



TSPL/MIN/MoEF/ENV/17-18/1085

Srikakulam,
30-06-2017.

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'2016 –Mar'2017– 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'2016 –Mar'2017.

Thanking you

Yours truly


Mines Manger

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.
Tel: +91 8942 283755, Fax: +91 8942 283758, email: info@trimexsands.com

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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

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. Consent to Operate was obtained from PCB and submitted vide letter No. TSPL/MIN/MoEF/ENV/15-16/922 dated 28-11-2015 before starting of mining activity.
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 for Schedule-I (Ridley Turtle) 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 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 sand tailings concurrently. Enclosed photographs of the site, before and after the mining as per Annexure – 1.
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 are complied as detailed, proof submitted vide letter No. TSPL/MIN/MoEF/ENV/16-17/1037, dated: 29.11.2016.
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.
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. 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

S.No	Conditions	Compliance
		observation wells as Annexure-2 and water monitoring reports are enclosed as Annexure - 3 .
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 Annexure - 4
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. of observation well situated within and outside the mining lease area. Soil analysis is also carried out once in 3 months as enclosed as Annexure - 3 & 5 . (there is no soil analysis report in annexure)
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.	No Ground water drawal is required with in ML and 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 6 . 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 Annexure - 7
17	A green belt shall be developed after mining and refilling block by block.	Complied. Enclosed details of plantation as per Annexure -4
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 implemented and submitted vide letter No. TSPL/MIN/MoEF/ENV/16-17/1037, dated 29-11-2016. CSR expenditure details for the year 2016-17 are enclosed as Annexure -8 .
20	Mineral processing plant shall be located	Mineral processing plant is located outside CRZ

S.No	Conditions	Compliance
	outside CRZ area.	area – Enclosed map with Annexure -2
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 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 financial year 2016-17 given as Annexure - 9
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	Noted.

S.No	Conditions	Compliance
	ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	
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. All other statutory clearances have been obtained and submitted vide Ir.no. TSPL/MIN/MoEF/ENV/15-16/922 Dated 28-11-2015.
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 should be forwarded to the Regional Office of this Ministry at Chennai.	Complied. An advertisement in two local newspapers were given and copies of the same were submitted to RO, Chennai vide letter Dated 05.05.2015.
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	Complied. The copy of EC was sent to local

S.No	Conditions	Compliance
	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.	panchayat vide letter dated 05.05.2015. The clearance letter was uploaded on the company's website.
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.
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. The same is being sent to RO by E-mail also. Proof submitted vide letter No. TSPL/MIN/MoEF/ENV/16-17/1037, dated: 29.11.2016.

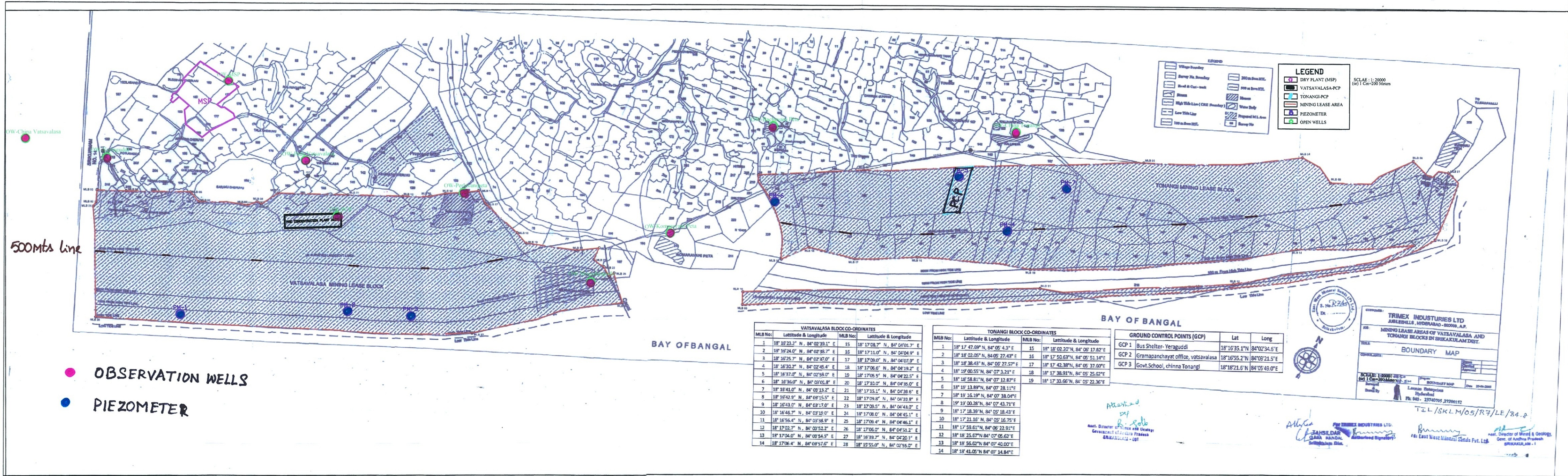
Annexure - 1

Before Mining



After Mining





● OBSERVATION WELLS
● PIEZOMETER

Attested by
Asst. Director of Mines and Geology
Government of Andhra Pradesh
SRIKAKULAM - 1

Attested by
J. J. J. J.
G. J. J. J.
S. J. J. J.

TRIMEX INDUSTRIES LTD
J. J. J. J., HYDERABAD - 500003, A.P.
MINING LEASE AREAS OF VATSAVALASA AND
TONANGI BLOCKS IN SRIKAKULAM DIST.
BOUNDARY MAP
Scale: 1:20000
Date: 25-04-2008
P. No: 23740705, 27200192
TIL/SKLM/05/R7/LE/84-2

Attested by
J. J. J. J.
G. J. J. J.
S. J. J. J.

TEAM**Labs and Consultants****ORIGINAL**

Form-No. TCLL/GF/RF-138

2179**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/8/0317

dt04.04.2017

Description of Test:

Phisico-chemical Analysis of Water

Name of the client:

Trimex Sands Pvt. Ltd.

Location of sampling:

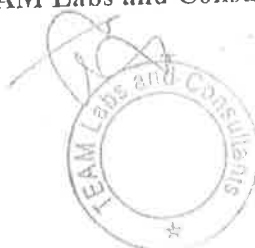
Water samples as per Details given

Date of Sample Collected :

14.03.2017

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	8.05	8.15	7.90	8.2	8.05
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	1150mgpl	1950mgpl	610mgpl	1850mgpl
5	Total Suspended Solids	5mgpl	5mgpl	8mgpl	5mgpl	7mgpl
6	Turbidity	4.5 NTU	4.9 NTU	8.5NTU	2.5NTU	8.2 NTU
7	Total Hardness as CaCo3	390 mgpl	190mgpl	490mgpl	105mgpl	460mgpl
8	Calcium as CaCo3	250mgpl	130mgpl	310mgpl	70mgpl	310mgpl
	Magnesium as CaCo3	140mgpl	60mgpl	180 mgpl	35mgpl	150 mgpl
10	Chlorides Cl-	150mgpl	220mgpl	450mgpl	80mgpl	480mgpl
11	Flouride	0.6mgpl	0.5mgpl	0.5mgpl	0.4mgpl	0.5mgpl
12	Sulphates	70mgpl	170mgpl	235mgpl	75mgpl	275mgpl
13	Nitrates	62.0 mgpl	22.8/ mgpl	32.5 mgpl	3.0 mgpl	7.5 mgpl
14	Phosphates	BDL	BDL	BDL	BDL	BDL
15	Iron	0.06mgpl	0.05mgpl	0.06mgpl	0.05mgpl	0.04mgpl
16	Lead	BDL	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	3.89	3.15	3.8	5.9	

For TEAM Labs and Consultants



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TEST REPORT

Test Report No.TLC/V/Env/TSPL/9/0317

dt04.04.2017

Description of Test: Phisico-chemical Analysis of Water

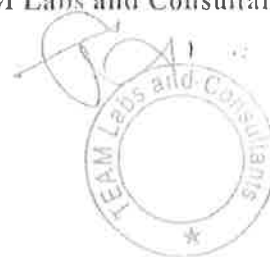
Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: Water samples as per Details given

Date of Sample Collected : 14.03.2017

No	parameter	PCP open well	Tails water	Pond at Vatchavalasa	MSP Open well
1	pH	7.7	7.9	8.05	7.9
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	250	250mgpl	740	330mgpl
5	Total Suspended Solids	5	12mgpl	5	5mgpl
6	Turbidity	1.5NTU	5.5NTU	1.8NTU	3.0 NTU
7	Total Hardness as CaCo3	60mgpl	80mgpl	150mgpl	190mgpl
8	Calcium as CaCo3	40mgpl	60mgpl	90mgpl	120mgpl
9	Magnesium as CaCo3	20mgpl	20mgpl	60mgpl	70mgpl
10	Chlorides Cl-	65mgpl	45mgpl	210mgpl	55mgpl
11	Flouride	0.5 mgpl	0.4mgpl	0.5 mgpl	0.4mgpl
12	Sulphates	35mgpl	40mgpl	32mgpl	35mgpl
13	Nitrates	0.5mgpl	0.5mgpl	1.5mgpl	0.5 mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.05mgpl	0.06mgpl	0.03mgpl	0.03mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from groundlevel inmtrs	1.9	-	-	1.99

For TEAM Labs and Consultants



Labs and Consultants**2181****Registered Office :**

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Test Report No.TLC/V/Env/TSPL/10/0317

dt04.04.2017

Description of Test: Phisico-chemical Analysis of Water

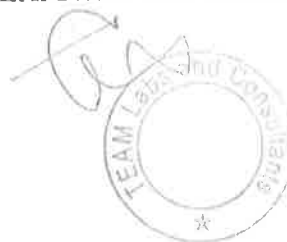
Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: Water samples as per Details given

Date of Sample Collected : 14.03.2017

No	Parameter	Komara vanipeta O. W.water	Bandaruvani peta O. W.water	Chinatonangi open well water	Batchuvanipeta open well water
1	pH	8.1	7.2	8.05	7.5
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	1150mgpl	1290mgpl	640mgpl	1810mgpl
5	Total Suspended Solids	5mgpl	5mgpl	5mgpl	5mgpl
6	Turbidity	3.9 NTU	5.0NTU	3.0NTU	9.0 NTU
7	Total Hardness as CaCo3	450mgpl	540mgpl	190mgpl	580mgpl
8	Calcium as CaCo3	320mgpl	330mgpl	130mgpl	400mgpl
9	Magnesium as CaCo3	130mgpl	210 mgpl	60mgpl	180mgpl
10	Chlorides Cl-	270mgpl	320mgpl	130mgpl	490mgpl
11	Flouride	0.5mgpl	0.5mgpl	0.4mgpl	0.6mgpl
12	Sulphates	120mgpl	395mgpl	25mgpl	270mgpl
13	Nitrates	65.0 mgpl	9.0 mgpl	11.0 mgpl	5.5 mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.05mgpl	0.04gpl	0.05mgpl	0.04mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	3.5	2.90	1.85	2.87

For TEAM Labs and Consultants



Labs and Consultants**2062****Registered Office :**

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TEST REPORT

Test Report No.TLC/V/Env/TSPL/8/0217

dt10.03.2017

Description of Test:

Phisico-chemical Analysis of Water

Name of the client:

Trimex Sands Pvt. Ltd.

Location of sampling:

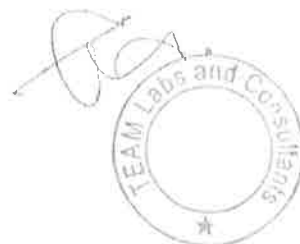
Water samples as per Details given

Date of Sample Collected :

15.02.2017

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	8.05	7..95	8.0	7.7
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	1010mgpl	1390mgpl	2450mgpl	860mgpl	2200mgpl
5	Total Suspended Solids	5mgpl	5mgpl	8mgpl	5mgpl	7mgpl
6	Turbidity	4.8 NTU	6.9 NTU	12.2NTU	4.5NTU	12.0 NTU
7	Total Hardness as CaCo3	460 mgpl	240mgpl	770mgpl	180mgpl	360mgpl
8	Calcium as CaCo3	290mgpl	150mgpl	510mgpl	120mgpl	230mgpl
9	Magnesium as CaCo3	170mgpl	90mgpl	260 mgpl	60mgpl	130 mgpl
10	Chlorides Cl-	260mgpl	290mgpl	760mgpl	130mgpl	880mgpl
11	Flouride	0.6mgpl	0.5mgpl	0.5mgpl	0.4mgpl	0.5mgpl
12	Sulphates	170mgpl	130mgpl	230mgpl	70mgpl	132mgpl
13	Nitrates	26.0 mgpl	21.0 mgpl	25.5 mgpl	9.0 mgpl	22.0 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	3.8	2.95	3.68	5.8	-

For TEAM Labs and Consultants



Labs and Consultants**2063****Registered Office :**

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TEST REPORT

Test Report No. TLC/V/Env/TSPL/9/0217

dt 10.03.2017

Description of Test:

Phisico-chemical Analysis of Water

Name of the client:

Trlmex Sands Pvt. Ltd.

Location of sampling:

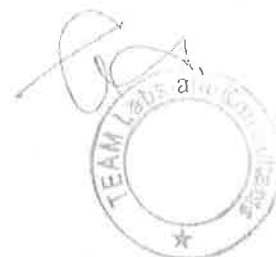
Water samples as per Details given

Date of Sample Collected :

15.02.2017

No	parameter	PCP open well	Tails water	Pond at Vatchavalasa	MSP Open well
1	pH	7.5	7.9	7.5	7.8
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	440	650mgpl	660	430mgpl
5	Total Suspended Solids	5	14mgpl	5	5mgpl
6	Turbidity	1.6NTU	5.8NTU	1.3NTU	3.8 NTU
7	Total Hardness as CaCo3	180mgpl	80mgpl	90mgpl	220mgpl
8	Calcium as CaCo3	100mgpl	60mgpl	60mgpl	140mgpl
9	Magnesium as CaCo3	80mgpl	20mgpl	30mgpl	80mgpl
10	Chlorides Cl-	120mgpl	80mgpl	120mgpl	75mgpl
11	Flouride	0.5 mgpl	0.4mgpl	0.5 mgpl	0.4mgpl
12	Sulphates	35mgpl	45mgpl	30mgpl	35mgpl
13	Nitrates	0.5mgpl	0.5mgpl	0.5mgpl	0.5 mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.05mgpl	0.06mgpl	0.03mgpl	0.03mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from groundlevel inmtrs	1.8	-	-	1.93

For TEAM Labs and Consultants



Labs and Consultants**2064****Registered Office :**

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TEST REPORTTest Report No. **TLC/V/Env/TSPL/10/0217**dt **10.03.2017**

Description of Test:

Phisico-chemical Analysis of Water

Name of the client:

Trimex Sands Pvt. Ltd.

Location of sampling:

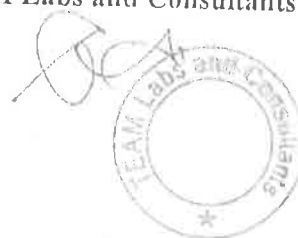
Water samples as per Details given

Date of Sample Collected :

15.02.2017

No	Parameter	Komara vanipeta O. W. water	Bandaruvani peta O. W. water	Chinatonangi open well water	Batchuvanipeta open well water
1	pH	7.3	7.6	7.6	7.5
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	1480mgpl	1710mgpl	660mgpl	2110mgpl
5	Total Suspended Solids	5mgpl	5mgpl	5mgpl	5mgpl
6	Turbidity	4.5 NTU	7.0NTU	3.6NTU	9.5 NTU
7	Total Hardness as CaCo3	520mgpl	530mgpl	220mgpl	570mgpl
8	Calcium as CaCo3	370mgpl	320mgpl	140mgpl	390mgpl
9	Magnesium as CaCo3	150mgpl	210 mgpl	80mgpl	180mgpl
10	Chlorides Cl-	320mgpl	430mgpl	120mgpl	790mgpl
11	Flouride	0.5mgpl	0.5mgpl	0.4mgpl	0.6mgpl
12	Sulphates	75mgpl	310mgpl	35mgpl	218mgpl
13	Nitrates	18.0 mgpl	15.5 mgpl	13.5 mgpl	18.5 mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.05mgpl	0.05gpl	0.05mgpl	0.05mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	3.4	2.80	1.80	2.80

For TEAM Labs and Consultants



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TEST REPORT

Test Report No.TLC/V/Env/TSPL/8/0117

dt02.02.2017

Description of Test: Phisico-chemical Analysis of Water

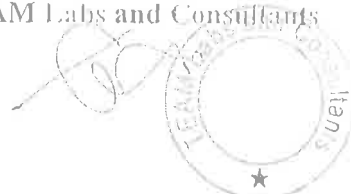
Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: Water samples as per Details given

Date of Sample Collected : 24.01.2017

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	7.5	7.80	7.6	8.0	7.6
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	1350mgpl	2050mgpl	850mgpl	2080mgpl
5	Total Suspended Solids	5mgpl	5mgpl	8mgpl	5mgpl	7mgpl
6	Turbidity	4.0 NTU	6.2 NTU	10.2NTU	2.5NTU	8.5 NTU
7	Total Hardness as CaCo3	440 mgpl	210mgpl	750mgpl	170mgpl	340mgpl
8	Calcium as CaCo3	280mgpl	130mgpl	490mgpl	120mgpl	230mgpl
9	Magnesium as CaCo3	160mgpl	80mgpl	260 mgpl	50mgpl	110 mgpl
10	Chlorides Cl-	240mgpl	270mgpl	740mgpl	120mgpl	860mgpl
11	Flouride	0.6mgpl	0.5mgpl	0.5mgpl	0.4mgpl	0.5mgpl
12	Sulphates	152mgpl	125mgpl	230mgpl	64mgpl	120mgpl
13	Nitrates	24.0 mgpl	18.0 mgpl	20.5 mgpl	4.5 mgpl	17.0 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	2.90	2.40	2.5	4.5	

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TEST REPORT

Test Report No.TLC/V/Env/TSPL/9/0117

dt02.02.2017

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 : 24.01.2017

No	parameter	PCP open well	Tails water	Pond at Vatchavalasa	MSP Open well
1	pH	7.5	7.8	7.5	7.8
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objection able	un objectionable	un objectionable
4	Total Dissolved solids	460	710mgpl	580	450mgpl
5	Total Suspended Solids	5	10mgpl	5	5mgpl
6	Turbidity	1.2NTU	4.8NTU	1.6NTU	3.6 NTU
7	Total Hardness as CaCo3	170mgpl	80mgpl	90mgpl	210mgpl
8	Calcium as CaCo3	100mgpl	60mgpl	60mgpl	140mgpl
9	Magnesium as CaCo3	70mgpl	20mgpl	30mgpl	70mgpl
10	Chlorides Cl-	130mgpl	90mgpl	130mgpl	80mgpl
11	Flouride	0.5 mgpl	0.4mgpl	0.5 mgpl	0.4mgpl
12	Sulphates	30mgpl	40mgpl	35mgpl	30mgpl
13	Nitrates	0.5mgpl	0.5mgpl	0.5mgpl	0.5 mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.05mgpl	0.05mgpl	0.04mgpl	0.04mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from groundlevel inmtrs	1.7	-	-	2.1

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TEST REPORT

Test Report No.TLC/V/Env/TSPL/10/0117

dt02.02.2017

Description of Test:

Phisico-chemical Analysis of Water

Name of the client:

Trlmex Sands Pvt. Ltd.

Location of sampling:

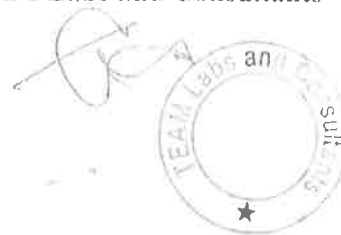
Water samples as per Details given

Date of Sample Collected :

24.01.2017

No	Parameter	Komara vanipeta O. W.water	Bandaruvani peta O. W.water	Chinatonangi open well water	Batchuvanipeta open well water
1	pH	7.3	7.6	7.2	7.5
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	1510mgpl	1750mgpl	605 mgpl	1890mgpl
5	Total Suspended Solids	5mgpl	5mgpl	5mgpl	5mgpl
6	Turbidity	5.0 NTU	7.2 NTU	3.0NTU	8.5 NTU
7	Total Hardness as CaCo3	530mgpl	530mgpl	210mgpl	550mgpl
8	Calcium as CaCo3	370mgpl	320mgpl	140mgpl	370mgpl
9	Magnesium as CaCo3	160mgpl	210 mgpl	70mgpl	180mgpl
10	Chlorides Cl-	340mgpl	420mgpl	110mgpl	770mgpl
11	Flouride	0.5mgpl	0.5mgpl	0.4mgpl	0.6mgpl
12	Sulphates	82mgpl	330mgpl	32mgpl	210mgpl
13	Nitrates	24.0 mgpl	9.5 mgpl	11.5mgpl	12.5 mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.06mgpl	0.06gpl	0.04mgpl	0.05mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	3.3	2.20	1.80	1.80

For TEAM Labs and Consultants



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TEST REPORT

Test Report No.TLC/V/Env/TSPL/8/1216

dt03.01.2017

Description of Test:

Phisico-chemical Analysis of Water

Name of the client:

Trlmex Sands Pvt. Ltd.

Location of sampling:

Water samples as per Details given

Date of Sample Collected :

31.12.2016

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	7.7	7.95	7.5	8.25	7.7
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	980mgpl	1450mgpl	2210mgpl	690mgpl	2290mgpl
5	Total Suspended Solids	5mgpl	5mgpl	8mgpl	5mgpl	7mgpl
6	Turbidity	4.2 NTU	6.9 NTU	9.5 NTU	2.8NTU	9.0 NTU
7	Total Hardness as CaCo3	460 mgpl	200mgpl	740mgpl	180mgpl	360mgpl
8	Calcium as CaCo3	290mgpl	130mgpl	490mgpl	120mgpl	240mgpl
9	Magnesium as CaCo3	170mgpl	70mgpl	250 mgpl	60mgpl	120 mgpl
10	Chlorides Cl-	255mgpl	295mgpl	720mgpl	115mgpl	875mgpl
11	Flouride	0.6mgpl	0.5mgpl	0.5mgpl	0.4mgpl	0.5mgpl
12	Sulphates	150mgpl	135mgpl	260mgpl	70mgpl	115mgpl
13	Nitrates	21.5 mgpl	10.5 mgpl	17.0	1.5 mgpl	16.5 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	3.00	2.50	2.5	4.2	

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TEST REPORT

Test Report No.TLC/V/Env/TSPL/10/1216

dt03.01.2017

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 :

31.12.2016

No	Parameter	Komara vanipeta O. W.water	Bandaruvani peta O. W.water	Chinatonangi open well water	Batchuvanipeta open well water
1	pH	7.4	7.25	7.5	7.45
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	1510mgpl	1950mgpl	630 mgpl	2050mgpl
5	Total Suspended Solids	5mgpl	5mgpl	5mgpl	5mgpl
6	Turbidity	5.2 NTU	8.2 NTU	3.6NTU	9.1 NTU
7	Total Hardness as CaCo3	520mgpl	560mgpl	220mgpl	560mgpl
8	Calcium as CaCo3	360mgpl	360mgpl	140mgpl	380mgpl
9	Magnesium as CaCo3	160mgpl	200 mgpl	80mgpl	180mgpl
10	Chlorides Cl-	355mgpl	430mgpl	120mgpl	795mgpl
11	Flouride	0.5mgpl	0.5mgpl	0.4mgpl	0.6mgpl
12	Sulphates	80mgpl	350mgpl	40mgpl	215mgpl
13	Nitrates	22.0 mgpl	3.5 mgpl	8.5mgpl	9.5 mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.06mgpl	0.06gpl	0.04mgpl	0.05mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	3.0	2.10	1.65	1.60

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TEST

Test Report No. TLC/V/Env/TSPL/9/1216

dt03.01.2017

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 :

31.12.2016

No	parameter	PCP open well	Tails water	MSP Open well
1	pH	7.5	7.7	7.8
2	Colour Hazen units	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	465	260mgpl	490mgpl
5	Total Suspended Solids	5	5mgpl	5mgpl
6	Turbidity	1.5NTU	2.8NTU	3.0 NTU
7	Total Hardness as CaCo3	170mgpl	60mgpl	220mgpl
8	Calcium as CaCo3	100mgpl	40mgpl	140mgpl
9	Magnesium as CaCo3	70mgpl	20mgpl	80mgpl
10	Chlorides Cl-	140mgpl	70mgpl	75mgpl
11	Flouride	0.5 mgpl	0.4mgpl	0.4mgpl
12	Sulphates	35mgpl	22mgpl	28mgpl
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	1.5		2.0

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TEST REPORT**Test Report No.TLC/V/Env/TSPL/8/1116****dt05.12.2016****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 :** 15.11.2016

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	7.9	8.05	7.8	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	1150mgpl	1250mgpl	1980mgpl	650mgpl	2150mgpl
5	Total Suspended Solids	5mgpl	5mgpl	5mgpl	5mgpl	8mgpl
6	Turbidity	3.5 NTU	4.6 NTU	7.2 NTU	2.0NTU	8.8 NTU
7	Total Hardness as CaCo3	450 mgpl	180mgpl	480mgpl	130mgpl	430mgpl
8	Calcium as CaCo3	300mgpl	120mgpl	310mgpl	90mgpl	280mgpl
9	Magnesium as CaCo3	150mgpl	60mgpl	170 mgpl	40mgpl	150 mgpl
10	Chlorides Cl-	260mgpl	280mgpl	455mgpl	90mgpl	690mgpl
11	Flouride	0.6mgpl	0.5mgpl	0.5mgpl	0.4mgpl	0.5mgpl
12	Sulphates	105mgpl	32mgpl	105mgpl	30mgpl	75mgpl
13	Nitrates	19.5 mgpl	19.0 mgpl	18.0mgpl	15.0 mgpl	22.0 mgpl
14	Phosphates	BDL	BDL	BDL	BDL	BDL
15	Iron	0.04mgpl	0.05mgpl	0.04mgpl	0.03mgpl	0.05mgpl
16	Lead	BDL	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	3.2	2.70	2.6	4.1	

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TEST REPORT**Test Report No.** TLC/V/Env/TSPL/9/1116 **dt** 05.12.2016**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 :** 15.11.2016

No	parameter	Pond at Vatchavalasa	PCP open well	MSP Open well	PCP Tall water
1	pH	7.7	7.8	8.3	8.15
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	410	410mgpl	560mgpl	280
5	Total Suspended Solids	5	5mgpl	5mgpl	15
6	Turbidity	1.5NTU	2.5NTU	2.5 NTU	8.0 NTU
7	Total Hardness as CaCo3	130mgpl	110mgpl	205mgpl	80mgpl
8	Calcium as CaCo3	90mgpl	80mgpl	140mgpl	50mgpl
9	Magnesium as CaCo3	40mgpl	30mgpl	65mgpl	30mgpl
10	Chlorides Cl-	80mgpl	60mgpl	110mgpl	60mgpl
11	Flouride	0.5 mgpl	0.4mgpl	0.4mgpl	0.5 mgpl
12	Sulphates	25mgpl	20mgpl	28 mgpl	15mgpl
13	Nitrates	0.5mgpl	0.5mgpl	0.5 mgpl	0.5mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.03mgpl	0.03mgpl	0.04mgpl	0.09mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from groundlevel inmtrs	-	1.25	2.10	-

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TEST REPORT

Test Report No. TLC/V/Env/TSPL/8/1016

dt 07.11.2016

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 : 17.10.2016

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	1120mgpl	1450mgpl	1520mgpl	690mgpl	2100mgpl
5	Total Suspended Solids	5mgpl	5mgpl	5mgpl	5mgpl	9mgpl
6	Turbidity	3.3 NTU	5.0 NTU	6.0 NTU	2.0NTU	9.0 NTU
7	Total Hardness as CaCo3	440 mgpl	190mgpl	450mgpl	135mgpl	410mgpl
8	Calcium as CaCo3	290mgpl	120mgpl	290mgpl	90mgpl	270mgpl
9	Magnesium as CaCo3	15mgpl	70mgpl	160 mgpl	45mgpl	140 mgpl
10	Chlorides Cl-	270mgpl	290mgpl	430mgpl	95mgpl	710mgpl
11	Flouride	0.6mgpl	0.5mgpl	0.5mgpl	0.4mgpl	0.5mgpl
12	Sulphates	110mgpl	30mgpl	98mgpl	35mgpl	60mgpl
13	Nitrates	15.5 mgpl	11.5 mgpl	11.0mgpl	11.5 mgpl	19.0 mgpl
14	Phosphates	BDL	BDL	BDL	BDL	BDL
15	Iron	0.03mgpl	0.04mgpl	0.04mgpl	0.03mgpl	0.05mgpl
16	Lead	BDL	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	2.35	2.40	1.55	3.1	

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TEST REPORT

Test Report No. TLC/V/Env/TSPL/9/1016 dt 07.11.2016
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 : 17.10.2016

No	parameter	Pond at Vatchavalasa	PCP open well	MSP Open well	PCP Tail water
1	pH	7.4	8.0	7.8	7.8
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	470	440mgpl	580mgpl	160
5	Total Suspended Solids	5	5mgpl	5mgpl	18
6	Turbidity	1.8NTU	2.8NTU	3.0 NTU	9.8 NTU
7	Total Hardness as CaCo3	140mgpl	120mgpl	230mgpl	60mgpl
8	Calcium as CaCo3	90mgpl	80mgpl	140mgpl	45mgpl
9	Magnesium as CaCo3	50mgpl	40mgpl	90mgpl	15mgpl
10	Chlorides Cl-	90mgpl	95mgpl	105mgpl	55mgpl
11	Flouride	0.5 mgpl	0.4mgpl	0.4mgpl	0.5 mgpl
12	Sulphates	30mgpl	22mgpl	25 mgpl	20mgpl
13	Nitrates	0.5mgpl	0.5mgpl	0.5 mgpl	0.5mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.04mgpl	0.03mgpl	0.03mgpl	0.09mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from groundlevel in mtrs	-	1.6	1.65	-

For TEAM Labs and Consultants

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TEST REPORT

Test Report No.TLC/V/Env/TSPL/10/1016

dt07.11.2016

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 :

17.10.2016

No	Parameter	Komara vanipeta O. W.water	Bandaruvani peta O. W.water	Chinatonangi open well water	Batchuvanipeta open well water
1	pH	7.4	7.3	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	1510mgpl	890mgpl	540mgpl	1880mgpl
5	Total Suspended Solids	5mgpl	5mgpl	5mgpl	5mgpl
6	Turbidity	4.2 NTU	4.9 NTU	3.0NTU	8.9 NTU
7	Total Hardness as CaCo3	530mgpl	480mgpl	180mgpl	750mgpl
8	Calcium as CaCo3	360mgpl	290mgpl	110mgpl	480mgpl
9	Magnesium as CaCo3	170mgpl	190 mgpl	70mgpl	270mgpl
10	Chlorides Cl-	330mgpl	170mgpl	105mgpl	940mgpl
11	Flouride	0.5mgpl	0.5mgpl	0.4mgpl	0.6mgpl
12	Sulphates	63mgpl	45mgpl	40mgpl	155mgpl
13	Nitrates	27.0 mgpl	12.0 mgpl	9.0mgpl	12.0 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	2.3	2.20	1.2	1.70

For TEAM Labs and Consultants

Piezometer Monitoring for the month of January-2017

Location	Date	Time	Temp (C)	pH	EC (uS/cm @25C)	TDS (mg/L)	SAL (PSU)	Water Table	+MSL
PM-1	30-Jan-17	14:41:00	28.3	7.73	498	323	0.16	0.180	
PM-2	30-Jan-17	14:00:00	28.6	7.90	404	262	0.13	6.794	
PM-3	30-Jan-17	14:12:00	29.5	8.35	224	145	0.07	3.806	
PM-4	30-Jan-17	14:27:00	28.9	7.52	394	256	0.12	3.420	
PM-5	30-Jan-17	12:33:00	27.8	6.85	340	221	0.11	4.347	
PM-6	30-Jan-17	12:21:00	26.0	7.62	106	68	0.03	0.730	
PM-7	30-Jan-17	13:41:00	28.4	7.21	335	217	0.11	1.570	

Piezometer Monitoring for the month of February-2017

Location	Date	Time	Temp (C)	pH	EC (uS/cm @25C)	TDS (mg/L)	SAL (PSU)	Water Table	+MSL
PM-1	27-Feb-17	12:27:00	28.5	7.96	689	447	0.29	0.130	
PM-2	27-Feb-17	13:07:00	30.7	8.16	333	216	0.11	6.734	
PM-3	27-Feb-17	12:57:00	30.9	8.15	207	134	0.07	2.976	
PM-4	27-Feb-17	12:44:00	30.4	8.35	406	263	0.13	3.190	
PM-5	27-Feb-17	13:36:00	29.9	7.93	276	179	0.09	4.200	
PM-6	27-Feb-17	13:50:00	30.6	7.98	156	101	0.05	1.800	
PM-7	27-Feb-17	13:27:00	30.2	8.07	328	213	0.1	0.680	

Piezometer Monitoring for the month of March-2017

Location	Date	Time	Temp (C)	pH	EC (uS/cm @25C)	TDS (mg/L)	SAL (PSU)	Water Table	+MSL
PM-1	31-Mar-17	15:41:00	29.3	7.86	621	403	0.26	0.280	
PM-2	31-Mar-17	18:07:00	31.0	8.33	404	262	0.13	6.754	
PM-3	31-Mar-17	17:57:00	30.7	8.22	224	145	0.07	3.066	
PM-4	31-Mar-17	16:01:00	30.4	8.44	397	258	0.13	3.330	
PM-5	31-Mar-17	17:15:00	30.0	7.30	319	207	0.1	4.240	
PM-6	31-Mar-17	17:07:00	29.9	7.99	158	102	0.05	1.800	
PM-7	31-Mar-17	17:30:00	30.4	7.64	333	216	0.11	0.780	

Piezometer Monitoring for the month of October-2016

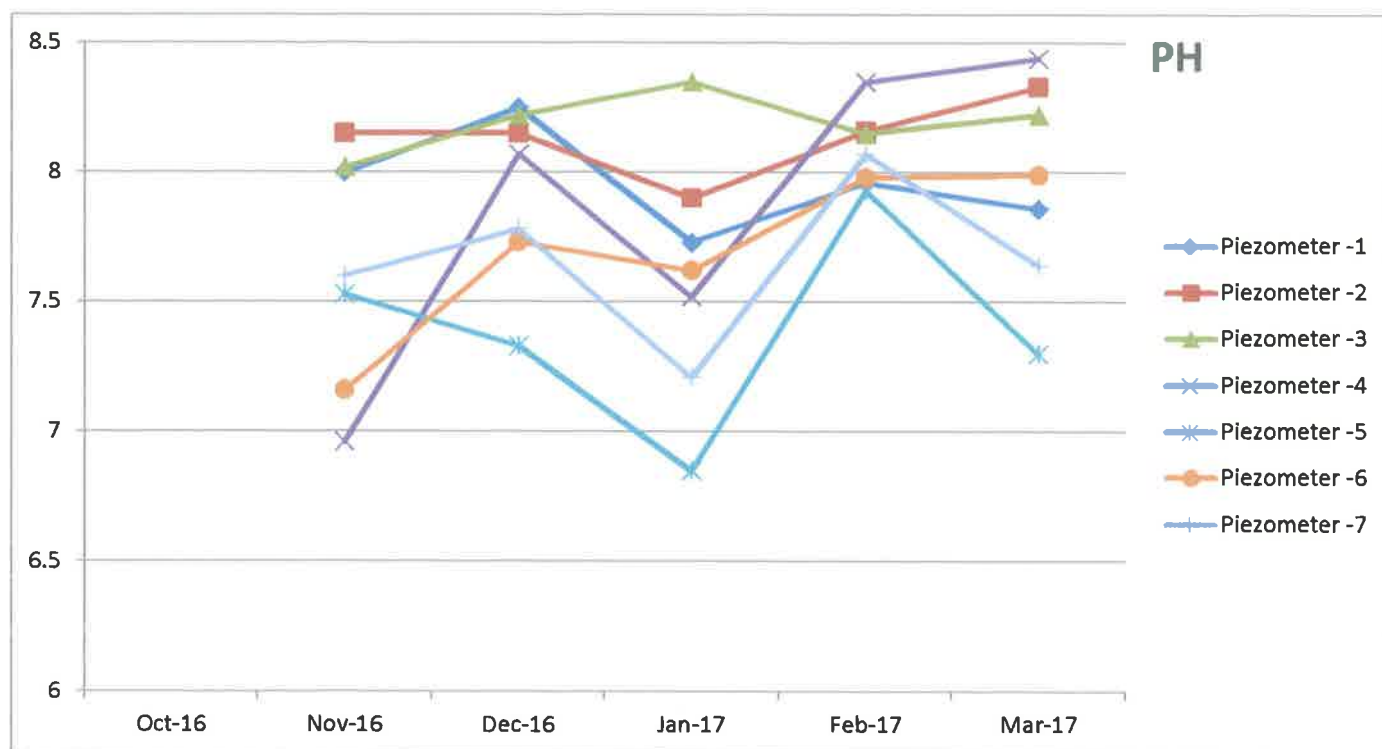
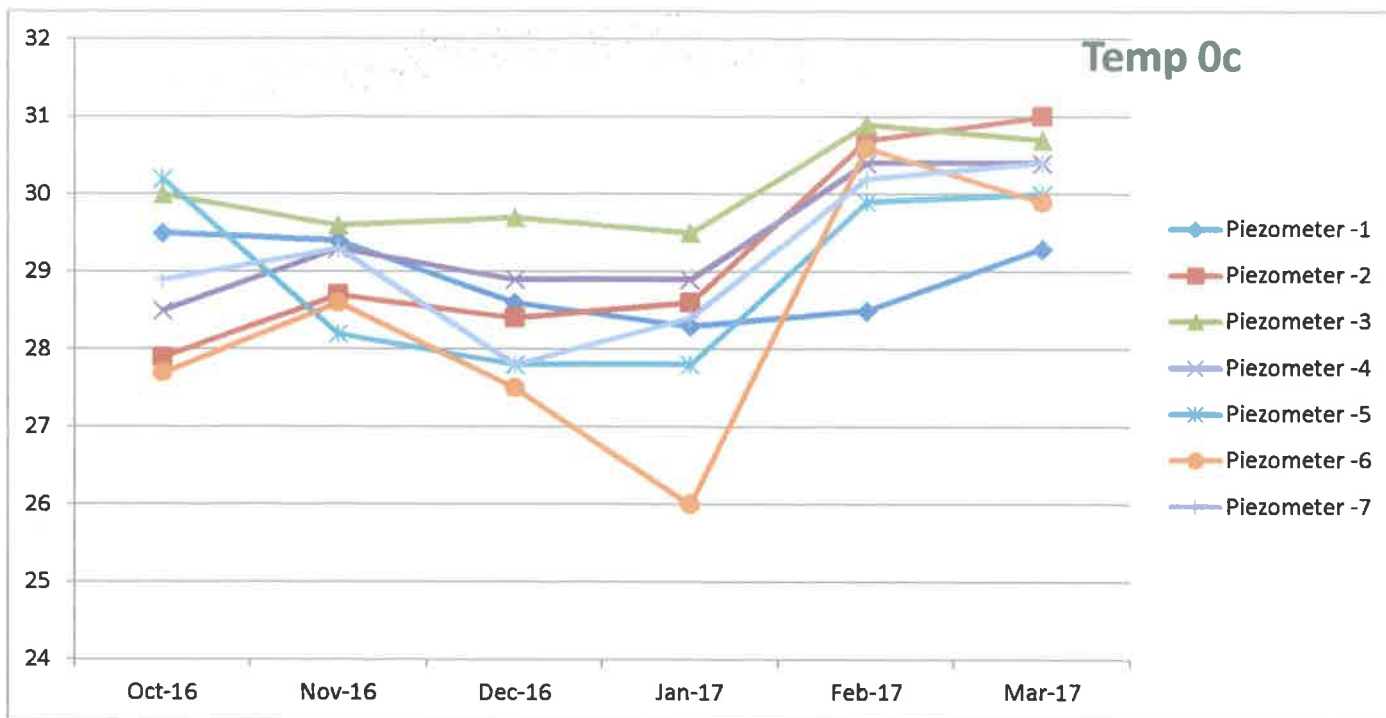
Location	Date	Time	Temp (C)	pH	EC (uS/cm @25C)	TDS (mg/L)	SAL (PSU)	Water Table	+MSL
PM-1	29-Oct-16	13:33:28	29.5	8.04	618	401	0.26	0.280	
PM-2	29-Oct-16	12:45:41	27.9	8.39	257	167	0.08	6.044	
PM-3	29-Oct-16	12:55:19	30.0	8.26	387	251	0.12	6.216	
PM-4	29-Oct-16	12:13:13	28.5	7.37	329	213	0.10	3.210	
PM-5	29-Oct-16	13:08:38	30.2	7.34	412	267	0.13	1.600	
PM-6	29-Oct-16	11:50:40	27.7	6.86	127	82	0.04	1.200	
PM-7	29-Oct-16	12:23:25	28.9	7.14	257	167	0.08	3.080	

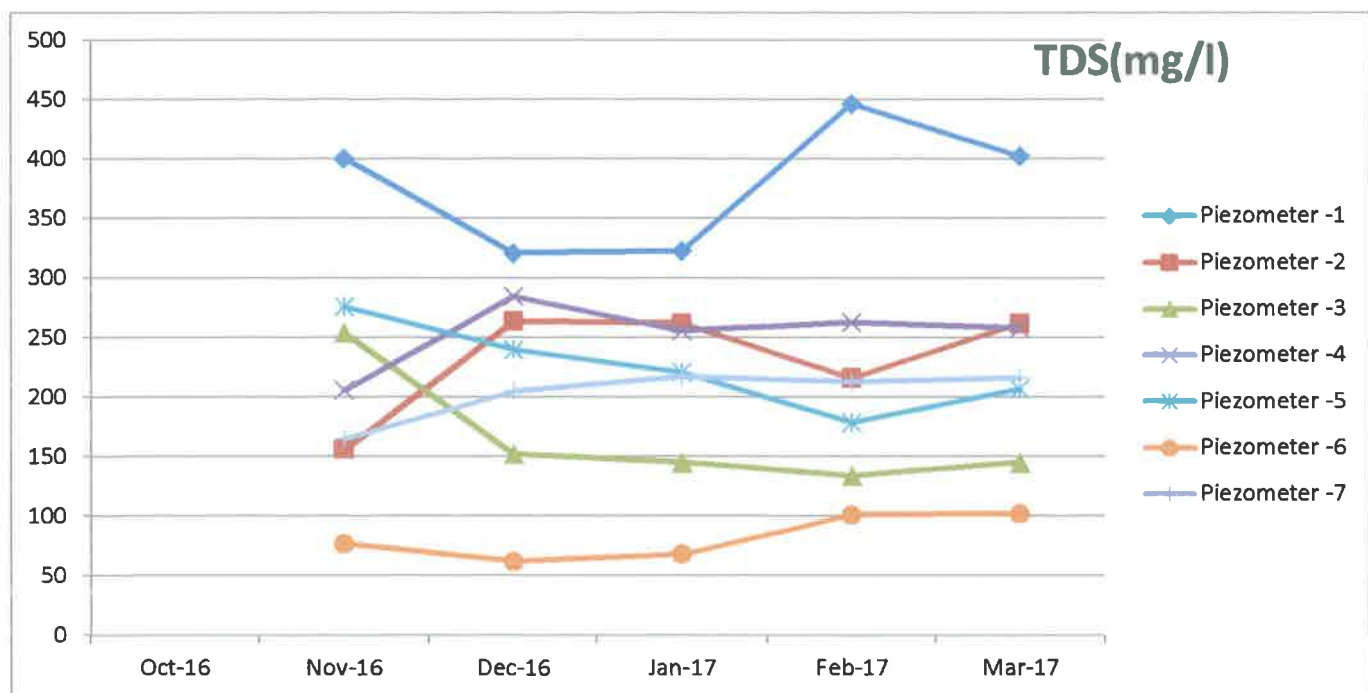
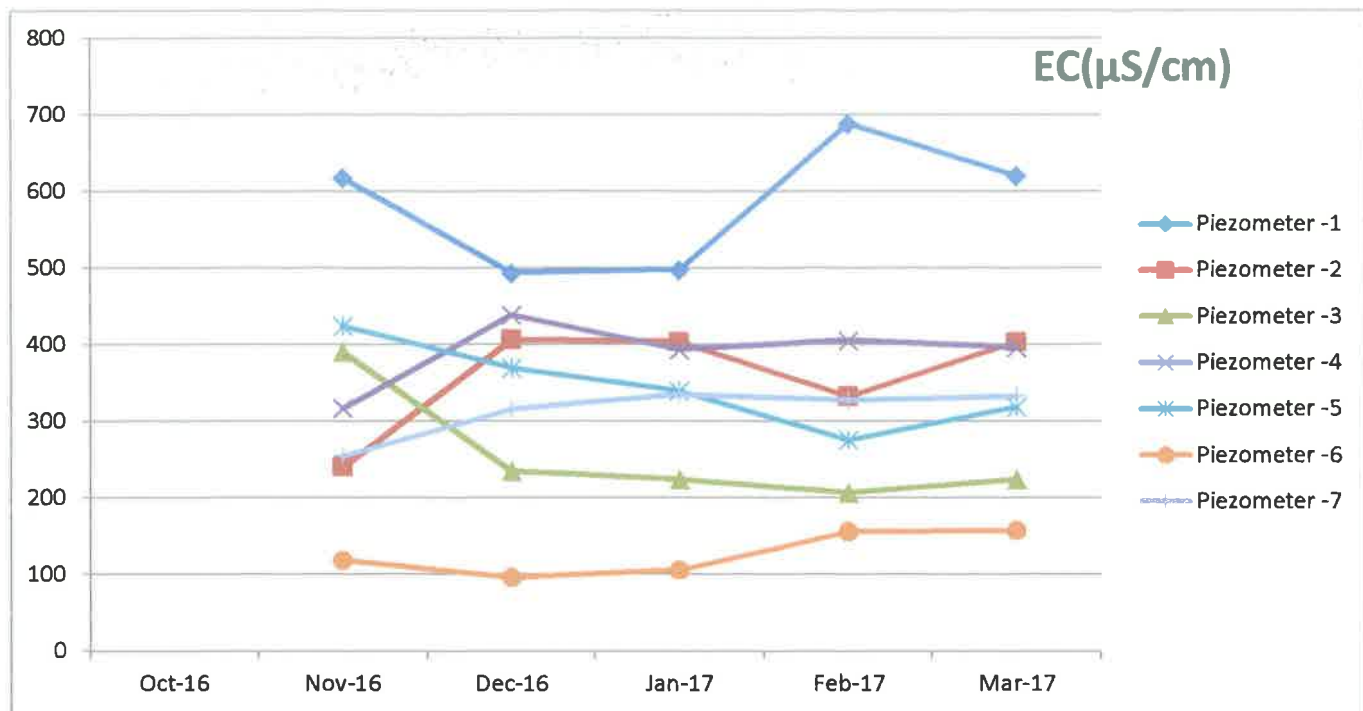
Piezometer Monitoring for the month of November-2016

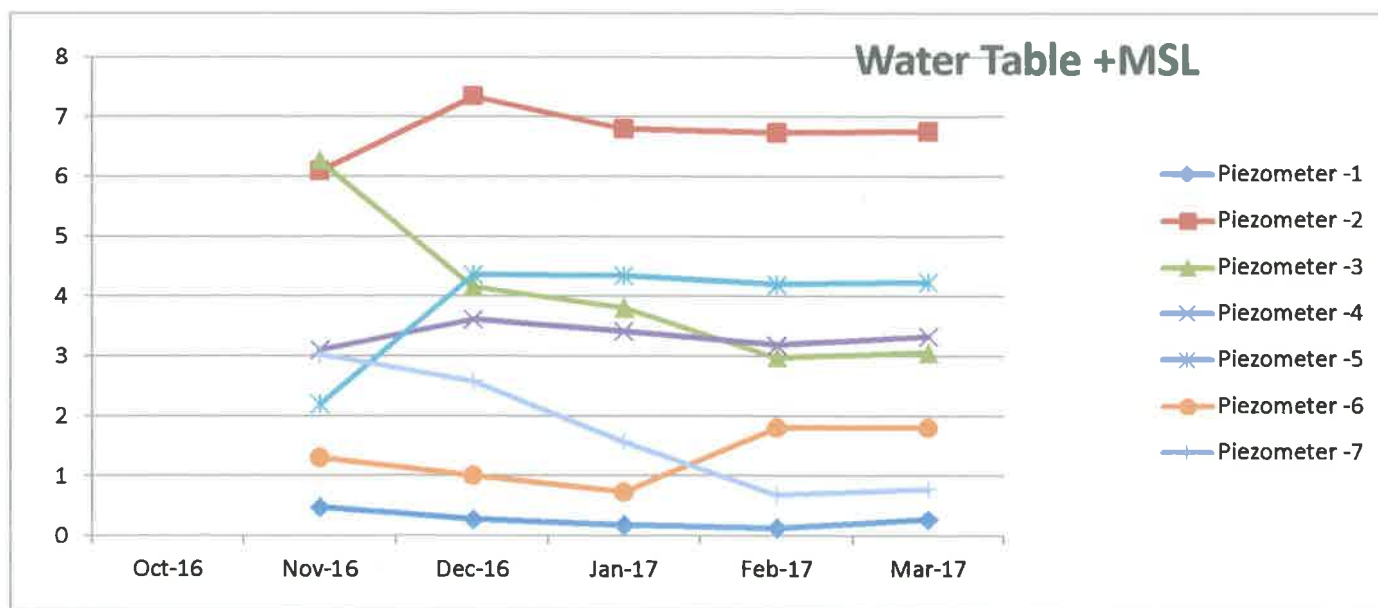
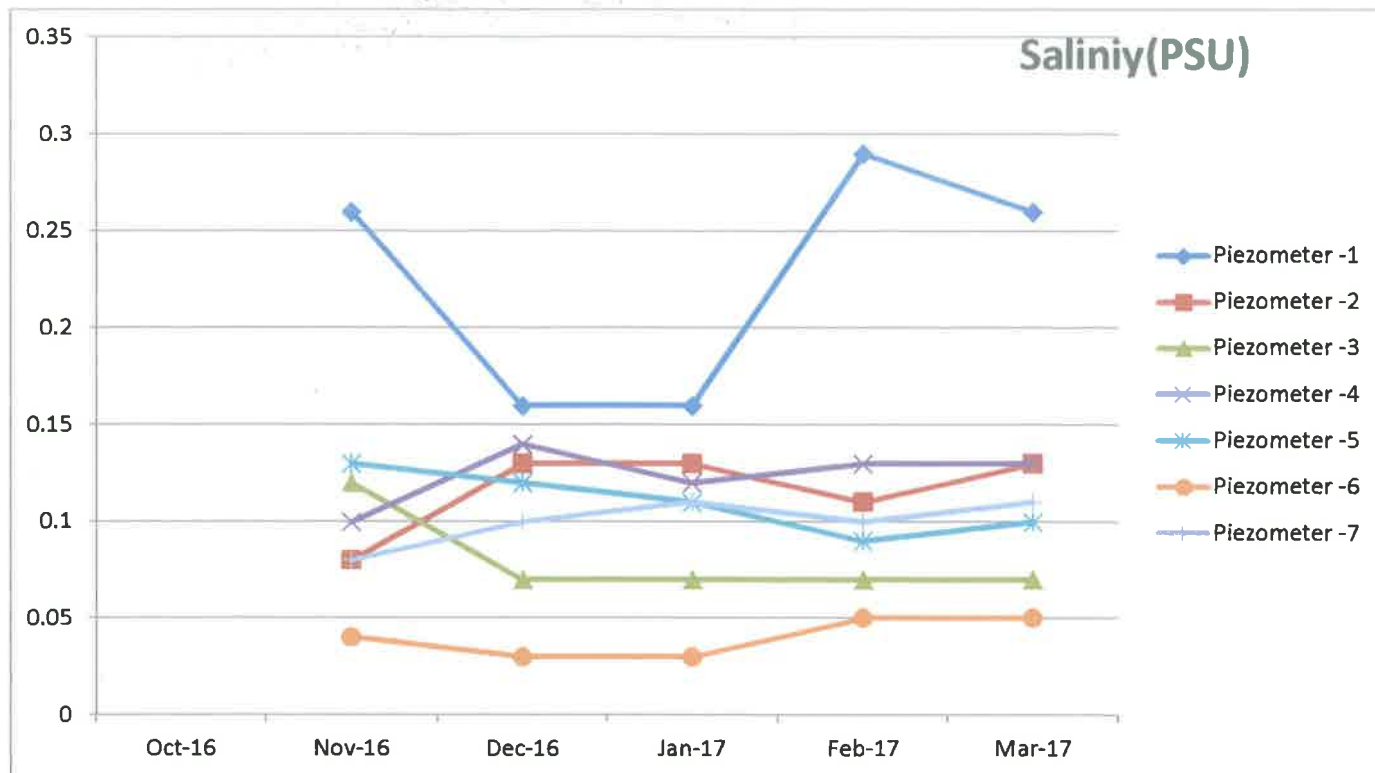
Location	Date	Time	Temp (C)	pH	EC (uS/cm @25C)	TDS (mg/L)	SAL (PSU)	Water Table	+MSL
PM-1	26-Nov-16	10:35:51	29.4	8.00	618	401	0.26	0.480	
PM-2	26-Nov-16	13:58:20	28.7	8.15	241	156	0.08	6.094	
PM-3	26-Nov-16	14:09:40	29.6	8.02	391	254	0.12	6.266	
PM-4	26-Nov-16	14:43:32	29.3	6.96	318	206	0.10	3.100	
PM-5	26-Nov-16	11:16:27	28.2	7.53	425	276	0.13	2.200	
PM-6	26-Nov-16	15:10:35	28.6	7.16	119	77	0.04	1.300	
PM-7	26-Nov-16	2:32:55	29.3	7.6	255	165	0.08	3.030	

Piezometer Monitoring for the month of December-2016

Location	Date	Time	Temp (C)	pH	EC (uS/cm @25C)	TDS (mg/L)	SAL (PSU)	Water Table	+MSL
PM-1	30-Dec-16	15:07:46	28.6	8.25	494	321	0.16	0.280	
PM-2	30-Dec-16	14:28:40	28.4	8.15	407	264	0.13	7.344	
PM-3	30-Dec-16	14:39:40	29.7	8.22	235	152	0.07	4.166	
PM-4	30-Dec-16	14:51:31	28.9	8.07	439	285	0.14	3.620	
PM-5	30-Dec-16	13:38:02	27.8	7.33	370	240	0.12	4.360	
PM-6	30-Dec-16	13:28:54	27.5	7.73	96	62	0.03	1.000	
PM-7	30-Dec-16	14:10:08	27.8	7.78	316	205	0.1	2.580	









Plantation Details

YEAR	TYPE OF SPECIES	No of Plants	
		Plan	Actual
Afforestation in Refilled areas :			
2016-2017	Casuarina, Acacia, Eucalyptus, Cashew	72169	1,33,250
Green Belt :			
2016-2017	Eucalyptus, Acacia, Badam, Neem etc.	5100	7250

Afforestation in Back filled Areas





TRIMEX

Annexure-5

TSPL/ENV/MOEF/2016-17/1069

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: Observation wells water quality data report -- Submission --

Ref: Environmental Clearance vide No.J-11015/175/2011-I.A. II dated 17-04-2015 & CRZ Clearance vide F.No.11-67/2013-Ly III dated 04-2015.

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

Thanking You,

Yours faithfully,

Vice President (Mines)

CC:

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

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

CIN: U14299TN2004PTC071437

TRIMEX

O/c

TSPL/ENV/MOFF/2016-17/105\...

Srikakulam
27/01/2017

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: Observation wells water quality data report - Submission- Rep

Ref: Environmental Clearance vide No.J-11015/175/2011-IA II (M)
dated 17-04-2015 & CRZ Clearance vide P.No 11-67/2013-IA II 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 2016

Thanking You,

Yours faithfully,


Vice President (Mines)

CC:

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

Trimex Sands Pvt Ltd: Vatchavallasa (V) Gara Mandal, Srikakulam District
Tel: 091 8942 282155, Fax: 091 8942 282258, email: info@trimexsands.com

Hyderabad Office: 2nd Floor, Sri Durga Towers, Plot No. 205, Road No. 70, Banjara Hills, Hyderabad - 500016
Tel: 091 40 2338 4380, Fax: 091 40 2338 4098

Reg. Office: Trimex Towers, No. 1 Subbaraya Avenue, P. K. Kanna Reddy Road, Shalimar Garden, 498001, Bangalore
Tel: 091 44 2498 8822, Fax: 091 44 2498 8823, web: www.trimexsands.com

CIN:

U14299TN2004PTC071437



O/c

TSPL/ENV/MOEF/2016-17/1068

Srikakulam
26-04-2017

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, 2017.

Thanking You,

Yours Faithfully,



Vice President (Mines)

CC:
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 - 600 018, Tamilnadu, India.
Tel: +91 44 2498 8822 / 8813 Fax: +91 44 2498 6047 web: www.trimexsands.com

CIN : U14299TN2004PTC071437

TRIMEX O/c

TSPL/ENV/MOEF/2016-17/1052

Sekakulam
17/01/2017

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.11-67/2013-1A-III dated 28-04-2014

As per the reference cited above, please find herewith enclosed Soil analysis report for the period of Oct to Dec, 2016.

Thanking You,

Yours Faithfully,


Vice President (Mines)

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

Trimex Sands Pvt Ltd: Vatchavakusa (V) Gara Manda, Srikalahasti District, Andhra Pradesh
Tel: 091 8942 383755 Fax: 091 8942 383756 Email: info@trimexsands.com

Hyderabad Office: 2nd Floor, Sri Durga Towers, Plot No. 401, Road No. 11, Banjara Hills, Hyderabad - 500034
Tel: 091 40 23 38 4 380 Fax: 091 40 23 38 4 381 Email: info@trimexsands.com

Reg. Office: Trimex Towers No. 1, Subbaraya Bazar, 4th Floor, Hyderabad - 500016
Tel: 091 44 2498 8822 Fax: 091 44 2498 8823 Email: info@trimexsands.com

CIN: U114299TN2004PTC071437

Water Sprinkling on Haul Roads



Annexure-7

TEAM

ORIGINAL

Form No. TCLA/GE/RF-138

Labs and Consultants

2183

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, Govt, New Delhi

TEST REPORT

Test Report No. TLC/V/Env/TSPL/12/0317

dt 04.04.2017

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:

14.03.2017

Sample Description:

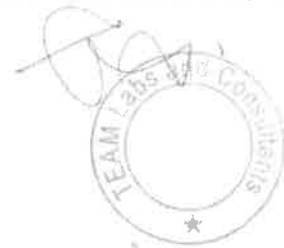
Raw materials & Tailings samples

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	0.14	0.11
2	Cr ⁶⁺	Mg/l	NIL	NIL
3	Zinc	Mg/l	0.07	0.09
4	Cadmium	Mg/l	NIL	NIL
5	Lead	Mg/l	0.14	0.12
6	Copper	Mg/l	NIL	NIL
7	Iron	Mg/l	0.18	0.12
8	Cobalt	Mg/l	NIL	NIL
9	Nickel	Mg/l	NIL	NIL
10	Manganese	Mg/l	0.29	0.24
11	Arsenic	Mg/l	NIL	NIL
12	Mercury	Mg/l	NIL	NIL

For TEAM Labs and Consultants



TEAM

Labs and Consultants

DUPLICATE

Form No. TGL/TFIRE-018

1647

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, Govt. New Delhi

TEST REPORT

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

dt03.01.2017

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:

31.12.2016

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	0.12	0.10
2	Cr ⁶⁺	Mg/l	NIL	NIL
3	Zinc	Mg/l	0.09	0.11
4	Cadmium	Mg/l	NIL	NIL
5	Lead	Mg/l	0.11	0.12
6	Copper	Mg/l	NIL	NIL
7	Iron	Mg/l	0.16	0.14
8	Cobalt	Mg/l	NIL	NIL
9	Nickel	Mg/l	NIL	NIL
10	Manganese	Mg/l	0.31	0
				.27
11	Arsenic	Mg/l	NIL	NIL
12	Mercury	Mg/l	NIL	NIL

For TEAM Labs and Consultants



CSR Expenditure from Aril-2016 to March-2017		
S.NO.	Nature of Activity	Amount Spent Rs. (in Lakhs)
1	Self-Employment Training / Educational Infrastructure	21.19
2	Medical Facilities / Infrastructure	22.48
3	Community Welfare Schemes / Infrastructure	32.64
4	Infrastructure like Roads / Irrigation / Hostels	37.01
5	Sports	0.09
6	Green Belt (Surrounding Villages)	0.08
7	Contribution to District Mineral Foundation Trust	160.56
Grand Total :		274.05



Annexure - 9

Expenditure for Environmental measures

Recurring Expenditures		
S.No	Description	During the Period 2016-17 (in Rs.)
1	Environmental Monitoring – Air, Water & Noise (outsourced).	1,30,000
2	Dust suppression on roads in factory	5,48,000
3	PPE cost for dust and sound (dust masks, ear muffs, etc.).	3,36,000
4	De dusting & Bag filter –addition of bag filter and maintenance.	6,15,000
5	Expenditure on refilling / pumping from PCP, leveling by dozer.	1,58,02,000
6	Slime management cost in mines.	6,86,53,000
7	Thickener Operation.	2,26,65,000
8	Afforestation, Nursery maintenance (Seeds, Saplings, Manure, Watering, Wages etc.)	48,10,000
9	Fencing 100mts from HTL	34,000
Total :		11,35,93,000