



O/c.

TSPL/MIN/MoEF/ENV/16-17/1039

Srikakulam,  
29-11-2016.

To  
The Regional Office (South Eastern Zone)  
Ministry of Environment, Forests and Climate Change  
1<sup>st</sup> and 2<sup>nd</sup> 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 Apr'2016 –Sep'2016 – 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 Apr'2016 –Sep'2016.

Thanking you

Yours truly

Vice President (Mines)

CC to : 1. APPCB, RO, VZM  
2. CPCB, ZO, Bangalore

**Trimex Sands Pvt Ltd:** Vatchavalasa (V), Gara Mandal, Srikakulam District - 532 404, Andhra Pradesh, India.  
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**Reg. Office:** Trimex Towers, No.1 Subbaraya Avenue, C.P.Ramaswamy Road, Alwarpet, Chennai - 600 018. Tamilnadu, India.  
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**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.	Complied. Submitted vide letter No. TSPL/MIN/MoEF/ENV/15-16/922 dated:28-11-2015
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.	Wildlife Conservation Plan is approved by the Principal Chief Conservator of Forests (WL) & Chief Wildlife Warden, Hyderabad. Submitted vide Ir. no. TSPL/MIN/MoEF/ENV/15-16/922 Dated 28-11-2015
3	Soil conservation measures shall be prepared and implemented.	Being complied as detailed in the approved mine closure 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 submit before and after the mining activity to Regional Office of MoEF	Mined out pits are backfilled with waste sand concurrently. Enclosed photographs of the site, before and after the mining as per <b>Annexure – 1</b> .
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.	Complied as <b>Annexure – 2</b>
6	The Mining shall be in accordance with the Mining plan approved by AMD and IBM.	Being Complied.
7	The Project Proponent shall co-ordinate with the Directorate of Fisheries in respect of providing access to Beach for fishermen.	Permanent access to the beach is provided for the fishermen.
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 10 Nos. observation well situated within and outside the mining lease area. Plan showing the locations of the piezometers as <b>Annexure-3</b> and observation wells and water monitoring reports are enclosed as <b>Annexure – 4</b> .

9	Plantation shall be carried out on the mined out area, as committed.	Plantation is being carried out in refilled lands. Details for the last 6 months is enclosed as <b>Annexure - 5</b>
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 10 Nos. observation well situated within and outside the mining lease area. Soil analysis is also carried out once in 3 months as enclosed as <b>Annexure - 4 &amp; 6.</b>
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.
12	No drilling and blasting should be involved.	Strictly ensured
13	There shall be no ground water drawl in CRZ area.	Strictly ensured
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 wetting – <b>Annexure 7.</b> Sand 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 of Hazardous materials and report shall be submitted along with the six monthly monitoring reports	Being complied. Enclosed as per <b>Annexure - 8</b>
17	A green belt shall be developed after mining and refilling block by block.	Complied. Enclosed details of plantation as per <b>Annexure -5</b>
18	Project proponent shall ensure that no disturbance is caused to the mangroves/fisher folk	Will be 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.	Being complied. Details are as <b>Annexure -9</b>
20	Mineral processing plant shall be located outside CRZ area.	Mineral processing plant is located outside CRZ area – Enclosed map with <b>Annexure -3</b>
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.
23	Sand dunes should not be flattened.	It is being complied.

**General conditions:**

(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 centre and Collector's Office/Tehsildars's office for 30 days	Complied. Submitted vide Ir.no. TSPL/MIN/MoEF/ENV/15-16/922; Dated: 28-11-2015.
(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 6 months period for financial year 2016-17 given as <b>Annexure - 10</b>
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 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.	Will be complied.
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	Complied. Submitted vide Ir.no. TSPL/MIN/MoEF/ENV/15-16/922 Dated 28-11-2015.

	Wildlife(Protection) Act, 1972 etc. Shall be obtained, as applicable by project proponents from the respective competent authorities.	
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 <a href="http://www.envfor.nic.in">http://www.envfor.nic.in</a> . The advertisement should be made within Seven days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional Office of this Ministry at Chennai.	Complied. Submitted vide Ir.no. TSPL/MIN/MoEF/ENV/15-16/922 Dated 28-11-2015.
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, Zilla 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. Submitted vide Ir.no. TSPL/MIN/MoEF/ENV/15-16/922 Dated 28-11-2015.
17	The proponent shall upload the status of compliance of the stipulated EC conditions,	Being complied.

	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 <sub>2</sub> , NO <sub>x</sub> (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.	
18	The environmental statement for each financial year ending 31 <sup>st</sup> 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. Form-V Submitted vide Ir.no. TSPL/ENV/PCB/ES/2015-16/1007 Dated: 13-08-2016 for the period 2015-16 is enclosed as <b>Annexure - 11</b>

  
29/11/16



**Before Mining**



**After Mining**



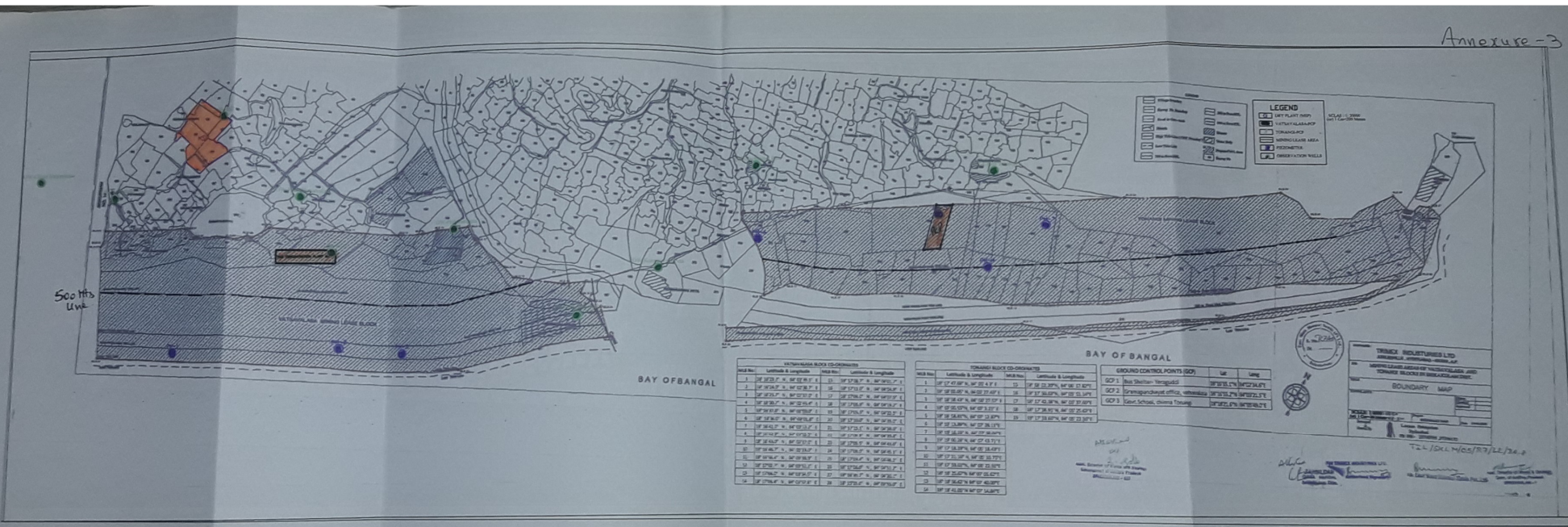


**Andhra Pradesh Coastal Zone Management Authority Minutes of Meeting**

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.	Mining is carried up to 100m on the landward side of the HTL and the prohibited area is demarcated to ensure no mining is carried out.
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. All these dunes are being protected and maintained as per MoEF guidelines and approved plan. No flattening, dressing or altering and landscape changes of sand dunes are done. 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 brooding period i.e from November to March.	It is being complied.
4	The depth of mining is subject to the approval of competent authorities such as AMD/IBM.	Complied. Submitted vide Ir.no. TSPL/MIN/MoEF/ENV/15-16/921 Dated 28-11-2015
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 lease area shall be established for regular	Provided ground water observation wells and monitoring is being carried out within and outside the lease area. Enclosed observation

	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.	well's location map <b>Annexure-4</b> and monitoring reports as <b>Annexure -6</b>
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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.	Being complied as per the directive of the Atomic Energy Regulations Board (AERB), DAE and reports submitted periodically. Enclosed <b>Annexure - 8</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 APCZMA for the purpose of record	Approval obtained for Wildlife Conservation Plan from the Prl. Chief Conservator of Forests (WL) & Chief Wildlife Warden, Hyderabad. Submitted <b>vide Ir.no. TSPL/MIN/MoEF/ENV/15-16/921 Dated 28-11-2015</b>
11	The afforestation with suitable species shall be implemented to act as shelter belt/wind break to stabilize the filled up areas.	Being complied. Submitted <b>vide Ir.no.TSPL/MIN/MoEF/ENV/15-16/921 Dated 28-11-2015</b>
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..
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.



500ftts Link

BAY OF BANGAL

BAY OF BANGAL

SOUTH-EAST BLOCK CO-ORDINATES		SOUTH-WEST BLOCK CO-ORDINATES	
Block No.	Latitude & Longitude	Block No.	Latitude & Longitude
1	10° 22' 30" N, 80° 22' 30" E	1	10° 22' 30" N, 80° 22' 30" E
2	10° 22' 30" N, 80° 22' 30" E	2	10° 22' 30" N, 80° 22' 30" E
3	10° 22' 30" N, 80° 22' 30" E	3	10° 22' 30" N, 80° 22' 30" E
4	10° 22' 30" N, 80° 22' 30" E	4	10° 22' 30" N, 80° 22' 30" E
5	10° 22' 30" N, 80° 22' 30" E	5	10° 22' 30" N, 80° 22' 30" E
6	10° 22' 30" N, 80° 22' 30" E	6	10° 22' 30" N, 80° 22' 30" E
7	10° 22' 30" N, 80° 22' 30" E	7	10° 22' 30" N, 80° 22' 30" E
8	10° 22' 30" N, 80° 22' 30" E	8	10° 22' 30" N, 80° 22' 30" E
9	10° 22' 30" N, 80° 22' 30" E	9	10° 22' 30" N, 80° 22' 30" E
10	10° 22' 30" N, 80° 22' 30" E	10	10° 22' 30" N, 80° 22' 30" E
11	10° 22' 30" N, 80° 22' 30" E	11	10° 22' 30" N, 80° 22' 30" E
12	10° 22' 30" N, 80° 22' 30" E	12	10° 22' 30" N, 80° 22' 30" E
13	10° 22' 30" N, 80° 22' 30" E	13	10° 22' 30" N, 80° 22' 30" E
14	10° 22' 30" N, 80° 22' 30" E	14	10° 22' 30" N, 80° 22' 30" E
15	10° 22' 30" N, 80° 22' 30" E	15	10° 22' 30" N, 80° 22' 30" E
16	10° 22' 30" N, 80° 22' 30" E	16	10° 22' 30" N, 80° 22' 30" E
17	10° 22' 30" N, 80° 22' 30" E	17	10° 22' 30" N, 80° 22' 30" E
18	10° 22' 30" N, 80° 22' 30" E	18	10° 22' 30" N, 80° 22' 30" E
19	10° 22' 30" N, 80° 22' 30" E	19	10° 22' 30" N, 80° 22' 30" E
20	10° 22' 30" N, 80° 22' 30" E	20	10° 22' 30" N, 80° 22' 30" E

GROUND CONTROL POINTS (GCP)		
Point No.	Latitude & Longitude	Remarks
GCP 1	10° 22' 30" N, 80° 22' 30" E	Survey Station - Benchmark
GCP 2	10° 22' 30" N, 80° 22' 30" E	Survey Station - Benchmark
GCP 3	10° 22' 30" N, 80° 22' 30" E	Survey Station - Benchmark

**TRINEX INDUSTRIES LTD.**  
 A COMPANY INCORPORATED UNDER THE COMPANIES ACT, 1956  
 REGISTERED OFFICE: CHENNAI, INDIA

**BOUNDARY MAP**

Scale: 1:10,000  
 Date: 10/10/2017

Prepared by: [Signature]  
 Checked by: [Signature]  
 Approved by: [Signature]

T2/10CL/1104/17/12/20

**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/B/0916 dt 10.10.2016  
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 : 21.09.2016

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	8.15	7.95	8.0	7.8	7.4
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	1180mgpl	1580mgpl	1690mgpl	720mgpl	2490mgpl
5	Total Suspended Solids	5mgpl	5mgpl	6mgpl	5mgpl	7mgpl
6	Turbidity	3.8 NTU	6.2 NTU	7.2 NTU	2.5NTU	8.5 NTU
7	Total Hardness as CaCo3	450 mgpl	180mgpl	440mgpl	120mgpl	390mgpl
8	Calcium as CaCo3	290mgpl	120mgpl	290mgpl	80mgpl	250mgpl
9	Magnesium as CaCo3	160mgpl	60mgpl	150 mgpl	40mgpl	140 mgpl
10	Chlorides Cl-	290mgpl	280mgpl	460mgpl	105mgpl	685mgpl
11	Flouride	0.6mgpl	0.5mgpl	0.5mgpl	0.4mgpl	0.5mgpl
12	Sulphates	120mgpl	35mgpl	90mgpl	30mgpl	62mgpl
13	Nitrates	22.0 mgpl	12.8 mgpl	14.0mgpl	10.5 mgpl	18.5 mgpl
14	Phosphates	BDL	BDL	BDL	BDL	BDL
15	Iron	0.03mgpl	0.05mgpl	0.05mgpl	0.03mgpl	0.05mgpl
16	Lead	BDL	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	2.55	2.45	1.75	3.4	-

For TEAM Labs and Consultants



**Registered Office :**

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**TEST REPORT**

Test Report No. TLC/V/Env/TSPL/10/0916

dt 10.10.2016

Description of Test: Phisico-chemical Analysis of Water

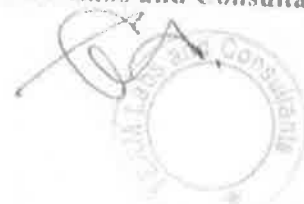
Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: Water samples as per Details given

Date of Sample Collected : 21.09.2016

No	Parameter	Komara vanipeta O. W. water	Bandaruvani peta O. W. water	Chinatonangi open well water	Batchuvanipeta open well water
1	pH	7.4	7.6	7.5	7.3
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	1550mgpl	790mgpl	610 mgpl	1990mgpl
5	Total Suspended Solids	5mgpl	5mgpl	5mgpl	5mgpl
6	Turbidity	4.0 NTU	4.8 NTU	3.0NTU	8.5 NTU
7	Total Hardness as CaCo3	540mgpl	460mgpl	180mgpl	760mgpl
8	Calcium as CaCo3	360mgpl	280mgpl	110mgpl	480mgpl
9	Magnesium as CaCo3	180mgpl	180 mgpl	70mgpl	280mgpl
10	Chlorides Cl-	350mgpl	180mgpl	120mgpl	950mgpl
11	Flouride	0.5mgpl	0.5mgpl	0.4mgpl	0.6mgpl
12	Sulphates	60mgpl	50mgpl	35mgpl	160mgpl
13	Nitrates	28.5 mgpl	11.5 mgpl	10.5mgpl	11.9 mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.07mgpl	0.04gpl	0.05mgpl	0.07mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	2.3	2.25	1.15	1.75

For TEAM Labs and Consultants





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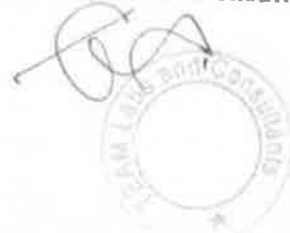
ISO 9001 : 2008, ISO 14001 : 2004 and OHSAS 18001 : 2007 Certified Organization  
Laboratory Recognised by Ministry Environment, Forests and Climate Change, Gol, New Delhi

**TEST REPORT**

Test Report No.TLC/V/Env/TSPL/9/0916 dt10.10.2016  
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 : 21.09.2016

No	parameter	Pond at Vatchavalasa	PCP open well	MSP Open well
1	pH	7.4	7.5	7.8
2	Colour Hazen units	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	450	405mgpl	650mgpl
5	Total Suspended Solids	5	5mgpl	5mgpl
6	Turbidity	1.6NTU	2.5NTU	3.2 NTU
7	Total Hardness as CaCo3	150mgpl	115mgpl	220mgpl
8	Calcium as CaCo3	90mgpl	80mgpl	140mgpl
9	Magnesium as CaCo3	60mgpl	35mgpl	80mgpl
10	Chlorides Cl-	110mgpl	90mgpl	98mgpl
11	Flouride	0.5 mgpl	0.4mgpl	0.4mgpl
12	Sulphates	30mgpl	20mgpl	30mgpl
13	Nitrates	0.5mgpl	0.5mgpl	0.5 mgpl
14	Phosphates	BDL	BDL	BDL
15	Iron	0.04mgpl	0.03mgpl	0.04mgpl
16	Lead	BDL	BDL	BDL
	Water table from groundlevel inmtrs	-	1.7	2.90

For TEAM Labs and Consultants





**Labs and Consultants****1013****Registered Office :**

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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/8/0816 dt16.09.2016  
 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 : 11.08.2016

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	7.4	7.95	7.95	7.9	7.4
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	1750mgpl	1650mgpl	1540mgpl	680mgpl	2570mgpl
5	Total Suspended Solids	5mgpl	5mgpl	7mgpl	5mgpl	7mgpl
6	Turbidity	4.0 NTU	5.0 NTU	4.4 NTU	2.0NTU	7.0 NTU
7	Total Hardness as CaCo3	330 mgpl	205mgpl	540mgpl	195mgpl	510mgpl
8	Calcium as CaCo3	210mgpl	120mgpl	320mgpl	115mgpl	290mgpl
9	Magnesium as CaCo3	120mgpl	85mgpl	220 mgpl	80mgpl	220 mgpl
10	Chlorides Cl-	260mgpl	290mgpl	480mgpl	130mgpl	660mgpl
11	Flouride	0.6mgpl	0.4mgpl	0.5mgpl	0.4mgpl	0.5mgpl
12	Sulphates	92mgpl	40mgpl	115mgpl	32mgpl	80mgpl
13	Nitrates	19.5 mgpl	15.5 mgpl	22.5mgpl	17.2 mgpl	24.0 mgpl
14	Phosphates	BDL	BDL	BDL	BDL	BDL
15	Iron	0.04mgpl	0.05mgpl	0.06mgpl	0.04mgpl	0.05mgpl
16	Lead	BDL	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	3.36	2.75	3.30	6.50	-

For TEAM Labs and Consultants



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**TEST REPORT**

Test Report No.TLC/V/Env/TSPL/10/0816

dt16.09.2016

Description of Test: Phisico-chemical Analysis of Water

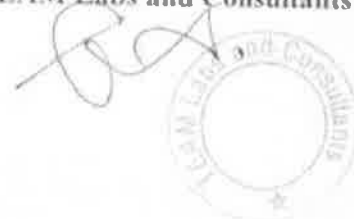
Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: Water samples as per Details given

Date of Sample Collected : 11.08.2016

No	Parameter	Komara vanipeta O. W.water	Bandaruvani peta O. W.water	Chinatonangi open well water	Batchuvanipeta open well water
1	pH	7.5	7.7	7.7	7.2
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	1490mgpl	730mgpl	780 mgpl	1790 mgpl
5	Total Suspended Solids	5mgpl	5mgpl	5mgpl	5mgpl
6	Turbidity	3.0 NTU	4.2 NTU	3.7 NTU	5.0 NTU
7	Total Hardness as CaCo3	375mgpl	490mgpl	160mgpl	740mgpl
8	Calcium as CaCo3	260mgpl	320mgpl	90mgpl	480mgpl
9	Magnesium as CaCo3	115mgpl	170 mgpl	70mgpl	260mgpl
10	Chlorides Cl-	240mgpl	105mgpl	180mgpl	770mgpl
11	Flouride	0.3mgpl	0.4mgpl	0.4mgpl	0.4mgpl
12	Sulphates	78mgpl	70mgpl	30mgpl	155mgpl
13	Nitrates	32.6 mgpl	9.0 mgpl	8.0 mgpl	8.2 mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.07mgpl	0.04gpl	0.05mgpl	0.06mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	4.32	6.6	2.5	4.10

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**TEST REPORT**

Test Report No. TLC/V/Env/TSPL/9/0816

dt 16.09.2016

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 :

11.08.2016

No	parameter	Pond at Vatchavalasa	PCP open well	MSP Open well	PCP Tail water
1	pH	7.7	7.9	7.6	7.8
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	510	345mgpl	630mgpl	140
5	Total Suspended Solids	5	5mgpl	5mgpl	15
6	Turbidity	1.5NTU	2.0NTU	3.0 NTU	9.5 NTU
7	Total Hardness as CaCo3	105mgpl	105mgpl	205mgpl	65mgpl
8	Calcium as CaCo3	60 mgpl	70mgpl	130mgpl	45mgpl
9	Magnesium as CaCo3	45mgpl	35mgpl	750 mgpl	20mgpl
10	Chlorides Cl-	75mgpl	65mgpl	80mgpl	65mgpl
11	Flouride	0.5 mgpl	0.4mgpl	0.4mgpl	0.5 mgpl
12	Sulphates	32mgpl	22mgpl	35mgpl	22mgpl
13	Nitrates	0.5mgpl	0.5mgpl	0.6 mgpl	0.5mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.04mgpl	0.03mgpl	0.04mgpl	0.09mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from groundlevel inmtrs	-	2.15	2.90	-

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**TEST REPORT**

Test Report No. **TLC/V/Env/TSPL/8/0716** dt **08.08.2016**  
 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 : **19.07.2016**

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	7.8	7.8	7.8	7.7	7.4
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	1810mgpl	1690mgpl	1680mgpl	720mgpl	2670mgpl
5	Total Suspended Solids	5mgpl	5mgpl	7mgpl	5mgpl	9mgpl
6	Turbidity	4.4 NTU	5.7 NTU	5.2 NTU	4.0NTU	8.2 NTU
7	Total Hardness as CaCo <sub>3</sub>	310 mgpl	195mgpl	525mgpl	190mgpl	490mgpl
8	Calcium as CaCo <sub>3</sub>	190mgpl	110mgpl	310mgpl	115mgpl	280mgpl
9	Magnesium as CaCo <sub>3</sub>	120mgpl	85mgpl	215 mgpl	75mgpl	210 mgpl
10	Chlorides Cl-	270mgpl	285mgpl	460mgpl	120mgpl	640mgpl
11	Flouride	0.6mgpl	0.4mgpl	0.5mgpl	0.4mgpl	0.5mgpl
12	Sulphates	95mgpl	45mgpl	120mgpl	30mgpl	75mgpl
13	Nitrates	21.2mgpl	19.2 mgpl	27.5mgpl	15.2 mgpl	27.7 mgpl
14	Phosphates	BDL	BDL	BDL	BDL	BDL
15	Iron	0.05mgpl	0.05mgpl	0.06mgpl	0.04mgpl	0.05mgpl
16	Lead	BDL	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	3.25	2.81	3.28	6.53	-

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Test Report No. **TLC/V/Env/TSPL/10/0716** **TEST REPORT** dt08.08.2016Description 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 : **19.07.2016**

No	Parameter	Komara vanipeta O. W.water	Bandarvani peta O. W.water	Chinatonangi open well water	Batchuvanipeta open well water
1	pH	7.5	7.5	7.7	7.5
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	1560mgpl	790mgpl	840 mgpl	1990 mgpl
5	Total Suspended Solids	5mgpl	5mgpl	5mgpl	5mgpl
6	Turbity	3.5 NTU	3.0 NTU	3.5 NTU	5.0 NTU
7	Total Hardness as CaCo3	390mgpl	505mgpl	150mgpl	730mgpl
8	Calcium as CaCo3	270mgpl	325mgpl	90mgpl	480mgpl
9	Magnesium as CaCo3	120mgpl	180 mgpl	60mgpl	250mgpl
10	Chlorides Cl-	260mgpl	110mgpl	175mgpl	790mgpl
11	Flouride	0.3mgpl	0.4mgpl	0.4mgpl	0.4mgpl
12	Sulphates	75mgpl	75mgpl	35mgpl	160mgpl
13	Nitrates	35.6 mgpl	12.0 mgpl	7.5 mgpl	9.5 mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.07mgpl	0.04gpl	0.05mgpl	0.06mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	4.35	8.70	2.65	4.18

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Test Report No. TLC/V/Env/TSPL/9/0716 dt08.08.2016

Description of Test: Physico-chemical Analysis of Water

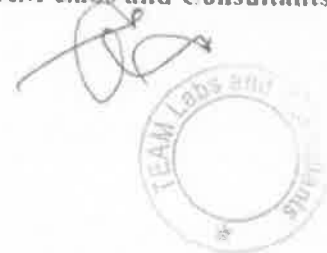
Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: Water samples as per Details given

Date of Sample Collected : 19.07.2016

No	parameter	Pond atVatchavalasa	PCP open well	MSP Open well	PCP Tail water
1	pH	7.8	7.9	7.6	7.8
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objection able	un objectionable	un objection able
4	Total Dissolved solids	525	350mgpl	640mgpl	145
5	Total Suspended Solids	5	5mgpl	5mgpl	15
6	Turbidity	1.8NTU	2.0NTU	4.0 NTU	10.2 NTU
7	Total Hardness as CaCo3	95mgpl	115mgpl	210mgpl	60mgpl
8	Calcium as CaCo3	60 mgpl	80mgpl	130mgpl	40mgpl
9	Magnesium as CaCo3	35mgpl	35mgpl	80 mgpl	20mgpl
10	Chlorides Cl-	70mgpl	70mgpl	75mgpl	70mgpl
11	Flouride	0.5 mgpl	0.4mgpl	0.4mgpl	0.5 mgpl
12	Sulphates	30mgpl	28mgpl	30mgpl	20mgpl
13	Nitrates	0.5mgpl	0.5mgpl	0.9 mgpl	0.5mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.04mgpl	0.03mgpl	0.04mgpl	0.09mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from groundlevel inmtrs	-	2.18	2.96	-

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**TEST REPORT**

Test Report No. TLC/V/Env/TSPL/8/0616 dt04.07.2016

Description of Test: Physico-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 : 18.06.2016

No	Parameter	Mogadalapadu Open Well water	Parlavanipeta Open Well water	Pedda vatsavalasa Open Well water	Verraguddi Open Well water	Pedda Tonangi Open Well water
1	pH	8.1	7.8	7.6	7.6	7.4
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	1880mgpl	1710mgpl	1930mgpl	790mgpl	2990mgpl
5	Total Suspended Solids	5mgpl	5mgpl	6mgpl	5mgpl	6mgpl
6	Turbidity	3.9 NTU	5.0 NTU	3.3NTU	3.2NTU	5.5NTU
7	Total Hardness as CaCo <sub>3</sub>	330 mgpl	185mgpl	540mgpl	180mgpl	510mgpl
8	Calcium as CaCo <sub>3</sub>	190mgpl	110mgpl	330mgpl	105mgpl	280mgpl
9	Magnesium as CaCo <sub>3</sub>	140mgpl	75mgpl	210 mgpl	75mgpl	230 mgpl
10	Chlorides Cl-	290mgpl	260mgpl	480mgpl	105mgpl	625mgpl
11	Flouride	0.6mgpl	0.4mgpl	0.5mgpl	0.4mgpl	0.5mgpl
12	Sulphates	105mgpl	55mgpl	115mgpl	32mgpl	90mgpl
13	Nitrates	18.5 mgpl	16.0 mgpl	24.5mgpl	10.2mgpl	29.5mgpl
14	Phosphates	BDL	BDL	BDL	BDL	BDL
15	Iron	0.04mgpl	0.03mgpl	0.05mgpl	0.04mgpl	0.05mgpl
16	Lead	BDL	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	3.21	2.78	3.25	6.49	

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Test Report No. TLC/V/Env/TSPL/10/0916 **TEST REPORT** dt04.07.2016

Description of Test: Physico-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 : 18.06.2016

No	Parameter	Komara vanipeta O. W. water	Chinna vatsavalasa O. W. water	Chinatonangi open well water	Batchuvanipeta open well water
1	pH	7.5	7.4	7.7	7.4
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	1690mgpl	805mgpl	970 mgpl	2120 mgpl
5	Total Suspended Solids	5mgpl	5mgpl	5mgpl	5mgpl
6	Turbidity	4.2 NTU	3.2 NTU	4.2 NTU	5.8 NTU
7	Total Hardness as CaCo3	410mgpl	510mgpl	160mgpl	740mgpl
8	Calcium as CaCo3	270mgpl	330mgpl	90mgpl	480mgpl
9	Magnesium as CaCo3	140mgpl	180 mgpl	70mgpl	260mgpl
10	Chlorides Cl-	290mgpl	120mgpl	190mgpl	810mgpl
11	Flouride	0.3mgpl	0.4mgpl	0.4mgpl	0.4mgpl
12	Sulphates	90mgpl	90mgpl	32mgpl	185mgpl
13	Nitrates	40.5 mgpl	18.0 mgpl	12.0mgpl	11.0 mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.06mgpl	0.04gpl	0.04mgpl	0.06mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	4.3	8.65	2.63	4.13

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**TEST REPORT**

Test Report No. TLC/V/Env/TSPL/9/0616 dt04.07.2016  
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 : 18.06.2016

No	parameter	Pond at Vatchavala sa/	PCP open well	MSP Open well	PCP Tail water
1	pH	8.25	7.8	7.6	7.8
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	550	390mgpl	690mgpl	155
5	Total Suspended Solids	5	5mgpl	5mgpl	16
6	Turbidity	1.4 NTU	2.6NTU	4.4 NTU	9.8NTU
7	Total Hardness as CaCo <sub>3</sub>	90mgpl	120mgpl	220mgpl	65mgpl
8	Calcium as CaCo <sub>3</sub>	60 mgpl	80mgpl	130mgpl	40mgpl
9	Magnesium as CaCo <sub>3</sub>	300mgpl	40mgpl	90 mgpl	25mgpl
10	Chlorides Cl-	70mgpl	62mgpl	90mgpl	80mgpl
11	Flouride	0.5 mgpl	0.4mgpl	0.4mgpl	0.5 mgpl
12	Sulphates	35mgpl	30mgpl	32mgpl	22mgpl
13	Nitrates	0.5mgpl	0.5mgpl	0.9 mgpl	0.5mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.05mgpl	0.04 mgpl	0.04mgpl	0.09mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from groundlevel in mtrs	-	2.14	2.92	-

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**TEST REPORT**

Test Report No. TLC/V/Env/TSPL/8/0516 dt 06.06.2016

Description of Test: Physico-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 : 09.05.2016

No	Parameter	Mogadalapadu. Open Well water	Parlavanipeta Open Well water	Pedda vatsavalasa Open Well water	Yerraguddi Open Well water
1	pH	7.6	8.1	8.1	7.8
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	740mgpl	1580mgpl	1090mgpl	745mgpl
5	Total Suspended Solids	5mgpl	5mgpl	8mgpl	5mgpl
6	Turbidity	4.4NTU	4.2 NTU	5.2NTU	3.9NTU
7	Total Hardness as CaCo <sub>3</sub>	420 mgpl	180mgpl	480mgpl	180mgpl
8	Calcium as CaCo <sub>3</sub>	240mgpl	110mgpl	270mgpl	105mgpl
9	Magnesium as CaCo <sub>3</sub>	180mgpl	70mgpl	210 mgpl	75mgpl
10	Chlorides Cl <sup>-</sup>	180mgpl	330mgpl	370mgpl	80mgpl
11	Flouride	0.4mgpl	0.4mgpl	0.5mgpl	0.4mgpl
12	Sulphates	45mgpl	40mgpl	85mgpl	35mgpl
13	Nitrates	12.2 mgpl	15.0 mgpl	14.5mgpl	8.5mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.04mgpl	0.03mgpl	0.05mgpl	0.04mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	3.21	2.70	3.2	6.40

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Test Report No. TLC/V/Env/TSPL/10/0516 dt06.06.2016

**TEST REPORT**  
Description of Test: Physico-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 : 09.05.2016

No	Parameter	Komara vanipeta O. W. water	Chinna vatsavalasa O. W. water	Chinatonangi open well water	Batchuvanipeta open well water
1	pH	7.5	7.7	7.6	7.8
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	1480mgpl	760mgpl	705	1850
5	Total Suspended Solids	5mgpl	5mgpl	5mgpl	5mgpl
6	Turbidity	5.8 NTU	3.3 NTU	3.7 NTU	6.6 NTU
7	Total Hardness as CaCo3	525mgpl	340mgpl	120mgpl	840mgpl
8	Calcium as CaCo3	315mgpl	250mgpl	80mgpl	520mgpl
9	Magnesium as CaCo3	210mgpl	90 mgpl	40mgpl	320mgpl
10	Chlorides Cl-	430mgpl	120mgpl	130mgpl	1140mgpl
11	Flouride	0.3mgpl	0.4mgpl	0.4mgpl	0.4mgpl
12	Sulphates	125mgpl	55mgpl	40mgpl	325mgpl
13	Nitrates	50.2 mgpl	14.4 mgpl	14.2mgpl	9.5 mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.06mgpl	0.04gpl	0.04mgpl	0.06mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	4.32	8.65	2.65	3.98

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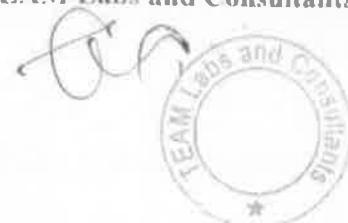
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**TEST REPORT**

Test Report No. **TLC/V/Env/TSPL/9/0516** dt **06.06.2016**  
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 : **09.05.2016**

No	parameter	Pond at Vatchavala sa/	PCP open well	MSP Open well	PCP Tail water
1	pH	7.2	8.1	7.6	8.8
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	485	355mgpl	680mgpl	145
5	Total Suspended Solids	5	5mgpl	5mgpl	20
6	Turbidity	1.2 NTU	2.9NTU	5.5 NTU	19.0NTU
7	Total Hardness as CaCo3	230mgpl	110mgpl	305mgpl	85mgpl
8	Calcium as CaCo3	180 mgpl	80mgpl	210mgpl	50 mgpl
9	Magnesium as CaCo3	50mgpl	30mgpl	95 mgpl	35mgpl
10	Chlorides Cl-	45mgpl	40mgpl	70mgpl	40mgpl
11	Flouride	0.5 mgpl	0.4mgpl	0.4mgpl	0.6 mgpl
12	Sulphates	70mgpl	35mgpl	30mgpl	18mgpl
13	Nitrates	0.4mgpl	0.5mgpl	0.5 mgpl	0.5mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.05mgpl	0.04 mgpl	0.04mgpl	0.08mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from groundlevel inmtrs	-	1.17	2.89	-

For TEAM Labs and Consultants





**Labs and Consultants**

456

**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 No. TLC/V/Env/TSPL/6/0416 dr02.05.2016

Description of Test: Physico-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 : 11.04.2016

No	Parameter	Mogadalapadu Open Well water	Parlavanieta Open Well water	Pedda vatsavalasa Open Well water	Yerraguddi Open Well water
1	pH	7.8	8.1	8.1	7.9
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	790mgpl	1790mgpl	1250mgpl	790mgpl
5	Total Suspended Solids	5mgpl	5mgpl	8mgpl	5mgpl
6	Turbidity	4.0NTU	3.5NTU	7.2NTU	3.2NTU
7	Total Hardness as CaCo3	430 mgpl	180mgpl	505mgpl	170mgpl
8	Calcium as CaCo3	240mgpl	110mgpl	290mgpl	95mgpl
9	Magnesium as CaCo3	190mgpl	70mgpl	215 mgpl	75mgpl
10	Chlorides Cl-	190mgpl	340mgpl	380mgpl	95mgpl
11	Flouride	0.4mgpl	0.4mgpl	0.5mgpl	0.4mgpl
12	Sulphates	45mgpl	42mgpl	90mgpl	30mgpl
13	Nitrates	14.2 mgpl	16.8 mgpl	18.5mgpl	9.5mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.04mgpl	0.03mgpl	0.06mgpl	0.04mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	3.2	2.75	3.2	6.46

For TEAM Labs and Consultants



**Labs and Consultants**

458

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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, Gol, New Delhi

**TEST REPORT**

Test Report No. TLC/V/Env/TSPL/8/0416 dt 02.05.2016

Description of Test: Physico-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 : 11.04.2016

No	Parameter	Komara vanipeta O. W. water	Chinna vatsavalasa O. W. water	Chinatonangi open well water	Batchuvanipeta open well water
1	pH	7.5	7.7	7.6	7.8
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	1530mgpl	740mgpl	715	1870
5	Total Suspended Solids	5mgpl	5mgpl	5mgpl	5mgpl
6	Turbidity	4.5NTU	2.8NTU	2.5 NTU	7.0NTU
7	Total Hardness as CaCo3	545mgpl	350mgpl	125mgpl	870mgpl
8	Calcium as CaCo3	335mgpl	250mgpl	80mgpl	540mgpl
9	Magnesium as CaCo3	210mgpl	100 mgpl	45mgpl	330mgpl
10	Chlorides Cl-	445mgpl	135mgpl	140mgpl	1205mgpl
11	Flouride	0.3mgpl	0.4mgpl	0.4mgpl	0.4mgpl
12	Sulphates	135mgpl	60mgpl	45mgpl	350mgpl
13	Nitrates	49.8 mgpl	12.8mgpl	11.9mgpl	6.6 mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.06mgpl	0.06gpl	0.05mgpl	0.05mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	4.32	8.69	2.65	4.10

For TEAM Labs and Consultants



**Labs and Consultants**

457

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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, Govt. New Delhi

**TEST REPORT**

Test Report No. TLC/V/Env/TSPL/7/0416 dt 02.05.2016  
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 : 11.04.2016

No	parameter	Pond at Vatchavalasa/ [unclear]	PCP open well	MSP Open well
1	pH	7.2	8.1	7.7
2	Colour Hazen units	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	470	340mgpl	720mgpl
5	Total Suspended Solids	5	5mgpl	5mgpl
6	Turbidity	1.6 NTU	3.9 NTU	4.8 NTU
7	Total Hardness as CaCo <sub>3</sub>	240mgpl	120mgpl	310mgpl
8	Calcium as CaCo <sub>3</sub>	180 mgpl	80mgpl	210mgpl
9	Magnesium as CaCo <sub>3</sub>	60mgpl	40mgpl	100 mgpl
10	Chlorides Cl <sup>-</sup>	40mgpl	45mgpl	75mgpl
11	Flouride	0.5 mgpl	0.4mgpl	0.4mgpl
12	Sulphates	82mgpl	30mgpl	32mgpl
13	Nitrates	0.4mgpl	0.5mgpl	0.8 mgpl
14	Phosphates	BDL	BDL	BDL
15	Iron	0.05mgpl	0.04 mgpl	0.04mgpl
16	Lead	BDL	BDL	BDL
	Water table from groundlevel in mtrs	-	2.1	2.89

For TEAM Labs and Consultants



## Piezometer Monitoring for the month of Apr-2016

Location	Date	Time	Temp (C)	pH	EC (uS/cm @25C)	TDS (mg/L)	SAL (PSU)	Water Table+MSL
PM-1	19-Apr-16	9:30:16	28.7	7.8	604	393	0.2	0.138
PM-2	19-Apr-16	9:50:04	29.1	8.4	266	173	0.09	5.404
PM-3	19-Apr-16	10:15:07	29.4	7.69	1012	658	0.56	5.266
PM-4	19-Apr-16	10:20:14	29.7	7.54	505	328	0.13	3.89
PM-5	19-Apr-16	12:19:57	29.9	7.18	345	224	0.11	3.137
PM-6	19-Apr-16	11:15:32	29.4	7.21	1321	858	0.63	0.43
PM-7	19-Apr-16	12:03:40	29.9	7.30	1164	756	0.55	3.35

## Piezometer Monitoring for the month of May-2016

Location	Date	Time	Temp (C)	pH	EC (uS/cm @25C)	TDS (mg/L)	SAL (PSU)	Water Table+MSL
PM-1	27-May-16	10:29:16	30.2	8.25	684	444	0.29	0.188
PM-2	27-May-16	11:03:13	32.1	8.2	166	107	0.05	4.494
PM-3	27-May-16	11:13:15	32.8	8.3	334	217	0.11	5.266
PM-4	27-May-16	15:13:11	33.6	8.21	746	484	0.31	3.34
PM-5	27-May-16	15:33:01	31.7	7.48	323	209	0.1	3.437
PM-6	27-May-16	15:55:43	29.9	7.58	1397	908	0.66	0.35
PM-7	27-May-16	15:43:05	30.9	7.46	727	472	0.3	2.8

## Piezometer Monitoring for the month of June-2016

Location	Date	Time	Temp (C)	pH	EC (uS/cm @25C)	TDS (mg/L)	SAL (PSU)	Water Table+MSL
PM-1	29-Jun-16	11:21:57	31.1	7.83	697	453	0.29	0.228
PM-2	29-Jun-16	13:52:49	30.7	7.24	236	153	0.07	4.194
PM-3	29-Jun-16	14:36:31	31.2	8.26	312	202	0.1	5.266
PM-4	29-Jun-16	15:35:22	29.7	8.03	801	520	0.34	3.44
PM-5	29-Jun-16	15:52:23	29.7	7.78	324	210	0.1	3.637
PM-6	29-Jun-16	16:44:09	29.4	7.3	1260	819	0.6	0.32
PM-7	29-Jun-16	16:25:36	29.8	7.25	287	186	0.09	3.25

### Piezometer Monitoring for the month of July-2016

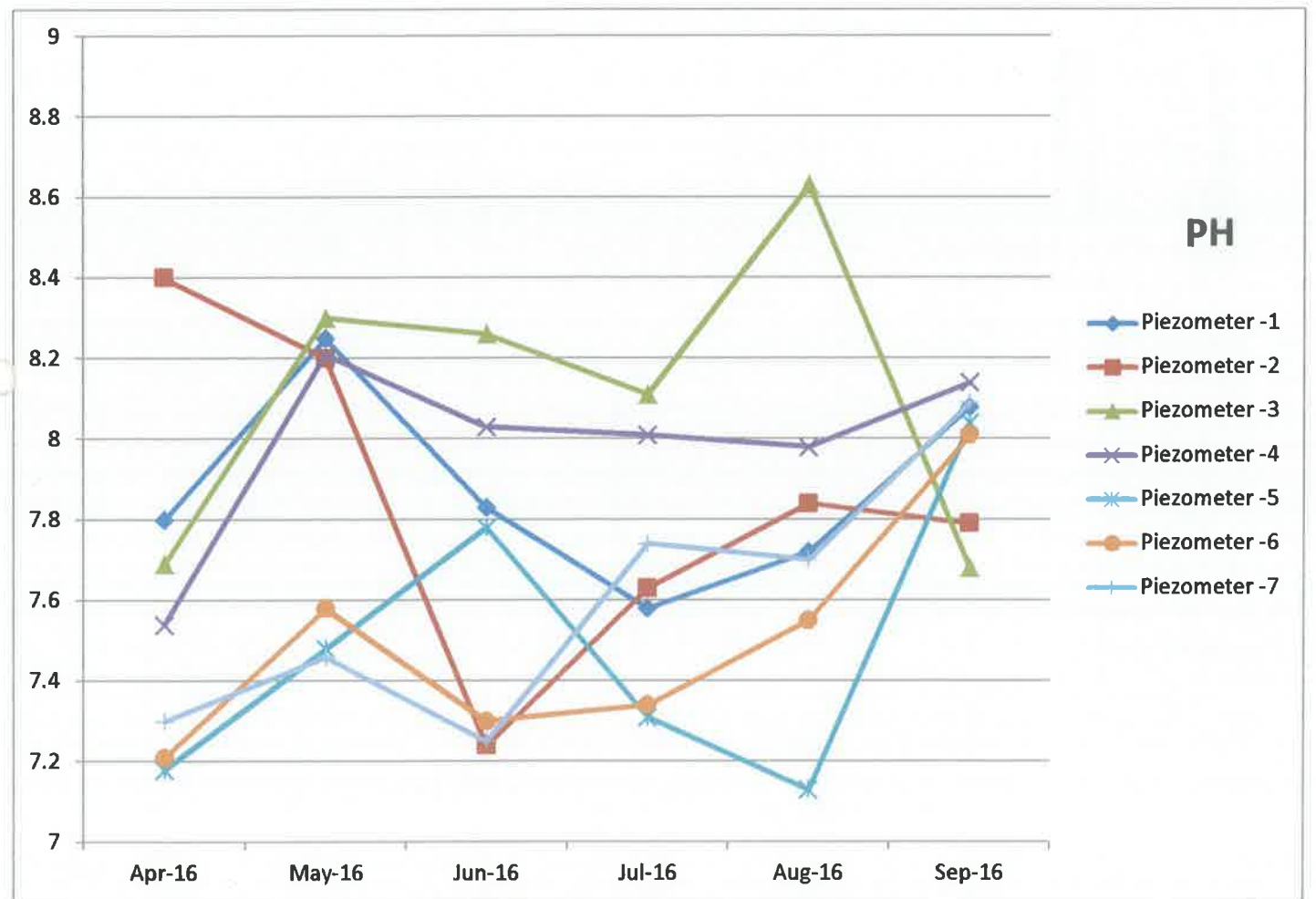
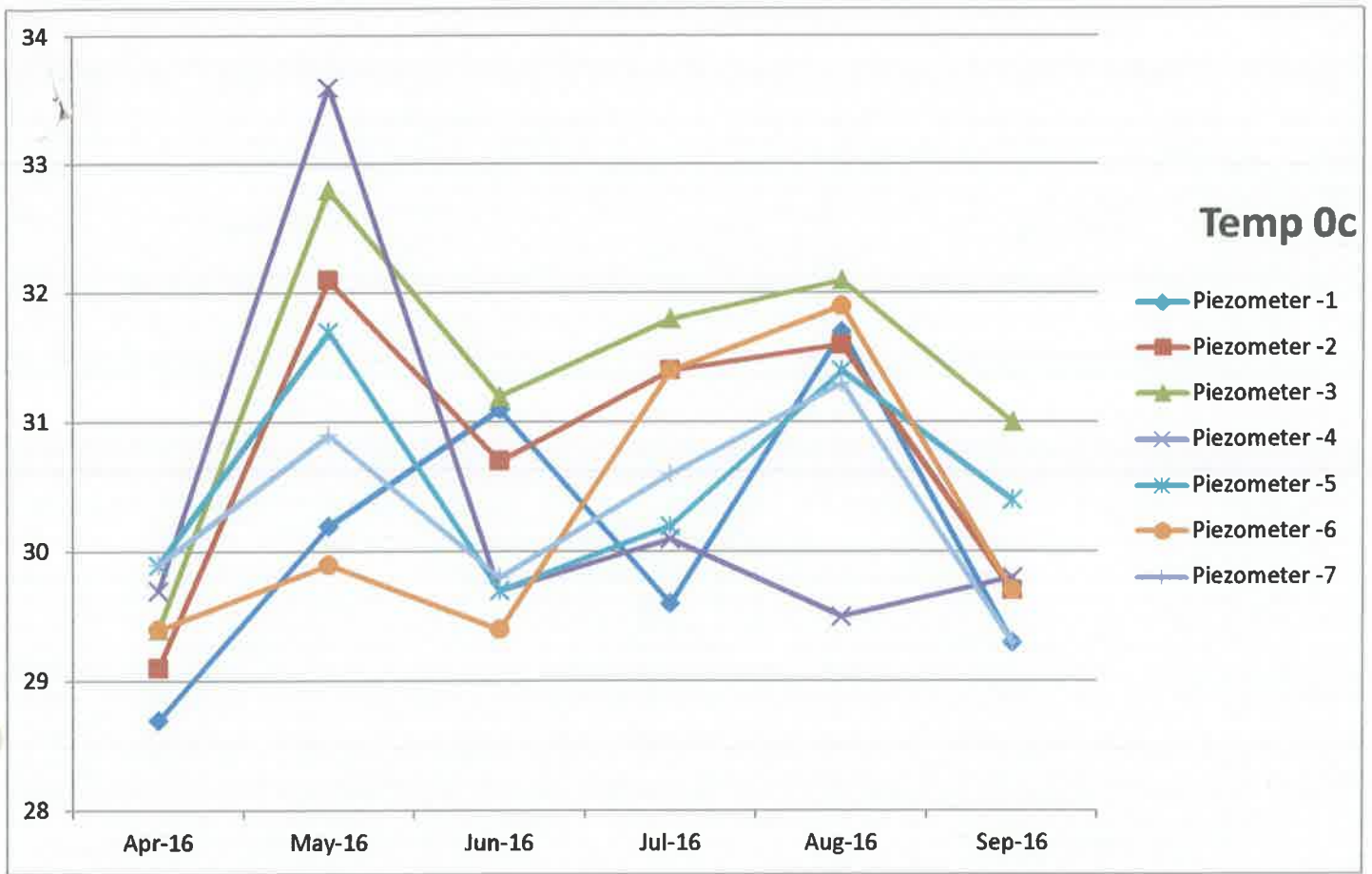
Location	Date	Time	Temp (C)	pH	EC (uS/cm @25C)	TDS (mg/L)	SAL (PSU)	Water Table+MSL
PM-1	28-Jul-16	11:39:35	29.6	7.58	602	391	0.25	0.58
PM-2	28-Jul-16	11:56:28	31.4	7.63	226	146	0.07	4.894
PM-3	28-Jul-16	12:13:39	31.8	8.11	313	203	0.1	5.906
PM-4	28-Jul-16	14:40:25	30.1	8.01	785	458	0.32	3.545
PM-5	29-Jul-16	15:21:41	30.2	7.31	310	201	0.1	4.207
PM-6	29-Jul-16	15:30:52	31.4	7.34	244	158	0.08	1.55
PM-7	29-Jul-16	16:39:52	30.6	7.74	774	503	0.32	3.93

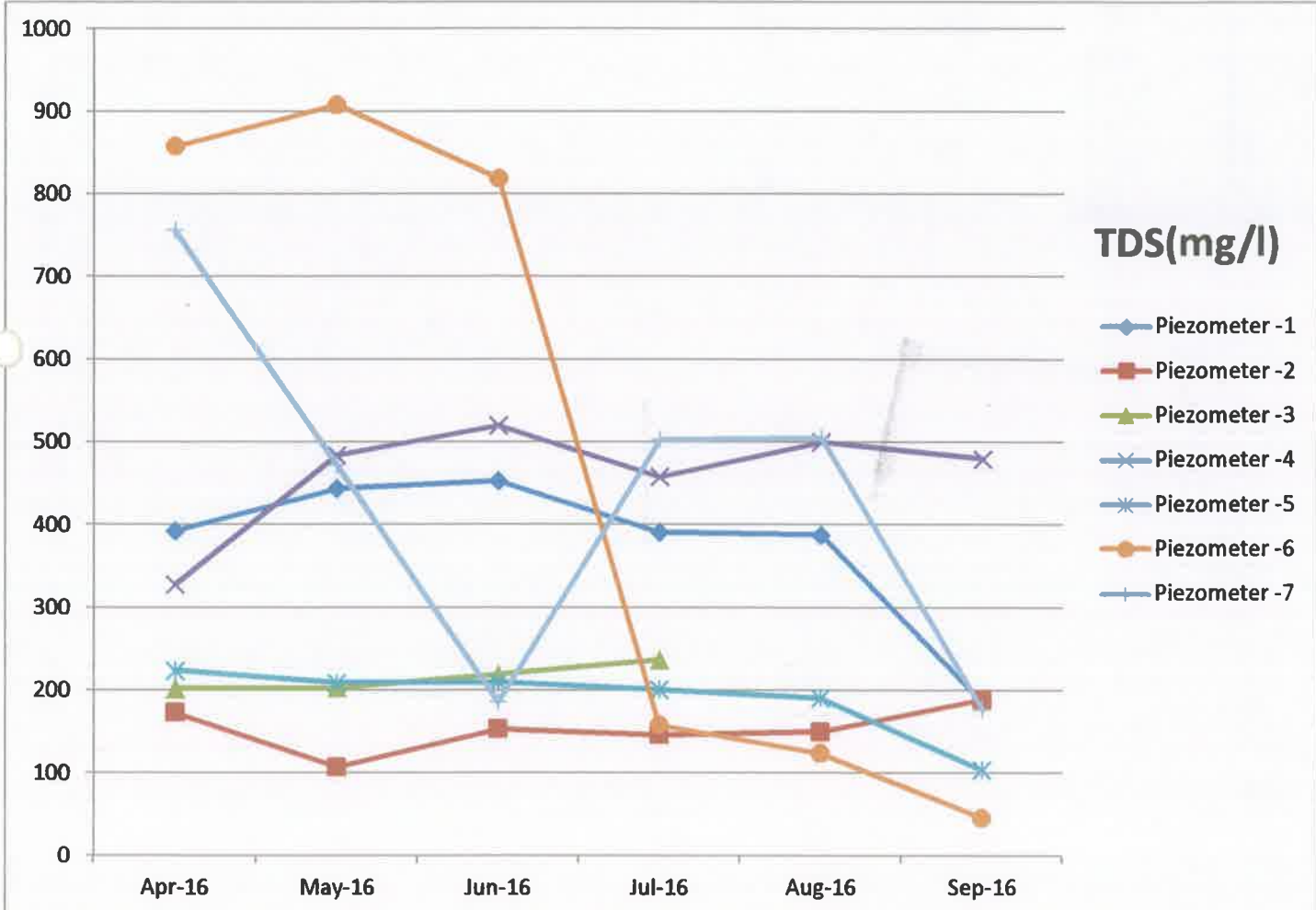
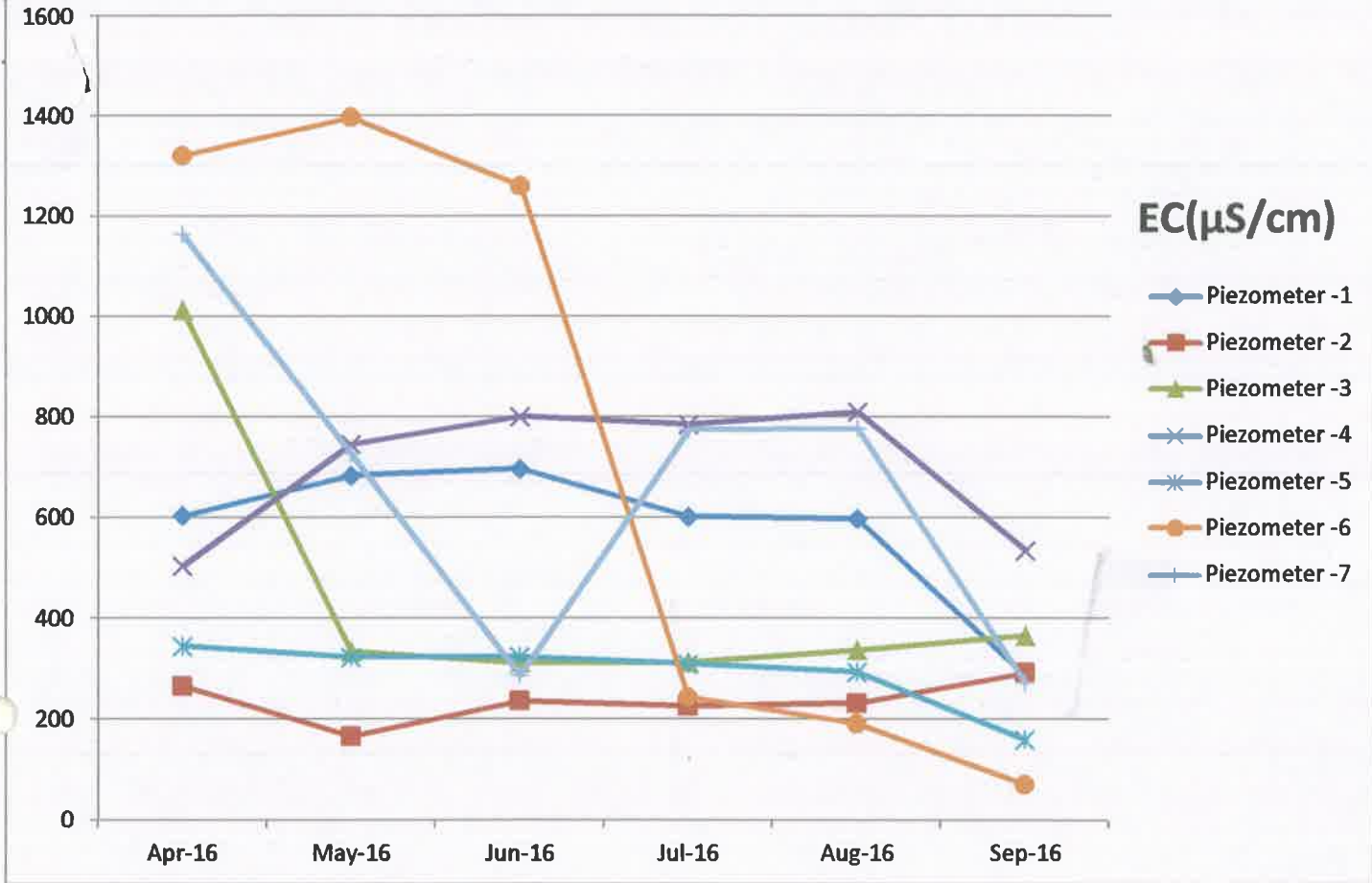
### Piezometer Monitoring for the month of August-2016

Location	Date	Time	Temp (C)	pH	EC (uS/cm @25C)	TDS (mg/L)	SAL (PSU)	Water Table+MSL
PM-1	18-Aug-16	10:56:15	31.7	7.72	598	388	0.25	0.83
PM-2	18-Aug-16	11:56:28	31.6	7.84	232	150	0.07	5.094
PM-3	18-Aug-16	12:39:35	32.1	8.63	337	219	0.11	5.966
PM-4	18-Aug-16	13:39:52	29.5	7.98	810	500	0.29	3.25
PM-5	18-Aug-16	16:21:41	31.4	7.13	294	191	0.09	4.157
PM-6	18-Aug-16	15:30:52	31.9	7.55	192	124	0.06	1.62
PM-7	18-Aug-16	16:39:52	31.3	7.7	777	505	0.33	4.03

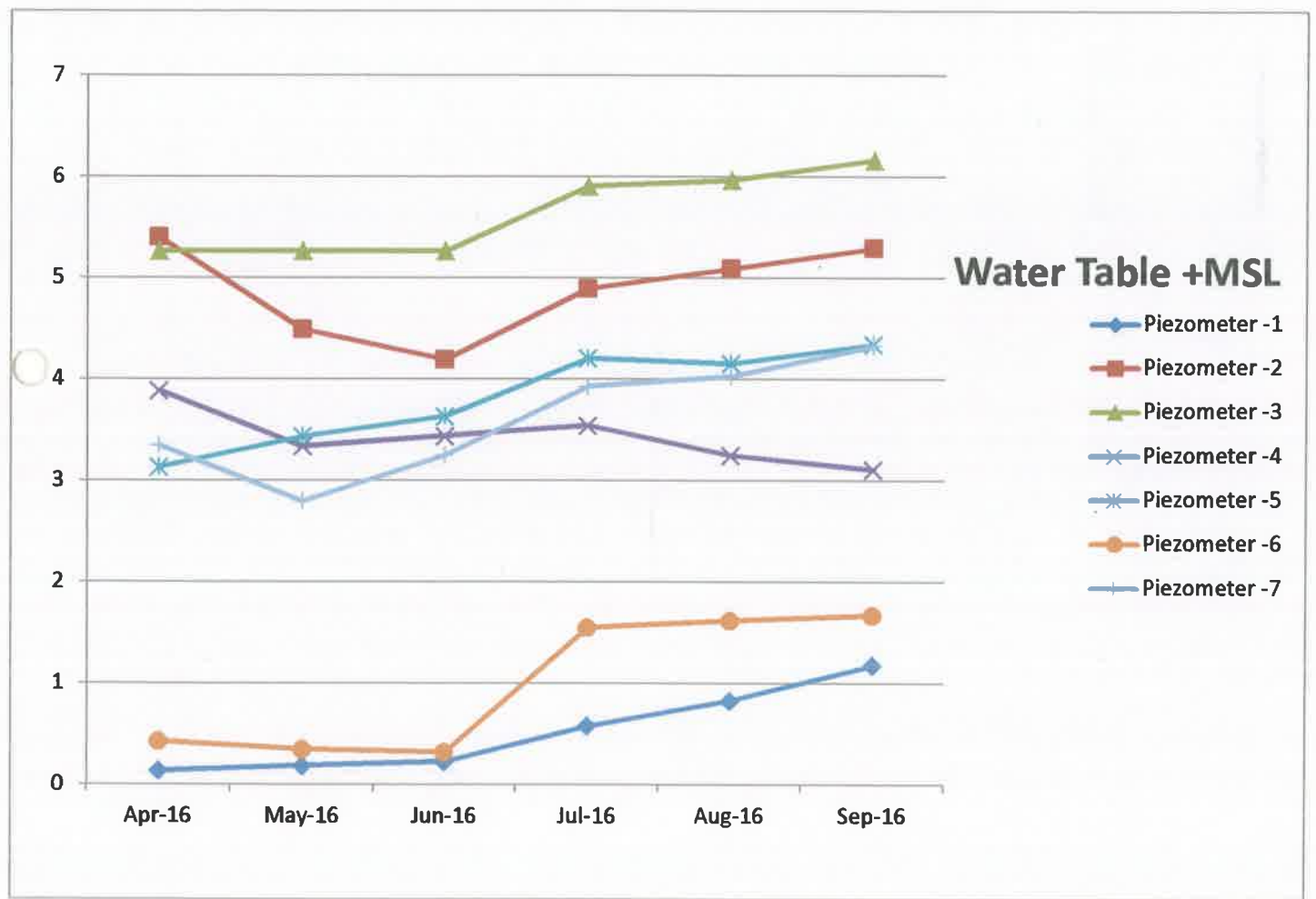
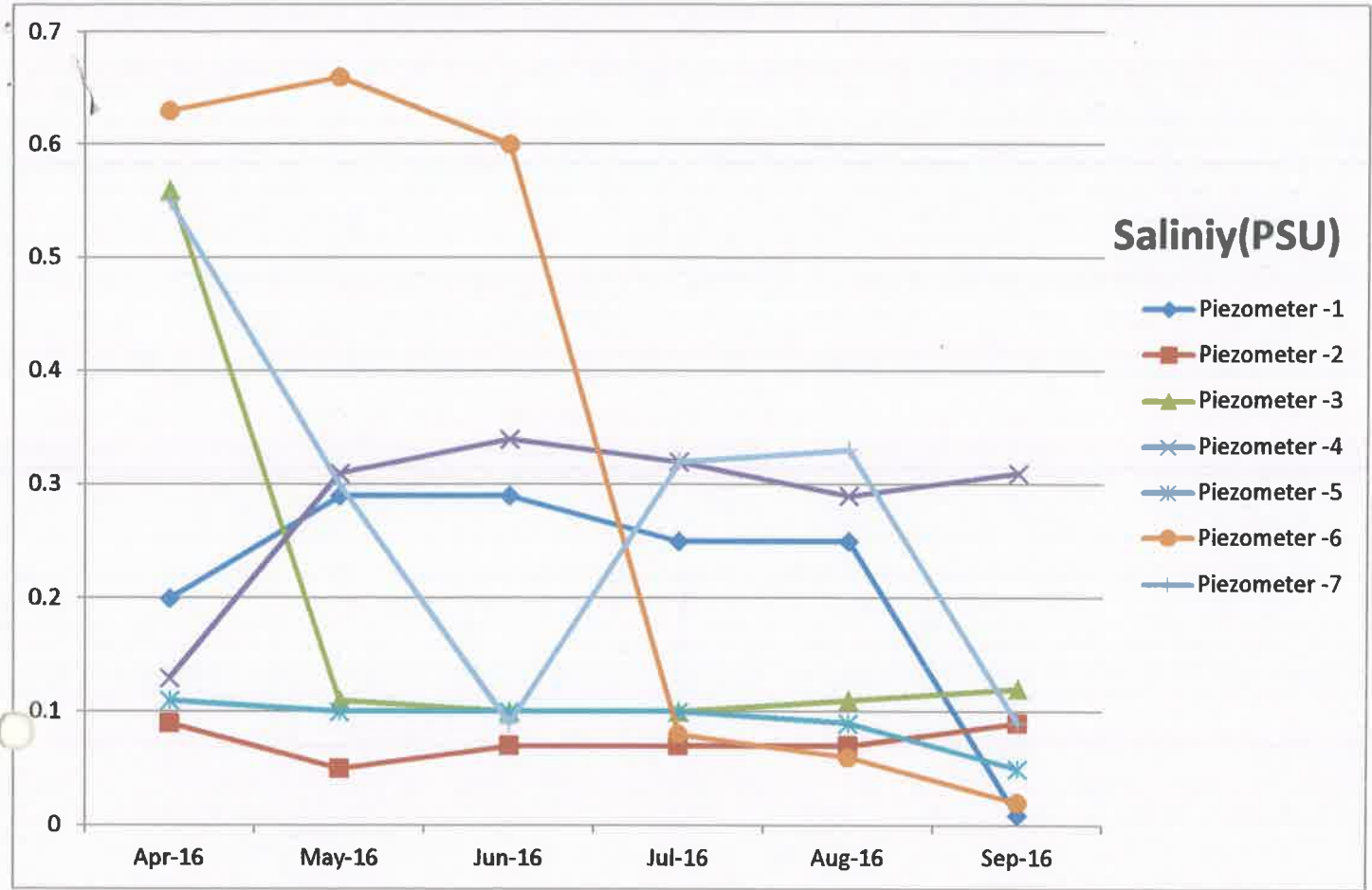
### Piezometer Monitoring for the month of September-2016

Location	Date	Time	Temp (C)	pH	EC (uS/cm @25C)	TDS (mg/L)	SAL (PSU)	Water Table+MSL
PM-1	28-Sep-16	10:29:16	29.3	8.08	287	186	0.09	1.18
PM-2	28-Sep-16	11:03:13	29.7	7.79	292	189	0.09	5.294
PM-3	28-Sep-16	11:13:15	31	7.68	366	237	0.12	6.166
PM-4	28-Sep-16	15:13:11	29.8	8.14	535	480	0.31	3.111
PM-5	28-Sep-16	15:33:01	30.4	8.04	160	104	0.05	4.347
PM-6	28-Sep-16	15:55:43	29.7	8.01	71	46	0.02	1.67
PM-7	28-Sep-16	15:43:05	29.3	8.09	273	177	0.09	4.33











## Plantation Details

YEAR	TYPE OF SPECIES	No of Plants	
		Plan	Actual
<b>Afforestation in Refilled areas :</b>			
2016-2017 (up to Sep, 2016)	Casuarina, Acacia, Eucalyptus, Cashew	31815	85,751
<b>Green Belt :</b>			
2016-2017 (up to Sep, 2016)	Eucalyptus, Acacia, Badam, Neem etc	2550	3800

6

**Afforestation in Back filled areas**





Annexure - 6

O/c.

TSPL/ENV/MOEF/2016-17/ 1025

Srikakulam,  
24-10-2016.

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

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.11-67/2013-1A-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 Jul to Sep, 2016.

Thanking You,

Yours faithfully,

Vice President (Mines)

CC:

Regional Director, CGWB, Hyderabad-500068  
Central Pollution Control Board, Bengalure  
AP Pollution Control Board, Hyderabad  
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, 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 - 600 016 Tamilnadu, India.  
Tel: +91 44 2498 8822 / 8813 Fax: +91 44 2498 6047 web: www.trimexsands.com

CIN : U14299TN2004PTC071437



TSPL/ENV/MoEF/2016-17/1004

Srikakulam,  
12-07-2016

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

Dear Sir,

Sub: Observation wells water quality data report 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 Apr-2016 to Jun-2016.

Thanking You,

Yours faithfully,

Vice President  
Mining

CC:

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



o/c

TSPL/ENV/MoEF/2016-17/1003

Srikakulam,  
12-07-2016

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

Dear Sir,

Sub: Soil analysis report - 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 Apr-2016 to Jun-2016.

Thanking You,

Yours Faithfully,

Vice President  
Mining

A handwritten signature in black ink, appearing to read "Mrs. R. R. R. R.", written over a horizontal line.

CC:  
AP Pollution Control Board, Hyderabad  
AP Pollution Control Board, Vizianagaram

TRIMEX

O/c.

TSPL/ENV/MOEF/2016-17/1026

Srikakulam,  
24-10-2016.

To  
The Regional Office (South Eastern Zone)  
Ministry of Environment, Forests and Climate Change  
1<sup>st</sup> & 2<sup>nd</sup> 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 Jul to Sep, 2016.

Thanking You,

Yours Faithfully,

  
Vice President (Mines)

CC:  
AP Pollution Control Board, Hyderabad  
AP Pollution Control Board, Vizianagaram

Trimex Sands Pvt Ltd: Varchavalasa (V), Gara Mandal, Srikakulam District, 532 404, Andhra Pradesh, India.  
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Tel: +91 44 2498 8822 / 8813 Fax: +91 44 2498 6047 web: www.trimexsands.com

CIN: U14299TN2004PTC071437



Water Sprinkling on Haul Roads



**Registered Office :**

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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, Govt, New Delhi**TEST REPORT**

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

dt 10.10.2016

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: 21.09.2016

Sample Description: Raw materials &amp; 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	0.13	0.12
2	Cr <sup>6+</sup>	Mg/l	NIL	NIL
3	Zinc	Mg/l	0.11	0.14
4	Cadmium	Mg/l	NIL	NIL
5	Lead	Mg/l	0.12	0.12
6	Copper	Mg/l	NIL	NIL
7	Iron	Mg/l	0.19	0.16
8	Cobalt	Mg/l	NIL	NIL
9	Nickel	Mg/l	NIL	NIL
10	Manganese	Mg/l	0.29	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><b>Sri TalapaguVenkata Ramana, SARD, NGO, Kotabommali</b></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><b>Action Plan</b></p> <p>Vocational training to youth. Employees will be provided with higher education facilities which will enhance their skills.</p> <p><b>Budget:</b> MinimumRs.2.0 Crores every year towards CSR activities.</p> <p><b>Timeframe:</b> Every year</p>	Complied
2	<p><b>Sri BaratamNageswaraRao, Market Committee Chairman, Srikurmam</b></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 industry providing livelihood to labor and fisherman community</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><b>Budget:</b> MinimumRs.2.0 Crores every year towards CSR activities.</p> <p><b>Timeframe:</b> Every year</p>	Complied
3	<p><b>Smt. Lopinti Lakshmi,</b></p>		<p><b>Budget:</b> MinimumRs.2.0</p>	Complied

	<p><b>Chintavalasa (v)</b></p> <p>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.</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>Crores every year towards CSR activities.</p> <p><b>Timeframe:</b> Every year</p>	
4	<p><b>Sri RanaSrinivas, MPTC, Chintavalasa (v)</b></p> <p>He welcomed the project and stated that the management has provided employment, laying of roads and other facilities in the surrounding villages.</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><b>Action Plan</b></p> <p>The management has assured that the development of road and other infrastructure facilities will also be taken up in their proposed CSR activities</p>	Complied
5	<p><b>Sri TelukutiManohar, Pedavatsavalasa (v)</b></p> <p>He welcomed the project and informed that he was 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</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><b>Action Plan</b></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><b>Budget:</b> MinimumRs.2.0 Crores every year towards CSR activities.</p>	Complied

	<p>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><b>Timeframe:</b> Every year</p>	
6	<p><b>Sri TaniVenkataApparao, PedaTulugu (v)</b></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><b>Action Plan</b></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><b>Budget:</b> MinimumRs.2.0 Crores every year towards CSR activities.</p> <p><b>Timeframe:</b> Every year</p>	Complied
7	<p><b>Sri M. AnandaRao, Fisherman Community, Komaravanipeta (v)</b></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</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</p>	<p><b>Action Plan</b></p> <p>The management has assured that needs of their villages will also be taken in their proposed CSR activities. <b>Budget:</b> MinimumRs.2.0 Crores every year towards CSR activities.</p> <p><b>Timeframe:</b> Every year</p>	Complied.

	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.	that the management would look into the employment of people in Tonangi village in their expansion project.		
8	<b>Sri T. SanthaRao, Tulugu (v)</b> He stated that, M/s Trimex 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.	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.	<b>Action Plan</b> The management has assured that needs of their villages will also be taken in their proposed CSR activities. <b>Budget:</b> MinimumRs.2.0 Crores every year towards CSR activities. <b>Timeframe:</b> Every year	Complied.
9	<b>Sri KurumanaAppaRao, Chintavalasa (v)</b> He expressed his happiness and stated that M/s Trimex Industries has provided employment, medical facilities and requested the	Dr. N. L. Rao, Head (Liaison), M/s Trimex Sands Pvt. Ltd expressed his thankfulness and promised that the	<b>Action Plan</b> The management has assured that needs of their villages will also be taken in their proposed CSR activities. <b>Budget:</b> MinimumRs.2.0 Crores every year towards CSR	Complied.

	management to provide slab to Government school in their village.	management would consider the suggestion given.	activities. <b>Timeframe:</b> Every year	
10	<b>Sri KomaraKorlayya, Komaravanipeta (v)</b>  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	<b>Sri KoyyanaJagadeesh, Koyyanapeta (v)</b>  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 management after understanding the grievance said by 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.	<b>Action Plan</b> The management has assured that needs of their villages will also be taken in their proposed CSR activities. <b>Budget:</b> MinimumRs.2.0 Crores every year towards CSR activities. <b>Timeframe:</b> Every year	Complied.
12	<b>Sri D. Simhadri, Tulugu (v)</b>  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.	<b>Action Plan</b> The management has assured that needs of their villages will also be taken in their proposed CSR activities. <b>Budget:</b> MinimumRs.2.0 Crores every year towards CSR activities. <b>Timeframe:</b> Every year	Complied.
13	<b>Sri Koyyana,</b>	The suggestions		Complied.



	<p><b>Satyanarayana, Tulug (v)</b></p> <p>He requested the management to develop local panchayat and provide employment to women also in the industry.</p>	<p>provided by the local panchayat has been accepted and it is committed to provide local employment to woman folk of the area,</p>		
14	<p><b>Sri TelukutiAppaRao, Peda Vatsavalasa (v)</b></p> <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>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><b>Action Plan</b></p> <p>Adequate protective measures will be 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.</p> <p><b>Budget:</b></p> <p>Minimum Rs.2.0 Crores every year towards CSR activities.</p> <p><b>Timeframe:</b> Every year</p>	Complied.
15	<p><b>Sri. G. Vijay Reddy, READS, NGO, Hyderabad</b></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</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</p>	<p>Total capital cost and annual recurring cost towards pollution control measures/ monitoring, occupational health &amp; safety, reclamation, green belt development etc would be Rs1064 lakhs and Rs1616 lakhs respectively.</p>	Complied.

	<p>River may cause water scarcity in the surrounding areas for agricultural and drinking water purposes. He requested the 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>drawn from a point at Vamsadara river, where no water drawal for irrigation is existing downstream.</p> <p>Apart from that 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><b>Sri KundiSuuryanarayana, Perlavanipeta (v), Ex-sarpanch</b></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 &amp; safety, reclamation, green belt development etc would be Rs1064 lakhs and Rs1616 lakhs respectively.</p>	Complied.
17	<p><b>Sri BandiRamu, Mugadalpadu (v)</b></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</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.</p> <p style="text-align: right;">A</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</p>	Complied.

	<p>the mining activity beyond 4 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>comprehensive hydrogeological study 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>measures/ monitoring, occupational health &amp; safety, reclamation, green belt development etc would be Rs1064 lakhs and Rs1616 lakhs respectively.</p>	
18	<p><b>Sri GunduRaghuram, Ex. MPP, Ampolu (v)</b></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>	Complied.
19	<p><b>Sri M. Krishna Murthy, Congress President, Gara (v)</b></p> <p>He stated that new industries are necessary for</p>	<p>Dr. N. L. Rao, Head (Liaison), M/s Trimex Sands Pvt. Ltd expressed his thankfulness and stated that the management</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</p>	Complied.

	<p>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>will take all the precautionary measures for pollution problems and will develop their area as a part of CSR activity.</p>	<p>annual recurring cost towards pollution control measures/ monitoring, occupational health &amp; safety, reclamation, green belt development etc would be Rs1064 lakhs and Rs1616 lakhs respectively.</p>	
20	<p><b>Smt. RangarajuVani, Srikurman (v)</b></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>	Complied.
21	<p><b>Sri Neeranjalu</b></p> <p>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</p>	<p>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</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,</p>	Complied.

	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,	part of CSR activity. The management informed that adequate measures will be adopted to minimize the impacts of mining operation on fishing activity	occupational health & safety, reclamation, green belt development etc would be Rs1064 lakhs and Rs1616 lakhs respectively.	
22	<b>Sri. K. Raju, MPTC, Srikurmam (v)</b>  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 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.	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/ monitoring, occupational health & safety, reclamation, green belt development etc would be Rs1064 lakhs and Rs1616 lakhs respectively.	Complied.
23	<b>Sri GaneswaraRao, Umaravalli (v)</b>  He stated that due to lack of industrialization there are no developmental activities in this area and migration for livelihood also increasing. He	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	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	Complied.

	<p>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>measures for pollution problems and will develop their area as a part of CSR activity.</p>	<p>measures/ monitoring, occupational health &amp; safety, reclamation, green belt development etc would be Rs1064 lakhs and Rs1616 lakhs respectively.</p>	
24	<p><b>Sri M.saidu Reddy, President of Green Corps Society, Hyderabad</b></p> <p>He suggested the following to the management:</p> <ol style="list-style-type: none"> <li>1) Management should allocate CSR fund of 2-5% from the profits.</li> <li>2) The management should provide greenbelt not only in the industry but in vacant lands to reduce pollution levels.</li> <li>3) He praised the District Collector for involving in taking up of CSR activities with the industries for developing the Government hostels.</li> <li>4) The Management should provide computer training</li> </ol>	<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. Total capital cost and annual recurring cost towards pollution control measures/ monitoring, occupational health &amp; safety, reclamation, green belt development etc would be Rs1064 lakhs and Rs1616 lakhs respectively.</p>	Complied.

	programmes to the local students and to educate them in all aspects.			
25	<p><b>Sri Sunanda Reddy, NGO, Hyderabad</b></p> <p>She suggested the following to the management</p> <ol style="list-style-type: none"> <li>1) The study in the area was carried out as per 2001 census but report to be carried out as per censuses 2011</li> <li>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.</li> <li>3) The proposed BT roads in the project would be damaged in rainy season, so management should explore for laying cement roads.</li> </ol>	<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>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>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 &amp; safety, reclamation, green belt development etc would be Rs1064 lakhs and Rs1616 lakhs respectively.</p>	Complied.



	<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>	Entire mined out lands would be refilled and afforested in a scientific manner.		
26	<p><b>Sri Gopi, Peda Vatsavalasa (v)</b></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 also increase the life time of the project thus increasing employment opportunity to the local people. He also requested the management</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 &amp; safety, reclamation, green belt development etc would be Rs1064 lakhs and Rs1616 lakhs respectively.</p>	Complied.

	that they should facilitate the day to day monitoring activity so as to get an idea of sea water intrusion.			
27	<p><b>Sri Tanmai, Engineering Student, Srikakulam</b></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 other issues.</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><b>Action Plan</b></p> <p>Vocational training will be provided to youth. Employees will be provided with higher education facilities which will enhance their skills.</p> <p><b>Budget:</b> Minimum Rs.2.0 Crores every year towards CSR activities.</p> <p><b>Timeframe:</b> Every year</p>	Complied.
28	<p><b>Sri Nagabhusanam</b></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</p>		Complied.

		develop their area as a part of CSR activity.		
29	<p><b>Sri P. PentaRao, President of Malamahanadu, Visakhapatnam</b></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 minimum wages to the labor working in the industry as per wages act.</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.
30	<p><b>Sri MaddelaChinnayya, Ex-MPTC, Vajrapukotturu (v)</b></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. Total capital cost and annual recurring cost towards pollution control measures/ monitoring, occupational health &amp; safety, reclamation, green belt development etc</p>	Complied.

			would be Rs1064 lakhs and Rs1616 lakhs respectively.	
31	<b>SmtLaxmiNarasimha Devi, Ex-MPTC, Tonangi (v)</b>  She welcomed the expansion of the industry, as she opined that, there is no pollution problem due to operation of the industry. She requested to provide employment to Tonangi village.	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.		Complied.
32	<b>Sri Guntu Laxmayya</b>  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.	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.	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.
33	<b>Sri Gondu Krishna Murthy, Chairman, District Co-operative Consumer Market</b>	Dr. N. L. Rao, Head (Liaison), M/s Trimex Sands Pvt. Ltd expressed his thankfulness and stated	Need based CSR activities will be continued by spending about Rs.2.0 Crores/year.	Complied.

	<p>He invited the project and stated that the management should provide infrastructure facilities and to develop the area. He requested to provide further employment in all villages in the expansion of the project.</p>	<p>that the management will take all possible ways to develop their area as a part of CSR activity.</p>		
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<b>CSR Expenditure from Aril-2016 to September-2016</b>		
<b>S.NO.</b>	<b>Nature of Activity</b>	<b>Amount Spent Rs. (in Lakhs)</b>
1	Self-Employment Training / Educational Infrastructure	10.43
2	Medical Facilities / Infrastructure	10.39
3	Community Welfare Schemes / Infrastructure	16.97
4	Infrastructure like Roads / Irrigation / Hostels	4.76
5	Sports	0.09
6	Green Belt (Surrounding Villages)	0.08
<b>Grand Total :</b>		<b>42.72</b>



Annexure-10

### Expenditure for Environmental measures

Recurring Expenditures		
S.No	Description	During the Period Apr to Sep, 2016 (in Rs.)
1	Environmental Monitoring – Air, Water & Noise (outsourced).	43,000
2	Dust suppression on roads in factory	1,49,000
3	PPE cost for dust and sound (dust masks, ear muffs, etc.).	25,000
4	De dusting & Bag filter –addition of bag filter and maintenance.	0
5	Expenditure on refilling / pumping from PCP, leveling by dozer.	45,40,000
6	Slime management cost in mines.	3,43,76,000
7	Thickener Operation.	1,23,94,000
8	Afforestation, Nursery maintenance (Seeds, Saplings, Manure, Watering, Wages etc.)	10,96,000
9	Fencing 100mts from HTL	34,000
Capital Expenditures		
1	Thickener	0
2	Slime management cost in mines	0
3	Water recovery plant	0
	<b>Total</b>	<b>5,26,57,000</b>



o/c  
Annexure - 11

TSPL/ENV/PCB/ES/2015-16/ 1007

Srikakulam,  
13.08.2016

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

Dear Sir,

Sub: Environmental Statement – Form-V - 2015-16 – 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 2015-16.

Thanking You

Yours faithfully

Vice President  
Mining

Cc:  
The Environment Engineer  
AP Pollution Control Board  
Regional Office, Plot no – 11  
1<sup>st</sup> 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 31<sup>st</sup> March, 2016**

**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. 28.09.2015  
(Vide Ir no TSPL/ENV/PCB/2014-15/909)

**PART - B**

(i) Water consumption, m<sup>3</sup>/d :

Process :- 7908 KLD  
Cooling :- - NA -  
Domestic :- 14.62 KLD

Name of Product	Process Water Consumption in m3 per unit of products	
	During the Previous Financial Year 2014-15	During the Current Financial Year 2015-16
	(1)	(2)
Ilmanite, Rutile, Garnet, Zircon, Sillimanite	9.36	8.40

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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 2014-15	During the Current Financial Year 2015-16
Beach Sand	Ilmanite, Rutile, Garnet, Zircon, Sillimanite	5.81	8.20

\* 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 of Pollutants Discharged	Quantity (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. 10 no.s observation wells and 7 No.s of piezometer wells are being monitored for water table and quality parameters. It is 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 2014-15	During the Current Financial Year 2015-16
(a) From Process	1927	2690
(b) From Pollution control facilities	NA	NA

PART -- E

**SOLID WASTES:-**

SOLID WASTES (silica sand tailings)	Total Quantity (tons)	
	During the Previous Financial Year 2014-15	During the Current Financial Year 2015-16
(a) From Process	14,88,119	23,74,980
(b) From Pollution Control Facility	NA	NA
(c)(i) Quantity to be recycled or reutilized within the unit	1,14,689	65,527
(ii) Sold	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	2690 liters (2015-16)	Inflammable	Stored in closed barrels in designated area and disposed by sale to the authorized agencies.
2	Silica Sand Tailings	23,74,980 tones (2015-16)	Non hazardous in nature	The same qty is back filled at mined out areas for reclamation and afforestation.
3	Waste Batteries	59 No.s	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

Plantation details for the year 2015-16 as follows

Types of species	PCP & MSP	Mining Area
Casuarina	--	65,464
Eucalyptus & Acacia	--	450
Palm Seeds	--	
Forest tree variety (Gulmohar, Badam, Neem, Kanuga)	4640	--
Total	4640	65,914

**Expenditure on Pollution control measures and Conservation of Natural Resources**

S.No	Description	During the Financial Year 2014-2015 (in Rs.)	During the current Financial Year 2015-2016 (in Rs.)
1	Environmental Monitoring – Air, Water & Noise (outsourced).	1,69,000	65,000
2	Dust suppression on roads in factory	3,83,652	2,08,000
3	PPE cost for dust and sound (dust masks, ear muffs, etc.).	4,43,561	2,96,000
4	De dusting & Bag filter –addition of bag filter and maintenance.	14,42,000	12,15,000
5	Expenditure on refilling / pumping from PCP, leveling by dozer.	1,18,67,046	68,85,000
6	Slime management cost in mines.	1,50,55,875	3,85,34,000
7	Thickener Operation.	1,65,97,741	1,37,90,000
8	Afforestation, Nursery maintenance (Seeds, Saplings, Manure, Watering, Wages etc.)	18,42,000	11,87,000
9	Fencing 100mts from HTL	---	60,000
<b>Capital Expenditures</b>			
1	Thickener	---	8,27,08,000
2	Slime management cost in mines	---	44,59,000
3	Water recovery plant	---	4,06,73,000
<b>Total</b>		<b>3,59,81,000</b>	<b>19,00,80,000</b>

**PART – H**

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

**Air Pollution Control Measures**

- Inside the plant premises CC roads are laid and mining area haul roads are being sprinkled with water periodically to ensure that there is no dust generation due to plying of vehicles.
- The plant is equipped with Air Pollution Control devices such as pulse jet bag filters & dust extraction systems etc. designed to control the emission (SPM) level below 115 mg/Nm<sup>3</sup> from any stacks installed at the plant.

- Bag filter efficiency test is being carried out periodically and report is 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 m<sup>3</sup>/hr of clean water.

### PART - I

Any other particulars for improving the quality of the environment.

- Using Conventional Florescent Lamps (CFL) at administrative building for energy conservation.
- Separate flow meter being maintained.
- Conducting World Environment Day & Vanamahostavam day celebrations by massive plantation program.
- Vermi compost being developed in house nursery to enrich the plantation pits.
- Concentrate produced at wet plant is transported to the dry plant through pumping instead of tripper transportation.

Place: Srikakulam

Signature: 

Date: 13-08-16

Designation: Vice President