the Hydro Geological study by the Andhra university are being implemented to prevent intrusion of sea water into hinterland
3	The mining activities shall be regulated in such a way that there will be minimum disturbance to the fauna during spawning and breeding period i.e from November to March.	No mining activity is carried out near the 100 m line during the breeding period.
4	The depth of mining is subject to the approval of competent authorities such as AMD/IBM.	Complied by implementing the approved Mining Plan conditions.
5	Tailings and rejects should be filled back systematically after separating the heavy/rare minerals. Sand tailings shall be put back at the mined area on completion of extraction of rare minerals. As a follow up measure, afforestation with the suitable species shall be taken up on mined out areas to prevent erosion of shoreline.	Sand tailings and rejects are being filled back to mined out areas systematically after separating the heavy/rare minerals. Afforestation being carried out with different species on mined out areas to prevent erosion of shoreline.
6	Mining shall be carried out in phases only. Simultaneous opening of entire beach front is not permissible. There shall be uninterrupted access to the seafront. Minimum 20 m. width of approach roads shall be provided wherever necessary.	It is being complied.
7	Tapping of Ground water is expressly prohibited in CRZ area. A network of ground water observation wells within and outside the	No ground water is tapped from the CRZ area. Established 11 Nos. of ground water observation wells within

	lease area shall be established for regular monitoring of ground water quality and water levels in the surrounding areas. These analysis as per norms must be documented and sent regularly (every three months) to the Zonal Laboratory, Andhra Pradesh Pollution Control Board.	and outside the lease area and monitoring is being carried out by MoEF/PCB approved external laboratory and reports submitted to the regional office of the MoEF quarterly. Enclosed observation well's location map as Annexure - 5 and monitoring reports as Annexure -6 .
8	Radiation survey shall be carried out as stipulated by the Atomic Minerals Division of Government of India to ascertain the effects of radio-active minerals.	Radiation survey is carried out at locations as per the directive of the Atomic Energy Regulations Board (AERB), DAE to ascertain the effects of radioactive minerals and reports submitted periodically (Annexure -B)
9	The Total Suspended Solids (TSS) in the discharge waste water shall be maintained within the permissible limit which is subject to the standards stipulated by the APPCB.	Being complied.
10	Baseline data of benthic fauna shall be furnished before the Commencement of the work on expansion of the existing project. The industry shall prepare such data and circulate among the members of the Andhra Pradesh State Coastal Zone Management Authority (APCZMA) for the purpose of record.	Approval obtained for Wildlife Conservation Plan from the Principal Chief Conservator of Forests (WL) & Chief Wildlife Warden, Hyderabad vide Rc.No:22899/2013/WL-3 Dt:11.11.2014 (Annexure -2).
11	The afforestation with suitable species shall be implemented to act as shelter belt/wind break to stabilize the filled up areas.	Being complied.
12	Mining shall be carried out by permitted methods without the use of any forms of blasting. Use of explosives for blasting is prohibited.	Complied, No blasting is carried out.
13	Extraction of Monozite is a prohibited activity as the same is not permitted by the Atomic Minerals Directorate of Department of Atomic Energy.	Complied.
14	The project proponent shall strive to obtain the performance report on similar plants under operation using seawater in South Africa or elsewhere.	Will be complied.
15	The Authority also felt that post project monitoring of shoreline by a specialized agency like NIO / ICMAM/ Andhra University shall be taken up to study the impact of mining of rare minerals on shoreline in conformity with the conditions stipulated in the environmental clearance by the Government of India to the industry.	Noted.

Fencing at 100 Mts. from HTL





TSPL/MIN/AERB/18-19/1172

30-04-2018.
Srikakulam.

To,
The Head,
Operating Plants Safety Division,
Atomic Energy Regulatory Board,
Niyamak Bhavan-A, Anushaktinagar,
Mumbai-400 094.

Dear Sir,

We are herewith submitting Quarterly Health Physics Report for **Jan to Mar, 2018**.

Thanking You,

Yours truly,

Sr. Vice President (Mines)

**QUARTERLY HEALTH PHYSICS REPORT FOR
NON DAE BEACH SAND MINERALS (BSM) FACILITY**

Date: 30-04-2018.

Name of the facility : TRIMEX SANDS PVT LTD.
 Location of the facility : SRIKAKULAM, ANDHRAPRADESH.
 Period Reporting : Jan,2018 to Mar,2018.

1.0 A). DOSE STATICS (TLD lab report is enclosed)

		No. of persons monitored	Collective dose (person-mSv)	Average Individual dose (mSv)	Maximum Individual dose (mSv)
Quarter	Regular	28	6.15	0.22	0.85
	Temporary	NIL	NIL	NIL	NIL
Cumulative in the year	Regular	28	6.15	0.22	0.85
	Temporary	NIL	NIL	NIL	NIL

B). DOSE STATICS (Estimated from Radiation Survey Meter)

		No. of persons monitored	Collective dose (person-mSv)	Average Individual dose (mSv)	Maximum Individual dose (mSv)
Quarter	Regular	NIL	NIL	NIL	NIL
	Temporary	05	0.467	0.093	0.005
Cumulative in the year	Regular	NIL	NIL	NIL	NIL
	Temporary	05	0.467	0.093	0.005

1.1 INDIVIDUAL DOSE STATICS

Dose range(mSv)	Number of person in year		
	Regular	Temporary	Total
Less than 2	28	05	33
2-6	NIL	NIL	NIL
>6-20	NIL	NIL	NIL
>20-30	NIL	NIL	NIL
>30	NIL	NIL	NIL
Total	28	05	33

2.0 MONAZITE ENRICHED TAILINGS DETAILS

	Raw material used (From mines and stock)			Final Products (Which ever is applicable)					Tailings Generated		
	Feed	Pre - Concentration plant output	Procured raw material	Ilmenite	Rutile	Zircon	Garnet	Sillimanite	Silica Rich Tailings		Monazite Enriched Tailings
									Rejects from PCP	Rejects from MSP	
Qty/ Yr (tons)	12,02,962	1,86,159 (*)	---	74,714	2,698	1,229	14,012	12,867	9,16,594	70,978	736
Monazite (%)	0.107	IRZ - 0.581 GA - 0.105 SI - 0.050	---	0.049	0.083	0.190	0.040	0.013	0.041	0.407	61.491

(*) 8925 MT of Concentrate material generated from Pre-Concentration Plant is available in Plant premises.

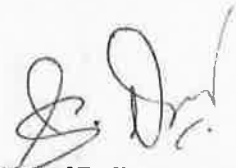
METHOD OF DISPOSAL OF MONAZITE ENRICHED TAILINGS (Tick whichever is applicable)

- i) Disposed by backfilling of mined out site
 ii) **Disposed in trenches within the plant boundary**
 iii) Sold to the other BSM facility

3.0 RADIATION MONITORING RESULT (whichever is applicable)

Location	Radiation Level ($\mu\text{Gy/hr}$)
Mining Area	0.5 – 0.7
Backfilled Area	0.1–0.2
Pre Concentration Plant	
• General Background	0.2–0.4
• Raw material Storage	0.5 – 0.7
• Pre Concentration Plant out put	IRZ con : 2 – 3 GA con : 0.1–0.2 Sil con : 0.1–0.15
• Pre Concentration Plant Tailings	0.1–0.2
Mineral Separating plant (Physical mineral separation and /or Chemical processing)	
• General Background of plant premises	0.2 – 0.6
• Raw material Storage	IRZ con : 2 – 3 GA con : 0.10 – 0.20 Sil con : 0.10 – 0.20
• Inside Mineral Separating plant(eg Magnetic, High tension separators)	0.5 – 0.6
• Monazite Enriched tailings storage area	17–98
• On Top of Trenches filled with monazite enriched tailings and topped with silica rich sand	0.2 – 0.4
• Inside chemical processing plant having minerals separation unit (roaster, calciner, digester, effluent, pipelines like iron oxide slurry pipe lines etc)	-NA-

The table is indicative nature .If necessary; facility may be including other area also.



(Signature of Radiological Safety Officer)
 Signature of the Employer with Official Seal & Date

**RADIOLOGICAL SAFETY OFFICER
 TRIMEX SANDS PVT LTD.,
 VATSAVALASA (V), GARA (M)
 SRIKAKULAM (DIST)-532 404, A.P**

AVANTTEC LABORATORIES (P) LTD.,
No. 17, Arignar Anna Industrial Estate, Mettukuppam, Vanagaram, Chennai - 600 095.
Personnel Monitoring Service
DOSE REPORT

Institution No. : 015026
 Address : TRIMEX SANDS PVT LTD
 VATSAVALASA (V), GARA (M),
 SRIKAKULAM (DIST),
 SRIKAKULAM, ANDHRAPRADESH,
 INDIA - 532404

Report Date : 19/04/2018
 SERVICE FREQUENCY : QUARTERLY
 YEAR: 2018

#	Pers. No.	Name	Worn At	Whole Body Dose (mSv)				Current Year Total	Beta Dose (mSv)	Beta Total (mSv)	Wrist Dose (mSv) (XG)+B = Total	Wrist Total mSv
				Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec					
1	0006	RAJULM	C	0.00				0.00				
2	0008	RAMAKRISHNAP	C	0.15				0.15				
3	0011	SATYAM.T	C	0.45				0.45				
4	0013	KAMA RAJU.T	C	0.85				0.85				
5	0014	RAMA RAO.P	C	0.20				0.20				
6	0015	VENKATA RAO.P	C	0.30				0.30				
7	0016	RAMA RAO.T	C	0.00				0.00				
8	0017	SIMHACHALAM.THAMADA	C	0.20				0.20				
9	0018	RADHA KRISHNA.K	C	0.15				0.15				
10	0019	SIMHACHALAM.TELUKUTI	C	0.15				0.15				
11	0020	RAMA RAO.M	C	0.40				0.40				
12	0021	NARAYANA RAO.D	C	0.20				0.20				
13	0022	DANAYYA.T	C	0.35				0.35				
14	0023	RAMA RAJUS	C	0.00				0.00				
15	0024	SRINIVASA RAO.B	C	0.00				0.00				
16	0025	BHAGAVAN.D	C	0.25				0.25				
17	0029	SHRI.MYLAPILLI NAGA RAJU	C	0.10				0.10				
18	0034	Dr.VENKATESHAB	C	0.00				0.00				
19	0035	SHRI.SHAIK NAZEER	C	0.00				0.00				
20	0037	SHRI.APPALA NAIDU.P	C	0.15				0.15				
21	0038	SHRI.BHANOJI RAO.B	C	0.15				0.15				
22	0039	SHRI.RAMA RAO.D	C	0.40				0.40				
23	0040	SHRI.GOVINDA RAO.J	C	0.25				0.25				
24	0041	SHRI.RAMANA MURTHY.CH	C	0.00				0.00				
25	0042	SHRI.TAMADA APPANNA	C	0.75				0.75				
26	0043	SHRI.NARAYANASWAMI.T	C	0.35				0.35				
27	0044	SHRI.RAMA KRISHNA.K	C	0.35				0.35				
28	0045	SHRI.JAGADESWARA RAO.N	C	0.00				0.00				

Institution No. : 015026

# Para. No.	Name	Wom At	Whole Body Dose (mSv)				Current Year Total	Beta Dose (mSv)	Beta Total (mSv)	Wisc Dose (mSv) (XG)+B = Total	Wisc Total mSv
			Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec					

Notes :

1. All doses are reported in millirem (mSv=100mR/m).
2. When more than one card is used dose is added.
3. Annual effective dose in any calendar year shall not exceed 30 mSv.
4. ' ' means in the service period dosemeter not used.
5. ' ' TLD cards are spoiled or contaminated.

2. No Dose reported for new person unless PDF received.
4. Dose below measurable level for X-RAY=0.05 mSv, BETA=0.50 mSv and GAMMA=0.10 mSv is shown zero.
6. Cumulative effective dose for a block of sliding 5 years (current year + previous 4 years) is 100 mSv
8. ' ' means Total dose > 20mSv. Inform details of the radiation work/practice to BARCA/ERB
10. ' ' means better betw said regarding over exposure > 100 mSv.

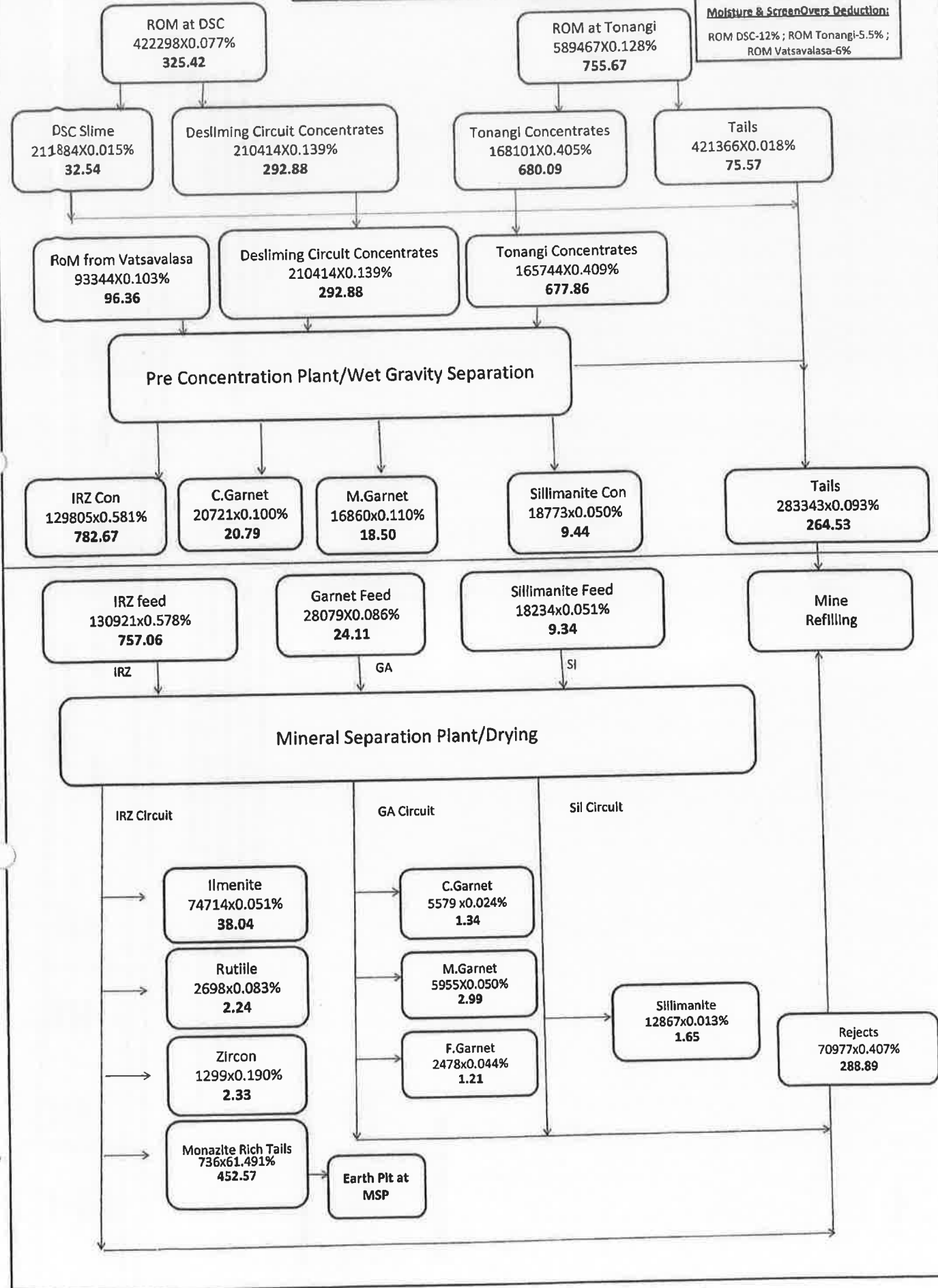
Checked & Authenticated By



P. JAYAPPAN
SR. SCIENTIFIC OFFICER

MONAZITE MATERIAL BALANCE

Moisture & Screen Overs Deduction:
 ROM DSC-12% ; ROM Tonangi-5.5% ;
 ROM Vatsavalasa-6%





ole.

TSPL/MIN/AERB/17-18/455

26-02-2018.
Srikakulam.

To,
The Head,
Operating Plants Safety Division,
Atomic Energy Regulatory Board,
Niyamak Bhavan-A, Anushaktinagar,
Mumbai-400 094.

Dear Sir,

We are herewith submitting Quarterly Health Physics Report for **Oct to Dec, 2017.**

Thanking You,

Yours truly,

A handwritten signature in black ink, consisting of several overlapping, sweeping lines.

Sr. Vice President (Mines)

A handwritten signature in black ink, consisting of several overlapping, sweeping lines.

Trimex Sands Pvt Ltd: Vatchavalasa (V), Gara Mandal, Srikakulam District - 532 404, Andhra Pradesh, India.
Tel: +91 8942 283755, Fax: +91 8942 283758, E-mail: info@trimexsands.com, URL:www.trimexsands.com

CIN : U14299TN2004PTC071437

**QUARTERLY HEALTH PHYSICS REPORT FOR
NON DAE BEACH SAND MINERALS (BSM) FACILITY**

Date: 26-02-2018.

Name of the facility : TRIMEX SANDS PVT LTD.
 Location of the facility : SRIKAKULAM, ANDHRAPRADESH.
 Period Reporting : Oct.2017 to Dec.2017.

1.0 A). DOSE STATICS (TLD lab report is enclosed)

		No. of persons monitored	Collective dose (person-mSv)	Average Individual dose (mSv)	Maximum Individual dose (mSv)
Quarter	Regular	28	7.10	0.25	1.35
	Temporary	NIL	NIL	NIL	NIL
Cumulative in the year	Regular	30	34.15	1.14	2.75
	Temporary	NIL	NIL	NIL	NIL

B). DOSE STATICS (Estimated from Radiation Survey Meter)

		No. of persons monitored	Collective dose (person-mSv)	Average Individual dose (mSv)	Maximum Individual dose (mSv)
Quarter	Regular	NIL	NIL	NIL	NIL
	Temporary	06	0.318	0.053	0.003
Cumulative in the year	Regular	NIL	NIL	NIL	NIL
	Temporary	06	0.318	0.053	0.003

1.1 INDIVIDUAL DOSE STATICS

Dose range(mSv)	Number of person in year		
	Regular	Temporary	Total
Less than 2	26	06	32
2-6	04	NIL	04
>6-20	NIL	NIL	NIL
>20-30	NIL	NIL	NIL
>30	NIL	NIL	NIL
Total	30	06	36

2.0 MONAZITE ENRICHED TAILINGS DETAILS

	Raw material used (From mines and stock)			Final Products (Which ever is applicable)					Tailings Generated		
	Feed	Pre - Concentration plant output	Procured raw material	Ilmenite	Rutile	Zircon	Garnet	Sillimanite	Silica Rich Tailings		Monazite Enriched Tailings
									Rejects from PCP	Rejects from MSP	
Qty/ Yr (toñs)	11,18,953	1,90,379(*)	---	67,148	2,220	1,188	14,657	15,758	9,28,574	79,945	582
Monazite (%)	0.104	IRZ - 0.603 GA - 0.105 SI - 0.050	---	0.049	0.083	0.191	0.037	0.013	0.035	0.499	60.722

(*) 8,881 MT of Concentrate material generated from Pre-Concentration Plant is available in Plant premises.

METHOD OF DISPOSAL OF MONAZITE ENRICHED TAILINGS (Tick whichever is applicable)

- i) Disposed by backfilling of mined out site
 ii) **Disposed in trenches within the plant boundary**
 iii) Sold to the other BSM facility

3.0 RADIATION MONITORING RESULT (whichever is applicable)

Location	Radiation Level ($\mu\text{Gy/hr}$)
Mining Area	0.5 – 0.8
Backfilled Area	0.1–0.2
Pre Concentration Plant	
• General Background	0.2–0.4
• Raw material Storage	0.5 – 0.7
• Pre Concentration Plant out put	IRZ con : 2 – 3 GA con : 0.1–0.2 Sil con : 0.1–0.2
• Pre Concentration Plant Tailings	0.1–0.2
Mineral Separating plant (Physical mineral separation and /or Chemical processing)	
• General Background of plant premises	0.2 – 0.5
• Raw material Storage	IRZ con : 2 – 3 GA con : 0.10 – 0.20 Sil con : 0.10 – 0.20
• Inside Mineral Separating plant(eg Magnetic, High tension separators)	0.5 – 0.7
• Monazite Enriched tailings storage area	15–97
• On Top of Trenches filled with monazite enriched tailings and topped with silica rich sand	0.2 – 0.4
• Inside chemical processing plant having minerals separation unit (roaster, calciner, digester, effluent, pipelines like iron oxide slurry pipe lines etc)	-NA-

The table is indicative nature .If necessary; facility may be including other area also.


26/2/18.

(Signature of Radiological Safety Officer)
 Signature of the Employer with Official Seal & Date

RADIOLOGICAL SAFETY OFFICER
TRIMEX SANDS PVT LTD.,
VATSAVALASA (M), GARA (M)
SRIKAKULAM (DIST)-532 404, A.P

AVANTEC LABORATORIES (P) LTD.,
 No. 17, Arignar Anna Industrial Estate, Mettukuppam, Yanagaram, Chennai - 600 095.
 Personnel Monitoring Service
 DOSE REPORT

Institution No. : 015026

Address : TRIMEX SANDS PVT LTD
 VATSALASA (V), GARA (M),
 SRIKAKULAM (DIST),
 SRIKAKULAM, ANDHRAPRADESH,
 INDIA - 532404

SERVICE FREQUENCY : QUARTERLY YEAR : 2017

Report Date : 07/02/2018

#	Pers. No.	Name	Worn At	Whole Body Dose (mSv)				Current Year Total	Beta Dose (mSv)	Beta Total (mSv)	Wrist Dose (mSv) (X/G)+HB = Total	Wrist Total mSv
				Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec					
1	0006	RAJU.M	C	0.00	0.00	0.15	0.00	0.15	--	--	--	--
2	0008	RAMAKRISHNA.P	C	0.05	0.00	0.40	0.15	0.60	--	--	--	--
3	0011	SATYAM.T	C	0.05	0.45	0.60	0.30	1.40	--	--	--	--
4	0013	KAMA RAJU.T	C	0.05	0.55	0.80	1.35	2.75	--	--	--	--
5	0014	RAMA RAO.P	C	0.05	0.00	0.35	0.25	0.60	--	--	--	--
6	0015	VENKATA RAO.P	C	0.05	0.70	0.75	0.25	1.75	--	--	--	--
7	0016	RAMA RAO.T	C	0.00	0.00	0.60	0.25	0.85	--	--	--	--
8	0017	SIMHACHALAM,THAMADA	C	0.50	0.50	0.65	0.35	2.00	--	--	--	--
9	0018	RADHA KRISHNAK	C	0.05	0.00	0.50	0.15	0.70	--	--	--	--
10	0019	SIMHACHALAM, TELUKUTI	C	0.55	0.25	0.45	0.40	1.65	--	--	--	--
11	0020	RAMA RAO.M	C	1.00	0.35	0.70	0.50	2.55	--	--	--	--
12	0021	NARAYANA RAO.D	C	0.55	0.40	0.50	0.25	1.70	--	--	--	--
13	0022	DANAYYA.T	C	0.45	0.55	0.70	0.10	1.80	--	--	--	--
14	0023	RAMA RAJU.S	C	0.00	0.00	0.00	0.00	0.00	--	--	--	--
15	0024	SRIJUVASA RAO.B	C	0.45	0.50	0.90	0.25	2.10	--	--	--	--
16	0025	BHAGAVAN.D	C	0.00	0.00	0.55	0.20	0.75	--	--	--	--
17	0029	SHRI.MYLAPILLI NAGA RAJU	C	0.05	0.65	0.35	0.15	1.20	--	--	--	--
18	0032	SHRI.SAMPATHI RAO PRASANNA KL	C	0.00	-	-	-	0.00	--	--	--	--
19	0034	Dr:VENKATESHA.B	C	0.00	0.45	0.60	0.00	1.05	--	--	--	--
20	0035	SHRI.SHAIK NAZEER	C	0.00	0.00	0.00	0.00	0.00	--	--	--	--
21	0036	SHRI,ANVESH MAMIDI	C	0.00	-	-	-	0.00	--	--	--	--
22	0037	SHRI.APPALA NAIDU.P	C	0.05	0.40	0.30	0.15	0.90	--	--	--	--
23	0038	SHRI.BHANOJI RAO.B	C	0.60	0.00	0.60	0.20	1.40	--	--	--	--
24	0039	SHRI.RAMA RAO.D	C	0.05	0.55	0.80	0.30	1.70	--	--	--	--
25	0040	SHRI.GOVINDA RAO.J	C	0.65	0.50	0.60	0.15	1.90	--	--	--	--
26	0041	SHRI.RAMANA MURTHY.CH	C	0.00	0.10	0.10	0.00	0.10	--	--	--	--
27	0042	SHRI.TAMADA APPANNA	C	0.55	0.35	0.55	0.45	1.90	--	--	--	--
28	0043	SHRI.NARAYANASWAMI.T	C	0.50	0.00	0.50	0.70	1.70	--	--	--	--
29	0044	SHRI.RAMA KRISHNA.K	C	0.45	0.00	0.25	0.25	0.95	--	--	--	--

Institution No. : 015026

#	Pers. No.	Name	Worn At	Whole Body Dose (mSv)				Current Year Total	Beta Dose (mSv)	Beta Total (mSv)	Wrist Dose (mSv) (XG)+B = Total	Wrist Total mSv
				Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec					
30	0045	SHRIJAGADESWARA RAO.N	C		0.00	0.00	0.00	0.00	--	--	--	

Notes :

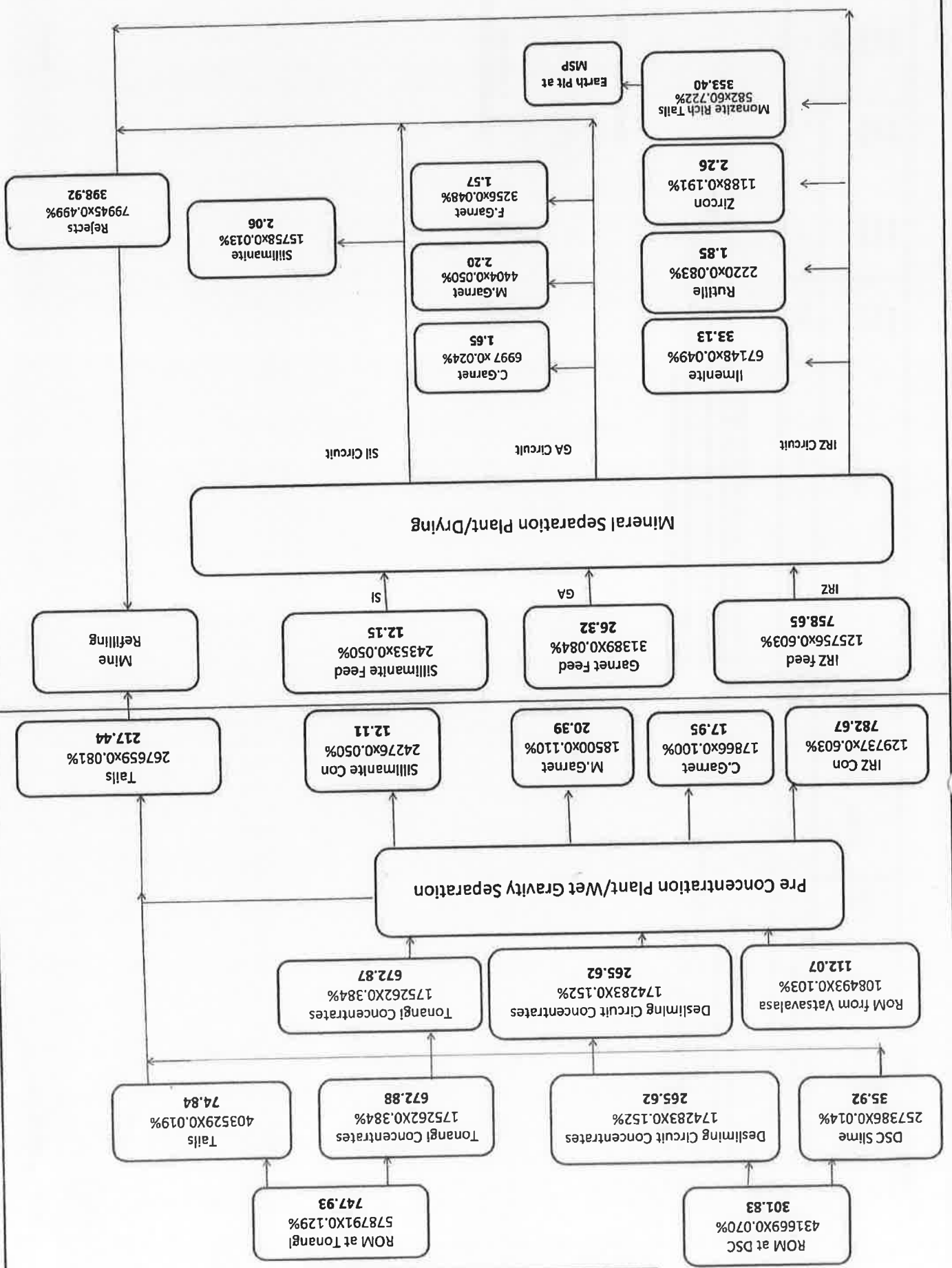
- All doses are reported in millisievert (1mSv=100mRem).
- When more than one card is used dose is added.
- Annual effective dose in any calendar year shall not exceed 30 mSv.
- ... means in the service period dosimeter not used.
- ... TLD cards are spoiled or contaminated.
- No Dose reported for new person unless PDF received.
- Dose below measurable level for X-RAY=0.05 mSv; BETA=0.50 mSv and GAMMA=0.10 mSv is shown zero.
- Cumulative effective dose for a block of sliding 5 years (current year + previous 4 years) is 100 mSv
- ... means Total dose>20mSv. Inform details of the radiation work/practice to BARC/AERB
- ... means letter sent regarding over exposure > 100 mSv.

Checked & Authenticated By



P. JAYAPPAN
SR. SCIENTIFIC OFFICER

MONAZITE MATERIAL BALANCE



Registered AD

भारत सरकार/Government of India
खान मंत्रालय/Ministry of Mines
भारतीय खान ब्यूरो/Indian Bureau of Mines
हैदराबाद क्षेत्रीय कार्यालय/Hyderabad Regional Office

Phone No. : (040)-27539992/2753993
Fax No.(TF): (040)-27539991
E-Mail : ro.hyderabad@ibm.gov.in
No. AP/SRK/MP/Garnet-Silliminate-7/Hyd

603, 6th Floor,
CGO Towers, Kavadiguda,
Secunderabad – 500 080.

Date: = 2 MAR 2017

To
Sri T V Chowdary,
M/s. Trimex Sands Pvt. Ltd.,
Trimex Towers,
No.1, Subbaraya Avenue,
8P, Ramaswamy Rd., Alwarpet,
Chennai – 600018.

Sub: Approval of Modified Mining Plan in respect of Srikurmam Heavy Minerals Sands Mines of M/s. Trimex Sands Pvt. Ltd over an extent of 7.20 Sq.Km. in Vastsavalasa & Tonangi Villages, Gara Mandal, Srikakulam dist., A.P. submitted under Rule 17(3) of MCR, 2016.

Ref: 1. Your letter no. TSPL/IBM/MMP/2016/3 dated 03.01.2017.
2. This office letter of even no. dated 17.01.2017.
3. Your letter No. TSPL/IBM/MMP/2017/1 dated 31.01.2017.

Sir,

In exercise of the power conferred by the clause (b) of sub-section (2) of Section-5 of Mines and Minerals (Development and Regulation) Act, 1957 (as amended up to 27th March, 2015) and Powers delegated by the Controller General, Indian Bureau of Mines vide Order No.S.O.1857(E) dated 18th May,2016 and further as per Rule 3(2) of Atomic Mineral Concession Rules,2016 which states that “ Mineral Concessions relating to atomic Minerals where the grade of atomic mineral contained in the ore is less than the threshold value will be governed by the provisions of the Minerals(other than atomic and Hydrocarbon Energy Minerals,2016 in force”. I hereby approve the Modified Mining Plan .The approval is subject to the following conditions:

- i) The Modified Mining Plan is approved without prejudice to any other law applicable to the Mining lease area from time to time whether made by the Central Government, State Government or any other authority and without prejudice to any order or direction from any court of competent jurisdiction.
- ii) The proposals shown on the plates and/or given in the document is based on the lease map/sketch submitted by the lessee and is applicable from the date of approval.
- iii) It is also clarified that the approval of the aforesaid Modified Mining Plan does not in any way imply the approval of the Government in terms of any other provision of the Mines and Minerals (Development & Regulation) Act, 1957, or the Minerals (Other than Atomic and Hydro Carbons Energy Minerals) Concession Rules, 2016 and any other laws including Forest (Conservation) Act, 1980, Environment (Protection) Act, 1986 or the rules made there under, Mines Act, 1952 and Rule & Regulations made there under.
- iv) Indian Bureau of Mines has not undertaken verification of the applied Mining lease boundary on the ground and does not undertake any responsibility regarding correctness of the boundaries of the leasehold shown on the ground with reference to lease map & other plans furnished by the applicant.
- v) At any stage, if it is observed that the information furnished, data incorporated in the document are incorrect or misrepresent facts, the approval of the document shall be revoked with immediate effect.
- vi) The disposal of the radioactive waste generated if any, will be stacked/disposed as per the directives/instructions from the competent authority.

Yours faithfully,

(Pankaj K. Kishore) 
Regional controller of Mines

Encl: One copy of approved Modified Mining Plan
containing Text-156, Annexure-68 & Plates-17

Copy for kind information to:

1. Sri Deepak Rathod, Trimex Towers, No. 1, Subbaraya Avenue, C.P. Ramswamy Road, Alwarpet, Chennai
2. The Director of Mines and Geology, Govt. of Andhra Pradesh, 4th and 5th Floors, Sri Anjaneya Towers, Ibrahimpatnam, Vijayawada, A.P. along with copy of Approved Mining Plan..
3. The Director of Mines Safety, Hyderabad Region, No.2, South Central Zone, DGMS, Room No.701, 7th Floor, CGO Towers, Praga Tools Premises, Kavadiiguda, Secunderabad- 500 080.



(Pankaj Kulshreshtha)
Regional controller of Mines



Piezometer Monitoring for the month of January-2018

Location	Date	Time	Temp (C)	pH	EC (uS/cm @25C)	TDS (mg/L)	SAL (PSU)	Water Table	+MSL
PM-1	30-Jan-18	15:15:17	29.9	8.27	463	300	0.15	0.258	
PM-2	30-Jan-18	14:37:26	30.7	8.06	400	260	0.13	6.094	
PM-3	30-Jan-18	14:23:39	30.0	7.98	354	230	0.11	2.666	
PM-4	30-Jan-18	11:24:26	28.6	7.84	194	126	0.06	3.340	
PM-5	30-Jan-18	11:34:04	28.0	8.07	441	286	0.14	4.377	
PM-6	30-Jan-18	11:06:23	27.8	7.74	510	492	0.32	0.560	
PM-7	30-Jan-18	12:27:40	28.9	8.41	222	144	0.07	1.360	

Piezometer Monitoring for the month of February-2018

Location	Date	Time	Temp (C)	pH	EC (uS/cm @25C)	TDS (mg/L)	SAL (PSU)	Water Table	+MSL
PM-1	28-Feb-18	10:36:50	29.9	8.16	481	312	0.15	0.178	
PM-2	28-Feb-18	11:16:40	30.6	7.95	390	253	0.12	5.864	
PM-3	28-Feb-18	11:02:20	30.1	8.01	349	226	0.11	1.866	
PM-4	28-Feb-18	14:48:11	27.9	7.52	383	248	0.08	3.340	
PM-5	28-Feb-18	14:59:14	28.1	8.10	367	229	0.12	4.197	
PM-6	28-Feb-18	14:21:57	27.9	7.59	574	451	0.29	0.360	
PM-7	28-Feb-18	15:11:42	28.7	8.29	266	172	0.08	1.080	

Piezometer Monitoring for the month of March-2018

Location	Date	Time	Temp (C)	pH	EC (uS/cm @25C)	TDS (mg/L)	SAL (PSU)	Water Table	+MSL
PM-1	30-Mar-18	14:03:59	29.7	8.29	457	297	0.15	0.078	
PM-2	30-Mar-18	13:42:50	30.5	8.07	382	248	0.12	5.594	
PM-3	30-Mar-18	13:31:38	30.0	8.00	352	228	0.11	1.466	
PM-4	30-Mar-18	11:08:23	28.9	7.54	292	189	0.09	3.240	
PM-5	30-Mar-18	11:18:19	28.7	8.18	340	221	0.11	4.147	
PM-6	30-Mar-18	11:27:20	28.9	7.70	362	235	0.11	0.170	
PM-7	30-Mar-18	10:51:50	28.5	8.39	310	434	0.16	1.530	

Piezometer Monitoring for the month of October-2017

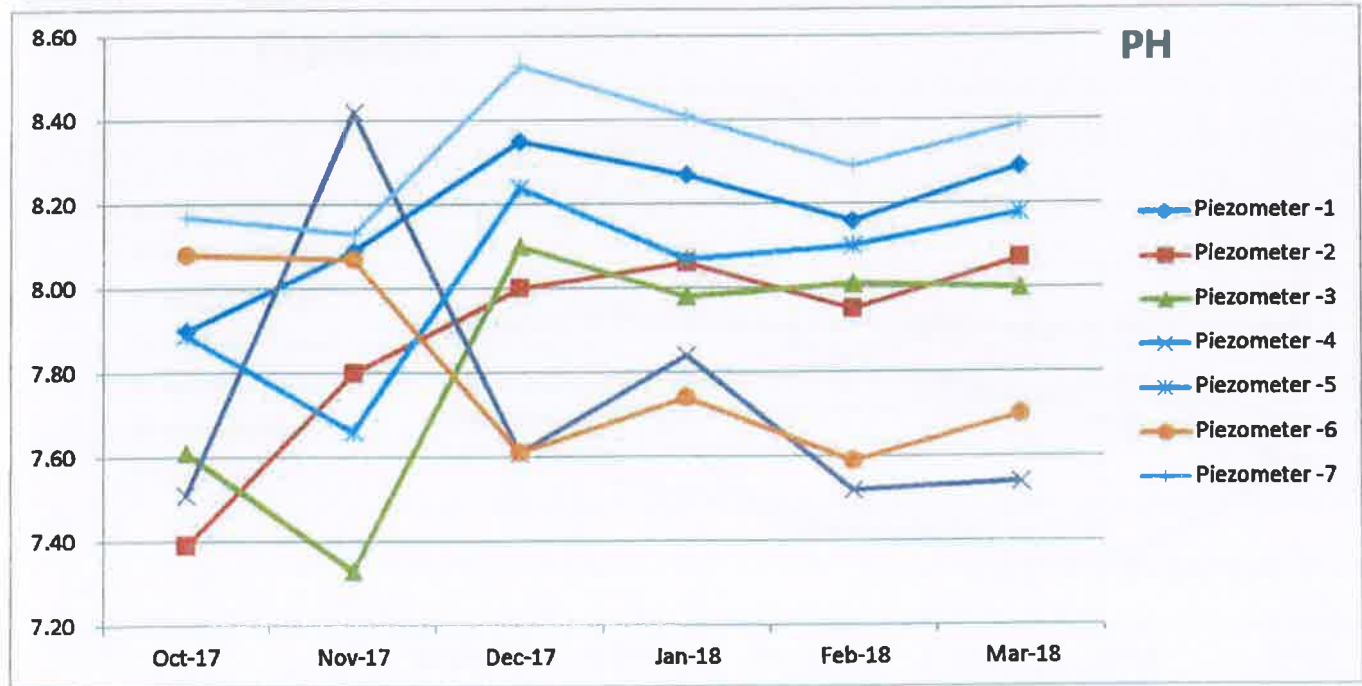
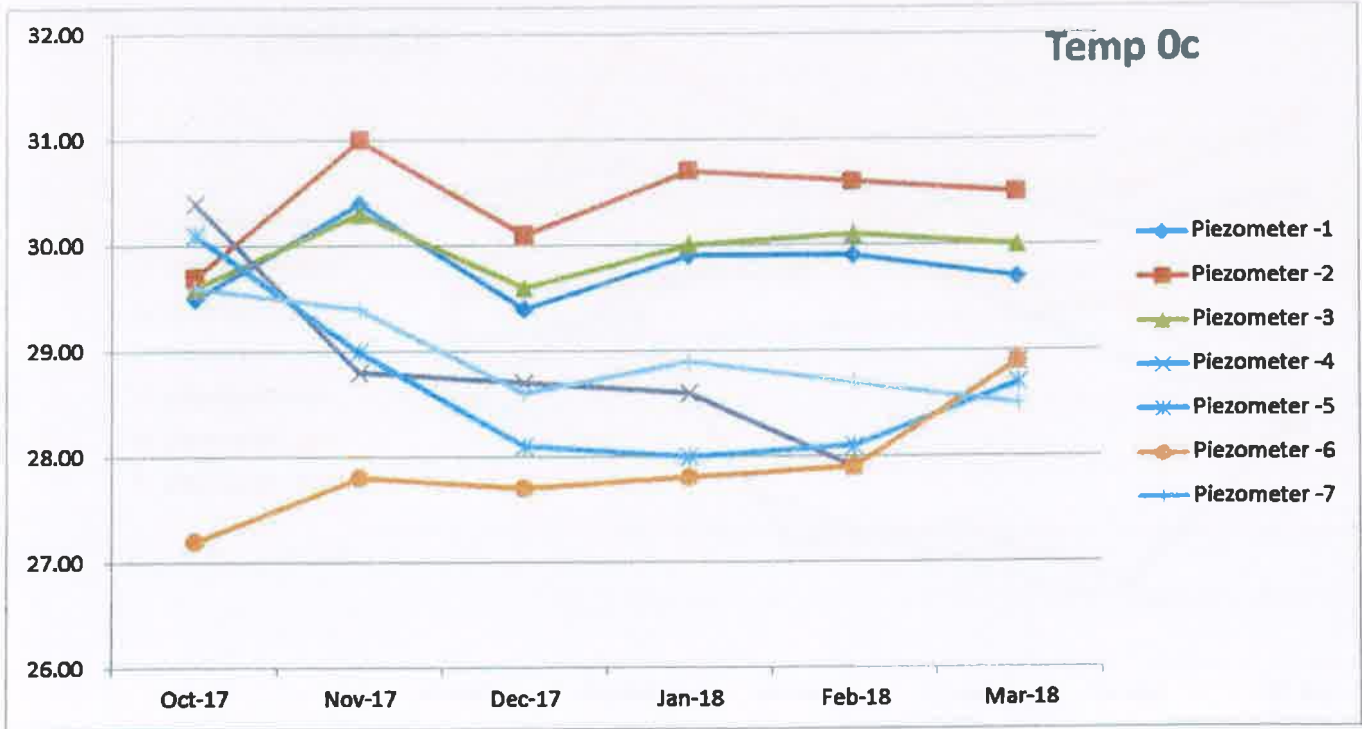
Location	Date	Time	Temp (C)	pH	EC (uS/cm @25C)	TDS (mg/L)	SAL (PSU)	Water Table	+MSL
PM-1	30-Oct-17	10:49:31	29.5	7.9	462	300	0.15	0.578	
PM-2	30-Oct-17	10:17:32	29.7	7.39	516	335	0.22	6.794	
PM-3	30-Oct-17	10:08:26	29.6	7.61	345	224	0.11	3.286	
PM-4	30-Oct-17	9:06:12	30.4	7.51	290	188	0.09	3.720	
PM-5	30-Oct-17	9:41:24	30.1	7.89	284	184	0.09	4.397	
PM-6	30-Oct-17	9:15:41	27.2	8.08	284	184	0.09	0.870	
PM-7	30-Oct-17	9:52:06	29.6	8.17	150	97	0.05	2.280	

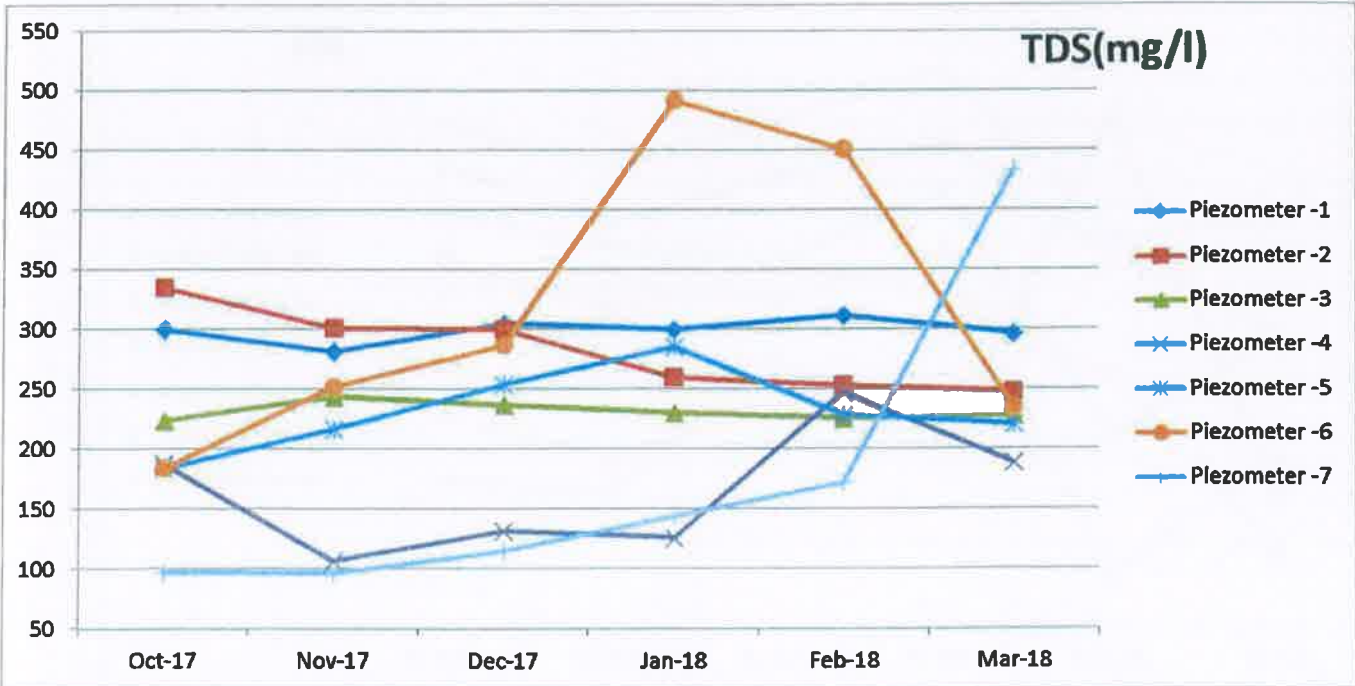
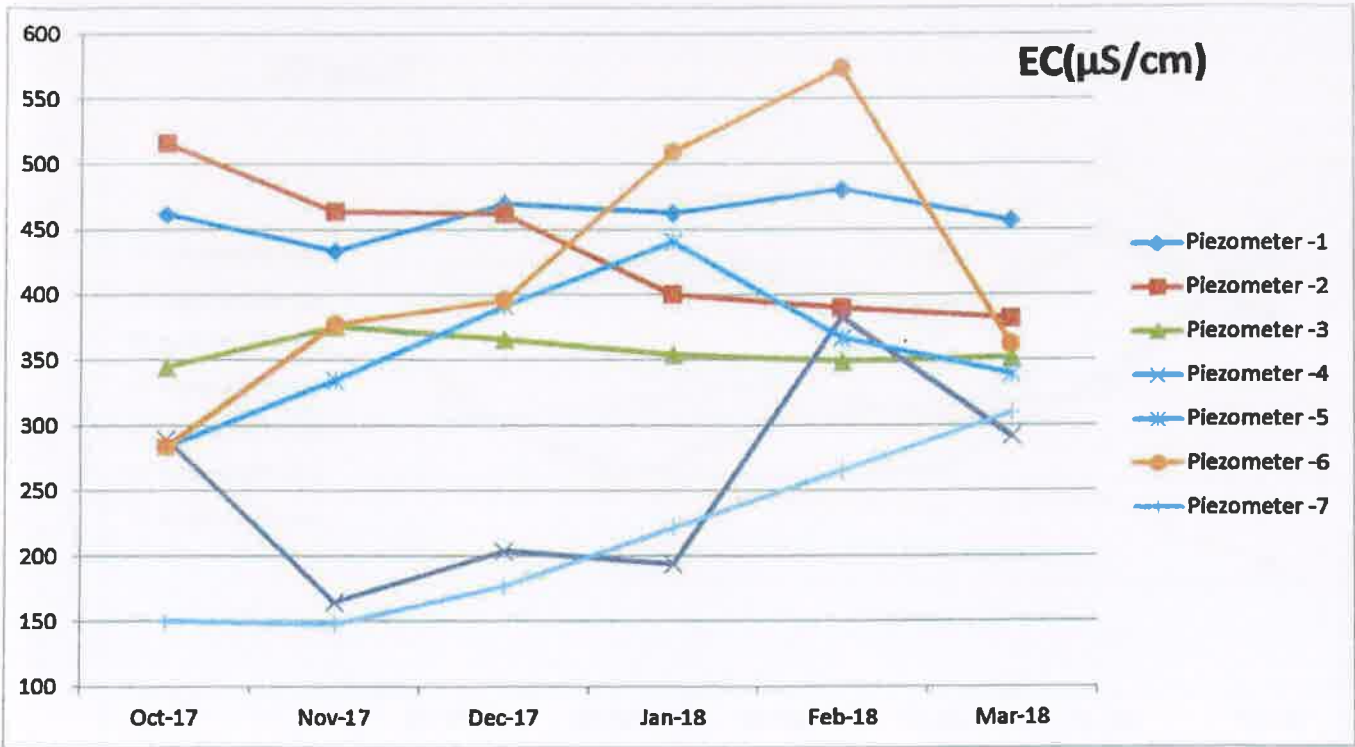
Piezometer Monitoring for the month of November-2017

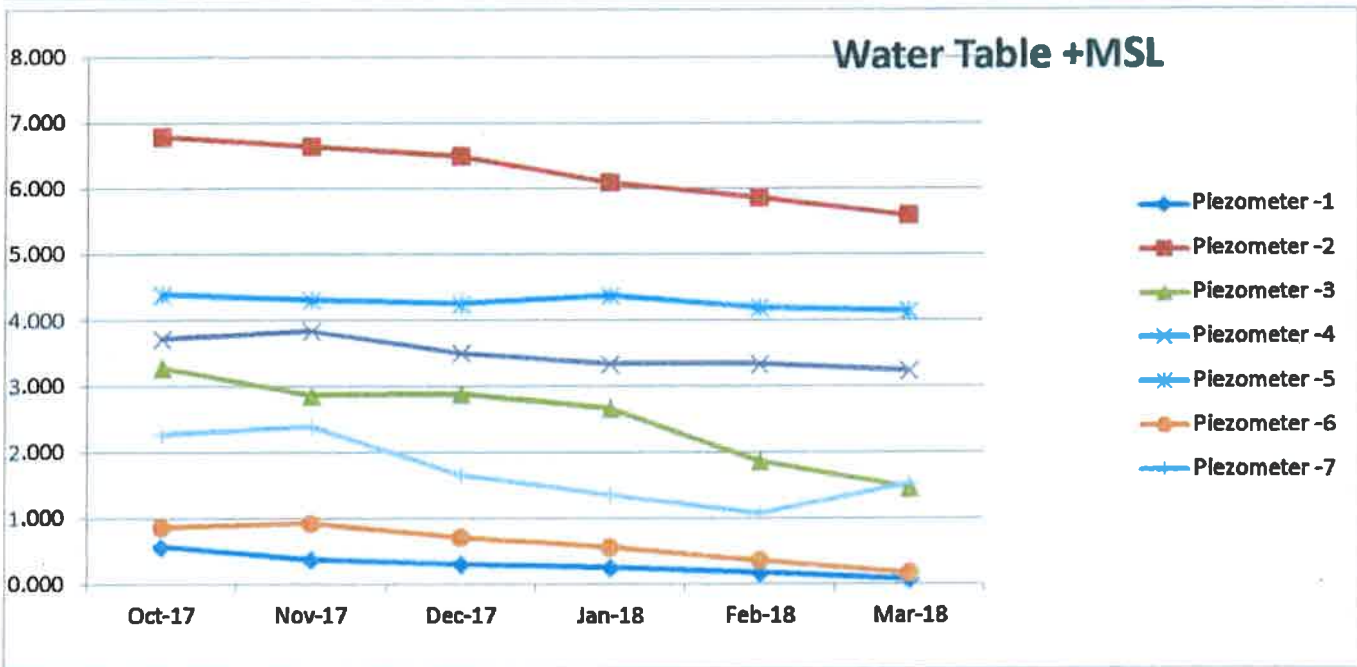
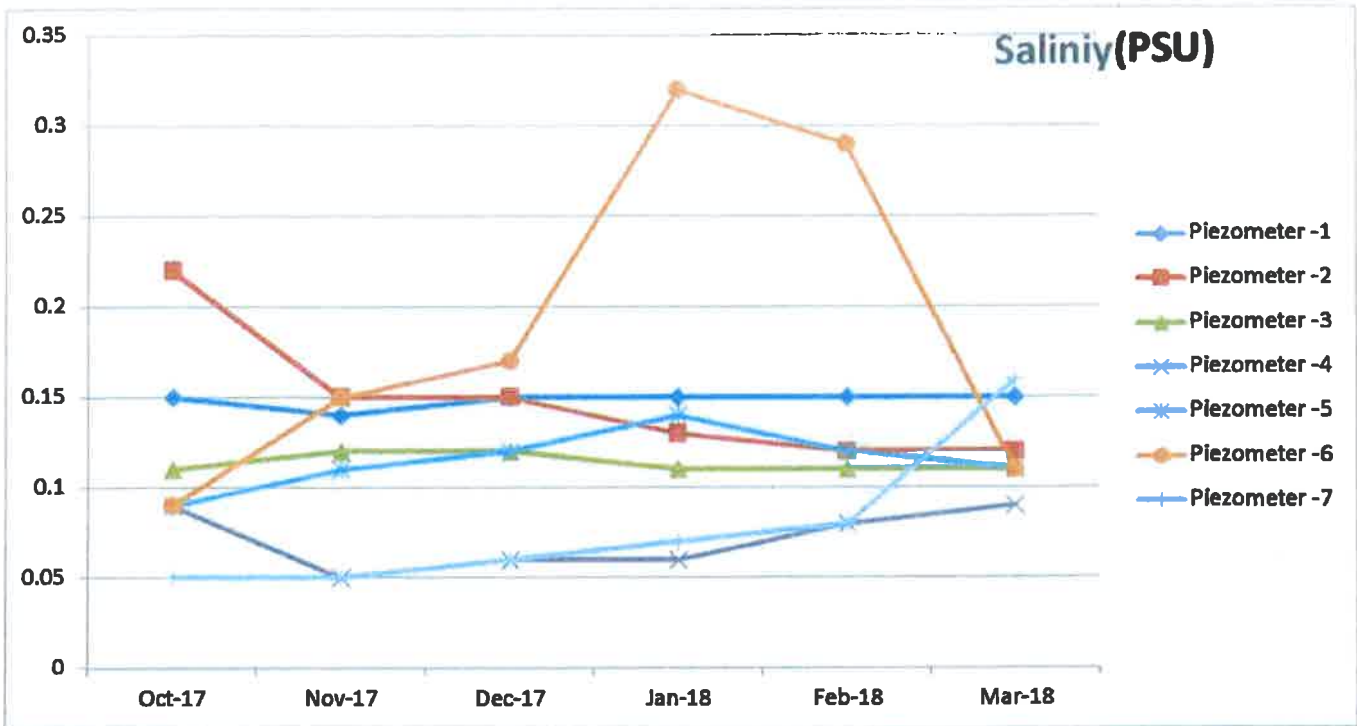
Location	Date	Time	Temp (C)	pH	EC (uS/cm @25C)	TDS (mg/L)	SAL (PSU)	Water Table	+MSL
PM-1	30-Nov-17	11:47:57	30.4	8.09	434	282	0.14	0.378	
PM-2	30-Nov-17	11:27:01	31	7.8	464	301	0.15	6.644	
PM-3	30-Nov-17	11:16:30	30.3	7.33	376	244	0.12	2.866	
PM-4	30-Nov-17	10:25:15	28.8	8.42	165	107	0.05	3.840	
PM-5	30-Nov-17	10:36:11	29	7.66	335	217	0.11	4.317	
PM-6	30-Nov-17	10:09:58	27.8	8.07	378	252	0.15	0.920	
PM-7	30-Nov-17	10:48:30	29.4	8.13	148	96	0.05	2.400	

Piezometer Monitoring for the month of December-2017

Location	Date	Time	Temp (C)	pH	EC (uS/cm @25C)	TDS (mg/L)	SAL (PSU)	Water Table	+MSL
PM-1	30-Dec-17	11:19:43	29.4	8.35	470	305	0.15	0.308	
PM-2	30-Dec-17	10:56:34	30.1	8	462	300	0.15	6.494	
PM-3	30-Dec-17	10:44:29	29.6	8.1	366	237	0.12	2.886	
PM-4	30-Dec-17	9:58:17	28.7	7.61	204	132	0.06	3.510	
PM-5	30-Dec-17	10:11:15	28.1	8.24	392	254	0.12	4.257	
PM-6	30-Dec-17	9:43:16	27.7	7.61	396	287	0.17	0.710	
PM-7	30-Dec-17	10:23:01	28.6	8.53	177	115	0.06	1.660	







TEAM

ORIGINAL

Form-No. TCLL/GF/R -138

Labs and Consultants**Registered Office :****4547**

B-115, 116, 117 & 509, Annapoorna Block, Aditya Enclave, Ameerpet, Hyderabad - 530038.
Ph. : (O) 040-23748555 / 23748616, Fax : 040-23748666, Email : teamlabs@gmail.com

ISO 9001 : 2008, ISO 14001 : 2004 and OHSAS 18001 : 2007 Certified Organization
Laboratory Recognised by Ministry Environment, Forests and Climate Change, Gol, New Delhi

TEST REPORT

Test Report No. TLC/V/Env/TSPL/8/0318 dt04.04.2018

Description of Test: Phisico-chemical Analysis of Water

Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: Water samples as per Details given

Date of Sample Collected : 14.03.2018

o	Parameter	Mogadalapadu Open Well water	Parlavanipeta Open Well water	Pedda vatsavalasa Open Well water	Pedda Tonangi Open Well water
1	pH	7.65	8.05	8.05	7.85
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	795mgpl	1150 mgpl	895mgpl	1015mgpl
5	Total Suspended Solids	6mgpl	7mgpl	6mgpl	8mgpl
6	Turbidity	3.0 NTU	2.7 NTU	2.6NTU	2.7NTU
7	Total Hardness as CaCo3	390mgpl	150mgpl	290mgpl	300mgpl
8	Calcium as CaCo3	280mgpl	90mgpl	210mgpl	210mgpl
9	Magnesium as CaCo3	110mgpl	6mgpl	80 mgpl	90mgpl
10	Chlorides Cl-	145mgpl	245mgpl	250mgpl	230mgpl
11	Flouride	0.6mgpl	0.5mgpl	0.5mgpl	0.6mgpl
12	Sulphates	95mgpl	120mgpl	67mgpl	80mgpl
13	Nitrates	110.5mgpl	59.5 mgpl	55.5 mgpl	5.5 mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.07mgpl	0.09mgpl	0.06mgpl	0.04mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	4.2	3.25	4.7	3.15

For TEAM Labs and Consultants



Labs and Consultants**Registered Office :**

4543

B-115, 116, 117 & 509, Annapoorna Block, Aditya Enclave, Ameerpet, Hyderabad - 530038.
 Ph. : (O) 040-23748555 / 23748616, Fax : 040-23748666, Email : teamlabs@gmail.com

ISO 9001 : 2008, ISO 14001 : 2004 and OHSAS 18001 : 2007 Certified Organization
 Laboratory Recognised by Ministry Environment, Forests and Climate Change, Gol, New Delhi

TEST REPORT

Test Report No. TLC/V/Env/TSPL/9/0318 dt04.04.2018

Description of Test: Phisico-chemical Analysis of Water

Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: Water samples as per Details given

Date of Sample Collected : 14.03.2018

No	parameter	PCP open well	Tails water	Pond at Vatchavalasa	MSP Open well
1	pH	7.25	7.25	8.35	7.15
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	410mgpl	240mgpl	625mgpl	355mgpl
5	Total Suspended Solids	5	18mgpl	5	5mgpl
6	Turbidity	1.4NTU	7.0NTU	2.2NTU	1.6NTU
7	Total Hardness as CaCo3	190mgpl	60mgpl	210mgpl	190mgpl
8	Calcium as CaCo3	120mgpl	40mgpl	140mgpl	105mgpl
9	Magnesium as CaCo3	70mgpl	20mgpl	70mgpl	85mgpl
10	Chlorides Cl-	65mgpl	55mgpl	195mgpl	65mgpl
11	Flouride	0.5 mgpl	0.5mgpl	0.5 mgpl	0.4mgpl
12	Sulphates	28mgpl	75mgpl	25mgpl	32mgpl
13	Nitrates	0.5mgpl	15.0mgpl	0.5mgpl	0.5 mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.05mgpl	0.10mgpl	0.05mgpl	0.05mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from groundlevel inmtrs	1.75	-	-	2.64

For TEAM Labs and Consultants



Registered Office :

B-115, 116, 117 & 509, Annapoorna Block, Aditya Enclave, Ameerpet, Hyderabad - 530038.

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Laboratory Recognised by Ministry Environment, Forests and Climate Change, GoI, New Delhi

TEST REPORT

Test Report No.TLC/V/Env/TSPL/10/0318

dt04.04.2018

Description of Test: Phisico-chemical Analysis of Water

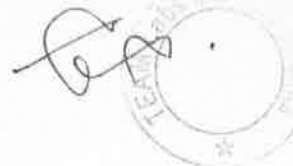
Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: Water samples as per Details given

Date of Sample Collected : 14.03.2018

No	Parameter	Komara vanipeta O. W.water	Bandaruvani peta O. W.water	Chinatonangi open well water	Batchuvanipeta open well water
1	pH	7.35	8.25	8.25	7.45
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	970mgpl	850mgpl	580mgpl	975mgpl
5	Total Suspended Solids	6mgpl	5mgpl	5mgpl	6mgpl
6	Turbidity	5.0NTU	2.5NTU	1.4NTU	3.6 NTU
7	Total Hardness as CaCo3	340mgpl	250mgpl	140mgpl	280mgpl
8	Calcium as CaCo3	260mgpl	180mgpl	90mgpl	190mgpl
9	Magnesium as CaCo3	80mgpl	70 mgpl	50mgpl	90mgpl
10	Chlorides Cl-	230mgpl	245mgpl	110mgpl	290mgpl
11	Flouride	0.5mgpl	0.5mgpl	0.4mgpl	0.6mgpl
12	Sulphates	105mgpl	70mgpl	34mgpl	125mgpl
13	Nitrates	55.0 mgpl	5.0 mgpl	1.0 mgpl	0.5 mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.06mgpl	0.05gpl	0.05mgpl	0.05mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	4.0	2.91	2.07	3.55

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TLC/V/Env/TSPL/8/0218

dt07.03.2018

Description of Test: Phisico-chemical Analysis of Water

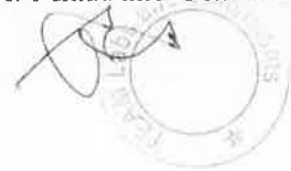
Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: Water samples as per Details given

Date of Sample Collected : 14.02.2018

No	Parameter	Mogadalapadu Open Well water	Parlavanipeta Open Well water	Pedda vatsavalasa Open Well water	Pedda Tonangi Open Well water
1	pH	7.95	8.05	7.95	7.70
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	870mgpl	1120 mgpl	1050mgpl	1020mgpl
5	Total Suspended Solids	6mgpl	7mgpl	6mgpl	10mgpl
6	Turbidity	3.2 NTU	3.0 NTU	3.6NTU	3.0NTU
7	Total Hardness as CaCo3	370mgpl	170mgpl	350mgpl	180mgpl
8	Calcium as CaCo3	280mgpl	100mgpl	260mgpl	110mgpl
9	Magnesium as CaCo3	90mgpl	70mgpl	90 mgpl	70mgpl
10	Chlorides Cl-	150mgpl	210mgpl	210mgpl	170mgpl
11	Flouride	0.6mgpl	0.5mgpl	0.5mgpl	0.5mgpl
12	Sulphates	52mgpl	75mgpl	97mgpl	90mgpl
13	Nitrates	84.5mgpl	54.5 mgpl	14.5 mgpl	25.5 mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.07mgpl	0.08mgpl	0.06mgpl	0.04mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	4.0	3.15	3.9	2.90

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TLC/V/Env/TSPL/9/0218 dt07.03.2018
 Description of Test: Phisico-chemical Analysis of Water
 Name of the client: Trimex Sands Pvt. Ltd.
 Location of sampling: Water samples as per Details given
 Date of Sample Collected : 14.02.2018

No	parameter	PCP open well	Tails water	Pond at Vatchavalasa	MSP Open well
1	pH	8.2	7.85	7.9	8.15
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	350mgpl	230mgpl	725mgpl	415mgpl
5	Total Suspended Solids	5	18mgpl	5	5mgpl
6	Turbidity	1.5NTU	8.0NTU	2.7NTU	1.8NTU
7	Total Hardness as CaCo3	140mgpl	60mgpl	140mgpl	190mgpl
8	Calcium as CaCo3	90mgpl	40mgpl	100mgpl	105mgpl
9	Magnesium as CaCo3	50mgpl	20mgpl	40mgpl	85mgpl
10	Chlorides Cl-	90mgpl	55mgpl	142mgpl	75mgpl
11	Flouride	0.5 mgpl	0.5mgpl	0.5 mgpl	0.4mgpl
12	Sulphates	35mgpl	25mgpl	29mgpl	40mgpl
13	Nitrates	0.5mgpl	11.0mgpl	1.5mgpl	3.5 mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.05mgpl	0.10mgpl	0.05mgpl	0.05mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from groundlevel inmtrs	1.39	-	-	2.21

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TEST REPORT

Test Report No. TLC/V/Env/TSPL/10/0218

dt07.03.2018

Description of Test:

Phisico-chemical Analysis of Water

Name of the client:

Trimex Sands Pvt. Ltd.

Location of sampling:

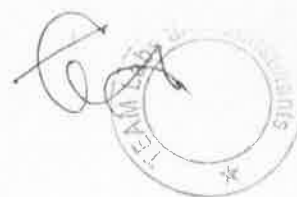
Water samples as per Details given

Date of Sample Collected :

14.02.2018

No	Parameter	Komara vanipeta O. W. water	Bandaruvani peta O. W. water	Chinatonangi open well water	Batchuvanipeta open well water
1	pH	7.90	7.20	8.2	7.45
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	1070mgpl	1150mgpl	730mgpl	2140mgpl
5	Total Suspended Solids	6mgpl	5mgpl	5mgpl	6mgpl
6	Turbidity	5.3NTU	3.5NTU	1.6NTU	6.6 NTU
7	Total Hardness as CaCo3	390mgpl	340mgpl	170mgpl	640mgpl
8	Calcium as CaCo3	300mgpl	220mgpl	110mgpl	390mgpl
9	Magnesium as CaCo3	90mgpl	120 mgpl	60mgpl	250mgpl
10	Chlorides Cl-	240mgpl	250mgpl	110mgpl	680mgpl
11	Flouride	0.5mgpl	0.5mgpl	0.4mgpl	0.6mgpl
12	Sulphates	78mgpl	110mgpl	40mgpl	195mgpl
13	Nitrates	56.0 mgpl	12.0 mgpl	5.0 mgpl	18.0 mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.08mgpl	0.05gpl	0.06mgpl	0.09mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	3.70	2.77	1.90	3.35

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TEST REPORT

Test Report No.TLC/V/Env/TSPL/8/0118

dt08.02.2018

Description of Test: Phisico-chemical Analysis of Water

Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: Water samples as per Details given

Date of Sample Collected : 23.01.2018

No	Parameter	Mogadalapadu Open Well water	Parlavanipeta Open Well water	Pedda vatsavalasa Open Well water	Pedda Tonangi Open Well water
1	pH	7.80	7.95	7.85	7.80
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	850mgpl	1180 mgpl	1090mgpl	920mgpl
5	Total Suspended Solids	6mgpl	7mgpl	6mgpl	10mgpl
6	Turbidity	3.4 NTU	3.3 NTU	3.8NTU	3.5NTU
7	Total Hardness as CaCo3	380mgpl	170mgpl	355mgpl	170mgpl
8	Calcium as CaCo3	290mgpl	100mgpl	265mgpl	105mgpl
9	Magnesium as CaCo3	90mgpl	70mgpl	90 mgpl	65mgpl
10	Chlorides Cl-	140mgpl	225mgpl	215mgpl	180mgpl
11	Flouride	0.6mgpl	0.5mgpl	0.5mgpl	0.5mgpl
12	Sulphates	55mgpl	77mgpl	94mgpl	89mgpl
13	Nitrates	89.5mgpl	51.5 mgpl	12.5 mgpl	28.5 mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.07mgpl	0.08mgpl	0.06mgpl	0.04mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	3.90	3.09	3.6	2.75

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TEST REPORT

Test Report No. TLC/V/Env/TSPL/9/0118 dt08.02.2018

Description of Test: Phisico-chemical Analysis of Water

Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: Water samples as per Details given

Date of Sample Collected : 23.01.2018

No	parameter	PCP open well	Tails water	Pond at Vatchavalasa	MSP Open well
1	pH	8.2	7.85	7.9	8.15
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	340mgpl	250mgpl	650mgpl	405mgpl
5	Total Suspended Solids	6	15mgpl	5	5mgpl
6	Turbidity	1.9NTU	9.0NTU	2.9NTU	1.5NTU
7	Total Hardness as CaCo3	145mgpl	65mgpl	130mgpl	190mgpl
8	Calcium as CaCo3	95mgpl	45mgpl	90mgpl	105mgpl
9	Magnesium as CaCo3	50mgpl	20mgpl	40mgpl	85mgpl
10	Chlorides Cl-	80mgpl	55mgpl	150mgpl	70mgpl
11	Flouride	0.5 mgpl	0.5mgpl	0.5 mgpl	0.4mgpl
12	Sulphates	29mgpl	25mgpl	27mgpl	35mgpl
13	Nitrates	0.5mgpl	14.0mgpl	1.8mgpl	2.0 mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.04mgpl	0.10mgpl	0.05mgpl	0.06mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from groundlevel inmtrs	1.30	-	-	2.1

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Test Report No. TLC/V/Env/TSPL/10/0118 dt08.02.2018
 Description of Test: Phisico-chemical Analysis of Water
 Name of the client: Trimex Sands Pvt. Ltd.
 Location of sampling: Water samples as per Details given
 Date of Sample Collected : 23.01.2018

No	Parameter	Komara vanipeta O. W. water	Bandaruvani peta O. W. water	Chinatonangi open well water	Batchuvanipeta open well water
1	pH	7.90	7.20	8.2	7.45
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	1080mgpl	1190mgpl	650mgpl	2310mgpl
5	Total Suspended Solids	6mgpl	5mgpl	5mgpl	6mgpl
6	Turbidity	5.5NTU	3.8NTU	1.9NTU	7.0 NTU
7	Total Hardness as CaCo3	395mgpl	340mgpl	170mgpl	630mgpl
8	Calcium as CaCo3	305mgpl	220mgpl	110mgpl	390mgpl
9	Magnesium as CaCo3	90mgpl	120 mgpl	60mgpl	240mgpl
10	Chlorides Cl-	245mgpl	270mgpl	120mgpl	695mgpl
11	Flouride	0.5mgpl	0.5mgpl	0.4mgpl	0.6mgpl
12	Sulphates	79mgpl	95mgpl	36mgpl	190mgpl
13	Nitrates	54.0 mgpl	10.0 mgpl	5.0 mgpl	15.0 mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.09mgpl	0.05gpl	0.06mgpl	0.08mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	3.30	2.64	1.83	3.09

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TEST REPORT

Test Report No. TLC/V/Env/TSPL/8/1217 dt06.01.2018
Description of Test: Phisico-chemical Analysis of Water
Name of the client: Trimex Sands Pvt. Ltd.
Location of sampling: Water samples as per Details given
Date of Sample Collected : 26.12.2017

No	Parameter	Mogadalapadu Open Well water	Parlavanipeta Open Well water	Pedda vatsavalasa Open Well water	Tonangi Mining area surface water	Pedda Tonangi Open Well water
1	pH	7.75	8.05	8.10	8.25	7.85
2	Colour Hazen unlts	5	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	730mgpl	1090 mgpl	1010mgpl	310mgpl	870mgpl
5	Total Suspended Solids	6mgpl	7mgpl	6mgpl	15mgpl	10mgpl
6	Turbidity	3.4 NTU	3.8 NTU	4.2NTU	5.5NTU	4.2 NTU
7	Total Hardness as CaCo3	360mgpl	160mgpl	350mgpl	85mgpl	155mgpl
8	Calcium as CaCo3	280mgpl	95mgpl	260mgpl	60mgpl	105mgpl
9	Magnesium as CaCo3	80mgpl	65mgpl	90 mgpl	25mgpl	50 mgpl
10	Chlorides Cl-	125mgpl	210mgpl	225mgpl	70mgpl	160mgpl
11	Flouride	0.6mgpl	0.5mgpl	0.5mgpl	0.4mgpl	0.5mgpl
12	Sulphates	45mgpl	75mgpl	90mgpl	40mgpl	85mgpl
13	Nitrates	95.5mgpl	47.5 mgpl	12.0 mgpl	3.0 mgpl	22.5 mgpl
14	Phosphates	BDL	BDL	BDL	BDL	BDL
15	Iron	0.07mgpl	0.08mgpl	0.06mgpl	0.04mgpl	0.04mgpl
16	Lead	BDL	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	3.64	2.96	3.6	-	2.6

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TEST REPORT

Test Report No.TLC/V/Env/TSPL/9/1217

dt06.01.2018

Description of Test:

Phisico-chemical Analysis of Water

Name of the client:

Trimex Sands Pvt. Ltd.

Location of sampling:

Water samples as per Details given

Date of Sample Collected :

26.12.2017

No	parameter	PCP open well	Tails water	Pond at Vatchavalasa	MSP Open well
1	pH	7.9	7.55	8.10	7.95
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	260mgpl	220mgpl	495mgpl	385mgpl
5	Total Suspended Solids	6	16mgpl	5	5mgpl
6	Turbidity	1.4NTU	8.8NTU	2.6NTU	1.8NTU
7	Total Hardness as CaCo3	130mgpl	60mgpl	140mgpl	180mgpl
8	Calcium as CaCo3	90mgpl	40mgpl	90mgpl	105mgpl
9	Magnesium as CaCo3	40mgpl	20mgpl	50mgpl	75mgpl
10	Chlorides Cl-	70mgpl	50mgpl	145mgpl	65mgpl
11	Flouride	0.5 mgpl	0.5mgpl	0.5 mgpl	0.4mgpl
12	Sulphates	27mgpl	25mgpl	22mgpl	28mgpl
13	Nitrates	0.5mgpl	17.0mgpl	1.5mgpl	2.5 mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.04mgpl	0.09mgpl	0.05mgpl	0.06mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from groundlevel inmtrs	1.95	-	-	1.92

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TEST REPORT

Test Report No.TLC/V/Env/TSPL/10/1217

dt06.01.2018

Description of Test:

Phisico-chemical Analysis of Water

Name of the client:

Trimex Sands Pvt. Ltd.

Location of sampling:

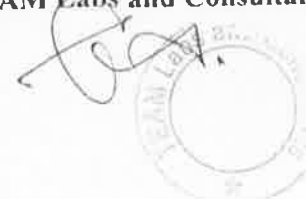
Water samples as per Details given

Date of Sample Collected :

26.12.2017

No	Parameter	Komara vanipeta O. W.water	Bandaruvani peta O. W.water	Chinatonangi open well water	Batchuvanipeta open well water
1	pH	8.25	7.20	7.7	7.45
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	1010mgpl	1050mgpl	450mgpl	1955mgpl
5	Total Suspended Solids	6mgpl	5mgpl	5mgpl	6mgpl
6	Turbidity	5.2NTU	3.0NTU	1.8NTU	5.5 NTU
7	Total Hardness as CaCo3	380mgpl	310mgpl	140mgpl	610mgpl
8	Calcium as CaCo3	290mgpl	190mgpl	90mgpl	390mgpl
9	Magnesium as CaCo3	90mgpl	120 mgpl	50mgpl	220mgpl
10	Chlorides Cl-	230mgpl	260mgpl	110mgpl	680mgpl
11	Flouride	0.5mgpl	0.5mgpl	0.4mgpl	0.6mgpl
12	Sulphates	75mgpl	90mgpl	32mgpl	195mgpl
13	Nitrates	55.2 mgpl	12.0 mgpl	5.5 mgpl	16.0 mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.09mgpl	0.05gpl	0.06mgpl	0.08mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	3.05	2.40	1.32	1.72

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TEST REPORT

Test Report No. TLC/V/Env/TSPL/8/1117

dt06.12 .2017

Description of Test: Phisico-chemical Analysis of Water

Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: Water samples as per Details given

Date of Sample Collected : 14.11.2017

No	Parameter	Mogadalapadu Open Well water	Parlavanipeta Open Well water	Pedda vatsavalasa Open Well water	Yerraguddi Open Well water	Pedda Tonangi Open Well water
1	pH	7.9 0	7.75	8.10	7.9	7.50
2	Colour Hazen units	5	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	880mgpl	1180 mgpl	1240mgpl	760mgpl	880 mgpl
5	Total Suspended Solids	8mgpl	7mgpl	6mgpl	8mgpl	9mgpl
6	Turbidity	4.0NTU	3.3 NTU	3.5NTU	3.5NTU	5.6 NTU
7	Total Hardness as CaCo3	440mgpl	180mgpl	560mgpl	140mgpl	170mgpl
8	Calcium as CaCo3	320mgpl	105mgpl	410mgpl	90mgpl	110mgpl
9	Magnesium as CaCo3	120mgpl	75mgpl	150 mgpl	50mgpl	60 mgpl
10	Chlorides Cl-	160mgpl	250mgpl	435mgpl	115mgpl	190mgpl
11	Flouride	0.6mgpl	0.5mgpl	0.5mgpl	0.4mgpl	0.5mgpl
12	Sulphates	130mgpl	170mgpl	140mgpl	110mgpl	105mgpl
13	Nitrates	65.8 mgpl	48.0 mgpl	25.0 mgpl	6.0 mgpl	20.5 mgpl
14	Phosphates	BDL	BDL	BDL	BDL	BDL
15	Iron	0.06mgpl	0.08mgpl	0.06mgpl	0.04mgpl	0.04mgpl
16	Lead	BDL	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	3.35	2.75	2.14	4.58	1.7

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TEST REPORT

Test Report No. TLC/V/Env/TSPL/9/1117 dt06.12 .2017
Description of Test: Phisico-chemical Analysis of Water
Name of the client: Trimex Sands Pvt. Ltd.
Location of sampling: Water samples as per Details given
Date of Sample Collected : 14.11.2017

No	parameter	PCP open well	Tails water	Pond at Vatchavalasa	MSP Open well
1	pH	7.8	8.15	7.95	7.80
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	280mgpl	255mgpl	530 mgpl	370mgpl
5	Total Suspended Solids	5	18mgpl	5	5mgpl
6	Turbidity	1.8NTU	9.8NTU	2.8NTU	2.1NTU
7	Total Hardness as CaCo3	120mgpl	60mgpl	110mgpl	260mgpl
8	Calcium as CaCo3	80mgpl	40mgpl	70mgpl	165mgpl
9	Magnesium as CaCo3	40mgpl	20mgpl	40mgpl	95mgpl
10	Chlorides Cl-	80mgpl	60mgpl	120mgpl	115mgpl
11	Flouride	0.5 mgpl	0.5mgpl	0.5 mgpl	0.4mgpl
12	Sulphates	25mgpl	45mgpl	40mgpl	65mgpl
13	Nitrates	0.5mgpl	0.5mgpl	1.0mgpl	0.5 mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.04mgpl	0.06mgpl	0.03mgpl	0.03mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from groundlevel inmtrs	1.05	-	-	1.87

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TEST REPORT

Test Report No. TLC/V/Env/TSPL/10/1117

dt06.12.2017

Description of Test: Phisico-chemical Analysis of Water

Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: Water samples as per Details given

Date of Sample Collected : 14.11.2017

No	Parameter	Komara vanipeta O. W. water	Bandaruvani peta O. W. water	Chinatonangi open well water	Batchuvanipeta open well water
1	pH	7.80	7.50	7.7	7.60
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	1120mgpl	1320mgpl	510mgpl	2880mgpl
5	Total Suspended Solids	5mgpl	5mgpl	5mgpl	5mgpl
6	Turbidity	5.9 NTU	5.0NTU	2.0NTU	6.0 NTU
7	Total Hardness as CaCo3	430mgpl	410mgpl	170mgpl	690mgpl
8	Calcium as CaCo3	310mgpl	280mgpl	110mgpl	410mgpl
9	Magnesium as CaCo3	120mgpl	130 mgpl	60mgpl	280mgpl
10	Chlorides Cl-	220mgpl	310mgpl	130mgpl	925mgpl
11	Flouride	0.5mgpl	0.5mgpl	0.4mgpl	0.6mgpl
12	Sulphates	170mgpl	330mgpl	72mgpl	290mgpl
13	Nitrates	22.0 mgpl	17.0 mgpl	16.0 mgpl	18.0 mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.05mgpl	0.04gpl	0.05mgpl	0.07mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	2.70	2.28	1.27	1.70

For TEAM Labs and Consultants



Registered Office :

B-115, 116, 117 & 509, Annapurna Block, Aditya Enclave, Ameerpet, Hyderabad - 530038.

Ph. : (O) 040-23748555 / 23748616, Fax : 040-23748666, Email : teamlabs@gmail.com

ISO 9001 : 2008, ISO 14001 : 2004 and OHSAS 18001 : 2007 Certified Organization
Laboratory Recognised by Ministry Environment, Forests and Climate Change, Gol, New Delhi**TEST REPORT**

Test Report No. TLC/V/Env/TSPL/8/1017 dt04.11.2017

Description of Test: Phisico-chemical Analysis of Water

Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: Water samples as per Details given

Date of Sample Collected : 18.10.2017

No	Parameter	Mogadalapadu Open Well water	Parlavanipeta Open Well water	Pedda vatsavalasa Open Well water	Yerraguddi Open Well water	Pedda Tonangi Open Well water
1	pH	7.70	8.20	8.25	7.8	7.50
2	Colour Hazen units	5	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	850mgpl	1250 mgpl	1340mgpl	750mgpl	880 mgpl
5	Total Suspended Solids	8mgpl	7mgpl	6mgpl	8mgpl	9mgpl
6	Turbidity	4.9NTU	4.0 NTU	4.5NTU	3.9NTU	5.6 NTU
7	Total Hardness as CaCo3	440mgpl	180mgpl	580mgpl	135mgpl	170mgpl
8	Calcium as CaCo3	320mgpl	105mgpl	410mgpl	90mgpl	110mgpl
9	Magnesium as CaCo3	120mgpl	75mgpl	170 mgpl	45mgpl	60 mgpl
10	Chlorides Cl-	170mgpl	270mgpl	460mgpl	105mgpl	190mgpl
11	Flouride	0.6mgpl	0.5mgpl	0.5mgpl	0.4mgpl	0.5mgpl
12	Sulphates	120mgpl	165mgpl	170mgpl	120mgpl	105mgpl
13	Nitrates	73.5 mgpl	57.0 mgpl	33.0 mgpl	7.0 mgpl	20.5 mgpl
14	Phosphates	BDL	BDL	BDL	BDL	BDL
15	Iron	0.06mgpl	0.08mgpl	0.06mgpl	0.04mgpl	0.04mgpl
16	Lead	BDL	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	3.40	2.8	2.8	6.74	1.7

For TEAM Labs and Consultants



Registered Office :

B-115, 116, 117 & 509, Annapoorna Block, Aditya Enclave, Ameerpet, Hyderabad - 530038.

Ph. : (O) 040-23748555 / 23748616, Fax : 040-23748666, Email : teamlabs@gmail.com

ISO 9001 : 2008, ISO 14001 : 2004 and OHSAS 18001 : 2007 Certified Organization

Laboratory Recognised by Ministry Environment, Forests and Climate Change, Gol, New Delhi

TEST REPORT

Test Report No. TLC/V/Env/TSPL/9/1017

dt04.11.2017

Description of Test:

Phisico-chemical Analysis of Water

Name of the client:

Trimex Sands Pvt. Ltd.

Location of sampling:

Water samples as per Details given

Date of Sample Collected :

18.10.2017

No	parameter	PCP open well	Tails water	Pond at Vatchavalasa	MSP Open well
1	pH	7.5	8.30	8.05	7.80
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	270mgpl	220mgpl	380 mgpl	380mgpl
5	Total Suspended Solids	5	15mgpl	5	5mgpl
6	Turbidity	1.5NTU	9.2NTU	2.4NTU	2.2NTU
7	Total Hardness as CaCo3	120mgpl	60mgpl	110mgpl	260mgpl
8	Calcium as CaCo3	80mgpl	40mgpl	70mgpl	165mgpl
9	Magnesium as CaCo3	40mgpl	20mgpl	40mgpl	95mgpl
10	Chlorides Cl-	70mgpl	65mgpl	130mgpl	105mgpl
11	Flouride	0.5 mgpl	0.5mgpl	0.5 mgpl	0.4mgpl
12	Sulphates	28mgpl	40mgpl	35mgpl	60mgpl
13	Nitrates	0.5mgpl	0.5mgpl	1.0mgpl	0.5 mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.04mgpl	0.06mgpl	0.03mgpl	0.03mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from groundlevel inmtrs	1.13	-	-	1.90

For TEAM Labs and Consultants

Registered Office :

B-115, 116, 117 & 509, Annapoorna Block, Aditya Enclave, Ameerpet, Hyderabad - 530038.

Ph. : (O) 040-23748555 / 23748616, Fax : 040-23748666, Email : teamlabs@gmail.com

ISO 9001 : 2008, ISO 14001 : 2004 and OHSAS 18001 : 2007 Certified Organization
Laboratory Recognised by Ministry Environment, Forests and Climate Change, Gol, New Delhi**TEST REPORT**

Test Report No. TLC/V/Env/TSPL/10/1017

dt04.11.2017

Description of Test:

Phisico-chemical Analysis of Water

Name of the client:

Trimex Sands Pvt. Ltd.

Location of sampling:

Water samples as per Details given

Date of Sample Collected :

18.10.2017

No	Parameter	Komara vanipeta O. W. water	Bandaruvani peta O. W. water	Chinatonangi open well water	Batchuvanipeta open well water
1	pH	8.10	7.50	7.30	7.25
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	1050mgpl	1410mgpl	520mgpl	2810mgpl
5	Total Suspended Solids	5mgpl	5mgpl	5mgpl	5mgpl
6	Turbidity	5.5 NTU	4.0NTU	3.0NTU	6.6 NTU
7	Total Hardness as CaCo3	440mgpl	420mgpl	170mgpl	680mgpl
8	Calcium as CaCo3	310mgpl	280mgpl	110mgpl	410mgpl
9	Magnesium as CaCo3	130mgpl	140 mgpl	60mgpl	270mgpl
10	Chlorides Cl-	235mgpl	335mgpl	140mgpl	915mgpl
11	Flouride	0.5mgpl	0.5mgpl	0.4mgpl	0.6mgpl
12	Sulphates	1800mgpl	350mgpl	80mgpl	295mgpl
13	Nitrates	19.0 mgpl	19.0 mgpl	19.0 mgpl	16.0 mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.05mgpl	0.04gpl	0.05mgpl	0.07mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	2.90	2.33	1.30	1.68

For TEAM Labs and Consultants



Plantation Details

YEAR	TYPE OF SPECIES	No of Plants	
		Plan	Actual
Afforestation in Refilled areas:			
2017-2018	Eucalyptus, Casuarina, Acacia, Cashew	73610	124942
Green Belt :			
2017-2018	Casuarina, Acacia, Eucalyptus	10178	12003

Afforestation in Back filled Areas



TSPL/ENV/MOEF/2018-19/1170  O/c.

Srikakulam,
30-04-2018.

To
The Regional Office (South Eastern Zone)
Ministry of Environment, Forests and Climate Change
1st & 2nd floor, HEPC building, No.34
Cathedral Garden Road, Nungambakkam
Chennai - 6000347

Dear Sir,

Sub: Observation wells water quality data report – Submission - Reg.

Ref: Environmental Clearance vide No.J-11015/175/2011-IA.II (M)
dated 17-04-2015 & CRZ Clearance vide F.No.11-67/2013-IA-III dated 28-
04-2015.

As per the reference cited above, please find herewith enclosed quarterly report of
observation wells & Piezometer monitoring for the period of Jan to Mar, 2018.

Thanking You,

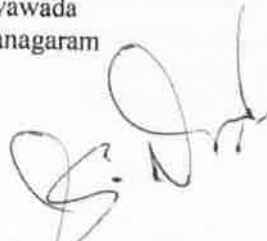
Yours faithfully,



Sr. Vice President (Mines)

CC:

Regional Director, CGWB, Hyderabad-500068
Central Pollution Control Board, Bengalure
AP Pollution Control Board, Vijayawada
AP Pollution Control Board, Vizianagaram





Olc.

TSPL/ENV/MOEF/2017-18/1104

Srikakulam,
29-01-2018.

To
The Regional Office (South Eastern Zone)
Ministry of Environment, Forests and Climate Change
1st & 2nd floor, HEPC building, No.34
Cathedral Garden Road, Nungambakkam
Chennai - 6000347

Dear Sir,

Sub: Observation wells water quality data report – Submission - Reg.

Ref: Environmental Clearance vide No.J-11015/175/2011-IA.II (M)
dated 17-04-2015 & CRZ Clearance vide F.No.11-67/2013-IA-III dated 28-
04-2015.

As per the reference cited above, please find herewith enclosed quarterly report of
observation wells & Piezometer monitoring for the period of Oct to Dec, 2017.

Thanking You,

Yours faithfully,

Sr. Vice President (Mines)

CC:

Regional Director, CGWB, Hyderabad-500068
Central Pollution Control Board, Bangalore
AP Pollution Control Board, Vijayawada
AP Pollution Control Board, Vizianagaram

Trimex Sands Pvt Ltd: Vatchavalasa (V), Gara Mandal, Srikakulam District - 532 404, Andhra Pradesh, India.
Tel: +91 8942 283755, Fax: +91 8942 283758, E-mail: info@trimexsands.com, URL:www.trimexsands.com

CIN : U14299TN2004PTC071437



O/c

TSPL/ENV/MOEF/2018-19/ 1171

Srikakulam,
30-04-2018.

To
The Regional Office (South Eastern Zone)
Ministry of Environment, Forests and Climate Change
1st & 2nd floor, HEPC building, No.34
Cathedral Garden Road, Nungambakkam
Chennai – 600034.

Dear Sir,

Sub: Soil analysis report – Submission - Reg.

Ref: CRZ Clearance vide F.No.11-67/2013-IA-III dated 28-04-2015.

As per the reference cited above, please find herewith enclosed Soil analysis report for the period of Jan to Mar, 2018.

Thanking You,

Yours Faithfully,

A handwritten signature in black ink, consisting of several overlapping loops and lines.

Sr. Vice President (Mines)

CC:

AP Pollution Control Board, Vijayawada
AP Pollution Control Board, Vizianagaram

A handwritten signature in black ink, similar in style to the one above, with overlapping loops.

Trimex Sands Pvt.Ltd

Village: Tonangi

Soil analysis consolidated data

S.No	Parameter	Before mining								Back filled area							
		159	158	148	161	144	179	159	158	148	161	144	179				
1	Survey No.	159	158	148	161	144	179	159	158	148	161	144	179				
2	Soil type	sandy lome	sandy lome	sandy lome	sandy lome	sandy lome	sandy lome	sandy lome	sandy lome	sandy lome	sandy lome	sandy lome	sandy lome				
3	PH	8.12	7.75	7.05	6.72	7.83	6.80	8.14	8.26	7.70	7.17	7.82	7.61				
4	E.C	0.04	0.03	0.02	0.04	0.03	0.03	0.10	0.05	0.04	0.04	0.05	0.03				
5	Organic carbon	0.23	0.19	0.32	0.30	0.45	0.16	0.18	0.16	0.27	0.46	0.28	0.23				
6	Available Nitrogen	75	63	88	50	63	88	63	50	50	63	38	75				
7	Available phosphorous	8	16	8	8	11	16	16	9	19	9	16	12				
8	Available potassium	98	92	92	19	92	92	92	92	98	85	98	98				

సమూహ సం. 0365

రైతు పేరు శ్రీ Trimex 2 Bm గ్రామం _____

సర్వే సం. _____ మండలం Gvra జిల్లా: కృతాకుళం

నేల స్వభావం	(9)	1 శేలిక నేలలు/మధ్యరకం నేలలు/బరుపు నేలలు
ఉదజని సూచక	(7.75)	అమ్మం/కటస్థం/జ్వారం (అల్ల/మధ్యస్థం/అధిక)
అమల సాంద్రత మిమోసింట్	(0.03)	సామాన్యం/ములకెక్కుట కష్టం/పంటకు హాని
సంద్రీయ కర్షణం	(0.19)	కక్కువ /మధ్యస్థం / ఎక్కువ
లభ్య సక్రమణ	(63)	కక్కువ /మధ్యస్థం / ఎక్కువ
లభ్య భాస్వరం కి.గ్రా/ఎ	(16)	కక్కువ /మధ్యస్థం / ఎక్కువ
లభ్య పొటాష్ కి.గ్రా/ఎ	(92)	కక్కువ /మధ్యస్థం / ఎక్కువ

నీటి వివరం : నీటి వివరాల క్రింద వర్షాధారం సూతుల క్రింద

భూమి వివరం : వల్లం మెట్టు ఆరుదక్క

పైరు : _____

ఇటిఫ్/రజిల్ సిఫారసు చేయబడిన ఎరువుల మోతాదు కి.గ్రా/ఎకరాకు

సక్రమణ	()	యూరియా	()
భాస్వరం	()	యన్.యన్.పి. / డి.పి.పి	()
పొటాష్	()	ముర్రేట్ ఆఫ్ పొటాష్	()
గెజ్జం	()	టన్నులు/బండ్లు/ఎకరాకు	()

ప్రత్యేక సలహాలు :

1. ఎకరానికి 200 కేజీల జిప్సం పొడిని రెండవసారి కలుపుతీయు సమయంలో మొక్కకు 5 సెం.మీటర్ల దూరంలో వేసి, మట్టిని మొదలకు ఎగదోయాలి.
 2. వట్టెరాట్టె ఎరువులైన పిల్లిపెసర, గైలసిడియా, జీలుగు, కట్టిజనుము మొ.వాటి భూమిలో వేసి, పూజ సమయంలో కలియదున్నాలి.
 3. జీవన ఎరువులను వాడాలి.
 4. సద్దవు నీటిని పెట్టి దమ్ముచేసి, తేరుకున్న మురుగునీటిని ఈట కాలువల ద్వారా యింకని నీటిని బయటికి పంపాలి.
 5. నేల స్వభావం జ్వారం అయినందున చాడు కట్టించేందుకు ఎకరాకు 0.008/ఎకరా అమ్మం జిప్సంను పొడిచేసి పొలంలో వేసి బాగా దుక్కి చేయాలి. తరువాత మడులు కట్టి సద్దవు నీటిని పెట్టి యింకనట్లు చేయాలి. 24 గం.ల తరువాత ఇంకని నీటిని ఈట కాలువల ద్వారా బయటికి పంపాలి.
 6. బంకులోపం ఉన్నచోట ఎకరాకు 20 కిలోలు బంకు సల్ఫేటును దుక్కిలోవేసి కలియదున్నాలి.
 7. నేల స్వభావం అమ్మం అయినందున దాని నివారణకు ఎకరాకు _____ కిలోల సున్నంను పొడిచేసి నేలపై జల్లి బాగా కలియదున్నాలి.
 8. ఇతర వివరాలు దగ్గరలో ఉన్న వ్యవసాయాధికారివారిని సంప్రదించండి.
- సూచన : తదుపరి భూసార పరీక్షలు చేయించుకోవలసిన సమయము _____
(మూడు పంట కాలములకు ఒకసారి)

[Signature]
వ్యవసాయ సహాయ సంచాలకులు,
భూసార పరీక్షా కేంద్రం, ఆమదాలవలస

సమూహ నెం. 0367
 గ్రేడు పేరు శ్రీ Trimex 3 Bm గ్రామం.....
 సర్వే నెం. మండలం Gura జిల్లా: శ్రీకాకుళం
 నేల స్వభావం (SL) తేలిక నేలలు/మధ్యరకం నేలలు/బరుపు నేలలు
 ఉదజని సూచక (7.05) ఆమ్లం/తటస్థం/క్షారం (అల్ప/మధ్యస్థం/అధిక)
 అయా సాంప్రక టి.గ్రా/సం. (0.04) సామూహ్యం/మొలకెక్కుట కస్టం/పంటకు వశం
 సంద్రీయ కర్బనం (0.02) తక్కువ /మధ్యస్థం / ఎక్కువ
 లభ్య గ్రాహణ (88) తక్కువ /మధ్యస్థం / ఎక్కువ
 లభ్య భాస్వరం శ్రీ.గ్రా/సం (8) తక్కువ /మధ్యస్థం / ఎక్కువ
 లభ్య పొటాష్ శ్రీ.గ్రా/సం (92) తక్కువ /మధ్యస్థం / ఎక్కువ
 నీటి వివరం : నీటి వనరుల క్రింద వర్షాధారం సూకుల క్రింద
 భూమి వివరం : పల్లం మెట్టు ఆరుదక్క
 పైరు :

ఖరీఫ్/రబీలో నిఫారను చేయబడిన ఎరువుల మోతాదు శ్రీ.గ్రా/ఎకరాకు

నత్రజని ()	యూరియా - - - ()
భాస్వరం ()	యస్.యస్.పి. / డి.పి.పి - ()
పొటాష్ ()	మ్యూరేట్ ఆఫ్ పొటాష్ ()
గెజ్జం ()	టన్నులు/బండ్లు/ఎకరాకు ()

ప్రత్యేక సలహాలు :

1. ఎకరానికి 200 కేజీల జిప్సం పొడిని రెండవసారి కలుపుతీయూ సమయంలో మొక్కకు 5 సెం.మీటర్ల దూరంలో వేసి, మట్టిని మొదలకు ఎగడోయాలి.
2. పచ్చిరాట్ల ఎరువులైన పిల్లపెసర, గైలసిడియా, జీలుగు, కట్టిణనుము మొ.వాటి భూమిలో వేసి, పూత సమయంలో కలియదున్నాలి.
3. జీవన ఎరువులను వాడాలి.
4. సేద్యపు నీటిని పెట్టి దమ్ము చేసి, తేరుకున్న మురుగునీటిని ఈట కాలువల ద్వారా యింకని నీటిని బయటికి పంపాలి.
5. నేల స్వభావం క్షారం అయినందున చౌడు తగ్గించేందుకు ఎకరాకు.....టన్నుల జిప్సంను పొడిచేసి పొలంలో వేసి బాగా దుక్కి చేయాలి. తరువాత మడులు కట్టి సేద్యపు నీటినిపెట్టి యింకనుట్లు చేయాలి. 24 గం.ల తరువాత ఇంకని నీటిని ఈట కాలువల ద్వారా బయటికి పంపాలి.
6. జంతులోపం ఉన్నచోట ఎకరాకు 20 లీటర్లు జంతు సళ్ళేటును దుక్కిలోవేసి కలియదున్నాలి.
7. నేల స్వభావం ఆమ్లత్వం అయినందున దాని నివారణకు ఎకరాకు.....కీలోల సుగ్గంను పొడిచేసి నేలపై జల్లి బాగా కలియదున్నాలి.
8. ఇతర వివరాల దగ్గరలో ఉన్న వ్యవసాయాధికారివారిని సంప్రదించండి.
 సూచన : తదుపరి భూసార పరీక్షలు చేయించుకోవలసిన సమయము.....
 (మూడు పంట కాలములకు ఒకసారి)

Hyderabad
 వ్యవసాయ సహాయ సంచాలకులు,
 భూసార పరీక్షా కేంద్రం, అమదాలవలస

సమూహ నెం. 0.366
రైతు పేరు Trimex 3Am గ్రామం _____
సర్వే నెం. _____ మండలం Gara జిల్లా: శ్రీకాకుళం
నేల స్వభావం (SL) శ్రీక నేలలు/మధ్యరకం నేలలు/బరువు నేలలు
ఉదజన సూచక (7701) అమ్మం/కటన్/జ్వారం (అల్ల/మధ్యస్థం/అధిక)
లూరి సాంప్రదక మిమోసం (0.04) సామాన్యం/ములకెక్కట కష్టం/పంటకు హాని
సంక్రియ కర్షణం (0.27) కక్కవ /మధ్యస్థం / ఎక్కవ
లభ్య సక్రమం (50) కక్కవ /మధ్యస్థం / ఎక్కవ
లభ్య భాస్వరం కి.గ్రా/మీ (19) కక్కవ /మధ్యస్థం / ఎక్కవ
లభ్య పొటాష్ కి.గ్రా/మీ (98) కక్కవ /మధ్యస్థం / ఎక్కవ
నీటి వివరం : నీటి వనరుల క్రింద వర్షాధారం నూతుల క్రింద
భూమి వివరం : పల్లం మెట్టు ఆరుదళ్ళు
పైరు _____

ఇటిఫ్/రజల్లో నిఫారను చేయబడిన ఎరువుల మోతాదు కి.గ్రా/ఎకరాకు
సక్రమం () యూలయా --- ()
భాస్వరం () యస్.యస్.పి. / డి.పి.పి - ()
పొటాష్ () మ్యూరేట్ ఆఫ్ పొటాష్ ()
గెల్తం () టన్నులు/బండ్ర/ఎకరాకు ()

ప్రత్యేక సలహాలు :

1. ఎకరానికి 200 కేజీల జిప్సం పొడిని రెండవసారి కలుపుతీయు సమయంలో మొక్కకు 5 సెం.మీటర్ల దూరంలో వేసి, మట్టిని మొదలకు ఎగడోయాలి.
 2. పచ్చిరాట్ల ఎరువులైన పిల్లపెనర, గ్నెలసిడియా, జీలుగు, కల్లిజనుము మొ.వాటి భూమిలో వేసి, పూత సమయంలో కలియదున్నాలి.
 3. జీవన ఎరువులను వాడాలి.
 4. సేద్యపు నీటిని పెట్టి దమ్ముచేసి, తేరుకున్న మురుగునీటిని ఈట కాలువల ద్వారా యింకని నీటిని బయటికి పంపాలి.
 5. నేల స్వభావం జ్వారం అయినందున చాడు కర్షించేందుకు ఎకరాకు 2000/ఎకరా టన్నుల జిప్సంను పొడిచేసి పొలంలో వేసి బాగా దుక్కి చేయాలి. తరువాత మడులు కట్టి సేద్యపు నీటినిపెట్టి యింకునట్లు చేయాలి. 24 గం||ల తరువాత ఇంకని నీటిని ఈట కాలువల ద్వారా బయటికి పంపాలి.
 6. జంతులోపం ఉన్నచోట ఎకరాకు 20 కిలోలు జంతు సర్ఫేటును దుక్కిలోవేసి కిలియదున్నాలి.
 7. నేల స్వభావం అమ్మత్వం అయినందున దాని నివారణకు ఎకరాకు _____ కిలోల సున్నంను పొడిచేసి నేలపై జల్లి బాగా కలియదున్నాలి.
 8. ఇతర వివరాలు దగ్గరలో ఉన్న వ్యవసాయాధికారివారిని సంప్రదించండి.
- నూచన : తదుపరి భూసార పరీక్షలు చేయించుకోవలసిన సమయము _____
(మూడు పంట కాలములకు ఒకసారి)

[Signature]
వ్యవసాయ సహాయ సంచాలకులు,
భూసార పరీక్షా కేంద్రం, ఆమదాలవలస

భూసార పరీక్షా ఫలితాలు
భూసార పరీక్షా కేంద్రం, ఆమదాలవలస

No - 161

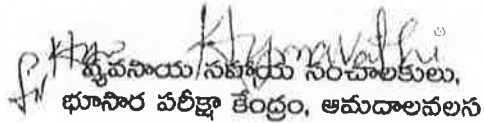
సమూహం నెం 0369
 రైతు పేరు శ్రీ Trinex 4B గ్రామం _____
 సర్వే నెం _____ మండలం G.V.R. జిల్లా : శ్రీకాకుళం
 నేల స్వభావం (5L) తేలిక నేలలు/మధ్యరకం నేలలు/బరువు నేలలు
 ఉదజని నూచక (6-72) అష్టం/కటకం/జ్వరం (అల్ప/మధ్యస్థం/అధిక)
 లహరి సాంధ్రత మిమోసంకు (0.04) సామూహ్యం/ములకెక్కుట కష్టం/పంటకు హాని
 సంద్రీయ కర్షణం (0-30) కక్కువ /మధ్యస్థం / ఎక్కువ
 లభ్య నత్రజని (50) కక్కువ /మధ్యస్థం / ఎక్కువ
 లభ్య భాస్వరం కి.గ్రా/ఎ (8) కక్కువ /మధ్యస్థం / ఎక్కువ
 లభ్య పొటాష్ కి.గ్రా/ఎ (19) కక్కువ /మధ్యస్థం / ఎక్కువ
 నీటి వివరం : నీటి వనరుల క్రింద వర్షాధారం నూతుల క్రింద
 భూమి వివరం : వల్లం మెట్టు ఆరుదక్క
 ప్రేరు _____

ఖరీఫ్/రబీలో సిఫారసు చేయబడిన ఎరువుల మోతాదు కి.గ్రా/ఎకరాకు

నత్రజని ()	యూరియా --- ()
భాస్వరం ()	యస్.యస్.పి. / డి.పి.పి - ()
పొటాష్ ()	మ్యూరేట్ ఆఫ్ పొటాష్ ()
గెడ్డం ()	టన్నులు/బండ్లు/ఎకరాకు ()

ప్రత్యేక సలహాలు :

1. ఎకరానికి 200 కేజీల అష్టం పొడిని రెండవసారి కలుపుతీయు సమయంలో మొక్కకు 5 సెం.మీటర్ల దూరంలో వేసి, మట్టిని మొదలకు ఎగదోయాలి.
 2. పండ్లొత్ప ఎరువులైన పిల్లపనర, గ్లైసిడియా, జీలుగు, కట్టిజనుము మొ.వాటి భూమిలో వేసి, పూత సమయంలో కలియదున్నాలి.
 3. జీవన ఎరువులను వాడాలి.
 4. సెడ్లపు నీటిని పెట్టి దమ్ము చేసి, తేరుకున్న మురుగునీటిని ఊట కాలువల ద్వారా యింకని నీటిని బయటికి పంపాలి.
 5. నేల స్వభావం జ్వరం అయినందున చాడు తగ్గించేందుకు ఎకరాకు _____ టన్నుల అష్టంను పొడిచేసి పొలంలో వేసి బాగా దుక్కి చేయాలి. తరువాత మడులు కట్టి సెడ్లపు నీటినిపెట్టి యింకనుట్లు చేయాలి. 24 గం.ల తరువాత ఇంకని నీటిని ఊట కాలువల ద్వారా బయటికి పంపాలి.
 6. ఇంకులోపం ఉన్నచోట ఎకరాకు 20 కిలోలు ఇంకు సల్ఫేటును దుక్కిలోవేసి కిలియదున్నాలి.
 7. నేల స్వభావం అష్టత్వం అయినందున దాని నివారణకు ఎకరాకు _____ కిలోల సున్నంను పొడిచేసి నేలపై జల్లి బాగా కలియదున్నాలి.
 8. ఇతర వివరాలు దగ్గరలో ఉన్న వ్యవసాయాధికారివారిని సంప్రదించండి.
- నూచన : తదుపరి భూసార పరీక్షలు చేయించుకోవలసిన సమయము _____
 (మూడు వంట కాలుములకు ఒకసారి)


 వ్యవసాయ/సహాయ సంచాలకులు,
 భూసార పరీక్షా కేంద్రం, ఆమదాలవలస

After Mining

భూసార పరీక్షణ ఫలితాలు
భూసార పరీక్షణ కేంద్రం, ఆమదాలవలస

Sy. No-161

నమూనా నెం. 0360
 రైతు పేరు శ్రీ Pramesh 4Aam గ్రామం
 సర్వే నెం. మండలం Garva జిల్లా: శ్రీకాకుళం
 నేల స్వభావం (SL) తేలిక నేలలు/మధ్యరకం నేలలు/బరువు నేలలు
 ఉదజన సూచక (7.17) ఆమ్లం/తటస్థం/క్షారం (అల్ప/మధ్యస్థం/అధిక)
 లవణ సాంద్రత మి.మో/సెం.మీ (0.04) సామాన్యం/ములతెక్కుట కష్టం/పంటకు హాని
 సంద్రీయ కర్ణసం (0.46) తక్కువ /మధ్యస్థం / ఎక్కువ
 లభ్య నత్రజని 8.5 (63) తక్కువ /మధ్యస్థం / ఎక్కువ
 లభ్య భాస్వరం కి.గ్రా/ఎం (9) తక్కువ /మధ్యస్థం / ఎక్కువ
 లభ్య పొటాష్ కి.గ్రా/ఎం (85) తక్కువ /మధ్యస్థం / ఎక్కువ
 నీటి వివరం : నీటి పనరుల క్రింద పర్యాధారం గూతుల క్రింద
 భూమి వివరం : పల్లం మెట్టు ఆరుదణ్ణు

పైరు :
 ఖరీఫ్/రబీలో సిఫారసు చేయబడిన ఎరువుల మోతాదు కి.గ్రా/ఎకరాకు
 నత్రజని () యూరియా - - - ()
 భాస్వరం () యస్.యస్.పి. / డి.పి.పి - ()
 పొటాష్ () మ్యూరేట్ ఆఫ్ పొటాష్ ()
 గెత్తం () టన్నులు/బండ్లు/ఎకరాకు ()

ప్రత్యేక సలహాలు :

1. ఎకరానికి 200 కేజీల జిప్సం పొడిని రెండవసారి కలుపుతీయు సమయంలో మొక్కకు 5 సెం.మీటర్ల దూరంలో వేసి, మట్టిని మొదలకు ఎగదోయాలి.
2. పొద్దురోట్లు ఎరువుల్లోని పిల్లిపనర, గైలినీడియా, జీలుగు, కట్టిజనుము మొ.వాటి భూమిలో వేసి, పూత సమయంలో కలియదున్నాలి.
3. జీవన ఎరువులను వాడాలి.
4. సేద్యపు నీటిని పెట్టి దమ్ము చేసి, తేరుకున్న మురుగునీటిని ఈట కాలువల ద్వారా యింకని నీటిని బయటికి పంపాలి.
5. నేల స్వభావం క్షారం అయినందున చాడు తగ్గించేందుకు ఎకరాకు.....టన్నుల జిప్సంను పొడిచేసి పొలంలో వేసి బాగా దుక్కి చేయాలి. తరువాత మడులు కట్టి సేద్యపు నీటినిపెట్టి యింకనుట్లు చేయాలి. 24 గం.ల తరువాత ఇంకని నీటిని ఈట కాలువల ద్వారా బయటికి పంపాలి.
6. జంతులోపం ఉన్నచోట ఎకరాకు 20 కిలోలు జంతు సల్ఫేటును దుక్కిలోవేసి కిలియదున్నాలి.
7. నేల స్వభావం ఆమ్లత్వం అయినందున దాని నివారణకు ఎకరాకు.....కిలోల సున్నంను పొడిచేసి నేలపై జల్లి బాగా కలియదున్నాలి.
8. ఇతర వివరాలు దగ్గరలో ఉన్న వ్యవసాయాధికారివారిని సంప్రదించండి.

సూచన : తదుపరి భూసార పరీక్షణ చేయించుకోవలసిన సమయము
 (మూడు పంట కాలములకు ఒకసారి)

(Signature)
 వ్యవసాయ సహాయ నిపుణులు,
 భూసార పరీక్షణ కేంద్రం, ఆమదాలవలస

భూసార పరీక్షా కేంద్రం, ఆమదాలవలస

సమూహ నెం. 0370
 రైతు పేరు శ్రీ Traxmex 5B గ్రామం.....
 సర్వే నెం..... మండలం Gara జిల్లా : శ్రీకాకుళం
 నేల స్వభావం (SL) తేలిక నేలలు/మధ్యరకం నేలలు/బరువు నేలలు
 ఉదజని సూచక (7.83) ఆమ్ల/తటస్థం/క్షారం (అల్క/మధ్యస్థం/అధిక)
 అమా సాంద్రత మి.మో.సె.మీ (0.03) సామాన్యం/మొలకెత్తుట కష్టం/పంటకు హాని
 సంద్రీయ కర్షణం (0.45) తక్కువ /మధ్యస్థం / ఎక్కువ
 లభ్య నత్రజని (63) తక్కువ /మధ్యస్థం / ఎక్కువ
 లభ్య భాస్వరం కి.గ్రా/ఎం (11) తక్కువ /మధ్యస్థం / ఎక్కువ
 లభ్య పొటాష్ కి.గ్రా/ఎం (92) తక్కువ /మధ్యస్థం / ఎక్కువ
 నీటి వివరం : నీటి వనరుల క్రింద వర్షాధారం నూతుల క్రింద
 భూమి వివరం : పల్లం మెట్టు ఆరుదక్క
 పైరు : /

ఖరీద్/రబల్లో సిఫారసు చేయబడిన ఎరువుల మోతాదు కి.గ్రా/ఎకరాకు

నత్రజని ()	యూరియా - - -	()
భాస్వరం ()	యస్.యస్.పి. / డి.పి.పి -	()
పొటాష్ ()	ముల్సేట్ ఆఫ్ పొటాష్	()
గెడ్డం ()	టన్నులు/బండ్లు/ఎకరాకు	()

ప్రత్యేక సలహాలు :

1. ఎకరానికి 200 కేజీల జిప్సం పొడిని రెండవసారి కలుపుతీయు సమయంలో మొక్కకు 5 సెం.మీటర్ల దూరంలో వేసి, మట్టిని మొదలకు ఎగవోయాలి.
 2. పచ్చిపొట్ల ఎరువులైన పిల్లిపనర, రైలసిడియా, జీలుగు, కట్టిజనుము మొ.వాటి భూమిలో వేసి, పూత సమయంలో కలియదున్నాలి.
 3. జీవన ఎరువులను వాడాలి.
 4. సేద్యపు నీటిని పెట్టి దమ్ముచేసి, తేరుకున్న మురుగునీటిని ఉంట కాలువల ద్వారా యింకని నీటిని బయటికి పంపాలి.
 5. నేల స్వభావం క్షారం అయినందున చాడు తగ్గించేందుకు ఎకరాకు 200 కి.గ్రా/ఎం జిప్సంను పొడిచేసి పొలంలో వేసి బాగా దుక్కి చేయాలి. తరువాత మడులు కట్టి సేద్యపు నీటినిపెట్టి యింకనుట్లు చేయాలి. 24 గం.ల తరువాత ఇంకని నీటిని ఉంట కాలువల ద్వారా బయటికి పంపాలి.
 6. జంతులోపం ఉన్నచోట ఎకరాకు 20 కిలోలు జంతు సప్లేటును దుక్కిలోవేసి కిలియదున్నాలి.
 7. నేల స్వభావం ఆమ్లత్వం అయినందున దాని నివారణకు ఎకరాకు.....కిలోల సున్నంను పొడిచేసి నేలపై జల్లి బాగా కలియదున్నాలి.
 8. ఇతర వివరాలు దగ్గరలో ఉన్న వ్యవసాయాధికారివారిని సంప్రదించండి.
- సూచన : తదుపరి భూసార పరీక్షలు చేయించుకోవలసిన సమయము.....
 (మూడు పంట కాలుములకు ఒకసారి)

[Signature]
 వ్యవసాయ నిపుణుల సంఘాలకులు,
 భూసార పరీక్షా కేంద్రం, ఆమదాలవలస

భూసార పరీక్షా ఫలితాలు
భూసార పరీక్షా కేంద్రం, ఆమదాలవలస

సమూహ సం. 0369 0370
 రైతు పేరు శ్రీ Thirumala Sora గ్రామం.....
 సర్వే సం. మండలం 6140 జిల్లా: శ్రీకాకుళం
 నేల స్వభావం (SL) తేలిక నేలలు/మధ్యరకం నేలలు/బరువు నేలలు
 ఉదజని సూచక (7.82) ఆమ్లం/కటన్ఫం/జ్వారం (ఆల్క/మధ్యస్థం/లభక)
 లహా సాంద్రత మిమోగ్రామ్ (0.05) వానాస్యం/ములకెక్కుట కష్టం/పంటకు హాని
 సంద్రీయ కర్మణం (0.28) తక్కువ /మధ్యస్థం / ఎక్కువ
 లభ్య నుత్తజని (3.8) తక్కువ /మధ్యస్థం / ఎక్కువ
 లభ్య భాస్వరం కి.గ్రా/ఎం (16) తక్కువ /మధ్యస్థం / ఎక్కువ
 లభ్య పొటాష్ కి.గ్రా/ఎం (98) తక్కువ /మధ్యస్థం / ఎక్కువ
 నీటి వివరం : నీటి వనరుల క్రింద పర్యాధారం నూకుల క్రింద
 భూమి వివరం : పల్లం మెట్టు ఆరుదళ్ళు
 పైరు :

ఖరీఫ్/రబీలో నిఫారను చేయబడిన ఎరువుల మోతాదు కి.గ్రా/ఎకరాకు
 నుత్తజని () యూరియా --- ()
 భాస్వరం () యస్.యస్.పి. / డి.పి.పి - ()
 పొటాష్ () మ్యూరేట్ ఆఫ్ పొటాష్ ()
 గెడ్డం () టన్నులు/బండ్లు/ఎకరాకు ()

ప్రత్యేక సలహాలు :

1. ఎకరానికి 200 కేజీల జస్టం పొడిని రెండవసారి కలుపుతీయు సమయంలో మొక్కకు 5 సెం.మీటర్ల దూరంలో వేసి, మట్టిని మొదలకు ఎగదోయాలి.
 2. పచ్చిరాట్ల ఎరువులైన పిల్లపెసర, గైలసిడియా, జీలుగు, కవ్విజనుము మొ.వాటి భూమిలో వేసి, పూత సమయంలో కలియదున్నాలి.
 3. జీవన ఎరువులను వాడాలి.
 4. సేద్యపు నీటిని పెట్టి దమ్ముచేసి, తేరుకున్న మురుగునీటిని ఈట కాలువల ద్వారా యింకని నీటిని బయటికి పంపాలి.
 5. నేల స్వభావం జ్వారం అయినందున చాడు తగ్గించేందుకు ఎకరాకు 4008/ఎం టన్నుల జస్టంను పొడిచేసి పొలంలో వేసి దాగా దుక్కి చేయాలి. తరువాత మడులు కట్టి సేద్యపు నీటినిపెట్టి యింకునట్లు చేయాలి. 24 గం.ల తరువాత ఇంకని నీటిని ఈట కాలువల ద్వారా బయటికి పంపాలి.
 6. బంకులోపం ఉన్నచోట ఎకరాకు 20 కిలోలు బంకు సర్వేటును దుక్కిలోవేసి కిలియదున్నాలి.
 7. నేల స్వభావం ఆమ్లత్వం అయినందున దాని నివారణకు ఎకరాకు.....కిలోల సున్నంను పొడిచేసి నేలపై జల్లి బాగా కలియదున్నాలి.
 8. ఇతర వివరాల దగ్గరలో ఉన్న వ్యవసాయాధికారిని సంప్రదించండి.
- సూచన : తదుపరి భూసార పరీక్షలు చేయించుకోవలసిన సమయము.....
 (మూడు పంట కాలువలకు ఒకసారి)

(Signature)
 వ్యవసాయ సహాయ సంఘాలకులు,
 భూసార పరీక్షా కేంద్రం, ఆమదాలవలస

భూసార పరీక్షణ ఫలితాలు
 భూసార పరీక్షణ కేంద్రం, అమదాలవలస

Sg 16-179

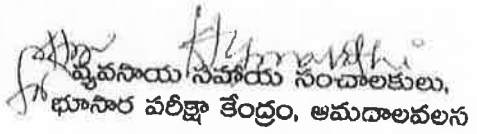
సమూహ నెం. 039
 రైతు పేరు శ్రీ Prinex GRM గ్రామం _____
 నచ్చే నెం. _____ మండలం Prinex జిల్లా : శ్రీకాకుళం
 నేల స్వభావం (SL) కేలిక నేలలు/మధ్యరకం నేలలు/బరుపు నేలలు
 ఉదజని సూచక (6-8) ఆమ్లం/తటస్థం/క్షారం (అల్ప/మధ్యస్థం/అధిక)
 అవసానిక మిమోగుండు (0.03) సామాన్యం/మొలకెత్తుట కష్టం/పంటకు హాని
 సంద్రీయ కర్మాణం (0.16) కక్కువ /మధ్యస్థం / ఎక్కువ
 లభ్య నక్షత్రం (87) కక్కువ /మధ్యస్థం / ఎక్కువ
 లభ్య భాస్వరం కి.గ్రా/ఎం (96) కక్కువ /మధ్యస్థం / ఎక్కువ
 లభ్య పొటాష్ కి.గ్రా/ఎం (92) కక్కువ /మధ్యస్థం / ఎక్కువ
 నీటి వివరం : నీటి పనరుల క్రింద వర్షాధారం గూతుల క్రింద
 భూమి వివరం : వల్లం మెట్టు ఆరుదక్క
 పైరు :

ఖరీఫ్/రబీలో సిఫారసు చేయబడిన ఎరువుల మోతాదు కి.గ్రా/ఎకరాకు

నక్షత్రం () యూరియా ---	()
భాస్వరం () యస్.యస్.పి. / డి.పి.పి -	()
పొటాష్ () మ్యూరేట్ ఆఫ్ పొటాష్	()
గెడ్డం () టింగ్గులు/బండ్రు/ఎకరాకు	()

ప్రత్యేక సలహాలు :

1. ఎకరానికి 200 కేజీల జిప్సం పొడిని రెండవసారి కలుపుతీయి సమయంలో మొక్కకు 5 సెం.మీటర్ల దూరంలో వేసి, మట్టిని మొదలకు ఎగదోయాలి.
 2. పచ్చరాట్ట ఎరువుల్నిగి విల్లిపెనర, గైలసిడియా, జీలుగు, కల్లిజనుము మొ.వాటి భూమిలో వేసి, పూత సమయంలో కలియదున్నాలి.
 3. జీవన ఎరువులను వాడాలి.
 4. సేద్యపు నీటిని పెట్టి దమ్ము చేసి, తేరుకున్న మురుగునీటిని ఉంట కాలువల ద్వారా యింకని నీటిని బయటికి పంపాలి.
 5. నేల స్వభావం క్షారం అయినందున చౌడు కగ్గించేందుకు ఎకరాకు.....టన్నుల జిప్సంను పొడిచేసి పొలంలో వేసి బాగా దుక్కి చేయాలి. తరువాత మడులు కట్టి సేద్యపు నీటినిపెట్టి యింకనుట్లు చేయాలి. 24 గం.ల తరువాత ఇంకని నీటిని ఉంట కాలువల ద్వారా బయటికి పంపాలి.
 6. జంతులోపం ఉన్నచోట ఎకరాకు 20 కిలోలు జంతు సల్ఫేటును దుక్కిలోవేసి కలియదున్నాలి.
 7. నేల స్వభావం ఆమ్లత్వం అయినందున దాని నివారణకు ఎకరాకు.....కిలోల సుగ్గంను పొడిచేసి నేలపై జల్లి బాగా కలియదున్నాలి.
 8. ఇతర వివరాలు దగ్గరలో ఉన్న వ్యవసాయాధికారివారిని సంప్రదించండి.
- సూచన : తదుపరి భూసార పరీక్షలు చేయించుకోవలసిన సమయము _____
 (మూడు పంట కాలుములకు ఒకసారి)


 వ్యవసాయ సహాయ సంచాలకులు,
 భూసార పరీక్షణ కేంద్రం, అమదాలవలస

సమూహం నెం. 037 Tramex 6Am గ్రామం
 రైతు పేరు శ్రీ Tramex 6Am
 సర్వే నెం. మండలం GARA జిల్లా: శ్రీకాకుళం
 నేల స్వభావం (SL) శాలిక నేలలు/మధ్యరకం నేలలు/బరువు నేలలు
 ఉదజని సూచక (7.61) ఆమ్లం/కటన్/క్షారం (అల్క/మధ్యస్థం/అధిక)
 అమా సాంద్రత మి.మో/సం.మీ (0.03) సామాన్యం/మొలకెత్తుట కష్టం/పంటకు హాని
 సెంట్రియం కల్పనం (023) తక్కువ /మధ్యస్థం / ఎక్కువ
 లభ్య సక్రమణ (87) తక్కువ /మధ్యస్థం / ఎక్కువ
 లభ్య ధాన్యం కి.గ్రా/ఎం (12) తక్కువ /మధ్యస్థం / ఎక్కువ
 లభ్య పొటాష్ కి.గ్రా/ఎం (98) తక్కువ /మధ్యస్థం / ఎక్కువ
 నీటి వివరం : నీటి వనరుల క్రింద వర్షాధారం నూతుల క్రింద
 భూమి వివరం : పల్లం మెట్టు ఆరుదక్క

పైరు :
 ఇరిగేషన్/రబ్బలో సిఫారసు చేయబడిన ఎరువుల మోతాదు కి.గ్రా/ఎకరాకు
 గుర్రబలం () యూరియా --- ()
 ధాన్యం (/) యస్.యస్.పి. / డి.పి.పి - (/)
 పొటాష్ () మ్యూరేట్ ఆఫ్ పొటాష్ ()
 గ్లైకోజ్ () టన్నులు/బండ్లు/ఎకరాకు ()

ప్రత్యేక సలహాలు :

1. ఎకరానికి 200 కేజీల ఆమ్లం పొడిని రెండవసారి కలుపుతీయూ సమయంలో మొక్కకు 5 సెం.మీ.టర్ఫ్ దూరంలో వేసి, మట్టిని మొదలకు ఎగదోయాలి.
 2. పచ్చిరొట్టె ఎరువులైన పిల్లిపెసెర, గైలసిడియా, జీలుగు, కట్టెజనుము మొ.వాటి భూమిలో వేసి, పూత సమయంలో కలియదున్నాలి.
 3. జీవన ఎరువులను వాడాలి.
 4. సాధ్యమైతే నీటిని పెట్టి దమ్ముచేసి, తేరుకున్న మురుగునీటిని ఈట కాలువల ద్వారా యింకని నీటిని బయటికి పంపాలి.
 5. నేల స్వభావం క్షారం అయినందున చాడు కర్షించేందుకు ఎకరాకు.....టన్నుల ఆమ్లంను పొడిచేసి పొలంలో వేసి దాగా దుక్కి చేయాలి. తరువాత మడులు కట్టి సాధ్యమైతే నీటినిపెట్టి యింకనుట్లు చేయాలి. 24 గం.ల తరువాత ఇంకని నీటిని ఈట కాలువల ద్వారా బయటికి పంపాలి.
 6. బంకులోపం ఉన్నచోట ఎకరాకు 20 కిలోలు బంకు సల్ఫేటును దుక్కిలోవేసి తిరియదున్నాలి.
 7. నేల స్వభావం ఆమ్లం అయినందున దాని నివారణకు ఎకరాకు.....కిలోల సున్నంను పొడిచేసి నేలపై బల్లి దాగా కలియదున్నాలి.
 8. ఇతర వివరాలు దగ్గరలో ఉన్న వ్యవసాయాధికారివారిని సంప్రదించండి.
- సూచన : తదుపరి భూసార పరీక్షలు చేయించుకోవలసిన సమయము.....
 (మూడు పంట కాలుములకు ఒకసారి)

Sr. Anandhyamathi
 వ్యవసాయ సహాయ సరిచాలకులు,
 భూసార పరీక్షా కేంద్రం, ఆమదాలవలస



TSPL/ENV/MOEF/2017-18/1143

Srikakulam,
27-01-2018.

To
The Regional Office (South Eastern Zone)
Ministry of Environment, Forests and Climate Change
1st & 2nd floor, HEPC building, No.34
Cathedral Garden Road, Nungambakkam
Chennai – 600034.

Dear Sir,

Sub: Soil analysis report – Submission - Reg.

Ref: CRZ Clearance vide F.No.11-67/2013-IA-III dated 28-04-2015.

As per the reference cited above, please find herewith enclosed Soil analysis report for the period of Oct to Dec, 2017.

Thanking You,

Yours Faithfully,

A handwritten signature in black ink, consisting of several overlapping, stylized strokes, positioned above the typed name.

Sr. Vice President (Mines)

CC:

AP Pollution Control Board, Vijayawada
AP Pollution Control Board, Vizianagaram

A handwritten signature in black ink, consisting of several overlapping, stylized strokes, positioned above the contact information.

Trimex Sands Pvt Ltd: Vatchavalasa (V), Gara Mandal, Srikakulam District - 532 404, Andhra Pradesh, India.
Tel: +91 8942 283755, Fax: +91 8942 283758, E-mail: info@trimexsands.com, URL:www.trimexsands.com

CIN : U14299TN2004PTC071437

Trimex Sands Pvt.Ltd

Soil analysis consolidated data Village: Tonangi

S.No	Parameter	Before mining						Back filled area					
		148	158	159	144	144	144	148	158	159	144	144	
1	Survey No.	148	158	159	144	144	144	148	158	159	144	144	
2	Soil type	sandy lome	sandy lome	sandy lome	sandy lome	sandy lome	sandy lome	sandy lome	sandy lome	sandy lome	sandy lome	sandy lome	
3	PH	5.36	5.78	5.35	5.79	6.08	7.44	6.50	6.68	6.73	6.56	6.56	
4	E.C	0.13	0.09	0.05	0.05	0.11	0.15	0.10	0.08	0.10	0.08	0.08	
5	Organic carbon	0.24	0.49	0.36	0.25	0.32	0.40	0.31	0.27	0.33	0.47	0.47	
6	Available Nitrogen	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	
7	Available phosphorous	3	3	3	3	3	3	3	3	3	3	3	
8	Available potassium	98	98	98	117	86	74	80	98	80	86	86	

Before Mining

S.No - 148

భూసార పరీక్షా ఫలితాలు

భూసార పరీక్షా కేంద్రం, ఆమదాలవలస

నమూనా నెం.	351	గ్రామం	శ్రీకాకుళం
రైతు పేరు & తీ	T. Srinex	జిల్లా	శ్రీకాకుళం
సర్వే నెం.		మండలం	
నేల స్వభావం	(5L)	తేలిక నేలలు/మధ్యరకం నేలలు/బరువు నేలలు	
ఉదజని సూచిక	(5.36)	అమ్మం/తటస్థం/క్షారం (అల్ప/మధ్యస్థం/అధిక)	
లవణ సాంద్రత మి.మో/సెం.మీ	(0.13)	సామాన్యం/మొలకెత్తుట కష్టం/వంటకు హాని	
సంక్లియ కర్మనం kg/ha	(0.24)	తక్కువ / మధ్యస్థం / ఎక్కువ	
లభ్య నత్రజని kg/ha	(12.5)	తక్కువ / మధ్యస్థం / ఎక్కువ	Very low
లభ్య భాస్వరం కి.గ్రా/హె	(3)	తక్కువ / మధ్యస్థం / ఎక్కువ	
లభ్య పొటాష్ కి.గ్రా/హె	(98)	తక్కువ / మధ్యస్థం / ఎక్కువ	
నీటి వివరం :	నీటి వనరుల క్రింద	వర్షాధారం	గూతుల క్రింద
భూమి వివరం :	సల్లం	మెట్టు	ఆరుదళ్ళు
పైరు :			

ఇరిగేషన్ / రబ్బిలో సిఫారసు చేయబడిన ఎరువుల మోతాదు కి.గ్రా./ఎకరాకు.

నత్రజని	()	యూరియా...	()
భాస్వరం	()	యస్.యస్.పి. / డి.ఎ.పి. +	()
పొటాష్	()	మ్యూరేట్ ఆఫ్ పొటాష్	()
గెడ్డం	()	టన్నులు/బండ్రు/ఎకరాకు	()

ప్రత్యేక సలహాలు :

1. ఎకరానికి 200 కేజీల జిప్సం పొడిని రెండవసారి కలుపు తీయు సమయంలో మొక్కకు 5 సెం.మీటర్ల దూరంలో వేసి మట్టిని మొదలకు ఎగదోయాలి.
2. వచ్చేలాట్ల ఎరువులైన పిల్లసెనర, గైలసిడియా, జీలుగ, కట్టిబనుము మొ. వాటిని భూమిలో వేసి పూత సమయంలో కలియదున్నాలి.
3. జీవన ఎరువులను వాడాలి.
4. సేద్యపు నీటిని పెట్టి దమ్ముచేసి, తేరుకున్న మురుగునీటినిగన ఊట కాలువల ద్వారా యింకని నీటిని బయటికి పంపాలి.
5. నేల స్వభావం క్షారం అయినందున చాడు తగ్గించేందుకు ఎకరాకుటన్నుల జిప్సంను పొడిచేసి పొలంలో వేసి బాగా దుక్కి చేయాలి. తరువాత మడులు కట్టి సేద్యపు నీటిని పెట్టి యింకనుట్లు చేయాలి. 24 గంటల తరువాత ఇంకని నీటిని ఊట కాలువల ద్వారా బయటికి పంపాలి.
6. జంతులోపం ఉన్నచోట ఎకరాకు 20 కిలోలు జింకు సల్ఫేటును దుక్కిలో వేసి కలియదున్నాలి.
7. నేల స్వభావం ఆమ్లత్వం అయినందున దాని నివారణకు ఎకరాకుకిలోల సున్నంను పొడిచేసి నేలపై జల్లి బాగా కలియదున్నాలి.
8. ఇతర వివరాలకు దగ్గరలో ఉన్న వ్యవసాయాధికారి వారిని సంప్రదించండి.

నూచన : తదుపరి భూసార పరీక్షలు చేయించుకోవలసిన సమయము కిలోల (నూడు పంట కాలములకు ఒకసారి)

(Signature)
 భూసార పరీక్షా కేంద్రం, ఆమదాలవలస

After Mining

Sg. No - 148

భూసార పరీక్షా ఫలితాలు

భూసార పరీక్షా కేంద్రం, ఆమదాలవలస

సమూహ నెం. 356
 రైతు పేరు శ్రీ D. S. R. X / A గ్రామం _____
 సర్వే నెం. _____ మండలం _____ జిల్లా : శ్రీకాకుళం
 నేల స్వభావం (5L) తలక నేలలు/మధ్యరకం నేలలు/బరువు నేలలు
 ఉదజని సూచక (7.44) ఆమ్లం/తటస్థం/క్షారం (అల్ప/మధ్యస్థం/అధిక)
 లవణ సాంద్రత మి.మో/సిం.మీ (0.15) సామాన్యం/సూలకెత్తుట కష్ట/సంబంధం హాని
 సెంట్రీయ కర్మగం (0.40) తక్కువ / మధ్యస్థం / ఎక్కువ
 లభ్య నత్రజని కి.గ్రా/హె (12.5) తక్కువ / మధ్యస్థం / ఎక్కువ
 లభ్య ఛాస్యరం కి.గ్రా/హె (3) తక్కువ / మధ్యస్థం / ఎక్కువ
 లభ్య పొటాష్ కి.గ్రా/హె (74) తక్కువ / మధ్యస్థం / ఎక్కువ
 నీటి వివరం : నీటి మనరుల క్రింద వర్షాధారం గూతుల క్రింద
 భూమి వివరం : సల్ఫం మెట్టు ఆరునక్క

పైరు :
 ఖరీఫ్ / రబీలో సిఫారసు చేయబడిన ఎరువుల మోతాదు కి.గ్రా/ఎకరాకు.
 నత్రజని () యూరియా... ()
 ఛాస్యరం () యు.సి.యస్.బి. / డి.బి.బి. - ()
 పొటాష్ () మ్యూరేట్ ఆఫ్ పొటాష్ ()
 గెత్తం () టన్నులు/బండ్లు/ఎకరాకు ()

ప్రత్యేక సలహాలు :

1. ఎకరానికి 200 కేజీల జప్లం పొడిని రెండవసారి కలుపు తీయు సమయంలో మొక్కకు 5 సెం.మీటర్ల దూరంలో వేసి మట్టిని మొదలకు ఎగదోయాలి.
 2. వచ్చితిట్ల ఎరువులైన పిల్లపసర, గ్లెనిడియా, జీలుగ, కట్టిజనుము మొ॥ వాటిని భూమిలో వేసి పూత సమయంలో కలియదున్నాలి.
 3. జీవన ఎరువులను వాడాలి.
 4. సేద్యపు నీటిని పెట్టి దమ్ముచేసి, తేరుకున్న మురుగునీటినిగ ఉంట కాలువల ద్వారా యింకని నీటిని బయటికి వంపాలి.
 5. నేల స్వభావం క్షారం అయినందున చాడు తగ్గించేందుకు ఎకరాకుటన్నుల జప్లంను పొడిచేసి పొలంలో వేసి బాగా దుక్కి చేయాలి. తరువాత మడులు కట్టి సేద్యపు నీటిని పెట్టి యింకనుట్లు చేయాలి. 24 గం॥ల తరువాత ఇంకని నీటిని ఉంట కాలువల ద్వారా బయటికి వంపాలి.
 6. జంతులోపం ఉన్నచోట ఎకరాకు 20 కిలోలు జంతు సర్వేటును దుక్కిలో వేసి కలియదున్నాలి.
 7. నేల స్వభావం ఆమ్లత్వం అయినందున దాని నివారణకు ఎకరాకు కిలోల సున్నంను పొడిచేసి నేలపై బల్లి బాగా కలియదున్నాలి.
 8. ఇతర నివారణకు దగ్గరలో ఉన్న వ్యవసాయాధికారి వారిని సంప్రదించండి.
- సూచన : తరుపల భూసార పరీక్షలు చేయించుకోవలసిన సమయము
 (మూడు పంట కాలములకు ఒకసారి)

(Signature)
 భూసార పరీక్షా కేంద్రం, ఆమదాలవలస

భూసార పరీక్షా కేంద్రం, ఆమదాలవలస

సమూహ నెం. 352
 రైతు పేరు శ్రీ Trimex గ్రామం _____
 సర్కే నెం. _____ మండలం MLD జిల్లా : శ్రీకాకుళం
 నేల స్వభావం (SL) కేలిక నేలలు/మధ్యరకం నేలలు/బరుపు నేలలు
 ఉదజని సూచిక (5.79) ఆమ్లం/తటస్థం/క్షారం (అల్ల/మధ్యస్థం/అధిక)
 లహరి సాంద్రత మి.మో/సెం.మీ (0.09) సామాన్యం/ములకెత్తుట కష్టం/సంకుచం
 సెంట్రీయ కర్ణనం క్రి.గ్రా/వా (0.49) తక్కువ / మధ్యస్థం / ఎక్కువ
 లభ్య గ్రామీణి క్రి.గ్రా/వా (12.5) తక్కువ / మధ్యస్థం / ఎక్కువ
 లభ్య భాస్వరం క్రి.గ్రా/వా (3) తక్కువ / మధ్యస్థం / ఎక్కువ
 లభ్య పొటాష్ క్రి.గ్రా/వా (98) తక్కువ / మధ్యస్థం / ఎక్కువ
 నీటి దివరం : నీటి వనరుల క్రింద వర్షాధారం గూతుల క్రింద
 భూమి దివరం : పల్లం మెట్టు ఆరుదళ్ళు
 పైరు : _____

ఖరీఫ్ / రబీలో సిఫారసు చేయబడిన ఎరువుల మోతాదు కి.గ్రా./ఎకరాకు.
 గ్రామీణి () యూరియా... ()
 భాస్వరం () యస్.యస్.పి. / డి.ఎ.పి. - ()
 పొటాష్ () మ్యూరేట్ ఆఫ్ పొటాష్ ()
 గ్రేత్ () టన్నులు/బండ్లు/ఎకరాకు ()

- ప్రత్యేక సలహాలు :**
1. ఎకరానికి 200 కేజీల జిప్సం పొడిని రెండవసారి కలుపు తీయు సమయంలో మొక్కకు 5 సెం.మీటర్ల దూరంలో వేసి మట్టిని మృదలకు ఎగదోయాలి.
 2. పచ్చిరొట్టె ఎరువులైన పిల్లపెసర, గైలసిడియా, జీలుగ, కట్టిజనుము మొ॥ వాటిని భూమిలో వేసి పూత సమయంలో కలియదున్నాలి.
 3. జీవన ఎరువులను వాడాలి.
 4. సేద్యపు నీటిని పెట్టి దమ్ముచేసి, తేరుకున్న మురుగునీటినిగ ఉంట కాలువల ద్వారా యింకని నీటిని బయటికి పంపాలి.
 5. నేల స్వభావం క్షారం అయినందున చాడు తగ్గించేందుకు ఎకరాకు _____ టన్నుల జిప్సంను పొడిచేసి పొలంలో వేసి బాగా దుక్కి చేయాలి. తరువాత మడులు కట్టి సేద్యపు నీటిని పెట్టి యింకనట్లు చేయాలి. 24 గం॥ల తరువాత ఇంకని నీటిని ఉంట కాలువల ద్వారా బయటికి పంపాలి.
 6. జంతులోపం ఉన్నచోట ఎకరాకు 20 కిలోలు జంతు సల్ఫేటును దుక్కిలో వేసి కలియదున్నాలి.
 7. నేల స్వభావం ఆమ్లత్వం అయినందున దాని నివారణకు ఎకరాకు _____ కిలోల సున్నంను పొడిచేసి నేలపై బల్లి బాగా కలియదున్నాలి.
 8. ఇతర వినరాలకు దగ్గరలో ఉన్న వ్యవసాయాధికారి వారిని సంప్రదించండి.
- సూచన : తదుపరి భూసార పరీక్షలు చేయించుకోవలసిన సమయము _____
 (మూడు పంట కాలములకు ఒకసారి)

[Signature]
 భూసార పరీక్షా కేంద్రం, ఆమదాలవలస

After Mining

భూసార పరీక్షా ఫలితాలు

Sy. No-158

భూసార పరీక్షా కేంద్రం, ఆమదాలవలస

సమూహ నెం. 357
 రైతు పేరు శ్రీ Trimer 21 గ్రామం _____
 సర్వే నెం. _____ మండలం TRC జిల్లా : శ్రీకాకుళం
 నేల స్వభావం (SL) తేలిక నేలలు/మధ్యరకం నేలలు/బరువు నేలలు
 ఉదజని సూచిక (650) ఆమ్లం/తటస్థం/క్షారం (అల్ప/మధ్యస్థం/అధిక)
 లహరి సాంద్రత మి.మో/సం.కు (0.10) సామాన్యం/మొలకెక్కుట కష్టం/పంటకు హాని
 సంద్రీయ కర్మనంబ/వా (0.31) కక్కువ / మధ్యస్థం / ఎక్కువ
 లభ్య సత్తజని (12.5) కక్కువ / మధ్యస్థం / ఎక్కువ
 లభ్య భాస్వరం కి.గ్రా/వా (3) కక్కువ / మధ్యస్థం / ఎక్కువ
 లభ్య పొటాష్ కి.గ్రా/వా (80) కక్కువ / మధ్యస్థం / ఎక్కువ
 గీటి వివరం : గీటి వనరుల క్రింద వర్షాధారం గూఢుల క్రింద
 భూమి వివరం : పల్లం మెట్టు ఆరుదళ్ళు
 పైరు : _____

ఖరీఫ్ / రబీలో సిఫార్సు చేయబడిన ఎరువుల మోతాదు కి.గ్రా/ఎకరాకు.
 సత్తజని () యూరియా... ()
 భాస్వరం () యన్.యస్.పి. / డి.ఎ.పి. - ()
 పొటాష్ () మ్యూరేట్ ఆఫ్ పొటాష్ ()
 గెత్తం () టన్నులు/బండ్లు/ఎకరాకు ()

- ప్రత్యేక సలహాలు :**
1. ఎకరానికి 200 కేజీల జిప్సం పొడిని రెండవసారి కలుపు తీయు సమయంలో మొక్కకు 5 సెం.మీటర్ల దూరంలో వేసి మట్టిని మొదలకు ఎగదోయాలి.
 2. పచ్చిరొట్టె ఎరువులైన పిల్లపసర, గ్లైలసిడియా, జీలుగ, కట్టిజనుము మొ॥ వాటిని భూమిలో వేసి పూత సమయంలో కలియబెట్టాలి.
 3. జీవన ఎరువులను వాడాలి.
 4. సేద్యపు గీటిని పెట్టి దమ్ముచేసి, తేరుకున్న మురుగుగీటినిగ ఉంట కాలువల ద్వారా యింకని గీటిని బయటికి పంపాలి.
 5. నేల స్వభావం క్షారం అయినందున చాడు కర్గించేందుకు ఎకరాకు _____ టన్నుల జిప్సంను పొడిచేసి పొలంలో వేసి బాగా దుక్కి చేయాలి. తరువాత మడులు కట్టి సేద్యపు గీటిని పెట్టి యింకనుట్లు చేయాలి. 24 గం॥ల తరువాత ఇంకని గీటిని ఉంట కాలువల ద్వారా బయటికి పంపాలి.
 6. జంతులోపం ఉన్నచోట ఎకరాకు 20 కిలోలు జింకు సల్ఫేటును దుక్కిలో వేసి కలియబెట్టాలి.
 7. నేల స్వభావం ఆమ్లత్వం అయినందున దాని నివారణకు ఎకరాకు _____ కిలోల సున్నంను పొడిచేసి నేలపై బిల్లి బాగా కలియబెట్టాలి.
 8. ఇతర వివరాలకు దగ్గరలో ఉన్న వ్యవసాయాధికారి వారిని సంప్రదించండి.
- నూచన : తదుపరి భూసార పరీక్షలు చేయించుకోవలసిన సమయము _____
 (కూడు పంట కాలములకు ఒకసారి)

[Signature]
 వ్యవసాయ సహాయ సంచాలకులు
 భూసార పరీక్షా కేంద్రం, ఆమదాలవలస

భూసార పరీక్షా కేంద్రం, ఆమదాలవలస

నమూనా నెం. 353	గ్రామం	1
రైతు పేరు తీ	Trumex	
సర్వే నెం.	గుండలం	017
నెల స్వభావం	(Sl)	తేలిక నేలలు/మధ్యరకం నేలలు/బరువు నేలలు
ఉదజని నూరుక	(5.55)	ఆమ్లం/తటస్థం/క్షారం (అల్ప/మధ్యస్థం/అధిక)
లవణ సాంద్రత డి.మో/సిం.మీ	(0.05)	సామాన్యం/మొలకెత్తుట కష్టం/సంబంధం
సెంట్రీయం కర్బనం	(0.36)	తక్కువ / మధ్యస్థం / ఎక్కువ
లభ్య నత్రజని	(18.5)	తక్కువ / మధ్యస్థం / ఎక్కువ
లభ్య భాస్వరం కి.గ్రా/హె	(3)	తక్కువ / మధ్యస్థం / ఎక్కువ
లభ్య పొటాష్ కి.గ్రా/హె	(98)	తక్కువ / మధ్యస్థం / ఎక్కువ
నీటి వివరం :	నీటి వనరుల క్రింద	వర్షాధారం నూనె క్రింద
భూమి వివరం :	పల్లం	మెట్టు ఆరుదళ్ళు
పైరు :	ఇరిగేషన్ / రజిలో సిఫారసు చేయబడిన ఎరువుల మోతాదు కి.గ్రా/ఎకరాకు.	

- | | | | |
|---------|-----|--------------------------|-----|
| నత్రజని | () | యూరియా... | () |
| భాస్వరం | () | యన్.యస్.పి. / డి.ఎ.పి. - | () |
| పొటాష్ | () | మ్యూరేట్ ఆఫ్ పొటాష్ | () |
| గెడ్డం | () | టన్నులు/బండ్లు/ఎకరాకు | () |

ప్రత్యేక సలహాలు :

1. ఎకరానికి 200 కేజీల జిప్సం పొడిని రెండవసారి కలుపు తీయు సమయంలో మొక్కకు 5 సెం.మీటర్ల దూరంలో వేసి మట్టిని మొదలకు ఎగడోయాలి.
 2. పచ్చిరాట్లు ఎరువులైన విల్లెవనర, గ్లైసెడియా, జీలుగ, కల్లిజనుము మొ॥ వారిని భూమిలో వేసి పూత సమయంలో కలియదున్నాలి.
 3. జీవన ఎరువులను వాడాలి.
 4. సేద్యపు నీటిని పెట్టి దమ్ముచేసి, తేరుకున్న మురుగునీటినిగ ఈట కాలువల ద్వారా యింకని నీటిని బయటికి పంపాలి.
 5. నెల స్వభావం క్షారం అయినందున చాడు కర్గించేందుకు ఎకరాకుటన్నుల జిప్సంను పొడిచేసి పొలంలో వేసి బాగా దుక్కి చేయాలి. తరువాత మడులు కట్టి సేద్యపు నీటిని పెట్టి యింకనుట్లు చేయాలి. 24 గం॥ల తరువాత ఇంకని నీటిని ఈట కాలువల ద్వారా బయటికి పంపాలి.
 6. జంతులోపం ఉన్నచోట ఎకరాకు 20 కిలోలు జంతు సల్ఫేటును దుక్కిలో వేసి కలియదున్నాలి.
 7. నెల స్వభావం ఆమ్లత్వం అయినందున దాని నివారణకు ఎకరాకు 100 కిలోల సున్నంను పొడిచేసి నేలపై బట్టి బాగా కలియదున్నాలి.
 8. ఇతర వివరాలకు దగ్గరలో ఉన్న వ్యవసాయాధికారి వారిని సంప్రదించండి.
- సూచన : ఈచట్ట భూసార పరీక్షలు చేయించుకోవలసిన సమయము
(మూడు పండు కాలుములకు ఒకసారి)

[Signature]
 వ్యవసాయ సహాయ సంచాలకులు
 భూసార పరీక్షా కేంద్రం, ఆమదాలవలస

After signing భూసార పర్మిట్ ఫలితాలు
 భూసార పర్మిట్ కేంద్రం, ఆమదాలవలస.

నమూనా నెం. 358
 రైతు పేరు తీ. Linex 3 గ్రామం
 సర్వే నెం. మండలం గ్రామం
 నేల స్వభావం (SL) కొరక నేలు/మధ్యరకం నేలు
 ఉదజని సూచక (6-68) అప్పు/కరువు/జ్వారం (అల్ల/మధ్యస్థ/అల్ల) నేలు
 అవని సాంద్రత వి.మో/సం.ము (0.08) సామాన్య/ములకెక్కుట కష్ట/పంటకు నేలు
 సంత్రీయ కర్మణం (0.27) కక్కువ /మధ్యస్థం / ఎక్కువ
 లభ్య భాస్వరం కి.గ్రా/హె (3) కక్కువ /మధ్యస్థం / ఎక్కువ
 లభ్య పొటాష్ కి.గ్రా/హె (98) కక్కువ /మధ్యస్థం / ఎక్కువ
 నీటి వివరం నీటి వనరుల క్రింద వర్షాధారం
 భూమి వివరం : పల్లం మెట్టు

భరిష్ట/రజిలో నిఫారను చేయబడిన ఎం||ర్లల మోతాదు కి.గ్రా/ఎకరాకు
 నత్రజని () యూరియా ()
 భాస్వరం () యస్.యస్. / డి.పి.పి - ()
 పొటాష్ () మ్యూరేట్ ఆ పొటాష్ ()
 గెక్కుం () టన్నులు/అక్ర/ఎకరాకు ()

ప్రత్యేక సలహాలు :

1. ఎకరాకు 200 కేజీల అప్పు పొడిని రెం||సారి కలుపుతీయు సమయంలో మొక్కకు 5 పెం.సీ.టర్ల దూరంలో వేసి మట్టిని మొ||లకు ఎగదోయాలి.
 2. పచ్చని అరువులైన విల్లపనర, గైలసిడియా, జీలుగ, కల్లజనుము మొ||వారిని భూమిలో వేసి, పూక సమయంలో కలియదున్నాలి.
 3. జీవన అరువులను వాడాలి.
 4. సెద్దపై నీటిని పట్టి దమ్ముచేసి, తరుకున్న కురుగునీటిని ఈట కాలువల ద్వారా యింకని నీటిని బయటికి పంపాలి.
 5. నేల స్వభావం జ్వారం అయినందున చాడు కర్పించేందుకు ఎకరాకు _____ టన్నుల అప్పులను పొడిచేసి పొలంలో వేసి బాగా దుక్కి చేయాలి. తరువాత మడులు కట్టి సెద్దపై నీటినిపట్టి యింకనిట్లు చేయాలి. 24 గం||ల తరువాత ఇంకని నీటిని ఈట కాలువల ద్వారా బయటికి పంపాలి.
 6. అందులోపల ఉన్నచోట ఎకరాకు 20 కిలో||ల ఇంకు సల్ఫేటును దుక్కిలోవేసి కలియదున్నాలి.
 7. నేల స్వభావం అప్పుక్కుం అయినందున దాని నివారణకు ఎకరాకు _____ కిలోల మున్నంను పొడిచేసి నేలపై అల్లి బాగా కలియదున్నాలి.
 8. ఇతర వివరాలకు దగ్గరలో ఉన్న వ్యవసాయ భిక్షాలవారిని సంప్రదించండి.
- సూచన : తమవల భూసార పర్మిట్లను చేయి ములోవలసిన సమయము _____ కిలోల (ముందు పంట కాలములకు ఒకే||ల)

భూసార పర్మిట్ కేంద్రం, ఆమదాలవలస.
 భూసార పర్మిట్ కేంద్రం, ఆమదాలవలస.

Bekoya Mining

భూసార పరీక్షా ఫలితాలు

భూసార పరీక్షా కేంద్రం, ఆమదాలవలస

నమూనా నెం. 354	గ్రామం	
రైతు పేరు శ్రీ	మండలం	త్రీక్షా
సర్కే నెం.	56	తేలిక నేలలు/నుద్ధరకం నేల
నేల స్వభావం	5-19	అమ్మం/తటస్థం/జ్వారం (అల్ప)
ఉదయిని సూచిక	0.75	సామాన్యం/మొలకెత్తుట కష్టం
అనగా సాంద్రత మి.గ్రా/సె.మీ (12.5	తక్కువ / మధ్యస్థం / ఎక్కువ
సాంద్రత	3	తక్కువ / మధ్యస్థం / ఎక్కువ
అధ్య సత్రత	117	తక్కువ / మధ్యస్థం / ఎక్కువ
అధ్య భాస్వరం కి.గ్రా/ఎ		మర్కాశులు
అధ్య పొటాష్ కి.గ్రా/ఎ		మెట్టు
నీటి ఘనత		నూతన
భూమి ఘనత		అరణ్య

- భరిఫ్ / రజిల్ సిఫారసు చేయబడిన ఎరువుల మోతాదు కి.గ్రా/ఎకరాకు
- గుత్తజని () యూరియా... ()
 - భాస్వరం () యన్.యస్.పి. / డి.ఎ.పి. ()
 - పొటాష్ () మ్యూరేట్ ఆఫ్ పొటాష్ ()
 - గెత్తం () టింగ్గులు/బండ్లు/ఎకరాకు ()

తేలిక నేలనీల
 1. తేలిక నేలనీల...
 2. తేలిక నేలనీల...
 3. తేలిక నేలనీల...
 4. తేలిక నేలనీల...
 5. తేలిక నేలనీల...
 6. తేలిక నేలనీల...
 7. తేలిక నేలనీల...
 8. తేలిక నేలనీల...
 9. తేలిక నేలనీల...
 10. తేలిక నేలనీల...

భూసార పరీక్షా కేంద్రం, ఆమదాలవలస

Before Mining

సం. 14

భూసార పరీక్షా ఫలితాలు

భూసార పరీక్షా కేంద్రం, ఆమదాలవలస

సమూహ నెం. 35	గ్రామం	కల్లూరి గ్రామం
రైతు పేరు శ్రీ	ముండలం	కల్లూరి
సర్వే నెం.	51	తేలిక నేలలు/మధ్యరకం నేలలు/బాగున్న నేలలు
నేల స్వభావం	6-8	అప్పు/తటస్థం/క్షారం (అల్ప/మధ్య/అధిక)
ఉదజని సూచిక	0-11	సామాన్యం/మొలతెత్తుట కష్టం
లహరి సాంద్రత మి.మా/సె.మీ	0-32	తక్కువ / మధ్యస్థం / ఎక్కువ
సేంద్రియ కర్బనం	12-5	తక్కువ / మధ్యస్థం / ఎక్కువ
అధ్య నత్రజని	36	తక్కువ / మధ్యస్థం / ఎక్కువ
అధ్య భాస్వరం కి.గ్రా/ఎ.		వర్షాధారం నాశనం క్రింది
అధ్య పొటాష్ కి.గ్రా/ఎ.		మెట్టు
నీటి వివరం	నీటి వనరుల క్రింద	
భూమి వివరం	నల్లం	
పైరు :		

- ఇటీవ్ / రబీలో సిఫార్సు చేయబడిన ఎరువుల మోతాదు కి.గ్రా/ఎ.కి
- నత్రజని () యూరియా ()
 - భాస్వరం () యు.ఎస్.ఎస్.పి. / డి.ఎ.పి. - ()
 - పొటాష్ () మ్యూరేట్ ఆఫ్ పొటాష్ ()
 - గెడ్డం () టన్నులు/బండ్లు/ఎకరాకు ()

- ప్రత్యేక సలహాలు**
1. ఎకరానికి 100 కేజీల జిప్సం పొడిని రెండవసారి కలుపు తీయు సమయంలో మొక్కకు 5 సెం.మీబద్ద దూరంలో వేసి మట్టిని మొదలకు ఎగదోయాలి.
 2. మచ్చుకట్ట ఎరువులైన పిల్లిపసర, గ్లైసెడియా, జీలుగ, కట్టిజనుము మొ. వాటిని భూమిలో వేసి పూత సమయంలో కలియదున్నాలి.
 3. జీడికాయ ఎరువులను వాడాలి.
 4. పేష్యూరు నీటిని పెట్టి దన్ను చేసి, తేరుకున్న మురుగునీటిని గుడిబిడి కాలువల ద్వారా దూరంగా నీటిని బయటికి పంపాలి.
 5. నేల స్వభావం క్షారం అయినందున చాడు తగ్గించుకుంటు ఎకరాకు 10 టన్నుల జిప్సంను వాడుచేసి పొలంలో వేసి బాగా దుక్కి చేయాలి. తరువాత మడులు కట్టి సేంద్రియ నీటిని పెట్టి యింకునట్లు చేయాలి. 24 గంటల తరువాత ఇంకని నీటిని గుడిబిడి కాలువల ద్వారా బయటికి పంపాలి.
 6. జంకలోపల తగ్గిచోట ఎకరాకు 20 కిలోలు జింకు సల్ఫేటును దుక్కిలో వేసి కలియదున్నాలి.
 7. నేల స్వభావం అప్పుత్వం అయినందున దాని నివారణకు ఎకరాకు 100 కిలోల సూర్యంను వాడుచేసి నేలపై ఇల్లి బాగా కలియదున్నాలి.
 8. ఇతర వివరాలకు దగ్గరలో ఉన్న వ్యవసాయాధికారి నాటిని సంప్రదించండి.
- భూసార పరీక్షలు చేయించుకోవలసిన సమయము (సూర్యం నంట కాలుములకు ఒకసారి)

వ్యవసాయ సహాయ సంఘాలకులు
భూసార పరీక్షా కేంద్రం, ఆమదాలవలస

Artex Mining

No 144

భూసార పరీక్షా ఫలితాలు

భూసార పరీక్షా కేంద్రం, ఆమదాలవలస

సమూహ నెం. 360 గ్రామం _____

రైతు పేరు Artex SA జిల్లా తెలంగాణ

సర్కే నెం. _____ మండలం Artex తాలూకా నల్గొండ

నేల స్వభావం (SL) తేలిక నేలలు/మధ్యరకం నేలలు/గురుపు నేలలు

ఉదజని సూచిక (6.56) అమ్మం/తటస్థం/జ్వారం (అల్ల/మధ్యస్థం/అట్టిక)

అపజని సూచిక (0.08) సామాన్యం/మొలతెత్తుట కష్టం/సామాన్యం నేలలు

సంక్రియ కర్మణం (0.9) తక్కువ / మధ్యస్థం / ఎక్కువ

లభ్య నత్రజని (12.5) తక్కువ / మధ్యస్థం / ఎక్కువ

లభ్య భాస్వరం కి.గ్రా/ఎ (3) తక్కువ / మధ్యస్థం / ఎక్కువ

లభ్య పొటాష్ కి.గ్రా/ఎ (86) తక్కువ / మధ్యస్థం / ఎక్కువ

నీటి దివరం : సీటి నగదుల క్రింద పర్షాధారం నూనూలు క్రింద ఆరుదాట్లు

భూమి దివరం : పల్లం మెట్టు

పైరు : _____

ఇటీవ్ / గతలో సిఫారసు చేయబడిన ఎరువుల మోతాదు కి.గ్రా/ఎకరాకు

నత్రజని () యూరియా ()

భాస్వరం () యస్.యస్.పి. / డి.ఎ.పి. - ()

పొటాష్ () గ్యూరేట్ ఆఫ్ పొటాష్ ()

గెత్తం () టన్నులు/బండ్లు/ఎకరాకు ()

ప్రత్యేక సూచనలు

1. ఎకరాకు 100 కేజీల జప్తం పొడిని రెండవసారి కలుపు తీయు సమయంలో మొత్తం 500 గ్రాముల దూరంలో వేసి మట్టిని మొదలకు ఎగదోయాలి.
 2. వచ్చుకొట్ట ఎరువులైన పిల్లపసర, గ్లైలసిడియా, జీలుగ, కట్టజనుము మొ॥ వాటిని భూములో వేసి పూత సమయంలో కలియదున్నాలి.
 3. జీవన ఎరువులను వాడాలి.
 4. సేద్యపు నీటిని పైట్టి దమ్ము చేసి, తేరుకున్న మురుగునీటినిగ ఉంట కాలువల ద్వారా యింకాని నీటిని బయటికి పంపాలి.
 5. నేల స్వభావం జ్వారం అయినందున చూడు తగ్గించేందుకు ఎకరాకుటన్నుల జప్తంను పొడిచేసి పొలంలో వేసి బాగా దుక్కి చేయాలి. తరువాత మడులు కట్టి సేద్యపు నీటిని పైట్టి యింకునట్లు చేయాలి. 24 గం॥ల తరువాత ఇంకని నీటిని ఉంట కాలువల ద్వారా బయటికి పంపాలి.
 6. ఊంటాకోపం ఉన్నచోట ఎకరాకు 20 కిలోలు జంతు సల్ఫేటును దుక్కిలో వేసి కలియదున్నాలి.
 7. నేల స్వభావం అమ్మత్తం అయినందున దాని నివారణకు ఎకరాకు కిలోల సల్ఫేటును పొడిచేసి నేలపై జల్లి బాగా కలియదున్నాలి.
 8. ఇతర మూలకాలు దగ్గరలో ఉన్న వ్యవసాయాధికారి వారిని సంప్రదించండి.
- సూచన : ఎరువుల భూసార పరీక్షలు చేయించుకోవలసిన సమయము _____
- (..... పంట కాలములకు ఒకసారి)

భూసార పరీక్షా కేంద్రం, ఆమదాలవలస

Water Sprinkling on Haul Roads



TEAM

ORIGINAL

Form No. TCLL/GF RF-136

Labs and Consultants

4551

Registered Office :

B-115, 116, 117 & 509, Annapoorna Block, Aditya Enclave, Ameerpet, Hyderabad - 530038.
 Ph. : (O) 040-23748555 / 23748616, Fax : 040-23748666, Email : teamlabs@gmail.com
 ISO 9001 : 2008, ISO 14001 : 2004 and OHSAS 18001 : 2007 Certified Organization
 Laboratory Recognised by Ministry Environment, Forests and Climate Change, Gol, New Delhi

TEST REPORT

Test Report No. TLC/V/Env/TSPL/12/0318

dt 04.04.2018

Description of Test:

Analysis of Heavy metal in TCLP (Toxicity Characteristic Leaching Procedure) extract

Name of the client:

Trimex Sands Pvt. Ltd. Vatchavalasa, Srikakulam Dt.

Date of Collection:

13.03.2018

Sample Description:

Raw materials & Tailings samples

Test Method:

USEPA Test Method-1311

SNo.	PARAMETER	UNIT	RESULT Extraction with Fluid-II At pH 4.9	
			Raw material (ROM)	Tailings
1	Total Chromium	Mg/l	0.09	0.08
2	Cr ⁶⁺	Mg/l	NIL	NIL
3	Zinc	Mg/l	0.07	0.05
4	Cadmium	Mg/l	NIL	NIL
5	Lead	Mg/l	0.10	0.09
6	Copper	Mg/l	NIL	NIL
7	Iron	Mg/l	0.22	0.18
8	Cobalt	Mg/l	NIL	NIL
9	Nickel	Mg/l	NIL	NIL
10	Manganese	Mg/l	0.35	0.26
11	Arsenic	Mg/l	NIL	NIL
12	Mercury	Mg/l	NIL	NIL

For TEAM Labs and Consultants



Labs and Consultants**Registered Office :**

B-115, 116, 117 & 509, Annapoorna Block, Aditya Enclave, Ameerpet, Hyderabad - 530038.

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ISO 9001 : 2008, ISO 14001 : 2004 and OHSAS 18001 : 2007 Certified Organization

Laboratory Recognised by Ministry Environment, Forests and Climate Change, Gov, New Delhi

TEST REPORT

Test Report No. TLC/V/Env/TSPL/12/1217

dt06.01.2018

Description of Test:

Analysis of Heavy metal in TCLP (Toxicity Characteristic Leaching Procedure) extract

Name of the client:

Trimex Sands Pvt. Ltd. Vatchavalasa, Srikakulam Dt.

Date of Collection:

25.12.2017

Sample Description:

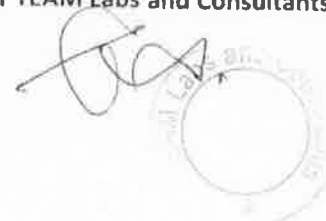
Raw materials & Tailings samples

Test Method:

USEPA Test Method-1311

SNo.	PARAMETER	UNIT	RESULT Extraction with Fluid-II At pH 4.9	
			Raw material(ROM)	Tailings
1	Total Chromium	Mg/l	0.08	0.07
2	Cr ⁶⁺	Mg/l	NIL	NIL
3	Zinc	Mg/l	0.09	0.06
4	Cadmium	Mg/l	NIL	NIL
5	Lead	Mg/l	0.12	0.11
6	Copper	Mg/l	NIL	NIL
7	Iron	Mg/l	0.19	0.17
8	Cobalt	Mg/l	NIL	NIL
9	Nickel	Mg/l	NIL	NIL
10	Manganese	Mg/l	0.38	0.25
11	Arsenic	Mg/l	NIL	NIL
12	Mercury	Mg/l	NIL	NIL

For TEAM Labs and Consultants



COMPLIANCE TO THE PUBLIC HEARING OF SRIKURMAM MINERAL SANDS MINE OF TRIMEX SANDS PVT. LTD CONDUCTED ON 29.12.2012

S.No	Suggestions/Objections	Response from Project Proponent	Action Plan Along with Financial Budget	Compliance
1	<p>Sri TalapaguVenkata Ramana, SARD, NGO, Kotabommali</p> <p>He welcomed the project and stated that they are not against industrialization. There was migration of people in the area to Rangoon, Gujarat places for employment. He opined that, M/s Trimex industries has implement well as part of CSR activities. He requested the management to provide employment to skilled and unskilled people in the nearby area</p>	<p>Dr. N.L.Rao, Head (Liaison), M/s Trimex Sands Pvt. Ltd expressed his thankfulness and promised to continue the CSR activities with the same commitment in future also. He promised that they will provide jobs for the local people.</p>	<p>Action Plan Vocational training to youth. Employees will be provided with higher education facilities which will enhance their skills.</p> <p>Budget: MinimumRs.2.0 Crores every year towards CSR activities.</p> <p>Timeframe: Every year</p>	<p>Complied. 1.68 Crores spent towards CSR activities & 3.68 Crores to the State Govt. for undertaking Social upliftment works in the mining affected villages under District Mineral Foundation for the FY 2017-18 (Annexure -12)</p>
2	<p>Sri BaratamNageswaraRao, Market Committee Chairman, Srikurmam</p> <p>He welcomed the project and stated that 7 to 8 Panchayats in the area are getting benefited due to M/s Trimex Industry. The</p>	<p>Dr. N. L. Rao, Head (Liaison), M/s Trimex Sands Pvt. Ltd expressed his thankfulness and promised to continue with the same</p>	<p>Budget: MinimumRs.2.0 Crores every year towards CSR activities.</p> <p>Timeframe: Every year</p>	<p>Complied. 1.68 Crores spent towards CSR activities & 3.68 Crores to the State Govt. for undertaking Social upliftment works in the mining affected villages under District</p>

	industry providing livelihood to labor and fisherman community	commitment in future also.		Mineral Foundation for the FY 2017-18 (Annexure -12)
3	Smt. Lopinti Lakshmi, Chintavalasa (v) She expressed her happiness and stated that the management is providing health facilities and treating ailments to the local villagers. She stated that, the management has provided medical facilities to 30 people of her village and also developing the schools in the area as a part of CSR activities.	Dr. N. L. Rao, Head (Liaison), M/s Trimex Sands Pvt. Ltd expressed his thankfulness and promised to continue with the same commitment in future also.	Budget: Minimum Rs.2.0 Crores every year towards CSR activities. Timeframe: Every year	Complied. 1.68 Crores spent towards CSR activities & 3.68 Crores to the State Govt. for undertaking Social upliftment works in the mining affected villages under District Mineral Foundation for the FY 2017-18 (Annexure -12)
4	Sri RanaSrinivas, MPTC, Chintavalasa (v) He welcomed the project and stated that the management has provided employment, laying of roads and other facilities in the surrounding villages.	Dr. N. L. Rao, Head (Liaison), M/s Trimex Sands Pvt. Ltd expressed his thankfulness and promised to continue with the same commitment in future also.	Action Plan The management has assured that the development of road and other infrastructure facilities will also be taken up in their proposed CSR activities	Complied.
5	Sri TelukutiManohar, Pedavatsavalasa (v) He welcomed the project and informed that he was	Dr. N. L. Rao, Head (Liaison), M/s Trimex Sands Pvt. Ltd	Action Plan The management has assured that the impact on the environment will be	Complied. 1.68 Crores spent towards CSR activities & 3.68 Crores to the State Govt. for undertaking

	<p>at other places before the establishment of M/s Trimex sands and at present the company provided employment to him. He informed that there are no pollution problems in the industry premises during its operations. There is no sea water intrusion in this area; the quality is good at the well provided in their village. He also informed that the management has provided temple, medical facilities to the local people as a part of CSR activities.</p>	<p>expressed his thankfulness and promised to continue with the same commitment in future also.</p>	<p>maintained at minimum by taking all possible care and mitigation measures.</p> <p>Budget: MinimumRs.2.0 Crores every year towards CSR activities.</p> <p>Timeframe: Every year</p>	<p>Social upliftment works in the mining affected villages under District Mineral Foundation for the FY 2017-18 (Annexure -12)</p>
6	<p>Sri TaniVenkataApparao, PedaTulugu (v)</p> <p>He welcomed that project and stated that there is no problem due to existing operations of the industry and provided employment to the local people.</p>	<p>Dr. N. L. Rao, Head (Liaison), M/s Trimex Sands Pvt. Ltd expressed his thankfulness and promised to continue with the same commitment in future also.</p>	<p>Action Plan</p> <p>The management has assured that the impact on the environment will be maintained at minimum by taking all possible care and mitigation measures.</p> <p>Budget: MinimumRs.2.0 Crores every year towards CSR activities.</p> <p>Timeframe: Every year</p>	<p>Complied. 1.68 Crores spent towards CSR activities & 3.68 Crores to the State Govt. for undertaking Social upliftment works in the mining affected villages under District Mineral Foundation for the FY 2017-18 (Annexure -12)</p>

7	<p>Sri M. AnandaRao, Fisherman Community, Komaravanipeta (v)</p> <p>He expressed his grievance and stated that due to mining activity tsunami may come and this may affect their village first. He informed that the management has not provided any employment to their community. He stated that, the industry is carrying out mining activity in 10 acres of land in Tonangi village and has not provided any facilities under CSR activity. Finally, he requested the management to provide pension to the old people, drinking water and medical facilities to the nearby villagers. He opined that, most of the people migrating to Gujarat and other areas for employment due to lack of fish catch.</p>	<p>Dr. N. L. Rao, Head (Liaison), M/s Trimex Sands Pvt. Ltd informed that Tsunami would not arise due to sand mining and this industry is environment friendly unit and also informed that the management would look into the employment of people in Tonangi village in their expansion project.</p>	<p>Action Plan</p> <p>The management has assured that needs of their villages will also be taken in their proposed CSR activities. Budget: MinimumRs.2.0 Crores every year towards CSR activities.</p> <p>Timeframe: Every year</p>	<p>Complied. 1.68 Crores spent towards CSR activities & 3.68 Crores to the State Govt. for undertaking Social upliftment works in the mining affected villages under District Mineral Foundation for the FY 2017-18 (Annexure -12)</p>
8	<p>Sri T. SanthaRao, Tulugu (v)</p> <p>He stated that, M/s Trimex</p>	<p>Dr. N. L. Rao, Head (Liaison), M/s Trimex</p>	<p>Action Plan</p> <p>The management has assured that needs of their villages will also</p>	<p>Complied. 1.68 Crores spent towards CSR activities & 3.68 Crores to the State</p>

	Industry has done well in the area by implementing so many activities under CSR. He opined that, due to establishment of M/s Trimex industry migration of people for their livelihood is reduced. He welcomed the expansion of the proposed project.	Sands Pvt. Ltd expressed his thankfulness and promised to continue with the same commitment in future also.	be taken in their proposed CSR activities. Budget: MinimumRs.2.0 Crores every year towards CSR activities. Timeframe: Every year	Govt. for undertaking Social upliftment works in the mining affected villages under District Mineral Foundation for the FY 2017-18 (Annexure -12)
9	Sri KurumanaAppaRao, Chintavalasa (v) He expressed his happiness and stated that M/s Trimex Industries has provided employment, medical facilities and requested the management to provide slab to Government school in their village.	Dr. N. L. Rao, Head (Liaison), M/s Trimex Sands Pvt. Ltd expressed his thankfulness and promised that the management would consider the suggestion given.	Action Plan The management has assured that needs of their villages will also be taken in their proposed CSR activities. Budget: MinimumRs.2.0 Crores every year towards CSR activities. Timeframe: Every year	Complied. 1.68 Crores spent towards CSR activities & 3.68 Crores to the State Govt. for undertaking Social upliftment works in the mining affected villages under District Mineral Foundation for the FY 2017-18 (Annexure -12)
10	Sri KomaraKorlayya, Komaravanipeta (v) He requested the management to provide 50 cents land to Ashramam and drinking water facility to their village.	The management would consider the suggestion given.		Not applicable under CSR activities.
11	Sri KoyyanaJagadeesh, Koyyanapeta (v)	The management after understanding the grievance said by	Action Plan The management has assured that needs of	Complied. 1.68 Crores spent towards CSR activities & 3.68

	He expressed his grievance and stated that the nearby farmers have lost their crops and there are no developmental activities due to the operation of the industry. He requested to provide agricultural instruments to farmers.	the farmers has suggested that the necessary training in technical aspects will be provided to the local farmers and necessary guidance will also be provided by the local agricultural officers.	their villages will also be taken in their proposed CSR activities. Budget: MinimumRs.2.0 Crores every year towards CSR activities. Timeframe: Every year	Crores to the State Govt. for undertaking Social upliftment works in the mining affected villages under District Mineral Foundation for the FY 2017-18 (Annexure -12)
12	Sri D. Simhadri, Tulugu (v) He requested the management to provide further employment in the expansion of the proposed project.	The management has already provided employment for 1200 people and promised to provide more employment for the proposed project.	Action Plan The management has assured that needs of their villages will also be taken in their proposed CSR activities. Budget: MinimumRs.2.0 Crores every year towards CSR activities. Timeframe: Every year	Complied. 1.68 Crores spent towards CSR activities & 3.68 Crores to the State Govt. for undertaking Social upliftment works in the mining affected villages under District Mineral Foundation for the FY 2017-18 (Annexure -12)
13	Sri Koyyana, Satyanarayana, Tulug (v) He requested the management to develop local panchayat and provide employment to women also in the industry.	The suggestions provided by the local panchayat has been accepted and it is committed to provide local employment to woman folk of the area,		Complied.
14	Sri TelukutiAppaRao, Peda Vatsavalasa (v)	Dr. N. L. Rao, Head (Liaison), M/s Trimex	Action Plan Adequate protective measures will be	Complied. 1.68 Crores spent towards CSR activities & 3.68

	<p>He informed that, the industry has co-operated well to the farmers by giving water for their agricultural crops. He requested the management to take precautionary measures for control of pollution problems and to develop their area as part of CSR activities.</p>	<p>Sands Pvt. Ltd expressed his thankfulness and stated that the management will take all the precautionary measures for pollution problems and will develop their area as a part of CSR activity.</p>	<p>taken up to avoid any pollution from the proposed activities. The management has assured that needs of their villages will also be taken in their proposed CSR activities. Budget: Minimum Rs.2.0 Crores every year towards CSR activities.</p> <p>Timeframe: Every year</p>	<p>Crores to the State Govt. for undertaking Social upliftment works in the mining affected villages under District Mineral Foundation for the FY 2017-18 (Annexure -12)</p>
15	<p>Sri. G. Vijay Reddy, READS, NGO, Hyderabad</p> <p>He opined that deeper mining activity may cause ground water pollution due to sea water intrusion. Management has to take necessary steps in filling the mined out area to reduce groundwater pollution. He also opined that, the use of 1, 800 KL of water per day from Vamsadhara River may cause water scarcity in the surrounding areas for agricultural and drinking water purposes. He requested the</p>	<p>The management has suggested that a comprehensive hydrogeological study has been carried out by ENVID group of Andhra University and precautionary measures suggested in the report will be adhere to. All mined out pits would be refilled concurrently. Water is drawn from a point at Vamsadhara river, where no water drawal for irrigation is existing downstream. Apart from that</p>	<p>Total capital cost and annual recurring cost towards pollution control measures/ monitoring, occupational health & safety, reclamation, green belt development etc would be Rs1064 lakhs and Rs1616 lakhs respectively.</p>	<p>Complied. The recurring expenditure incurred against the environmental protection measure/monitoring for the year 2017-18 is 1302.06 Lakhs. (Annexure-14).</p>

	<p>management to store rainwater and the stored water may use for industrial purpose. He suggested developing tree plantation on both sides of the roads to reduce air pollution. He also suggested providing separate fund to workers who are working in their factory for emergency use.</p>	<p>rainwater harvesting structures will also be developed in the project area and awareness creation will also be carried out in nearby villages to augment and catch the rainwater for future use.</p>		
16	<p>Sri KundiSuuryanarayana, Perlavanipeta (v), Ex-sarpanch</p> <p>He stated that the fisherman would be affected due to sand mining operations and further deepening of mining activity up to 4-5 m would affect the fishermen community.</p>	<p>The management informed that adequate measures will be adopted to minimize the impacts of mining operation on fishing activity.</p>	<p>Total capital cost and annual recurring cost towards pollution control measures/monitoring, occupational health & safety, reclamation, green belt development etc would be Rs1064 lakhs and Rs1616 lakhs respectively.</p>	<p>Complied.</p> <p>The recurring expenditure incurred against the environmental protection measure/monitoring for the year 2017-18 (up to September, 2017) is 697.96 Lakhs. (Annexure-14).</p>
17	<p>Sri BandiRamu, Mugadlapadu (v)</p> <p>He opined that the industry is implementing the CSR activities in the nearby villages due to pollution problems from the industry operations. He expressed that the mining activity beyond 4</p>	<p>The management informed that all the precautionary measures for pollution problems will be taken and will develop their area as a part of CSR activity. A comprehensive hydrogeological study</p>	<p>The management has assured that need based CSR activities will be continued by spending about Rs.2.0 Crores/year.</p> <p>Total capital cost and annual recurring cost towards pollution control measures/</p>	<p>Complied. 1.68 Crores spent towards CSR activities & 3.68 Crores to the State Govt. for undertaking Social upliftment works in the mining affected villages under District</p>

	<p>m, may cause pollution and other problems for the fishermen community. He also opined that, deeper mining activity may cause Tsunami to this area. He opined that, though there are skilled persons available in the area, the management is not providing employment to them. He expressed that, the old people in the area are suffering from joint pains and other ailments. He also felt that due to mining activity, the fisherman in this area is losing their livelihood.</p>	<p>has been carried out by ENVID group of Andhra University and precautionary measures suggested in the report will be adhere to. The management informed that adequate measures will be adopted to minimize the impacts of mining operation on fishing activity</p>	<p>monitoring, occupational health & safety, reclamation, green belt development etc would be Rs1064 lakhs and Rs1616 lakhs respectively.</p>	<p>Mineral Foundation for the FY 2017-18 (Annexure -12) The recurring expenditure incurred against the environmental protection measure/monitoring for the year 2017-18 is 1302.06 Lakhs. (Annexure-14).</p>
18	<p>Sri GunduRaghuram, Ex. MPP, Ampolu (v)</p> <p>He stated that the industry has put its effort in solving the difficulties of people in the nearby areas. He requested to provide further employment in expansion project also.</p>	<p>Dr. N. L. Rao, Head (Liaison), M/s Trimex Sands Pvt. Ltd expressed his thankfulness and stated that the management will take all possible ways to improve employment and will develop their area as a part of CSR activity.</p>	<p>The management has assured that need based CSR activities will be continued by spending about Rs.2.0 Crores/year.</p>	<p>Complied. 1.68 Crores spent towards CSR activities & 3.68 Crores to the State Govt. for undertaking Social upliftment works in the mining affected villages under District Mineral Foundation for the FY 2017-18 (Annexure -12)</p>
19	<p>Sri M. Krishna Murthy, Congress President, Gara (v)</p>	<p>Dr. N. L. Rao, Head (Liaison), M/s Trimex Sands Pvt. Ltd</p>	<p>The management has assured that need based CSR activities</p>	<p>Complied. 1.68 Crores spent towards CSR activities & 3.68</p>

	<p>He stated that new industries are necessary for development of Srikakulam district. The people in this area are benefited due to establishment of M/s Trimex Industry and the management has provided infrastructure facilities to fishermen like construction of temple, school and hospital under CSR activities. He requested the management, that they should clear apprehensions of the people with regard to the mining activity and other problems. He finally requested to develop their villages in all aspects.</p>	<p>expressed his thankfulness and stated that the management will take all the precautionary measures for pollution problems and will develop their area as a part of CSR activity.</p>	<p>will be continued by spending about Rs.2.0 Crores/year. Total capital cost and annual recurring cost towards pollution control measures/monitoring, occupational health & safety, reclamation, green belt development etc would be Rs1064 lakhs and Rs1616 lakhs respectively.</p>	<p>Crores to the State Govt. for undertaking Social upliftment works in the mining affected villages under District Mineral Foundation for the FY 2017-18 (Annexure -12) The recurring expenditure incurred against the environmental protection measure/monitoring for the year 2017-18 is 1302.06 Lakhs. (Annexure-14).</p>
20	<p>Smt. RangarajuVani, Srikurmam (v)</p> <p>She stated that the management has taken up developmental activities in the area and the expansion of the project also would develop further in this area.</p>	<p>Dr. N. L. Rao, Head (Liaison), M/s Trimex Sands Pvt. Ltd expressed his thankfulness and stated that the management will take all means to develop their area as a part of CSR activity.</p>	<p>The management has assured that need based CSR activities will be continued by spending about Rs.2.0 Crores/year.</p>	<p>Complied. 1.68 Crores spent towards CSR activities & 3.68 Crores to the State Govt. for undertaking Social upliftment works in the mining affected villages under District Mineral Foundation</p>

				for the FY 2017-18 (Annexure -12)
12	Sri Neeranjanalu He stated that the fisherman would be affected due to sand mining operations and further deepening beyond 4 m would further affect fishermen community. He opined that, the management is not providing employment to fisherman community due to lack of educational qualifications. He requested the management not to go beyond the deeper levels upto red sand.	Dr. N. L. Rao, Head (Liaison), M/s Trimex Sands Pvt. Ltd stated that the management will take all the precautionary measures for pollution problems and will develop their area as a part of CSR activity. The management informed that adequate measures will be adopted to minimize the impacts of mining operation on fishing activity	The management has assured that need based CSR activities will be continued by spending about Rs.2.0 Crores/year. Total capital cost and annual recurring cost towards pollution control measures/ monitoring, occupational health & safety, reclamation, green belt development etc would be Rs1064 lakhs and Rs1616 lakhs respectively.	Complied. 1.68 Crores spent towards CSR activities & 3.68 Crores to the State Govt. for undertaking Social upliftment works in the mining affected villages under District Mineral Foundation for the FY 2017-18 (Annexure -12) The recurring expenditure incurred against the environmental protection measure/monitoring for the year 2017-18 is 1302.06 Lakhs. (Annexure-14).
22	Sri. K. Raju, MPTC, Srikurmam (v) He stated that industrialization is necessary for development of this area. He opined that the people in this area are benefited due to establishment of	Dr. N. L. Rao, Head (Liaison), M/s Trimex Sands Pvt. Ltd expressed his thankfulness and stated that the management will continue to develop their area as a part of CSR activity.	The management has assured that need based CSR activities will be continued by spending about Rs.2.0 Crores/year. Total capital cost and annual recurring cost towards pollution control measures/	Complied. 1.68 Crores spent towards CSR activities & 3.68 Crores to the State Govt. for undertaking Social upliftment works in the mining affected villages under District

	<p>M/s Trimex Industry. He stated that the industry has provided infrastructure facilities like roads, temples, schools and hospitals. He requested the people not to fear on natural calamities like tsunami and other cyclones. He requested the management to develop for further to their area.</p>		<p>monitoring, occupational health & safety, reclamation, green belt development etc would be Rs1064 lakhs and Rs1616 lakhs respectively.</p>	<p>Mineral Foundation for the FY 2017-18 (Annexure -12) The recurring expenditure incurred against the environmental protection measure/monitoring for the year 2017-18 is 1302.06 Lakhs. (Annexure-14).</p>
23	<p>Sri GaneswaraRao, Umaravalli (v) He stated that due to lack of industrialization there are no developmental activities in this area and migration for livelihood also increasing. He expressed that, the people in the area are benefited due to establishment of the M/s Trimex Industry and requested the management to remove the silt in the irrigation canals to facilitate the irrigation water for 70 acres of agricultural land of their village.</p>	<p>Dr. N. L. Rao, Head (Liaison), M/s Trimex Sands Pvt. Ltd expressed his thankfulness and stated that the management will take all the precautionary measures for pollution problems and will develop their area as a part of CSR activity.</p>	<p>The management has assured that need based CSR activities will be continued by spending about Rs.2.0 Crores/year. Total capital cost and annual recurring cost towards pollution control measures/ monitoring, occupational health & safety, reclamation, green belt development etc would be Rs1064 lakhs and Rs1616 lakhs respectively.</p>	<p>Complied. 1.68 Crores spent towards CSR activities & 3.68 Crores to the State Govt. for undertaking Social upliftment works in the mining affected villages under District Mineral Foundation for the FY 2017-18 (Annexure -12) The recurring expenditure incurred against the environmental protection measure/monitoring for the year 2017-18 is 1302.06 Lakhs. (Annexure-14).</p>

24	<p>Sri M.saidu Reddy, President of Green Corps Society, Hyderabad</p> <p>He suggested the following to the management:</p> <ol style="list-style-type: none"> 1) Management should allocate CSR fund of 2-5% from the profits. 2) The management should provide greenbelt not only in the industry but in vacant lands to reduce pollution levels. 3) He praised the District Collector for involving in taking up of CSR activities with the industries for developing the Government hostels. 4) The Management should provide computer training programmes to the local students and to educate them in all aspects. 	<p>Dr. N. L. Rao, Head (Liaison), M/s Trimex Sands Pvt. Ltd expressed that the management will take all possible means to address the demands and develop their area as a part of CSR activity.</p> <p>The budgetary allocation will be made as per the need based assessment carried out by the industry.</p>	<p>The management has assured that need based CSR activities will be continued by spending about Rs.2.0 Crores/year.</p> <p>Total capital cost and annual recurring cost towards pollution control measures/ monitoring, occupational health & safety, reclamation, green belt development etc would be Rs1064 lakhs and Rs1616 lakhs respectively.</p>	<p>Complied. 1.68 Crores spent towards CSR activities & 3.68 Crores to the State Govt. for undertaking Social upliftment works in the mining affected villages under District Mineral Foundation for the FY 2017-18 (Annexure -12)</p> <p>The recurring expenditure incurred against the environmental protection measure/monitoring for the year 2017-18 is 1302.06 Lakhs. (Annexure-14).</p>
25	<p>Sri Sunanda Reddy, NGO, Hyderabad</p>	<p>Dr. N. L. Rao, Head (Liaison), M/s Trimex</p>	<p>Need based CSR activities will be</p>	<p>Complied. 1.68 Crores spent towards CSR</p>

	<p>She suggested the following to the management</p> <ol style="list-style-type: none"> 1) The study in the area was carried out as per 2001 census but report to be carried out as per censuses 2011 2) The management proposed mining of 0.5 MTPA of raw sand by minor operations and 5.5 MTPA of raw sand by semi-mechanized method. The management should explore possibility of manual operations so as to increase employment. 3) The proposed BT roads in the project would be damaged in rainy season, so management should explore for laying cement roads. 	<p>Sands Pvt. Ltd expressed his thankfulness and stated that the management will take all the precautionary measures for pollution problems and will develop their area as a part of CSR activity.</p> <p>Census 2011 data has not yet released by the Government. However, the available data from the internet regarding 2011 and primary need based assessment study carried out is utilized in developing the CSR activities in the area.</p> <p>The management has already involved APPCB, District Collector, Panchayat heads and local leaders in order to develop CSR activities in the study area.</p> <p>Entire mined out lands would be</p>	<p>continued by spending about Rs.2.0 Crores/year.</p> <p>Total capital cost and annual recurring cost towards pollution control measures/monitoring, occupational health & safety, reclamation, green belt development etc would be Rs1064 lakhs and Rs1616 lakhs respectively.</p>	<p>activities & 3.68 Crores to the State Govt. for undertaking Social upliftment works in the mining affected villages under District Mineral Foundation for the FY 2017-18 (Annexure -12)</p> <p>The recurring expenditure incurred against the environmental protection measure/monitoring for the year 2017-18 is 1302.06 Lakhs. (Annexure-14).</p>
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	<p>4) The Management should provide 3-5 crores towards welfare of fisherman community</p> <p>5) The management should co-ordinate and form a committee with local people for implementing SCR activities</p> <p>6) The management should develop greenbelt in 150 acres mined out land every year, so that the total mining area of 720 ha would be covered with greenbelt in 12 years.</p>	refilled and afforested in a scientific manner.		
26	<p>Sri Gopi, Peda Vatsavalasa (v)</p> <p>He welcomed the project and stated that the management should provide further employment to the local people in expansion project. He opined that the extra mining activity will</p>	<p>Dr. N. L. Rao, Head (Liaison), M/s Trimex Sands Pvt. Ltd expressed his thankfulness and stated that the management will take all the precautionary measures for pollution problems and will develop their</p>	<p>The management has assured that need based CSR activities will be continued by spending about Rs.2.0 Crores/year.</p> <p>Total capital cost and annual recurring cost towards pollution control measures/monitoring,</p>	<p>Complied. 1.68 Crores spent towards CSR activities & 3.68 Crores to the State Govt. for undertaking Social upliftment works in the mining affected villages under District Mineral Foundation</p>

	<p>also increase the life time of the project thus increasing employment opportunity to the local people. He also requested the management that they should facilitate the day to day monitoring activity so as to get an idea of sea water intrusion.</p>	<p>area as a part of CSR activity.</p>	<p>occupational health & safety, reclamation, green belt development etc would be Rs1064 lakhs and Rs1616 lakhs respectively.</p>	<p>for the FY 2017-18 (Annexure -12) The recurring expenditure incurred against the environmental protection measure/monitoring for the year 2017-18 is 1302.06 Lakhs. (Annexure-14).</p>
14	<p>Sri Tanmai, Engineering Student, Srikakulam</p> <p>He aggressively stated that after completion of his B.Tech, waited for one year for employment and finally employed in Madhya Pradesh which is far away from his native place. He informed that he got employment in M/s Trimex Sands, he stressed industrialization is required for the development of the district and this may improve the infrastructure facilities in the local area. Finally, he requested the public not to oppose the industrialization for a cause of pollution and</p>	<p>Dr. N. L. Rao, Head (Liaison), M/s Trimex Sands Pvt. Ltd expressed his thankfulness and stated that the management will take all the precautionary measures for pollution problems and will develop their area as a part of CSR activity.</p>	<p>Action Plan Vocational training will be provided to youth. Employees will be provided with higher education facilities which will enhance their skills.</p> <p>Budget: Minimum Rs.2.0 Crores every year towards CSR activities.</p> <p>Timeframe: Every year</p>	<p>Complied. 1.68 Crores spent towards CSR activities & 3.68 Crores to the State Govt. for undertaking Social upliftment works in the mining affected villages under District Mineral Foundation for the FY 2017-18 (Annexure -12)</p>

	other issues.			
28	<p>Sri Nagabhusanam</p> <p>He welcomed the project and stated that there is no problem with M/s Trimex industries and this will further develop the area.</p>	<p>Dr. N. L. Rao, Head (Liaison), M/s Trimex Sands Pvt. Ltd expressed his thankfulness and stated that the management will take all the precautionary measures for pollution problems and will develop their area as a part of CSR activity.</p>		Complied.
29	<p>Sri P. PentaRao, President of Malamahanadu, Visakhapatnam</p> <p>He welcomed the project and stated that the people should invite industrialization by protecting the environment. He expressed that there is no objection from the people for the expansion of the M/s Trimex Industries, as they are doing developmental activities in the surrounding areas. He requested the management to provide</p>	<p>Dr. N. L. Rao, Head (Liaison), M/s Trimex Sands Pvt. Ltd expressed his thankfulness and stated that the management will further develop their area as a part of CSR activity.</p>		Complied.

	minimum wages to the labor working in the industry as per wages act.			
30	<p>Sri MaddelaChinnayya, Ex-MPTC, Vajrapukotturu (v)</p> <p>He expressed his happiness and stated that M/s Trimex Industry has developed the surrounding areas and there is need of such industry for betterment of the district.</p>	<p>Dr. N. L. Rao, Head (Liaison), M/s Trimex Sands Pvt. Ltd expressed his thankfulness and stated that the management will take all the precautionary measures to control any pollution and will develop their area as a part of CSR activity.</p>	<p>The management has assured that need based CSR activities will be continued by spending about Rs.2.0 Crores/year.</p> <p>Total capital cost and annual recurring cost towards pollution control measures/ monitoring, occupational health & safety, reclamation, green belt development etc would be Rs1064 lakhs and Rs1616 lakhs respectively.</p>	<p>Complied. 1.68 Crores spent towards CSR activities & 3.68 Crores to the State Govt. for undertaking Social upliftment works in the mining affected villages under District Mineral Foundation for the FY 2017-18 (Annexure -12)</p> <p>The recurring expenditure incurred against the environmental protection measure/monitoring for the year 2017-18 is 1302.06 Lakhs. (Annexure-14).</p>
31	<p>SmtLaxmiNarasimha Devi, Ex-MPTC, Tonangi (v)</p> <p>She welcomed the expansion of the industry, as she opined that, there is no pollution problem due to operation of the</p>	<p>Dr. N. L. Rao, Head (Liaison), M/s Trimex Sands Pvt. Ltd expressed his thankfulness and stated that the management will further develop their area as a part of CSR activity.</p>		<p>Complied.</p>

	industry. She requested to provide employment to Tonangi village.			
32	<p>Sri Guntu Laxmayya</p> <p>He expressed his grievance and stated that there would be pollution problems with the industry even though everybody is talking that there is no pollution from the industry. He opined that, the fishermen community would be affected due to operation of the sand mining activities. He stated that, the management has not provided single employment to their village. He requested to provide employment to the coast line village people.</p>	<p>Dr. N. L. Rao, Head (Liaison), M/s Trimex Sands Pvt. Ltd stated that the management will take all possible precautionary measures for pollution problems and will develop their area as a part of CSR activity.</p>	<p>The management has assured that need based CSR activities will be continued by spending about Rs.2.0 Crores/year.</p> <p>Total capital cost and annual recurring cost towards pollution control measures/ monitoring, occupational health & safety, reclamation, green belt development etc would be Rs1064 lakhs and Rs1616 lakhs respectively.</p>	<p>Complied. 1.68 Crores spent towards CSR activities & 3.68 Crores to the State Govt. for undertaking Social upliftment works in the mining affected villages under District Mineral Foundation for the FY 2017-18 (Annexure -12)</p> <p>The recurring expenditure incurred against the environmental protection measure/monitoring for the year 2017-18 is 1302.06 Lakhs. (Annexure-14).</p>
33	<p>Sri Gondu Krishna Murthy, Chairman, District Co-operative Consumer Market</p> <p>He invited the project and stated that the management should provide infrastructure</p>	<p>Dr. N. L. Rao, Head (Liaison), M/s Trimex Sands Pvt. Ltd expressed his thankfulness and stated that the management will take all possible ways to develop their area as a part of CSR activity.</p>	<p>Need based CSR activities will be continued by spending about Rs.2.0 Crores/year.</p>	<p>Complied. 1.68 Crores spent towards CSR activities & 3.68 Crores to the State Govt. for undertaking Social upliftment works in the mining affected villages under District</p>

	facilities and to develop the area. He requested to provide further employment in all villages in the expansion of the project.			Mineral Foundation for the FY 2017-18 (Annexure -12)
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CSR Expenditure from Aril-2017 to March-2018		
S.NO.	Nature of Activity	Amount Spent Rs. (in Lakhs)
1	Self-Employment Training / Educational Infrastructure	36.12
2	Medical Facilities / Infrastructure	26.90
3	Community Welfare Schemes / Infrastructure	20.11
4	Infrastructure like Roads / Irrigation / Hostels	32.02
5	Sports	0.22
6	Donations / Sponsorships	14.33
7	Drinking Water Surrounding Villages	38.55
8	Contribution to District Mineral Foundation Trust	368.09
Grand Total :		536.38

30 April 2015



The District Collector
Srikakulam District

Respected Sir,

Sub: Expansion of Srikurmam Mineral Sand Mine of M/s Trimex Sands Pvt. Ltd., Villages Vatsavalasa & Tonangi, Mandal Gara, District Srikakulam, Andhra Pradesh (720 Ha) (2.0 MTPA to 6.0 MTPA) – EC and CRZ Clearances - Regarding.

Ref:

1. Environmental Clearance issued by the Ministry of Environment, Forest and Climate Change, Impact Assessment Division, Govt. of India, vide letter F. No: 11015/175/2011-IA.II (M), Dt: 17-04-2015.
2. CRZ Clearance issued by the Ministry of Environment, Forests and Climate Change (IA. III Section), Govt. of India, vide letter F. No: 11-67/2013-IA.III Dt: 28-04-2015.

We wish to inform you for the expansion of Srikurmam Mineral Sands Project 2.0 MTPA to 6.0 MTPA) at Villages Vatsavalasa & Tonangi in Gara Mandal in Srikakulam District, Andhra Pradesh, the Ministry of Environment, Forests and Climate Change (MoEF), Impact Assessment Division, & IA.III Section, Govt. of India has granted the Environmental Clearance vide letter F. No: 11015/175/2011-IA.II (M), Dt: 17-04-2015 (enclosed as Annexure-1) and CRZ Clearance vide letter F. No: 11-67/2013-IA.III Dt: 28-04-2015 (enclosed as Annexure-2)

We are herewith submitting the copies of the same for your reference and record please.

Further, as stipulated under sub point (xiv) of point no.11 in EC & sub point (i) of point no. 7 in CRZ under General Conditions of the clearance letters, we hereby request to display the above clearance letters in your office notice board for 30 days.

Thanking You,
Yours Truly.

For Trimex Sands Pvt. Limited

30/04/2015

Vice President (Mines)

Encl:

Annexure-1 : Environmental Clearance letter F. No: 11015/175/2011-IA.II (M), Dt: 17-04-2015

Annexure-2 : CRZ Clearance vide letter F. No: 11-67/2013-IA.III Dt: 28-04-2015

Copy To:

- 1) AP State Pollution Control Board, Vizianagaram
- 2) The General Manager, District Industries Centre, Srikakulam.

Trimex Sands Pvt Ltd:

Plot No. 56, Telugu Musalaya Layout, Adithya Nagar, Arasavilli Road, Srikakulam-532001, Andhra Pradesh, India
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Tel: +91 44 2498 8813/22, Fax: 2498 6047 Web: www.trimexgroup.com

ACKNOWLEDGEMENT

Received Environmental Clearance Letter F. No: 11015/175/2011-IA.II (M), Dt: 17-04-2015, of Ministry of Environment, Forests and Climate Change (IA Division), & CRZ Clearance Letter F. No: 11-67/2013-IA.III Dt: 28-04-2015, of Ministry of Environment, Forests and Climate Change (IA III Section), Govt. of India has granted Environmental Clearance/ CRZ Clearance for Expansion of Srikurmam Mineral Sand Mine at Villages Vatsavalasa & Tonangi in Gara Mandal in Srikakulam District in Andhra Pradesh by M/s Trimex Sands Pvt. Ltd.

S.No	Name of the Office	Signature with Stamp
1	Office of the District Collector & Magistrate, Srikakulam District.	
2	Office of the Environment Engineer, AP State Pollution Control Board, Vizianagaram.	
3	Office of the General Manager, District Industries Centre, Srikakulam.	



Expenditure for Environmental Measures

Recurring Expenditures		
S.No	Description	During the Period April,2017 - March,2018 (in Lakhs.)
1	Environmental Monitoring – Air, Water & Noise (outsourced).	1.73
2	Dust suppression on roads in factory	7.80
3	PPE cost for dust and sound (dust masks, ear muffs, etc.).	3.59
4	De dusting & Bag filter –addition of bag filter and maintenance.	0.15
5	Expenditure on refilling / pumping from PCP, leveling by dozer.	158.79
6	Slime management cost in mines.	685.75
7	Thickener Operation.	231.21
8	Afforestation, Nursery maintenance (Seeds, Saplings, Manure, Watering, Wages etc.)	208.07
9	Fencing 100mts from HTL	4.97
Total :		1302.06



भारत सरकार
Government of India
वाणिज्य और उद्योग विभाग
Ministry of Commerce & Industry
पेट्रोलियम एवं विस्फोटक सुरक्षा विभाग
Petroleum & Explosives Safety Organisation (PESO)
पेट्रोलियम, एक्सप्लोजिव, एंड डी.डी. विभाग, नए दिल्ली
नागपुर - 440006
3rd Floor, A-Block, CGO Complex, Shaheedy Vihar,
Nagpur - 440006



E-mail: explosives@peso.gov.in
Phone/Fax No: 0712 251024 Fax: 2510577

संख्या No: PNHQ/AP/15/4061 (P332428)

दिनांक: 03/07/2015

गोपनीयता

M/s. Trimes Sands Pvt. Limited,
Plot No. 56, Takapu Mundalappa Layout, Arsaavili Road,
Srikakulam,
District: SRIKAKULAM,
State: Andhra Pradesh
PIN: 532001

विषय /Sub: Survey No. 144 P (Old 818), Gara, Tonangi, Gara, District: SRIKAKULAM, State: Andhra Pradesh, PIN: 532404 में पेट्रोलियम वर्ग B का अधिग्रहण -अनुमति जारी करने के बारे में।
Petroleum Class B Installation at Survey No. 144 P (Old 818), Gara, Tonangi, Gara, District: SRIKAKULAM, State: Andhra Pradesh, PIN: 532404 Grant of License regarding

संदर्भ (s)

कृपया आपके पर संदर्भ TR/ME/TONANGU/CCE दिनांक 25/08/2015 का उल्लेख करें।
Please refer to your letter No TR/ME/TONANGU/CCE dated 25/08/2015

विशेषतः अधिग्रहण में विनियमित पेट्रोलियम वर्ग B के वर्ग तथा शर्तों के संशोधन के लिए पेट्रोलियम नियम, 2002 के अधीन परम - XV में स्वीकृत दिनांक 31/12/2024 तक एक अनुमति संख्या PNHQ/AP/15/4061 (P332428) दिनांक 03/07/2015 को जारी की गई है।

Licence No PNHQ/AP/15/4061 (P332428) dated 03/07/2015 granted in Form XV under the Petroleum Rules, 2002 and valid till 31/12/2024 for the storage of the following kinds and quantities of Petroleum at the subject Installation is forwarded herewith

पेट्रोलियम का विवरण /Description of Petroleum

दैनिकीय अनुमति /Quantity Licensed in KL

वर्ग A पेट्रोलियम /Petroleum Class A in bulk	NIL
वर्ग A पेट्रोलियम से अलग /Petroleum Class A otherwise than in bulk	NIL
वर्ग B पेट्रोलियम /Petroleum Class B in bulk	40.00 KL
वर्ग B पेट्रोलियम से अलग /Petroleum Class B, otherwise than in bulk	NIL
वर्ग C पेट्रोलियम /Petroleum Class C in bulk	NIL
वर्ग C पेट्रोलियम से अलग /Petroleum Class C otherwise than in bulk	NIL
कुल क्षमता /Total Capacity	40.00 KL

कृपया पेट्रोलियम नियम 2002 के अधीन परम 148 में दी गई प्रक्रिया का पालन करें और अनुमति के नवीकरण हेतु आवश्यक दस्तावेजों को अनुमति की वैधता समाप्त की तारीख या इससे पूर्व Dy. C of Controller of Explosives, Visakhapatnam को प्रेषित करें।

Please follow the procedure strictly as laid down in rule 148 of the Petroleum Rules, 2002 and submit complete documents for the Renewal of the licence to Dy. Chief Controller of Explosives, Visakhapatnam as so to reach his office on or before the date on which licence expires

यह अनुमति/अनुमति अन्य अधिकारियों से आवश्यक अनुमति/स्वीकृति प्राप्त करने से या याचक द्वारा अन्य विधियों से छूट नहीं देती है।

This approval/permission, however, does not absolve from obtaining necessary permission/clearance from other authorities or under other statutes as applicable

प्रमुख विस्फोटक विभाग

(J. Sarkar)
J. Sarkar, Dy. Co-
Controller of Explosives
एन.ए. विभाग
For Chief Controller of Explosives
नागपुर
Nagpur

Copy forwarded to :-

- 1 The District Magistrate, SRIKAKULAM (Andhra Pradesh) with reference to his NOC No D Dis No 266/2013 Dated 09/12/2014
- 2 Jt. Chief Controller of Explosives, South Circle Office, CHENNAI. A Copy of the licence along with approved plan is enclosed
- 3 Dy. Chief Controller of Explosives, Visakhapatnam, VISAKHAPATNAM. A Copy of the licence along with approved plan is enclosed

For Chief Controller of Explosives
Nagpur

(अधिक जानकारी और आवेदन की स्थिति, शुल्क तथा अन्य विवरण के लिए हमारी वेबसाइट <http://peso.gov.in> देखें।)
(For more information regarding status, fees and other details please visit our website <http://peso.gov.in>)

प्ररूप XV
(प्रथम अनुसूची का अनुच्छेद 6 दीखेए)
FORM XV
(see Article 6 of the First Schedule)

अधिहापनों में पेट्रोलियम के आयात और भण्डारकरण के लिए अनुमति
LICENCE TO IMPORT AND STORE PETROLEUM IN AN INSTALLATION

अनुमति स. (Licence No.) : P/HQ/AP/15/4061(P332428)

फीस रूपए (Fee Rs) 100 /- per year

M/s. Trimex Sands Pvt. Limited, Plot No. 56, Telugu Musdalayya Layout, Arasavilli Road, , Srikakulam, District: SRIKAKULAM, State: Andhra Pradesh, PIN: 532001 को केवल इरामें यथा विनिर्दिष्ट वर्ग और मात्राओं में पेट्रोलियम 40.00 KL आयात करने के लिए और उसका, नीचे वर्णित और अनुमोदित मात्रा सख्या P/HQ/AP/15/4061(P332428) तारीख 03/07/2015 जो कि इससे उपाबद्ध है, में दिखाए गए स्थान पर भण्डारकरण के लिए पेट्रोलियम अधिनियम, 1934 के उपबंधों या उसके अधीन बनाए गए नियमों तथा इस अनुमति की अतिरिक्त शर्तों के अधीन रहते हुए, यह अनुमति अनुदान की जाती है।

Licence is hereby granted to M/s. Trimex Sands Pvt. Limited, Plot No. 56, Telugu Musdalayya Layout, Arasavilli Road, , Srikakulam District: SRIKAKULAM, State: Andhra Pradesh, PIN: 532001 valid only for the importation and storage of 40.00 KL Petroleum of the class and quantities as herein specified and storage thereof in the place described below and shown on the approved plan No P/HQ/AP/15/4061(P332428) dated 03/07/2015 attached hereto subject to the provisions of the Petroleum Act, 1934 and the rule made thereunder and to the further conditions of this Licence.

यह अनुमति 31st day of December 2024 तक प्रवृत्त रहेगी।
The Licence shall remain in force till the 31st day of December 2024

पेट्रोलियम का विवरण /Description of Petroleum	अनुमति मात्रा (किलोलीटरों में) /Quantity licenced in KL
वर्ग क प्रपुंज पेट्रोलियम /Petroleum Class A in bulk	NIL
वर्ग क प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class A, otherwise than in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम /Petroleum Class B in bulk	40.00 KL
वर्ग ख प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class B, otherwise than in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम /Petroleum Class C in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class C, otherwise than in bulk	NIL
कुल क्षमता /Total Capacity	40.00 KL

July 3, 2015


For Chief Controller of Explosives
H. J. Nagpur

अनुमति परिसरों का विवरण और अवस्थान
DESCRIPTION AND LOCATION OF THE LICENSED PREMISES

अनुमति परिसर जिसकी विन्यास सीमाएं अन्य विशिष्टां संलग्न अनुमोदित नक्शों में दिखाई गई हैं Survey No: 144 P (Old 618), Gara, Tonangi, Gara, District: SRIKAKULAM, State: Andhra Pradesh, PIN: 532404 स्थान पर अवस्थित है तथा उसमें निम्नलिखित Two nos. of above ground tank(s) for petroleum Class-B and other connected facilities. सम्मिलित हैं।

The licensed premises, the layout, boundaries and other particulars of which are shown in the attached approved plan are situated at Survey No: 144 P (Old 618), Gara, Tonangi, Gara, District: SRIKAKULAM, State: Andhra Pradesh, PIN: 532404 and consists of Two nos. of above ground tank(s) for petroleum Class-B and other connected facilities, together with connected facilities.

अनुज्ञति संख्या-(Licence No.) PHQ/AP/16/4061 (P332428)

नवीनीकरण के प्रमाण के लिए स्थान
SPACE FOR ENDORSEMENT OF RENEWALS

पेट्रोलियम अधिनियम, 1934 के उपबन्धों या उनके अधीन बनाए गए नियमों या इस अनुज्ञति की शर्तों का उल्लंघन न होने की दशा में यह अनुज्ञति जिस में बिना किसी छूट के दस वर्ष तक नवीकृत की जा सकेगी।
This licence shall be renewable without any concession in fee for ten years in the absence of contravention of any provisions of the Petroleum Act, 1934 or of the rules framed thereunder or of any of the conditions of this licence.

नवीकरण की तारीख
Date of
Renewal

समाप्ति की तारीख
Date of
Expiry of license

अनुज्ञापन प्राधिकारी के हस्ताक्षर और मुद्रा
Signature and office stamp of the licensing authority

यदि अनुज्ञति परिसर इसमें उपाबद्ध विवरण और शर्तों के अनुरूप नहीं पाए जाते हैं और जिन नियमों और शर्तों के अधीन यह अनुज्ञति मजूर की गई है उनमें से किसी का उल्लंघन होने की दशा में यह अनुज्ञति रद्द की जा सकती है और अनुज्ञतिधारी प्रथम अपराध के लिए साधारण कारावास से, जो एक महीना तक हो सकता है, या जुर्माने से, जो एक हजार रुपये तक हो सकता है, या दोनों से, और प्रत्येक पश्चातवर्ती अपराध के लिए साधारण कारावास से जो तीन महीने तक हो सकता है, या जुर्माने से, जो पांच हजार रुपये तक हो सकता है, या दोनों से, दण्डनीय होगा।

This licence is liable to be cancelled if the licensed premises are not found conforming to the description given on the approved plan attached hereto and contravention of any of the rules and conditions under which this licence is granted and the holder of this licence is also punishable for the first offence with simple imprisonment which may be extend to one month, or with fine which may extend to one thousand rupees, or with both and for every subsequent offence with simple imprisonment which may extend to three months, or with fine which may extend to five thousand rupees or with both.



PETROLEUM AND EXPLOSIVES SAFETY ORGANISATION

पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन

Ministry of Commerce & Industry

Department of Industrial Policy & Promotion



भारत सरकार

Government of India

वाणिज्य और उद्योग मंत्रालय

Ministry of Commerce & Industry

पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पैसो)

Petroleum & Explosives Safety Organisation (PESO)

पूर्व नाम विस्फोटक विभाग

Formerly Department of Explosives

140, रुक्मिणी लक्ष्मीपति रोड, मार्शलस रोड, एगमोर
No.140, Rukmini Laxmipati Road,, Marshalls Road, Egmore,

चेन्नई (Chennai) - 600008

ई मेल (E-mail): jtccechennai@explosives.gov.in

फोन / फैक्स (Phone / Fax): 28514848 / 28514848

संख्या (No.): P/HQ/AP/15/3652(P220971)

तारीख (Date): 3/7/2012

सेवा में (To),

M/s. Trimex Sands Pvt. Ltd.

Mineral Separation Plant, Vatchavalasa Village & Post,

(Via) Srikurmam, Gara Mandal, District - SRIKAKULAM, PIN - 532404

State : Andhra Pradesh .

विषय :- Sy. No. 141-2, Vatchavalasa Village, Gara Mandal जिला SRIKAKULAM राज्य Andhra Pradesh में
विद्यमान पेट्रोलियम वर्ग "" संस्थापन के नवीनीकरण संदर्भ में- अनुज्ञप्ति सं: P/HQ/AP/15/3652(P220971).
Subject Existing Petroleum Class "" installation at Sy. No. 141-2, Vatchavalasa Village, Gara Mandal
:- District : SRIKAKULAM, State : Andhra Pradesh - Licence No.
P/HQ/AP/15/3652(P220971) - Reg Renewal of.

महोदय (Sir),

कृपया अपने पत्र क्रमांक X दिनांक 13/6/2012 का अवलोकन करें.
Please refer to your letter No.: x, dated 13/6/2012.

अनुज्ञप्ति संख्या P/HQ/AP/15/3652(P220971) दिनांक 19/3/2009 दिनांक 31/12/2021 तक नवीनीकृत कर इस पत्र के साथ भेजी जा रही है.
Licence No. P/HQ/AP/15/3652(P220971) dated 19/3/2009 is returned herewith duly renewed upto 31/12/2021.

आपके रूप 2100/- कार्यालय में जमा है जो भविष्य में इसी अनुज्ञप्ति के लिए इस्तेमाल किए जाएंगे.
Your Balance Amount with the Department is Rs.2100/-, which will be used for processing of the same Licence in future.

कृपया पावती दें. (Please acknowledge the receipt.)

भवदीय (Your's faithfully),

आर.वेणुगोपाल (R.Venugopal)
विस्फोटक नियंत्रक (Controller of Explosives)

प्ररूप 15 में अनुज्ञप्ति के साथ निम्नलिखित को प्रतिनिधि में भेजा जा रहा है.
Copy together with a copy of Licence in Form XV is forwarded to -

1.

मुख्य विस्फोटक नियंत्रक, नागपुर
The Chief Controller of Explosives, Nagpur.

2.

उप मुख्य विस्फोटक नियंत्रक, उप अंचल, हैदराबाद
The Dy. Chief Controller of Explosives Hyderabad Sub Circle Office, Hyderabad

(अधिक जानकारी जैसे आवेदन की स्थिति, शुल्क आदि के लिए हमारी वेबसाइट http://peso.gov.in देखें.)
for Jt. Chief Controller of Explosives
(For more information regarding status, fees and other details please visit our website http://peso.gov.in)

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PETROLEUM AND EXPLOSIVES SAFETY ORGANISATION

पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन

Ministry of Commerce & Industry
Department of Industrial Policy & Promotion



भारत सरकार
Government of India

वाणिज्य और उद्योग मंत्रालय
Ministry of Commerce & Industry

पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पेसो)
Petroleum & Explosives Safety Organisation (PESO)

पूर्व नाम विस्फोटक विभाग
Formerly Department of Explosives

140, स्क्रीनि लक्ष्मीपति रोड, मार्शल रोड, एगमोर
No.140, Rukmini Laxmipati Road,, Marshalls Road, Egmore,
चेन्नै (Chennai) - 600008

ई-मेल (E-mail): jtccechennai@explosives.gov.in
फोन / फैक्स (Phone / Fax): 28514848 / 28514848

संख्या (No.): P/HQ/AP/15/3653(P220969)

तारीख (Date): 3/7/2012

सेवा में (To),

M/s. Trimex Sands Pvt. Ltd.

Mineral Separation Plant, Vatchavalasa Village & Post,
(Via) Srikurmam, Gara Mandal, District - SRIKAKULAM, PIN - 532404
State : Andhra Pradesh .

विषय :- Sy. No. 182, Vatchavalasa Village, Gara Mandal जिल्हा SRIKAKULAM राज्य Andhra Pradesh में
विद्यमान पेट्रोलियम वर्ग "B" संस्थापन के नवीनीकरण संदर्भ में अनुज्ञति
सं. P/HQ/AP/15/3653(P220969).

Subject Existing Petroleum Class "B" installation at Sy. No. 182, Vatchavalasa Village, Gara Mandal
District : SRIKAKULAM, State : Andhra Pradesh - Licence No.
P/HQ/AP/15/3653(P220969) - Reg Renewal of.

महोदय (Sir),

कृपया अपने पत्र क्रमांक X दिनांक 12/6/2012 का अवलोकन करें.
Please refer to your letter No.: x, dated 12/6/2012.

अनुज्ञति संख्या P/HQ/AP/15/3653(P220969) दिनांक 25/3/2009 दिनांक 31/12/2021 तक नवीनीकृत कर इस पत्र के साथ भेजी जा रही है-
Licence No. P/HQ/AP/15/3653(P220969) dated 25/3/2009 is returned herewith duly renewed upto 31/12/2021.

आपके खाते 2100/- कार्यालय में जमा है जो भविष्य में इसी अनुज्ञति के लिए इस्तेमाल किए जाएंगे.
Your Balance Amount with the Department is Rs.2100/-, which will be used for processing of the same Licence in future.

कृपया पावती दें. (Please acknowledge the receipt.)

भवदीय (Your's faithfully),

आर.वेणुगोपाल (R.Venugopal)
विस्फोटक नियंत्रक (Controller of Explosives)

कृते संयुक्त मुख्य विस्फोटक नियंत्रक
प्ररूप 15 में अनुज्ञति के साथ निम्नलिखित को प्रतिलिपि में भेजा जा रहा है.
Copy together with a copy of Licence in Form XV is forwarded to -

1. मुख्य विस्फोटक नियंत्रक, नागपुर
The Chief Controller of Explosives, Nagpur.

2. उप मुख्य विस्फोटक नियंत्रक, उप अंचल, हैदराबाद
The Dy. Chief Controller of Explosives, Hyderabad Sub Circle Office, Hyderabad

कृते संयुक्त मुख्य विस्फोटक नियंत्रक
for Jt. Chief Controller of Explosives
(अधिक जानकारी जैसे आवेदन की स्थिति, शुल्क आदि के लिए हमारी वेबसाइट <http://peso.gov.in> देखें.)
(For more information regarding status, fees and other details please visit our website <http://peso.gov.in>)

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Government of India
Ministry of Commerce & Industry
Petroleum & Explosives Safety Organisation (PESO)
Kendriya sadan, 1st floor, Sultan Bazar, Kottl,
Hyderabad - 500195

पेट्रोलियम
REGISTERED

E-mail
dyccehyderabad@explosives.gov.in
Phone/Fax No : 040 - 2460035

No. : P/HQ/AP/15/3734 (P234341)

Dated : 13/12/2012

To,

M/s. Trimex Sands Pvt. Ltd.,
Sy. No. 182, Vatchavalasa Village & Post,
Gara Mandal-532 404,
Srikakulam,
District: SRIKAKULAM,
State: Andhra Pradesh
PIN: 532404

14 DEC 2012

Sub : Existing Petroleum Class B,C Installation at Plot No, Sy. No. 182, NA, Vatchavalasa Village, Gara Mandal, District: SRIKAKULAM, State: Andhra Pradesh, PIN: 999999 - Licence No P/HQ/AP/15/3734 (P234341) - granted for XV of Petroleum Rule 2002 Renewal regarding.

Sir(s).

Please refer to your letter No.: nil, dated 30/10/2012

Licence No. P/HQ/AP/15/3734 (P234341) dated 22/03/2010 is forwarded herewith duly renewed upto 31/12/2022.

Please follow the procedure strictly as laid down in rule 148 of the Petroleum Rules, 2002 and submit complete documents for the Renewal of the licence so as to reach this office on or before the date on which Licence expires.

Please acknowledge the receipt.

Note : Your Balance Amount with the Organisation is Rs 550, which will be used for processing of the same Licence in future.

Yours faithfully,

(K Srinivasa Rao)
Dy. Controller of Explosives
For Dy. Chief Controller of Explosives
Hyderabad

(For more information regarding status, fees and other details please visit our website <http://peso.gov.in>)



रास्थायणों में पेट्रोलियम का आयात और भंडारण के लिए अनुज्ञप्ति
LICENCE TO IMPORT AND STORE PETROLEUM IN INSTALLATIONS

7/16

अनुज्ञप्ति सं. (Licence No.) :- P/HQ/AP/15/3734(P234341)

फीस रूप में Fees Rs. 3050 - प्रति वर्ष (Per Annum)

श्री M/s. Trimex Sands Pvt. Ltd., Sy. No. 182, Vatchavalasa Village & Post, Gara Mandal-532 404, Srikakulam, SRIKAKULAM, Andhra Pradesh, PIN - को केवल इसमें यथा विनिर्दिष्ट वर्ग के और मात्राओं में पेट्रोलियम 180 किलोलीटर आयात करने के लिए और उत्तकन वही वर्णित में भंडारण करने की अनुज्ञप्ति प्रदान की जाती है।
वक्शा संख्या P/HQ/AP/15/3734(P234341) तारीख 22/3/2010 जो कि इससे उपाबद्ध है, में दिखाए गए स्थान पर भंडारण के लिए पेट्रोलियम 180 किलोलीटर (K.L.) के उपबंधों या उसके अधीन बनाए गए नियमों तथा इस अनुज्ञप्ति की अतिरिक्त शर्तों के अधीन रहते हुए यह अनुज्ञप्ति अनुदत्त की जाती है।

Licence is hereby granted to M/s. Trimex Sands Pvt. Ltd., Sy. No. 182, Vatchavalasa Village & Post, Gara Mandal, Srikakulam, SRIKAKULAM, Andhra Pradesh, PIN - valid only for the importation of 180 K.L. Petroleum of the classes and quantities herein specified and storage thereof in the place described below and shown on the approved plan No P/HQ/AP/15/3734(P234341) dated 22/3/2010 attached hereto subject to the provisions of the Petroleum Act, 1934 and the rule made thereunder and to the further conditions mentioned therein.

यह अनुज्ञप्ति 31 दिसम्बर 2012 तक प्रवृत्त रहेगी।
The Licence shall remain valid upto 31st day of December 2012

पेट्रोलियम का विवरण (Description of Petroleum)	किलोलीटरों में अनुज्ञप्त क्षमता (Quantity licensed in K.L.)
वर्ग क प्रपुंज पेट्रोलियम (Petroleum Class A in bulk)	तिरंक (Nil)
वर्ग क प्रपुंज पेट्रोलियम से भिन्न (Petroleum Class A, otherwise than in bulk)	तिरंक (Nil)
वर्ग ख प्रपुंज पेट्रोलियम (Petroleum Class B in bulk)	20 किलोलीटर (K.L.)
वर्ग ख प्रपुंज पेट्रोलियम से भिन्न (Petroleum Class B, otherwise than in bulk)	तिरंक (Nil)
वर्ग ग प्रपुंज पेट्रोलियम (Petroleum Class C in bulk)	160 किलोलीटर (K.L.)
वर्ग ग प्रपुंज पेट्रोलियम से भिन्न (Petroleum Class C, otherwise than in bulk)	तिरंक (Nil)
कुल क्षमता (Total Capacity)	180 किलोलीटर (K.L.)

Monday, March 22, 2010

मुख्य नियंत्रक, पेट्रोलियम
for Chief Controller of Petroleum

अनुज्ञप्त परिसरों का विवरण और अवस्थान
DESCRIPTION AND LOCATION OF THE LICENSED PREMISES

अनुज्ञप्त परिसर जिसकी विन्यास सीमाएं अन्य विशेषताएँ सहित अनुमोदित नक्शे में दिखाई गई हैं, Sy. No. 182, Vatchavalasa Village, Gara Mandal, SRIKAKULAM, Andhra Pradesh, स्थान पर अवस्थित हैं तथा उसमें निम्नलिखित सम्मिलित हैं - one aboveground Petroleum Class 'B' and two aboveground Petroleum Class 'C' storage tanks together with connected facilities

The licensed premises, the layout, boundaries and other particulars of which are shown in the attached approved plan are situated at Sy. No. 182, Vatchavalasa Village, Gara Mandal, SRIKAKULAM, Andhra Pradesh, and consists of one aboveground Petroleum Class 'B' and two aboveground Petroleum Class 'C' storage tanks together with connected facilities

Reviewed upto 31/12/2010

अनुमति संख्या- (Licence No.) P/HQ/AP/15/3734(P234341)

नवीनीकरण के पृष्ठांकन के लिए स्थान
SPACE FOR ENDORSEMENT OF RENEWALS

पेट्रोलियम अधिनियम 1934 के उपबन्धों या उनके अधीन बनाए गए नियमों या इस अनुमति की शर्तों का उल्लंघन न होने की दशा में यह अनुमति विन्ना में बिना किसी छूट के तीन वर्ष तक नवीकृत की जा सकेगी।
The licence shall be renewable without any concession in fee for three years in the absence of contravention of any provision of the Petroleum Act 1934 or of the rules framed thereunder or of any of the conditions of this licence

नवीकरण की तारीख

Date of Renewal

समाप्ति की तारीख

Date of Expiry

अनुमति धारिता के अनुसार जारी की गई है।

Signature and office stamp of the issuing authority

यदि अनुमति परिसर इसमें उपाचर विवरण और शर्तों के अनुरूप नहीं पाए जाते हैं और जिन नियमों और शर्तों के अधीन यह अनुमति जारी की गई है उनमें से किसी का उल्लंघन होने की दशा में यह अनुमति रद्द की जा सकती है और अनुमतिधारी प्रथम अपराध के लिए भ्रष्टाचार को दंडित करने के लिए एक मारा तक हो सकता है, या जुर्माने से, जो एक हजार रुपये तक हो सकता है, या दोनों से, और प्रत्येक पश्चात्तयती अपराध के लिए सजाया जा सकेगा या जो तीन मारा तक हो सकता है, या जुर्माने से, जो पांच हजार रुपये तक हो सकता है या दोनों से, दण्डनीय होगा।

This licence is liable to be cancelled if the licensed premises when inspected are not found conforming to the description and conditions under which this licence is granted and the holder of this licence is also punishable for the first offence with simple imprisonment which may extend to one month, or with fine which may extend to one thousand rupees, or with both, or with either subsequent offence with simple imprisonment which may extend to three months, or with fine which may extend to five thousand rupees, or with both.



Government of India
Ministry of Commerce & Industry
Petroleum & Explosives Safety Organisation (PESO)
Kendriya sadan, 1st floor, Sultan Bazar, Koti,
Hyderabad - 500195

पंजीत
REGISTER

E-mail
dyccehyderabad@explosives.gov.in
Phone/Fax No : 040 - 24600356

No. : P/HQ/AP/15/3736 (P234337)

Dated : 13/12/2012

To,

M/s. Trimex Sands Pvt. Ltd.,
Sy. No. 182, Vatchavalasa Village & Post,
Gara Mandal - 532 404,
Srikakulam,
District: SRIKAKULAM,
State: Andhra Pradesh
PIN: 500018

14 DEC 2012

Sub : Existing Petroleum Class B,C Installation at Plot No, NA, NA, Vatchavalasa Village, Gara Mandal,
District: SRIKAKULAM, State: Andhra Pradesh, PIN: 999999 - Licence No. P/HQ/AP/15/3736
(P234337) - granted for XV of Petroleum Rule 2002 Renewal regarding.

Sir(s),

Please refer to your letter No : nil, dated 30/10/2012

Licence No. P/HQ/AP/15/3736 (P234337) dated 22/03/2010 is forwarded herewith duly renewed upto 31/12/2022.

Please follow the procedure strictly as laid down in rule 148 of the Petroleum Rules, 2002 and submit complete documents for the Renewal of the licence so as to reach this office on or before the date on which Licence expires.

Please acknowledge the receipt.

Note : Your Balance Amount with the Organisation is Rs.500, which will be used for processing of the same Licence in future.

Yours faithfully

(K Srinivasa Rao)
Dy. Controller of Explosives
For Dy. Chief Controller of Explosives
Hyderabad

(For more information regarding status, fees and other details please visit our website <http://peso.gov.in>)

प्रारूप 15
(प्रथम अनुसूची का अनुच्छेद 6 देखिए)
FORM XV
(See Article 6 of the First Schedule)

संस्थापनी में पेट्रोलियम के आयात और भंडारण के लिए अनुमति
LICENCE TO IMPORT AND STORE PETROLEUM IN INSTALLATIONS

अनुमति सं. (Licence No.) :- P/HQ/AP/15/3736(P234337)

फीस रूप (Fees Rs.) 2000/- प्रती वर्ष (Per Annum)

श्री M/s. Trimex Sands Pvt. Ltd., Sy. No. 182, Vachavalasa Village & Post, Gara Mandal - 532 404, Srikakulam, SRIKAKULAM, Andhra Pradesh, PIN - को केवल इसमें यथा विनिर्दिष्ट वर्ग के और मात्राओं में पेट्रोलियम 7 किलोलीटर आयात करने के लिए और उसका वीध वर्णित और भंडारण करने के लिए संख्या P/HQ/AP/15/3736(P234337) तारीख 22/3/2010 जो कि इससे उपाबद्ध है में दिखाए गए स्थान पर भंडारण के लिए पेट्रोलियम संशोधन अधिनियम 1934 के अधिनियम या उसके अधीन बनाए गए नियमों तथा इस अनुमति की अतिरिक्त शर्तों के अधीन रहते हुए यह अनुमति अनुदत्त की जाती है।

Licence is hereby granted to M/s. Trimex Sands Pvt. Ltd., Sy. No. 182, Vachavalasa Village & Post, Gara Mandal - 532 404, Srikakulam, SRIKAKULAM, Andhra Pradesh, PIN - valid only for the importation of 7 K.L. Petroleum of the classes and quantities specified and storage thereof in the place described below and shown on the approved plan No P/HQ/AP/15/3736(P234337) dated 22/3/2010 attached hereto subject to the provisions of the Petroleum Act, 1934 and the rule made thereunder and to the further conditions of this Licence.

अनुमति 31 दिसम्बर 2012 तक प्रवृत्त रहेगी।
Licence shall remain valid upto 31st day of December 2012

पेट्रोलियम का विवरण (Description of Petroleum)	किलोलीटरों में अनुमति क्षमता (Quantity licensed in K.L.)
वर्ग क प्रपुंज पेट्रोलियम (Petroleum Class A in bulk)	निरंक (Nil)
वर्ग क प्रपुंज पेट्रोलियम से भिन्न (Petroleum Class A, otherwise than in bulk)	निरंक (Nil)
वर्ग ख प्रपुंज पेट्रोलियम (Petroleum Class B in bulk)	2 किलोलीटर (K.L.)
वर्ग ख प्रपुंज पेट्रोलियम से भिन्न (Petroleum Class B, otherwise than in bulk)	निरंक (Nil)
वर्ग ग प्रपुंज पेट्रोलियम (Petroleum Class C in bulk)	5 किलोलीटर (K.L.)
वर्ग ग प्रपुंज पेट्रोलियम से भिन्न (Petroleum Class C, otherwise than in bulk)	निरंक (Nil)
कुल क्षमता (Total Capacity)	7 किलोलीटर (K.L.)

Monday, March 22, 2010

कुल मुख्य निरीक्षक
for Chief Controller of Licences

अनुमति परिसरों का विवरण और अवस्थान
DESCRIPTION AND LOCATION OF THE LICENSED PREMISES

अनुमति परिसर जिसकी विन्यास सीमाएं अन्य विशिष्टता सतत अनुमोदित नक्शे में दिखाई गई हैं Vachavalasa Village, Gara Mandal, SRIKAKULAM, Andhra Pradesh, स्थान पर अवस्थित हैं तथा उसमें निम्नलिखित सम्मिलित हैं - one aboveground Petroleum Class 'B' and one aboveground Petroleum Class 'C' storage tanks together with connected facilities.

The licensed premises, the layout, boundaries and other particulars of which are shown in the attached approved plan are situated at Vachavalasa Village, Gara Mandal, SRIKAKULAM, Andhra Pradesh, and consists of one aboveground Petroleum Class 'B' and one aboveground Petroleum Class 'C' storage tanks together with connected facilities.

Reviewed upto 23/12/2022

Signature

अनुज्ञति संख्या: Licence No. 1P/HQ/AP/15/3736(P234337)

नवीनीकरण के पृष्ठबन्धन के लिए स्थान
SPACE FOR ENDORSEMENT OF RENEWALS

<p>पेट्रोलियम अधिनियम, 1934 के उपबन्धों या उनके अधीन बनाए गए नियमों या इस अनुज्ञति की शर्तों का उल्लंघन न होने की दशा में यह अनुज्ञति फिर से बिना किसी रूट के तीन वर्ष तक नवीकृत की जा सकेगी The licence shall be renewable without any concession in fee for three years in the absence of contravention of any provision of the Petroleum Act, 1934 or of the rules framed thereunder or of any of the conditions of this licence</p>	<p>नवीकरण की तारीख Date of Renewal</p>	<p>समाप्ति की तारीख Date of Expiry</p>	<p>अनुज्ञापन प्राधिकरण के प्रमुख का हस्ताक्षर और मुद्रा Signature and official stamp of the Director of Public Health and Sanitation</p>
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यदि अनुज्ञति परिसर इसमें उपायद विवरण और शर्तों के अनुरूप नहीं पाए जाते हैं और जिन नियमों और शर्तों के अधीन यह अनुज्ञति प्रदान की गई है उनमें से किसी का उल्लंघन होने की दशा में यह अनुज्ञति रद्द की जा सकती है और अनुज्ञतिधारी परसक अपराध के लिए सजाया जा सकता है या दोषी हो और प्रत्येक अपराध के लिए सजाया जा सकता है या जुर्माने से जो एक हजार रुपये तक हो सकता है या दोषी हो और प्रत्येक अपराध के लिए सजाया जा सकता है या जुर्माने से जो पाच हजार रुपये तक हो सकता है या दोषी हो, दण्डनीय होगा।

This licence is liable to be cancelled if the licensed premises when inspected are not found conformable to the description and conditions set forth hereon and contravention of any of the rules and conditions under which this licence is granted and the holder of this licence is also punishable for the first offence with simple imprisonment which may extend to one month, or with fine which may extend to one thousand rupees, or with both and for every subsequent offence with simple imprisonment which may extend to three months, or with fine which may extend to five thousand rupees, or with both.



Government of India
Ministry of Commerce & Industry
Petroleum & Explosives Safety Organisation (PESO)
Kendriya sadan, 1st floor, Sultan Bazar, Koti,
Hyderabad - 500195

पंजीकृत
REGISTRE

E-mail
dyccehyderabad@explosives.gov.in
Phone/Fax No - 040 - 24600359

No : P/HQ/AP/15/3735 (P234339)

Dated : 13/12/2012

To.

M/s. Trimex Sands Pvt. Ltd.,
Sy. No. 182, Vatchavalasa Village & Post,
Gara Mandal 532 404,
Srikakulam,
District: SRIKAKULAM,
State: Andhra Pradesh
PIN: 500018

Sub : Existing Petroleum Class B,C Installation at Plot No, Sy. NO. 182, NA, Vatchavalasa Village, Gara Mandal, District: SRIKAKULAM, State: Andhra Pradesh, PIN: 999999 - Licence No. P/HQ/AP/15/3735 (P234339) - granted for XV of Petroleum Rule 2002 Renewal regarding.

Sir(s),

Please refer to your letter No.: nil, dated 30/10/2012

Licence No. P/HQ/AP/15/3735 (P234339) dated 22/03/2010 is forwarded herewith duly renewed upto 31/12/2022.

Please follow the procedure strictly as laid down in rule 148 of the Petroleum Rules, 2002 and submit complete documents for the Renewal of the licence so as to reach this office on or before the date on which Licence expires.

Please acknowledge the receipt.

Note : Your Balance Amount with the Organisation is Rs.600, which will be used for processing of the same Licence in future.

Yours faithfully,

(K Srinivasa Rao)
Dy. Controller of Explosives
For Dy. Chief Controller of Explosives
Hyderabad

(For more information regarding status, fees and other details please visit our website <http://peso.gov.in>)

प्रारूप 15
(प्रथम अनुसूची का अनुच्छेद 6 देखिए)
FORM XV
(see Article 6 of the first Schedule)

सम्प्राप्तियों में पेट्रोलियम के आयात और भंडारण के लिए अनुमति
LICENCE TO IMPORT AND STORAGE OF PETROLEUM IN INDIA

अनुमति सं. (Licence No.) :- P/HQ/AP/15/3735(P234339)

कीस रूप (Class) :- 2010-2012 वर्ग (Type) :-

श्री M/s. Trimex Sands Pvt. Ltd., Sy. No. 182, Vachavalasa Village & Post, Gara Mandal 532 404, Srikakulam, SRIKAKULAM, Andhra Pradesh, PIN - को केवल इसमें यथा विनिर्दिष्ट वर्ग के और मात्राओं में पेट्रोलियम 7 किलोलीटर आयात करने के लिए और उसका लीटो संग्रहीत और अन्य 12.00 वर्ग संख्या P/HQ/AP/15/3735(P234339) तारीख 22/3/2010 जो कि इससे उपाय है, में दिखाने पर मंडारण के लिए पेट्रोलियम अधिनियम 1934 के उपबंधों या इसके अधीन बनाए गए नियमों तथा इस अनुमति की अतिरिक्त शर्तों के अधीन रहते हुए यह अनुमति अंगुष्ठ को जारी है।

Licence is hereby granted to M/s. Trimex Sands Pvt. Ltd., Sy. No. 182, Vachavalasa Village & Post, Gara Mandal 532 404, Srikakulam, SRIKAKULAM, Andhra Pradesh, PIN - valid only for the importation of 7 K.L. Petroleum of the classes and quantity specified and storage thereof in the place described below and shown on the approved plan No P/HQ/AP/15/3735(P234339) dated 22/3/2010 as stated hereto subject to the provisions of the Petroleum Act, 1934 and the rule made thereunder and to the further conditions of this licence.

इस अनुमति 31 दिसम्बर 2012 तक प्रवृत्त रहेगी।

The Licence shall remain valid upto 31st day of December 2012

पेट्रोलियम का विवरण (Description of Petroleum)	किलोलीटरों में अनुमति क्षमता (Quantity licensed in K.L.)
वर्ग क प्रयुज पेट्रोलियम (Petroleum Class A in bulk)	निरंक (Nil)
वर्ग क प्रयुज पेट्रोलियम से भिन्न (Petroleum Class A, otherwise than in bulk)	निरंक (Nil)
वर्ग ख प्रयुज पेट्रोलियम (Petroleum Class B in bulk)	7 किलोलीटर (K.L.)
वर्ग ख प्रयुज पेट्रोलियम से भिन्न (Petroleum Class B, otherwise than in bulk)	निरंक (Nil)
वर्ग ग प्रयुज पेट्रोलियम (Petroleum Class C in bulk)	7 किलोलीटर (K.L.)
वर्ग ग प्रयुज पेट्रोलियम से भिन्न (Petroleum Class C, otherwise than in bulk)	निरंक (Nil)
कुल क्षमता (Total Capacity)	7 किलोलीटर (K.L.)

Monday, March 22, 2010

मुख्य नियंत्रक के नियंत्रक
for Chief Controller of Explosives

अनुमति परिसरों का विवरण और अवस्थान
DESCRIPTION AND LOCATION OF THE LICENSED PREMISES

अनुमति परिसर जिसकी विन्यास सीमाएं अन्य विशेषताएं संलग्न अनुमोदित नक्शे में दिखाई गई हैं, Sy. NO. 182, Vachavalasa Village, Gara Mandal, SRIKAKULAM, Andhra Pradesh, स्थल पर आस्थित हैं तथा उसमें निम्नलिखित परिभाषित हैं - one aboveground Petroleum Class 'A' and one aboveground Petroleum Class 'C' storage tanks together with connected facilities.

The licensed premises, the layout, boundaries and other particulars of which are shown in the attached approved plan, situated at Sy. No. 182, Vachavalasa Village, Gara Mandal, SRIKAKULAM, Andhra Pradesh, and consists of one aboveground Petroleum Class 'B' and one of aboveground Petroleum Class 'C' storage tanks together with connected facilities.

Renewed upto 31/12/2012

EV, Chief Controller of Explosives

अनुमति संख्या (Licence No.) P/HO AP/15/37/15(P234339)

नवीनीकरण के पुराकत के लिए स्थान
SPACE FOR ENDORSEMENT OF RENEWALS

पेट्रोलियम अधिनियम 1938 के उपबन्धों या उनके अधीन बनाए गए नियमों या इस अनुमति की शर्तों का उल्लंघन न होने की दशा में यह अनुमति फिर से दिया जायेगी तब तक कि नवीनीकरण की जा सकेगी।
The licence shall be renewable without any accession in fee for three years in the absence of contravention of any provision of the Petroleum Act, 1938 or of the rules framed thereunder or of any of the conditions of this licence.

नवीनीकरण की तारीख

Date of Renewal

समाप्ति की तारीख

Expiry Date

अनुमति पर अधिकार के लिए जारी की गई है।

Signature and Seal of the Licensing Authority

यदि अनुमति परिसर इसमें उपाय विवक्षित और शर्तों के अनुरूप नहीं पाए जाते हैं और जिन विधियों और शर्तों के अधीन यह अनुमति प्रदान की गई है उनमें से किसी का उल्लंघन होने की दशा में यह अनुमति रद्द की जा सकती है और अनुमतिधारी प्रत्येक उपाय के लिए आवश्यक व्यय को वह एक वर्ष तक हो सकता है, या जुर्माने से जो एक हजार रुपये तक हो सकता है या दोनों से और प्रत्येक पश्चात्की अपराध के लिए प्रत्येक वर्ष से जो दो महीने तक हो सकता है, या जुर्माने से जो पांच हजार रुपये तक हो सकता है या दोनों से उपलब्ध होगा।

If the licence is liable to be cancelled if the licensed premises when inspected are not found conforming to the conditions under which this licence is granted and the holder of this licence may be liable to a penalty which may extend to one month or with fine which may extend to one thousand rupees or both for every subsequent offence with simple imprisonment which may extend to three months or with fine which may extend to five thousand rupees or both.

05 May 2015



The Additional Principal Chief Conservator of Forests (C),
Ministry of Environment, Forest and Climate Change,
Regional Office (SEZ),
1st and 2nd Floor, Handloom Export Promotion Council,
34, Cathedral Garden Road, Nungambakkam,
Chennai – 34

Respected Sir,

Sub: Expansion of Srikurmam Mineral Sand Mine of M/s Trimex Sands Pvt. Ltd., Villages Vatsavalasa & Tonangi, Mandal Gara, District Srikakulam, Andhra Pradesh (720 Ha) (2.0 MTPA to 6.0 MTPA) – EC and CRZ Clearances - Regarding.

Ref:

1. Environmental Clearance issued by the Ministry of Environment, Forest and Climate Change, Impact Assessment Division, Govt. of India, vide letter F. No: 11015/175/2011-IA.II (M), Dt: 17-04-2015.
2. CRZ Clearance issued by the Ministry of Environment, Forests and Climate Change (A.III Section), Govt. of India, vide letter F. No: 11-67/2013-IA.III Dt: 28-04-2015.

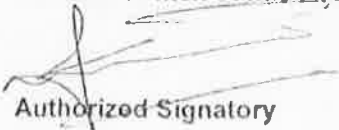
We wish to inform you that for the expansion of Srikurmam Mineral Sands Project from 2.0 MTPA to 6.0 MTPA at Villages Vatsavalasa & Tonangi in Gara Mandal in Srikakulam District, Andhra Pradesh, the Ministry of Environment, Forests and Climate Change (MoEF), Impact Assessment Division, & IA.III Section, Govt. of India has granted the Environmental Clearance vide letter F. No: 11015/175/2011-IA.II (M), Dt: 17-04-2015 (enclosed as Annexure-1) and CRZ Clearance vide letter F. No: 11-67/2013-IA.III Dt: 28-04-2015 (enclosed as Annexure-2).

As stipulated under sub point (xiii), (xiv) & (xvi) of sl. no.11 in General Conditions of the clearance letters under reference, we have handed over the Environmental & CRZ Clearances to all the concerned Panchayats (enclosed as Annexure 3), State Pollution Control Board, District Industries Center & The District Collector (enclosed as Annexure 4) and also given advertisement in two local newspapers (enclosed as Annexure 5).

Thanking You,

Yours Truly,

For M/s. Trimex Sands Pvt. Limited


Authorized Signatory

Encl: Annexure 1 to 5.

Trimex Sands Pvt Ltd:	Plot No. 56, Telugu Musalayaa Layout, Adithya Nagar, Arasavilli Road, Srikakulam-532001, Andhra Pradesh, India Telefax: +91 8942 229328, e-mail: trimexsklm@eth.net
Hyderabad Office:	#8-2-624, 2nd Floor, Sri Durga Towers, Flat No. 201, Road No.10, Banjara Hills, Hyderabad-500034, AP, India Tel: +91 40 2338 4380, +91 40 3371 3600, Fax: +91 40 2338 4068
Reg. Office:	Trimex Towers, No.1, Subbaraya Avenue, C.P.Rama Swamy Road, Alwarpet, Chennai-600 016, India. Tel: +91 44 2498 8813/22, Fax: 2498 6047 Web: www.trimexgroup.com

THE HANSINDIA MONDAY 4 MAY 2015

NOTICE
This is to inform that the expansion of Beach Sand Mining Project at Sara Mandal in Srikalahasti District of Andhra Pradesh, Trimer Sands Pvt. Ltd. has been accorded Environmental Clearance by the Ministry of Environment, Forest and Climate Change, Impact Assessment Division, Govt. of India, New Delhi vide their letter No. J-11015/175/2011-IA-II (M) Dated:17-04-2015 and CRZ Clearance by the Ministry of Environment, Forest and Climate Change (A.III Section), Govt. of India, New Delhi vide their letter No. J-11-67/2013-IA-III Dated:26-04-2015. The copy of the clearance letter is available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment, Forests and Climate Change at <http://envfor.nic.in>

2385

అవగాహన

అవగాహన
 ఇందు ముఖ్యమంత్రి ఆదేశములను అనుసరించి ప్రభుత్వ పరిశ్రమలు, అటవీ మరియు పారిశుధ్యం మరియు సంరక్షణ, మంత్రివ్యూహం, మ్యూజిక్లీ వారు క్రిందను ఉన్నట్లుగా నియమించి ప్రభుత్వ పరిశ్రమలు మరియు అటవీ మరియు పారిశుధ్యం మరియు సంరక్షణ, మంత్రివ్యూహం (CRZ) అనుబంధ ప్రతిపత్తి ప్రవేశం గురించి సమాచారం ఇవ్వడం J-11015/175/2011-IA II (M) వేదిక 17-04-2015 మరియు తిరుగుబాటు J-11-07/2013-IA-III వేదిక 28-04-2015 ద్వారా అనేక ప్రభుత్వ పరిశ్రమలకు సంబంధించి అనుబంధ ప్రతిపత్తిని నిర్ణయించుకుంటూ ఉన్నట్లుగా మరియు అటవీ మరియు పారిశుధ్యం మరియు సంరక్షణ, మంత్రివ్యూహం, సంబంధిత అనుబంధ ప్రతిపత్తిని - ప్రభుత్వం వెబ్సైట్లో ఉంచడం <http://www.enyfor.nic.in>

అవగాహన
 ఇందు ముఖ్యమంత్రి ఆదేశములను అనుసరించి ప్రభుత్వ పరిశ్రమలు, అటవీ మరియు పారిశుధ్యం మరియు సంరక్షణ, మంత్రివ్యూహం, మ్యూజిక్లీ వారు క్రిందను ఉన్నట్లుగా నియమించి ప్రభుత్వ పరిశ్రమలు మరియు అటవీ మరియు పారిశుధ్యం మరియు సంరక్షణ, మంత్రివ్యూహం (CRZ) అనుబంధ ప్రతిపత్తి ప్రవేశం గురించి సమాచారం ఇవ్వడం J-11015/175/2011-IA II (M) వేదిక 17-04-2015 మరియు తిరుగుబాటు J-11-07/2013-IA-III వేదిక 28-04-2015 ద్వారా అనేక ప్రభుత్వ పరిశ్రమలకు సంబంధించి అనుబంధ ప్రతిపత్తిని నిర్ణయించుకుంటూ ఉన్నట్లుగా మరియు అటవీ మరియు పారిశుధ్యం మరియు సంరక్షణ, మంత్రివ్యూహం, సంబంధిత అనుబంధ ప్రతిపత్తిని - ప్రభుత్వం వెబ్సైట్లో ఉంచడం <http://www.enyfor.nic.in>

To
1/ Vatsavalasa Grama Panchayat, Gara Mandal.
2/ Tonangi Grama Panchayat, Gara Mandal.

Dear Sir

Sub: Expansion of Srikurmam Mineral Sand Mine of M/s Trimex Sands Pvt. Ltd., Villages Vatsavalasa & Tonangi, Mandal Gara, District Srikakulam, Andhra Pradesh (720 Ha) (2.0 MTPA to 6.0 MTPA) – EC and CRZ Clearances - Regarding.

Ref:

1. Environmental Clearance issued by the Ministry of Environment, Forest and Climate Change, Impact Assessment Division, Govt. of India, vide letter F. No 11015/175/2011-IA.II (M), Dt: 17-04-2015.
2. CRZ Clearance issued by the Ministry of Environment, Forests and Climate Change (IA. III Section), Govt. of India, vide letter F. No: 11-67/2013-IA.III Dt: 28-04-2015.

We wish to inform you for the expansion of Srikurmam Mineral Sands Project 2.0 MTPA to 6.0 MTPA at Villages Vatsavalasa & Tonangi in Gara Mandal in Srikakulam District, Andhra Pradesh, the Ministry of Environment, Forests and Climate Change (MoEF), Impact Assessment Division, & IA.III Section, Govt. of India has granted the Environmental Clearance vide letter F. No: 11015/175/2011-IA.II (M), Dt: 17-04-2015 (enclosed as **Annexure-1**) and CRZ Clearance vide letter F. No: 11-67/2013-IA.III Dt: 28-04-2015 (enclosed as **Annexure-2**).

We are herewith submitting the copies of the same for your reference and record please

Thanking You,
Yours Truly,
For **Trimex Sands Pvt. Limited**


Vice President (Mines)

Encl:
Annexure-1 : Environmental Clearance letter F. No: 11015/175/2011-IA.II (M), Dt: 17-04-2015
Annexure-2 : CRZ Clearance vide letter F. No: 11-67/2013-IA.III Dt: 28-04-2015

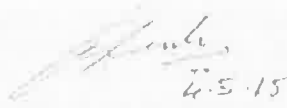
Trimex Sands Pvt Ltd: Plot No. 56, Telugu Musaloyao Layout, Adithya Nagar, Arasavilli Road, Srikakulam-532001, Andhra Pradesh India.
Telefax: +91 8942 229328, e-mail: trimexsklm@eth.net

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Tel: +91 44 2498 8813/22, Fax: 2498 6047 Web: www.trimexgroup.com

ACKNOWLEDGEMENT

Received Environmental Clearance Letter F. No: 11015/175/2011-IA.II (M), Dt: 17-04-2015, of Ministry of Environment, Forests and Climate Change (IA Division), & CRZ Clearance Letter F. No: 11-67/2013-IA.III Dt: 28-04-2015, of Ministry of Environment, Forests and Climate Change (IA III Section), Govt. of India has granted Environmental Clearance/ CRZ Clearance for Expansion of Srikurmam Mineral Sand Mine at Villages Vatsavalasa & Tonangi in Gara Mandal in Srikakulam District in Andhra Pradesh by M/s Trimex Sands Pvt. Ltd.

S.No	Name of the Office	Signature with Stamp
1	The Secretary, Vatsavalasa Gram Panchayat Office, Gara Mandal, Srikakulam District.	
2	The Secretary, Tonangi Gram Panchayat Office, Gara Mandal, Srikakulam District.	<p style="text-align: center;">RN 901003376 IN</p> <p style="text-align: center;">बोमा नरी NOT INSURED</p> <p style="text-align: center;">अपने गये डाक टिकटों का मूल्य रु.</p> <p style="text-align: center;">Amount of stamp affixed</p> <p style="text-align: center;">रु. तिजद्वी</p> <p style="text-align: center;">Received a registered</p> <p style="text-align: center;">बानेवादा का भण्डा</p> <p style="text-align: center;">Addressed to</p> <p style="text-align: right;">क्रमांक 2584</p> <p style="text-align: right;">दिनांक मोहर Date Stamp</p> <p style="text-align: right;">प्राप्त किया</p> <p style="text-align: right;">Signature of Receiving Office</p> <p style="text-align: right;">21</p>

*Trimex
vatsavalasa*

Environment Monitoring Data Displaying Board





TSPL/ENV/PCB/ES/2017-18/1107

Srikakulam,
27.09.2017.

To
The Joint Chief Environment Engineer
AP Pollution Control Board
Paryavaran Bhavan, A3, IE
Sanathnagar
Hyderabad-38

Dear Sir,

Sub: Environmental Statement - Form-V - 2016-17 - Reg.
Ref: APPCB/VSP/VZM/152/HO/CFO/2015 Dated 30.10.2015

As per the reference cited, please find herewith Environmental Statement in Form-V for the financial year 2016-17.

Thanking You

Yours faithfully

A handwritten signature in black ink, appearing to be a stylized name.

Sr. Vice President (Mining)

Cc:

The Environment Engineer, AP Pollution Control Board, Regional Office,
Plot no - 11, 1st floor, Shivaji Colony, Pradeep Nagar, Vizianagaram-535002

Trimex Sands Pvt Ltd: Vatchavalasa (V), Gara Mandal, Srikakulam District - 532 404, Andhra Pradesh, India.
Tel: +91 8942 283755, Fax: +91 8942 283758, email: info@trimexsands.com

Hyderabad Office: 2nd Floor, Sri Durga Towers, Plot No. 201, Road No. 10, Banjara Hills, Hyderabad - 500 034, Andhra Pradesh, India.
Tel: +91 40 2338 4380 / 3371 3600 Fax: +91 40 2338 4068

Reg. Office: Trimex Towers, No.1 Subbaraya Avenue, C.P. Ramaswamy Road, Alwarpet, Chennai - 600 018. Tamilnadu, India.
Tel: +91 44 2498 8822 / 8813 Fax: +91 44 2498 6047 web: www.trimexsands.com

CIN : U14299TN2004PTC071437

FORM - V
(See Rule 14)

Environmental Statement for the financial year ending with 31st March, 2017

PART - A

- (i) Name and Address of the Owner/ Occupier of the Industry Operation or process **M/S TRIMEX SANDS PVT. LTD.
Vatsavalsa (V), Gara (M),
Srikakulam Dist - 532 404**
- (ii) Industry category Primary **1360, 1533 & 1595**
(SIC Code), Secondary -
(SIC Code)
- (iii) Production capacity -
(Permitted quantity as per CFO)

S.No	Product	Quantity (TPD)
1	Ilmenite	1100
2	Sillimanite	550
3	Garnet	550
By Products		
4	Rutile	44
5	Zircon	44
6	Mineral Rich Tailings	260

- (iv) Year of establishment **2009 - 2010**
- (v) Date of the last environmental statement submitted. **13.08.2016**
(Vide Ir no TSPL/ENV/PCB/2015-16/1007)

PART - B

(i) Water consumption, m³/d :

Process :- 7960 KLD
Cooling :- - NA -
Domestic :- 16.19 KLD

Name of Product	Process Water Consumption in m3 per unit of products	
	During the Previous Financial Year 2015-16	During the Current Financial Year 2016-17
	(1)	(2)
Ilmanite, Rutile, Garnet, Zircon, Sillimanite.	8.40	8.06

ii) Raw Material Consumption:

Name of Raw Material	Name of Products	Process Raw Materials in tons per unit of products	
		During the Previous Financial Year 2015-16	During the Current Financial Year 2016-17
Beach Sand	Ilmanite, Rutile, Garnet, Zircon, Sillimanite	8.20	13.13

* Industry may be use codes if disclosing details of raw material would violate contractual obligations, otherwise ass industries have to name the raw materials used.

PART C

Pollution discharged to environment / unit of output (Parameter as specified in the consent issued)		
Pollutants Quantity of Pollutants Discharged (mass / day)	Concentration of Pollutants in discharges (mass/volume)	Percentage of Variation from prescribed Standards with Reasons
(a) Water :	There is no discharge from the industry. We set up a network of 7 observation wells within and outside the mining lease area and weekly monitoring is being done and observed that all the parameters are under permissible limit.	NA
(b) Air	Monthly Ambient Air Quality monitoring is being carried out within and outside the mining lease area (surrounding villages). Stack Emission Details Annexure I	NA

PART – D

HAZARDOUS WASTES

(as specified under Hazardous Wastes/Management and handling Rules, 1989)

Hazardous Wastes (Waste Lubricant Oil)	Total Quantity (lit)	
	During the Previous Financial Year 2015-16	During the Current Financial Year 2016-17
(a) From Process	2690	2520
(b) From Pollution control facilities	NA	NA

PART – E

SOLID WASTES:-

SOLID WASTES (silica sand tailings)	Total Quantity (tons)	
	During the Previous Financial Year 2015-16	During the Current Financial Year 2016-17
(a) From Process	23,74,980	37,39,014
(b) From Pollution Control Facility	NA	NA
(c)(i) Quantity to be recycled (Garnet & Sillimanite Concentrates) or reutilized within the unit.	65,527	56,174
(ii) Sold	NA	NA
(iii) Disposed	The above qty under (a) is backfilled at mined out area for reclamation and afforestation	The above qty under (a) is backfilled at mined out area for reclamation and afforestation

PART – F

Please specify the characterizations (in terms of composition and quantum) of hazardous as solid wastes and indicate disposal practice adopted for both these categories of wastes

S.No	Name of HW / Solid Waste	Quantity	Type / Nature	Mode of Disposal
1	Waste Lubricant Oil	2520 liters (2016-17)	Inflammable	Stored in closed barrels in designated area and disposed by sale to the authorized agencies.
2	Silica Sand Tailings	3739014 tones (2016-17)	Non hazardous in nature	The same qty is back filled at mined out areas for reclamation and afforestation.
3	Waste Batteries	62	Hazardous in nature	Used Batteries is being disposed to the authorized agency on buyback basis.

PART – G

Impact of the pollution abatement measure taken on conservation of natural resources and on the cost of production.

AFFORESTATION & GREEN BELT DEVELOPMENT AT PCP, MSP & MINING AREA

- 1) Captive nursery has been established at Mines
- 2) The nursery is manned by qualified personal and 21 full time workers are engaged from adjacent villages for Plantation.
- 3) Apart from the full time workers neighboring villagers are also engaged for nursery and Afforestation works. Among them mostly ladies are given opportunity to work.
- 4) Plantation details for the year 2016-2017 as follows

Types of species	PCP & MSP	Mining Area
Cashew	--	904
Eucalyptus	2,150	1300
Casuarina	1,240	107,888
Acacia	3,340	17,800
Palm Seeds	--	5,000
Forest tree variety (Gulmohar,Badam,Neem,Kanuga)	520	358
Total :	7,250	1,33,250

Expenditure on Pollution control measures and Conservation of Natural Resources

S.No	Description	During the Previous Financial Year 2015-2016 (in Rs.)	During the current Financial Year 2016-2017 (in Rs.)
1	Environmental Monitoring – Air, Water & Noise (outsourced).	65,000	1,30,0000
2	Dust suppression on roads in factory	2,08,000	5,48,000
3	PPE cost for dust and sound (dust masks, ear muffs, etc.).	2,96,000	3,36,000
4	De dusting & Bag filter –addition of bag filter and maintenance.	12,15,000	6,15,000
5	Expenditure on refilling / pumping from PCP, leveling by dozer.	68,85,000	1,58,02,000
6	Slime management cost in mines.	3,85,34,000	6,86,53,000
7	Thickener Operation.	1,37,90,000	2,26,65,000
8	Afforestation, Nursery maintenance (Seeds, Saplings, Manure, Watering, Wages etc.)	11,87,000	48,10,000
9	Fencing 100 Mts. from HTL	60,000	34,000
Capital Expenditure			
1	Thickener	8,27,08,000	--
2	Slime management cost in mines	44,59,000	--
3	Water recovery plant	4,06,73,000	--
	Total :	19,00,80,000	11,35,93,000

PART - H

Additional measures/investment proposal for environmental protection including abatement of pollution, prevention of pollution.

Air Pollution Control Measures

- Mining area haul roads are being sprinkled with water periodically to ensure that there is no dust generation due to plying of vehicles.
- Bag filter efficiency is improved by changing bags of bag filter frequently and Bag filter efficiency test is being carried out periodically and reports are being submitted to APPCB.
- Installed Water Treatment plant to treat the process water and thereby reduce dependability on river water. It is generating about 150 m³/hr of clean water.
- Concurrent backfilling of mined out area and Afforested with Casuarina, Acacia and Cashew done simultaneously to stabilize the soil and eliminate dust generation.

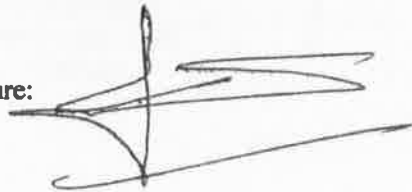
PART - I

Any other particulars for improving the quality of the environment.

- VFD (110 KW) arranged for Con-1 return water pump to reduce energy consumption.
- By conducting World Environment Day & Vanamahostavam day celebrations by massive plantation program.

Place: Srikakulam

Signature:

A handwritten signature in black ink, consisting of several overlapping loops and lines, positioned to the right of the 'Signature:' label.

Date: 27-09-2017

Designation: Sr. Vice President (Mines)

Registered Office :

B-115, 116, 117 & 509, Annapoorna Block, Aditya Enclave, Ameerpet, Hyderabad - 530038.
Ph. : (O) 040-23748555 / 23748616, Fax : 040-23748666, Email : teamlabs@gmail.com

ISO 9001 : 2008, ISO 14001 : 2004 and OHSAS 18001 : 2007 Certified Organization
Laboratory Recognised by Ministry Environment, Forests and Climate Change, GoI, New Delhi

TEST REPORT

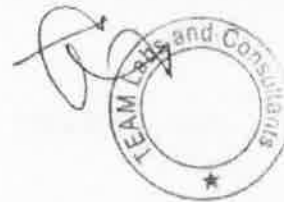
Test Report No .TLC /V/Env/ TSPL/2/0317

dt 04.04.2017

Description of Test: Stack Emissions Analysis
Name of the client: Tylmex Sands Pvt. Ltd. Vatchavalasa, Srikakulam Dt.
Location of sampling: Baghouse attached to IRZ Dryer
Date of Sampling: 14.03.2017

No	Parameter	Stack attaced to combined Bagfilter of Garnet & Sillimanite Dryers	IRZ Dryer Bag filter Outlet
1	Date of sampling	14.03.2017	14.03.2017
2	Stack height(m)	35	35
3	Duct diameter (m)	0.6	1.1
4	Stack area (m)	0.283	0.950
5	Flue gas temp ^o c	46	68
6	Exit gas velocity (m/s)	18.0	22.4
7	Flue gas flow rateNM ³ /hr	17131	66948
8	Emission Rates		
9	Dust concentration mg/NM ³	75	98

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL/2/0217

dt 10.03.2017

Description of Test: Stack Emissions Analysis
Name of the client: Trimex Sands Pvt. Ltd. Vatchavalasa, Srikakulam Dt.
Location of sampling: Baghouse attached to IRZ Dryer
Date of Sampling: 14.02.2017

No	Parameter	Stack attaced to combined Bagfilter of Garnet & Sillimanite Dryers	IRZ Dryer Bag filter Outlet
1	Date of sampling	14.02.2017	14.02.2017
2	Stack height(m)	35	35
3	Duct diameter (m)	0.6	1.1
4	Stack area (m)	0.283	0.950
5	Flue gas temp ^o c	65	57
6	Exit gas velocity (m/s)	32.5	21.0
7	Flue gas flow rateNM ³ /hr	28354	64856
8	Emission Rates		
9	Dust concentration mg/NM ³	90	62

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TEST REPORT

Test Report No. TLC /V/Env/ TSPL/2/0117

dt 02.02.2017

Description of Test:

Stack Emissions Analysis

Name of the client:

Trimex Sands Pvt. Ltd. Vatchavalasa, Srikakulam Dt.

Location of sampling:

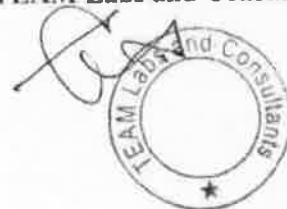
Baghouse attached to IRZ Dryer

Date of Sampling:

23.01.2017

No	Parameter	Stack attached to combined Bagfilter of Garnet & Sillimanite Dryers	IRZ Dryer Bag filter Outlet
1	Date of sampling	23.01.2017	23.01.2017
2	Stack height(m)	35	35
3	Duct diameter (m)	0.6	1.1
4	Stack area (m)	0.283	0.950
5	Flue gas temp ^o c	62	52
6	Exit gas velocity (m/s)	30.0	20.0
7	Flue gas flow rate NM ³ /hr	27188	62718
8	Emission Rates		
9	Dust concentration mg/NM ³	89	60

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL/2/1216

dt 03.01.2017

Description of Test: Stack Emissions Analysis
Name of the client: Trimex Sands Pvt. Ltd. Vatchavalasa, Srikakulam Dt.
Location of sampling: Baghouse attached to IRZ Dryer
Date of Sampling: 30.12.2016

No	Parameter	Stack attaced to combined Bagfilter of Garnet & Sillimanite Dryers	IRZ Dryer Bag filter Outlet
1	Date of sampling	30.12.2016	30.12.2016
2	Stack height(m)	35	35
3	Duct dlameter (m)	0.6	1.1
4	Stack area (m)	0.283	0.950
5	Flue gas temp ^o c	57	48
6	Exit gas velocity (m/s)	35.0	21.9
7	Flue gas flow rateNM ³ /hr	20976	69531
8	Emission Rates		
9	Dust concentration mg/NM ³	95	63

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL/2/1116

dt 05.12.2016

Description of Test: Stack Emissions Analysis

Name of the client: Trimex Sands Pvt. Ltd. Vatchavalasa, Srikakulam Dt.

Location of sampling: Baghouse attached to IRZ Dryer

Date of Sampling: 15.11.2016

No	Parameter	Stack attaced to combined Bagfilter of Garnet & Sillimanite Dryers	IRZ Dryer Bag filter Outlet
1	Date of sampling	15.11.2016	15.11.2016
2	Stack height(m)	35	35
3	Duct diameter (m)	0.6	1.1
4	Stack area (m)	0.283	0.950
5	Flue gas temp ^o c	69	64
6	Exit gas velocity (m/s)	18	32.0
7	Flue gas flow rateNM ³ /hr	15979	96775
8	Emission Rates		
9	Dust concentration mg/NM ³	52	66

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL/2/1016

dt 07.11.2016

Description of Test: Stack Emissions Analysis
Name of the client: Trimex Sands Pvt. Ltd. Vatchavalasa,Srikakulam Dt.
Location of sampling: Baghouse attached to IRZ Dryer
Date of Sampling: 17.10.2016

No	Parameter	Stack attaced to combined Bagfilter of Garnet & Sillimanite Dryers	IRZ Dryer Bag filter Outlet
1	Date of sampling	17.10.2016	17.10.2016
2	Stack height(m)	35	35
3	Duct diameter (m)	0.6	1.1
4	Stack area (m)	0.283	0.950
5	Flue gas temp °c	66	60
6	Exit gas velocity (m/s)	16	30.0
7	Flue gas flow rateNM ³ /hr	14329	91816
8	Emission Rates		
9	Dust concentration mg/NM ³	49	62

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL/2/0916

dt 10.10.2016

Description of Test:

Stack Emissions Analysis

Name of the client:

Trimex Sands Pvt. Ltd. Vatchavalasa, Srikakulam Dt.

Location of sampling:

Baghouse attached to IRZ Dryer

Date of Sampling:

21.09.2016

No	Parameter	Stack attaced to combined Bagfilter of Garnet & Sillimanite Dryers	IRZ Dryer Bag filter Outlet
		21.09.2016	21.09.2016
1	Date of sampling		
2	Stack height(m)	35	35
3	Duct diameter (m)	0.6	1.1
4	Stack area (m)	0.283	0.950
5	Flue gas temp ^o c	62	64
6	Exit gas velocity (m/s)	15.6	29.0
7	Flue gas flow rateNM ³ /hr	14138	87702
8	Emission Rates		
9	Dust concentration mg/NM ³	45	58

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL/2/0816

dt 16.09.2016

Description of Test: Stack Emissions Analysis
Name of the client: Trimex Sands Pvt. Ltd. Vatchavalasa, Srikakulam Dt.
Location of sampling: Baghouse attached to IRZ Dryer
Date of Sampling: 10.08.2016

No	Parameter	Stack attaced to combined Bagfilter of Garnet & Sillimanite Dryers	IRZ Dryer Bag filter Outlet
1	Date of sampling	10.08.2016	10.08.2016
2	Stack height(m)	35	35
3	Duct diameter (m)	0.6	1.1
4	Stack area (m)	0.283	0.950
5	Flue gas temp ^o c	69	72
6	Exit gas velocity (m/s)	25.0	24.0
7	Flue gas flow rateNM ³ /hr	22193	70898
8	Emission Rates		
9	Dust concentration mg/NM ³	58	46

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Test Report No .TLC /V/Env/ TSPL/2/0716

dt 08.08.2016

Description of Test:

Stack Emissions Analysis

Name of the client:

Trimex Sands Pvt. Ltd. Vatchavalasa, Srikakulam Dt.

Location of sampling:

Baghouse attached to IRZ Dryer

Date of Sampling:

18.07.2016

No	Parameter	Stack attaced to combined Bagfilter of Garnet & Sillimanite Dryers	IRZ Dryer Bag filter Outlet
1	Date of sampling	18.07.2016	18.07.2016
2	Stack height(m)	35	35
3	Duct diameter (m)	0.6	1.1
4	Stack area (m)	0.283	0.950
5	Flue gas temp ^o c	67	68
6	Exit gas velocity (m/s)	27.0	26.0
7	Flue gas flow rateNM ³ /hr	24109	80055
8	Emission Rates		
9	Dust concentration mg/NM ³	55	48

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TEST REPORT

Test Report No. TLC /N/Env/ TSPL/2/0616

dt 04.07.2016

Description of Test: Stack Emissions Analysis
 Name of the client: Trimex Sands Pvt. Ltd. Vatchavalasa, Srikakulam Dt.
 Location of sampling: Baghouse attached to IRZ Dryer
 Date of Sampling: 17.06.2016

No	Parameter	Stack attached to combined Bagfilter of Garnet & Sillimanite Dryers	IRZ Dryer Bag filter Outlet
1	Date of sampling	17.06.2016	17.06.2016
2	Stack height(m)	35	35
3	Duct diameter (m)	0.6	1.1
4	Stack area (m)	0.283	0.950
5	Flue gas temp ^o c	63	65
6	Exit gas velocity (m/s)	31.1	33.6
7	Flue gas flow rate NM ³ /hr	27852	101313
8	Emission Rates		
9	Dust concentration mg/NM ³	48	39

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TEST REPORT

Test Report No. TLC/V/Env/TSPL/11/0317

dt 04.04.2017

Description of Test:
Name of the client:
Location of sampling:
Date of Sampling:

Stack Emissions Analysis
Trimex Sands Pvt. Ltd. Vatchavalasa, Srikakulam Dt.
Bag house attached to IRZ Dryer
14.03.2017

No	Parameter	IRZ Dryer Bag filter Inlet	IRZ Dryer Bag filter Outlet
1	Date of sampling	14.03.2017	14.03.2017
2	Stack height(m)	-	35
3	Duct diameter (m)	1.0	1.1
4	Stack area (m)	0.785	0.950
5	Flue gas temp ^o c	60	68
6	Exit gas velocity (m/s)	28.0	22.4
7	Flue gas flow rate NM ³ /hr	70811	66948
8	Dust concentration mg/NM ³	810	98
9	Removal efficiency	87.9%	

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TEST REPORT

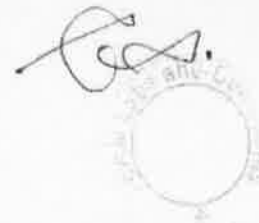
Test Report No. TLC/V/Env/TSPL/11/1216

dt03.01.2017

Description of Test: Stack Emissions Analysis
Name of the client: Trimex Sands Pvt. Ltd. Vatchavalasa, Srikakulam Dt.
Location of sampling: Bag house attached to IRZ Dryer
Date of Sampling: 30.12.2016

No	Parameter	IRZ Dryer Bag filter Inlet	IRZ Dryer Bag filter Outlet
1	Date of sampling	30.12.2016	30.12.2016
2	Stack height(m)	-	35
3	Duct diameter (m)	1.0	1.1
4	Stack area (m)	0.785	0.950
5	Flue gas temp ^o c	62	48
6	Exit gas velocity (m/s)	29.0	21.9
7	Flue gas flow rate NM ³ /hr	72902	69531
8	Dust concentration mg/NM ³	420	63
9	Removal efficiency	85.0%	

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TEST REPORT

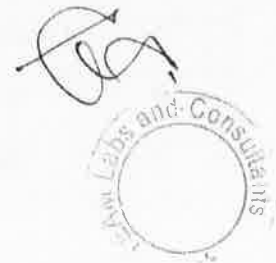
Test Report No.TLC/V/Env/TSPL/11/0916

dt10.10.2016

Description of Test: Stack Emissions Analysis
Name of the client: Trimex Sands Pvt. Ltd. Vatchavalasa, Srikakulam Dt.
Location of sampling: Bag house attached to IRZ Dryer
Date of Sampling: 21.09.2016

No	Parameter	IRZ Dryer Bag filter Inlet	IRZ Dryer Bag filter Outlet
1	Date of sampling	21.09.2016	21.09.2016
2	Stack height(m)	-	35
3	Duct diameter (m)	1.0	1.1
4	Stack area (m)	0.785	0.950
5	Flue gas temp ^o c	68	64
6	Exit gas velocity (m/s)	35.0	29.0
7	Flue gas flow rateNM ³ /hr	86437	87702
8	Dust concentration mg/NM ³	395	58
9	Removal efficiency	85.5%	

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Test Report No.TLC/V/Env/TSPL/11/0616

dt 04.07.2016

Description of Test: Stack Emissions Analysis
Name of the client: Trimex Sands Pvt. Ltd. Vatchavalasa, Srikakulam Dt.
Location of sampling: Bag house attached to IRZ Dryer
Date of Sampling: 17.06.2016

No	Parameter	IRZ Dryer Bag filter Inlet	IRZ Dryer Bag filter Outlet
1	Date of sampling	17.06.2016	17.06.2016
2	Stack height(m)	-	35
3	Duct diameter (m)	1.0	1.1
4	Stack area (m)	0.785	0.950
5	Flue gas temp ^o c	69	65
6	Exit gas velocity (m/s)	36.0	33.6
7	Flue gas flow rateNM ³ /hr	88647	101313
8	Dust concentration mg/NM ³	339	39
9	Removal efficiency		88.4%

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