



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 Mineral Sand Mine of Trimex Sands Pvt. Ltd., Village Vatsavalasa,  
Gara Mandal, Srikakulam District, Andhra Pradesh., Submission of half yearly  
Environmental Clearance compliance report for the period of Apr'2016 –  
Sep'2016 – Reg.

Ref: Environmental Clearance vide No.J-11015/175/2011-IA.II (M) dated  
17-04-2015.

With reference to the subject Environmental Clearance granted vide reference above, we are  
submitting the half yearly EC 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.  
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

## Compliance report on E.C Conditions

**Environmental Clearance Vide No.J-11015/175/2011-IA.II (M) dated 17-04-2015**

### **A. Specific conditions.**

S.No	Conditions	Compliance
1	The 325 dunes recorded in the TSPL area of which, 13 dunes exist beyond 100m from the high tide, shall be protected and maintained. All effort should be made to ensure that existing natural vegetation of these dunes are fully protected.	Dunes which are existing beyond and up to 100mts from HTL are protected. Also efforts are taken to protect the vegetation on these dunes.
2	Rs. 1.80 crore proposed for Wildlife Conservation plan should be deposited within one month of issue of EC letter for implementation of Wildlife Conservation plan by the Department.	Further to the E.C approval, representation submitted to the MoEF vide letter dated 20-05-2015 requesting permission to make payment yearly as committed in the approved plan instead of immediate payment of entire amount of Rs1.80 Crores committed for 10 years period in single go. Decision of the MoEF is not yet communicated. Meanwhile, we have paid Rs15.10 lakhs being the 1 <sup>st</sup> year (2015-16) committed amount to the Principal Chief Conservator of Forests & Chief Wildlife Warden, Hyderabad, through the Divisional Forest Officer, Srikakulam. (Acknowledgement copy enclosed as <b>Annexure - 1</b> )
3	The Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the standing Committee of National Board of Wildlife, as may be applicable to this project.	Not Applicable.
4	The Environmental clearance is subject to obtaining clearance under the Coastal Regulation Zone, Notification, 2011 to this project.	CRZ Clearance obtained Vide F.No.11-67/2013-IA-III dated 28-04-2015.
5	Necessary AERB clearance shall be obtained under the Atomic Energy (Radiation Protection) Rules, 2004 for operation of BSM (beach Sand Minerals) facility.	Complied. Submitted vide lr. no. TSPL/MIN/MoEF/ENV/15-16/921 Dated 28-11-2015
6	The mining activity will commence only after taking necessary approval of water drawl from the concerned Authority of State Government.	No ground water drawl is required during mining activity. However, approval is taken from the State Govt for drawl of water from the Vamsadara river ( <b>Annexure - 2</b> ).

7	The mined area should be replenished immediately.	The tailings generated after concentrating and separating the minerals at the plants is being used for concurrent replenishment/backfilling of the mined out lands ( <b>Annexure 3</b> ).
8	The mineral separation plant/pre-concentration plant should be located outside coastal Regulation Zone area.	Mineral separation plant and pre-concentration plants are located outside CRZ area. Map enclosed as <b>Annexure -4</b>
9	Implementation of Wildlife Conservation plan for schedule – I species. The conservation plan should be species specific, should have allocation of budget, time frame and agencies to be responsible for the implementation for each of the target species, Conservation plan shall be approved by the State Government.	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/15-16/921 Dated: 28-11-2015
10	No mining shall be carried out in the inter-tidal zone and within 100m from HTL towards landward side.	Complied. Mining is carried up to 100m on the landward side of the HTL and the prohibited area is demarcated to ensure that no mining is carried out. Enclosed <b>Annexure-5</b>
11	Identification of sand dunes shall be done prior to undertaking mining activities and their conservation shall be as per MoEF guidelines from time to time. No flattening of sand dunes shall be carried out. Dressing or altering the sand dunes, hills, natural features including landscape changes shall not be carried out for beautification/recreational purposes. Precautions shall be taken to prevent intrusion of sea water into 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.
12	Fencing of entire lease area barrier of 100 meters towards sea to prevent olive turtle nesting ground.	Complied. ( <b>Annexure -5</b> )
13	Tailings and rejects shall be filled back systematically after separating the heavy/rare minerals. Sand tailing shall be put back at the mined area on completion of extraction of rare minerals. Afforestation shall be taken up with suitable species on mined out areas to prevent erosion of shoreline. Under no circumstances, the tailings will be dumped in agricultural lands, wet lands, paddy fields, canals and the backfilling will be carried out only in the inland mined out areas.	Sand tailings and rejects are being filled back to the 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. No waste is dumped outside the mining lease area.

14	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 by avoiding working near the 100m line during the season and also by opening up minimum area at any point of time.
15	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 20m width of approach roads shall be provided where necessary.	Mining and backfilling operations are done concurrently and in phases. No mining is done near the beach front. Uninterrupted access is provided to the beach with approach road.
16	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 monitoring of ground water quality and water levels in the surrounding area. These analysis as per norms much be documented and sent regularly (every three months) to the Regional Office MoEF.	No ground water is tapped from the CRZ area. Established 10 Nos. of ground water observation wells within and outside the lease area and monitoring is being carried out and reports submitted to the regional office of the MoEF quarterly. Enclosed observation well's location map As <b>Annexure - 4</b> and monitoring reports as <b>Annexure - 6</b> .
17	The fresh water gradient towards the sea will be maintained by close monitoring of water table. Piezometer wells to be constructed and monitored.	7 Nos. of Piezometer wells are provided and monitoring is being carried out. Enclosed monitoring data as <b>Annexure-7</b> .
18	Mining shall be carried out by permitted methods without the use of any forms of blasting. Use of explosives for blasting is prohibited. The mining should be stated near sea side and mining should be progressed parallel to sea coast so that inland water table is not disturbed.	Complied. Submitted vide lr.no. TSPL/MIN/MoEF/ENV/15-16/921 Dated: 28-11-2015
19	Radiation survey shall be carried out as stipulated by the Atomic Minerals Directorate for Exploration and research, Department of Atomic Energy, Government of India to ascertain the effects of radioactive minerals.	Being complied as per the directive of the Atomic Energy Regulations Board (AERB), DAE and reports submitted periodically ( <b>Annexure - 8</b> )
20	Occupational health and safety measures, especially concerning radiation hypertension, diabetes etc, should have health check-up once in six months.	Being complied.
21	The project proponent shall obtain Consent to Operate from the State Pollution Control Board, Andhra Pradesh and effectively implement all the conditions stipulated therein.	Complied. Submitted vide lr.no. TSPL/MIN/MoEF/ENV/15-16/921 Dated: 28-11-2015
22	Implementation of conditions laid down in the Mining Plan along with progressive Mine Closure Plan which has been approved by Indian Bureau of Mines, Ministry of Mines vide Letter No. AP/SRK/MP/Garnet-2/Hyd dated 26.09.2003 and 18.06.2009.	Complied. Submitted vide lr.no. TSPL/MIN/MoEF/ENV/15-16/921 Dated: 28-11-2015



23	Implementation of conditions laid down in the Mining Plan which has been approved by atomic Minerals directorate for Exploration and Research, Department of Atomic Energy vide Letter No, AMD/MPA/3M/TRIMEX/03,dated December 08,2003 and Mining scheme approval vide no. AMD/MPA/3M/TSPL/720ha/2009 dated 17.08.02009.	Complied. Submitted vide Ir.no. TSPL/MIN/MoEF/ENV/15-16/921 Dated: 28-11-2015
24	Implementation of the Conditions, if any, as laid down by Andhra Pradesh State Coastal Zone Management Authority.	All conditions are implemented as detailed in <b>Annexure - 9</b> .
25	Effective safeguard measures such as conditioning of material with water, regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as around crushing and screening plant, loading and unloading point and transfer points. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.	In dry plant, ambient dust is arrested from the generating points by dust extraction system consisting of de-dusting mechanism, cyclone and bag filters etc. Water sprinklers are installed at MSP rejects discharge point and water tankers are deployed for haul road wetting. Ambient Air Quality monitoring is being carried out as per norms prescribed by the PCB. Ambient air quality monitoring reports are enclosed as <b>Annexure - 10</b>
26	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and installing new piezometers during the mining operation. The periodic monitoring [(At least four times in a year-pre-monsoon(April-May),monsoon (August), post-monsoon(November)and winter(January); once in each season)] shall be carried out in consultation with the State Ground Water Board/Central Ground Water Authority and the data thus collected may be sent regularly to the Ministry of Environment, Forests & Climate Change and its Regional Office Chennai, the Central Ground Water Authority and the Regional Director, Central Ground Water Board. If at any stage, it is observed that the groundwater table is getting depleted due to the mining activity necessary corrective measures shall be carried out.	Ground water monitoring is being carried in the observation wells situated within and outside the lease area. In addition, 7 Nos. of piezometers are installed in the mining lease area and water table, salinity, pH, TDS etc are monitored. It is observed that there is no depletion in ground water table or negative change in the quality. Details are submitted to all authorities as directed. Enclosed <b>Annexure - 11</b>
27	The project proponent shall ensure that no natural watercourse and /or water resources shall be obstructed due to any operations.	No obstructions are made to any natural water course or water resources.
28	Regular monitoring of water quality upstream and downstream of adjoin water bodies shall be carried out an record of monitoring data should be maintained and submitted to Minister of Environment,. Forests &	No water body (except sea) is available within or adjacent to the mining lease area. However, water monitoring is done in a pond situated near the mining lease

	Climate Change its Regional office, Chennai, Central Ground water Authority, Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board.	area. ( <b>Annexure -12</b> )
29	As part of ambient air quality monitoring during operational phase of the project, the air samples shall also be analyzed for their mineralogical composition and records maintained.	Ambient Air Quality Monitoring is being carried out. Enclosed reports as <b>Annexure - 10.</b>
30	Compliance status shall be submitted to the Minister of Environment, Forests & Climate Change its Regional office, located at Chennai on six monthly basis.	Being complied. Last report was submitted vide letter No. TSPL/MIN/MoEF/ENV/15-16/921 dated 28-11-2015
31	Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of SPM and RPM such as haul road, loading and unloading point and transfer points. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.	In dry plant, ambient dust is arrested from the generating points by dust extraction system consisting of de-dusting mechanism, cyclone and bag filters etc. Water sprinklers are installed at MSP rejects discharge point and water tankers are deployed for haul road wetting. Ambient Air Quality monitoring is being carried out as per norms prescribed by the CPCB. <b>Annexure - 10.</b>
32	Vehicular Emissions shall be kept under control and regularly monitored. Vehicles used for transportation of ores and other shall have valid permissions as prescribed under Central Motor Vehicle Rules, 1989 and its amendments. The vehicles shall be covered with a tarpaulin and shall not be over loaded.	Being complied.
33	Digital processing of the entire lease area using remote sensing technique shall be carried out regularly once in three years for monitoring land use pattern and report submitted to Ministry of Environment and Forests and its Regional Office, Chennai.	Will be complied.
34	Implementation of Action plan on issues rose during Public Hearing. As committed by the project proponent during the public hearing shall be implemented and the report shall be submitted to the Regional Office of the Ministry every year.	Complied and status report is attached as <b>Annexure - 13.</b>
35	During initial mining stages, a green belt of 7.5m barrier all around the mine lease boundary shall be made. Subsequently to develop 50m barrier zone with 5-tier plantation inside mine lease in a progressive way near the active mining sites. Adequate plantation shall be raised in the ML area, haul roads, vacant area etc. Green belt development shall be carried out considering CPCB guidelines including selection of	Being complied. Afforestation is being carried out in mined out and backfilled lands with in-house nursery saplings and saplings sourced from the forest dept. Greenbelt development is under progress around mine lease boundary and vacant areas. Density of plantation is more than 2500 plants per ha. Details of plantation

	plant species and in consultation with the local DFO. Herbs and shrubs shall also form a part of afforestation programme besides tree plantation. The density of the trees shall not be less than 2500 plants per ha. The company shall involve local people with the help of self-help group for plantation programme. Details of year wise afforestation programme including rehabilitation of mined out area shall be submitted to the Regional Office of the Ministry every year.	carried out, extent of land covered and green belt developed during the last two years is attached as <b>Annexure -14</b> .
36	Adequate air monitoring stations shall be installed in areas of human habitations near the mine and the results of ambient air quality shall be maintained and regularly submitted to the Regional Office of the Ministry. The monitored data for criteria pollutants shall be regularly uploaded on the company's website and also displayed at project site.	Being complied. Enclosed reports as per <b>Annexure - 10</b>
37	The waste water from the mine shall be treated to conform to the prescribe standards before discharging in to the natural stream. The discharged water shall be regularly monitored and report submitted to the Ministry of Environment & Forests, Central Pollution Control Board and the State Pollution Control Board.	No water from the mine or plant is discharged into any natural stream. Water used for mineral concentration is pumped to the mining pit along with tailings for back filling and water is recovered back to the plant through water treatment plant/thickeners for recycling for process.
38	A final mine closure plan, along with other details shall be submitted to the Ministry of Environment & Forests, 5 years in advance of final mine closure for approval.	Will be complied.

#### B. General Conditions:

S. No	Condition	Compliance
1	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.	Being complied.
2	No change in the calendar plan including excavation, quantum of beach sand mineral i.e. Illeminite, Rutile, Zircon, Monozite and Garnet and waste should be made.	Being followed. Details of production of RoM, minerals and waste during the last 6 months is enclosed as per <b>Annexure- 15</b>
3	At least four ambient air quality monitoring stations should be established in the core zone as well as in the buffer zone for RSPM (Particulate matter with size less than 10 micron i.e. PM <sub>10</sub> ) and NO <sub>x</sub> monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and	Complied. Enclosed AAQM reports as per <b>Annexure - 10</b>

	frequency of monitoring should be undertaken in consultation with the State Pollution Control Board/Central Pollution Control Board once in six months.	
4	Measures should be taken for control of noise levels below 85 db in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs.	Noise monitoring being carried out. Enclosed reports as per <b>Annexure – 16</b> Workers engaged in HEMM operation are provided with ear muffs.
5	There will be zero waste water discharge from the plant.	Complied.
6	Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.	Being complied. Details of the PPE issued during the period are enclosed as <b>Annexure – 17</b>
7	Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	Complied.
8	A separate environmental management cell with suitable qualified personal should be should be set up under the control o a Senior Executive, who will report directly to the Head of the Organization.	Complied.
9	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office located at Chennai.	Complied. Expenditure during the 6 months period for financial year 2016-17 given as <b>Annexure - 18</b>
10	The project authorities should inform to the Regional Office located at Chennai regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	CFO for the project is obtained on 30-10-2015.
11	The Regional Office of this Ministry located at Chennai shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation the officers(s) of the Regional Office furnishing the requisite data/information/monitoring reports.	Being complied.
12	The project proponent shall submit six monthly reports on the status compliance of the stipulated environmental clearance conditions including results of monitored data ((both in hard copies as well as by e-mail) to the Ministry of Environment, Forests & Climate Change , its Regional Office Chennai, the	Being complied.

	respective Zonal Office of Central Pollution Control Board and State Pollution Control Board. The Proponent shall upload the status of compliance of the environmental clearance 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 the Ministry of Environment, Forest 7 Climate Change Chennai, the respective Zonal Officer of Central Pollution Control Board and the State Pollution Control Board.	
13	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Prasad/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. Proof submitted vide letter No. TSPL/MIN/MoEF/ENV/15-16/921 dated 28-11-2015
14	The State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and the Collectors's office/Tehsildar's Office for 30days.	Complied. Proof submitted vide letter No. TSPL/MIN/MoEF/ENV/15-16/921 dated 28-11-2015
15	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 environmental clearance conditions and shall also be sent to the respective Regional Office of the Ministry of Environment, Forests & Climate Change, Chennai by e-mail.	Complied. Submitted vide letter No. TSPL/MIN/MoEF/ENV/15-16/921 dated 28-11-2015
16	The project authorities should advertise at least in two local newspapers of the District or State in which the project is located and widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry of Environment, Forests & Climate Change at <a href="http://envfor.nic.in">http://envfor.nic.in</a> and a copy of the same should be forwarded to the Regional Office of this Ministry located at Chennai.	Complied. Proof submitted vide letter No. TSPL/MIN/MoEF/ENV/15-16/921 dated: 28-11-2015

TRIMEX

Annexure - 1

Date: 14.03.2016

Chief Conservator of Forests (WL) &  
Wildlife Warden, Govt of Andhra Pradesh (AP)  
Bhubaneswar, Hyderabad

Through:  
The Divisional Forest Officer, Srikakulam

Dear Sir,

Approved Wildlife Conservation Plan - Payment of committed fund in the 1<sup>st</sup> year (2015-16) for wildlife conservation - Reg.

Ref: Wildlife conservation plan approved vide R.C.No:22899/2013NVL-3 dated 11.11.2014.

Further to the approval of the wildlife conservation plan (copy enclosed) under reference above, we have received environmental clearance for the expansion project vide No.J-11015-175/2011-IA.II (M) dated 17<sup>th</sup> April 2015. As per the approved wildlife conservation plan, total amount committed by us for wildlife conservation during the 1<sup>st</sup> year of operation i.e 2015-16 is as below:

Interventions for conservation of Sea turtles	- Rs5.00 Lakhs
Interventions for protecting shelter belt	- Rs4.80 Lakhs
Other interventions	- <u>Rs5.30 Lakhs</u>
<b>Total</b>	<b>Rs 15.10 Lakhs</b>

Therefore, we are herewith submitting an account payee Cheque for Rs15.10 Lakhs (Rupees Fifteen Lakhs and Ten Thousands only) (Cheque No 950794 dated 14.03.2016 State Bank of India) drawn in favour of BIOSAP.

Kindly acknowledge receipt of the same. We confirm that we will continue to make annual payments as per the approved plan.

Thanking you  
Yours faithfully

Trimex Sands Pvt Ltd

Authorized Signatory



Trimex Sands Pvt Ltd: Vaidhavalasa (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

Chennai Office: Trimex Towers, No. 3 Subbaraya Avenue, C.P. Ramaswamy Road, Alwarpet, Chennai - 600 018, Tamil Nadu, India.  
Tel: +91 44 2498 8822 / 8813 Fax: +91 44 2498 6047 web: www.trimexsands.com

U14299TN2004PTC071437

15,10,000 /  
(CP Srikakulam)  
14/3,  
Sri Durga Towers  
1200360

14032016

(0031) SRIRAKULAM  
P.B. NO. 5, T. ROAD, SRIRAKULAM  
DIST. SRIRAKULAM A.P. 522011  
IFS Code: SBIN0009119

A/c Payee

श्री श्री लक्ष्मी वसिष्ठ प्रसाद 03.03.16

BIOSAP

Fifteen Lakh Ten Thousand Only

₹ \*\*15,10,000.00  
असि कर्

VALID UPTO ₹ 50 LACS AT NON-HOME BRANCH

11152294574

CURRENT A/C  
PREFIX :  
1515800001

UTILITY CHEQUE Payable at Par at All Branches of SBI

  
TRIMEX SANDS PVT. LTD.,  
Please sign above

⑈950794⑈ 532002002⑈ 000074⑈ 29



GOVERNMENT OF ANDHRA PRADESH  
ABSTRACT

Water Resources Department - Industrial Water Supply - SLSWCC -  
Permission to draw 0.14 TMC of water per annum from the  
Vamsadhara River in favour of M/s. Trimex Sands Pvt. Ltd., at Vatsavalasa  
Gara (M) of Srikakulam District for a further period of 10 years for  
consumptive use - Accorded - Orders - Issued.

WATER RESOURCES (REFORMS) DEPARTMENT

G.O.'s No. 103.

Dated: 24-09-2015.

Read the

1) G.O.Ms.No.71, I&CAD(PW:Reforms) Deptt., dt:21-01-2007

2) From the E.N.C.(Irr.), Hyd., Lr.No.ENC(1)/DCE.DW/OT  
Trimex Industries, dated:25-03-2015.

>><<

ORDER

In the reference 1<sup>st</sup> read above, Government have accorded permission to M/s.TRIMEX Industries Limited to draw 0.14 TMC of water from the Vamsadhara River near Vatsavalasa(V), Srikakulam District for a period of five years subject to payment of water charges @ Rs.5.50/1000 gallons for consumptive use. However, agreement for water drawl was concluded by M/s. Trimex Sands Private Limited, Vatsavalasa (V), Gara(M) of Srikakulam District with Superintending Engineer, Irrigation Circle, Bobbili vide agreement No.285E/2009-10, dated:16-6-2009 and expired on 15-06-2014.

In the reference 2<sup>nd</sup> read above, the Engineer-in-Chief(Irrigation), Government has submitted proposals for renewal permission to draw 0.14 TMC of water from Vamsadhara River for a further period of 10 years from 16-06-2014 to 15-06-2024 in favour of M/s.Trimex Sands Private Limited, Vatsavalasa (V), Gara(M) of Srikakulam District, taking into account on change of name as per G.O.Ms.No.10, Industries & Commerce(M-III) Government, dated:17-01-2007 and Registrar of Companies, A.P. Certificate, dated:11-4-2007.

Government after careful examination, hereby accord renewal permission for drawl of 0.14 TMC water in favour of M/s. Trimex Sands Private Limited, Vatsavalasa (V), Gara(M) of Srikakulam District from Vamsadhara River for a further period of 10 years from 16-06-2014 to 15-06-2024 for consumptive use with usual terms and conditions subject to payment of water charges @ Rs.5.50/1000 gallons as ordered in the reference 1<sup>st</sup> read above. The water royalty charges are likely to be revised by the Government from time to time and the industry shall pay the revised rates as fixed by the Government from time to time. The royalty charges on water shall be paid in advance every year.

All other conditions as stipulated in the G.O. 1<sup>st</sup> read above shall also be adhered to.

P.T.O.,

The Engineer-in-Chief(Irrigation), A.P., Hyderabad shall take necessary action in the matter, accordingly.

BY ORDER AND IN THE NAME OF THE GOVERNOR OF ANDHRA PRADESH)

ADITYA NATH DAS,  
PRINCIPAL SECRETARY TO GOVERNMENT.

- The Engineer-in-Chief(Irrigation), I&CAD Department,  
Jalagadda Buildings, Errum Munzil, Hyderabad.
- The Superintending Engineer, Irrigation Circle, Bobbili - 535 558.
- The District Collector, Srikakulam.
- The Managing Director, A.P. Pollution Control Board, Hyderabad.
- The Commissioner of Industries, Govt. of A.P., Chirag Ali Lane, Hyd.
- The P.S. to Hon'ble Minister (WRD).
- The P.S. to Principal Secretary to Govt.(WRD).
- M/s. Turnex Sands Private Limited, Plot No.56, Telugumusalayya Layout,  
Srikakulam District - 532001.

SP/SC.

//FORWARDED :: BY ORDER//

*I. S. Srinivasulu Reddy*  
SECTION OFFICER.

**Back filling**







**Fencing at 100 Mts. HTL**



**TEAM****ORIGINAL**

Form-No TCLA/GF/RF-138

**Labs and Consultants****1145****Registered Office :**

B-115, 116, 117 &amp; 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/8/0916

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	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 CaCo <sub>3</sub>	450 mgpl	180mgpl	440mgpl	120mgpl	390mgpl
8	Calcium as CaCo <sub>3</sub>	290mgpl	120mgpl	290mgpl	80mgpl	250mgpl
9	Magnesium as CaCo <sub>3</sub>	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 :**

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

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

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

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

**TEST REPORT**

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

dt10.10.2016

Description of Test:

Phisico-chemical Analysis of Water

Name of the client:

Trimex Sands Pvt. Ltd.

Location of sampling:

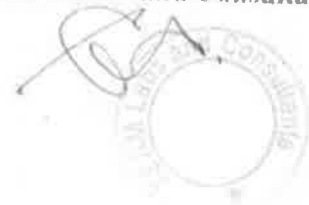
Water samples as per Details given

Date of Sample Collected :

21.09.2016

No	Parameter	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





**Registered Office :**

B-115, 116, 117 &amp; 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/9/0916

dt 10.10.2016

Description of Test:

Phisico-chemical Analysis of Water

Name of the client:

Trimex Sands Pvt. Ltd.

Location of sampling:

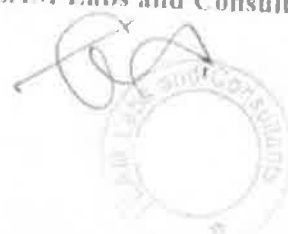
Water samples as per Details given

Date of Sample Collected :

21.09.2016

No	parameter	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 CaCo <sub>3</sub>	150mgpl	115mgpl	220mgpl
8	Calcium as CaCo <sub>3</sub>	90mgpl	80mgpl	140mgpl
9	Magnesium as CaCo <sub>3</sub>	60mgpl	35mgpl	80mgpl
10	Chlorides Cl <sup>-</sup>	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****Registered Office :****1013**

B-115, 116, 117 &amp; 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/8/0816

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	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



**Labs and Consultants****1012****Registered Office :**

B-115, 116, 117 &amp; 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/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 CaCo <sub>3</sub>	375mgpl	490mgpl	160mgpl	740mgpl
8	Calcium as CaCo <sub>3</sub>	260mgpl	320mgpl	90mgpl	480mgpl
9	Magnesium as CaCo <sub>3</sub>	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

For TEAM Labs and Consultants



**Labs and Consultants****Registered Office :****1011**

B-115, 116, 117 &amp; 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/9/0816

dt16.09.2016

Description of Test: Phisico-chemical Analysis of Water

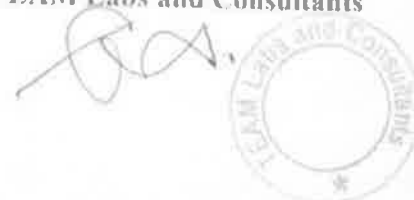
Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: Water samples as per Details given

Date of Sample Collected : 11.08.2016

No	parameter	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	-

For TEAM Labs and Consultants



**Labs and Consultants****Registered Office :****825**

B-115, 116, 117 &amp; 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/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

Sl. 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	4.0 NTU	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	

For TEAM Labs and Consultants



**Labs and Consultants****829****Registered Office :**

B-115, 116, 117 &amp; 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 No. **TLC/V/Env/TSPL/10/0716****TEST REPORT**

dt08.08.2016

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	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	Turbidity	3.5 NTU	3.0 NTU	3.5 NTU	5.0 NTU
7	Total Hardness as CaCo <sub>3</sub>	390mgpl	505mgpl	150mgpl	730mgpl
8	Calcium as CaCo <sub>3</sub>	270mgpl	325mgpl	90mgpl	480mgpl
9	Magnesium as CaCo <sub>3</sub>	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

For TEAM Labs and Consultants



**Labs and Consultants****826****Registered Office :**

B-115, 116, 117 &amp; 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/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 at Vatchavalasa	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 objectionable	un objectionable	un objectionable
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 in mtrs	-	2.18	2.96	-

For TEAM Labs and Consultants





**Labs and Consultants****Registered Office :****647**

B-115, 116, 117 &amp; 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/8/0616 dt 04.07.2016

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	Yerraguddi 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	-

For TEAM Labs and Consultants



**Labs and Consultants**

G23

**Registered Office :**

B-115, 116, 117 &amp; 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 No. TLC/V/Env/TSPL/10/0616 **TEST REPORT** dt 04.07.2016

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 CaCo <sub>3</sub>	410mgpl	510mgpl	160mgpl	740mgpl
8	Calcium as CaCo <sub>3</sub>	270mgpl	330mgpl	90mgpl	480mgpl
9	Magnesium as CaCo <sub>3</sub>	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

For TEAM Labs and Consultants



**Labs and Consultants**

623

**Registered Office :**

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

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

**TEST REPORT**

Test Report No. TLC/V/Env/TSPL/9/0616 dt 04.07.2016

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	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 objection able	un objectionable	un objection able
4	Total Dissolved solids	550	390mgpl	690mgpl	155
5	Total Suspended Solids	5	5mgpl	5mgpl	16
6	Turbidity	1.4 NTU	2.6 NTU	4.4 NTU	9.8 NTU
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 <sup>-</sup>	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	-

For TEAM Labs and Consultants



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

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

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

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

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

**TEST REPORT**

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

Description of Test: Phisico-chemical Analysis of Water

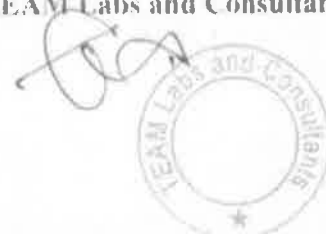
Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: Water samples as per Details given

Date of Sample Collected : 09.05.2016

No	Parameter	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

For TEAM Labs and Consultants



**Labs and Consultants**

496

**Registered Office :**

B-115, 116, 117 &amp; 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 No. TLC/V/Env/TSPL/10/0516 **TEST REPORT** 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	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

For TEAM Labs and Consultants



**Labs and Consultants**

495

**Registered Office :**

B-115, 116, 117 &amp; 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/9/0516 dt 06.06.2016

Description of Test: Phisico-chemical Analysis of Water

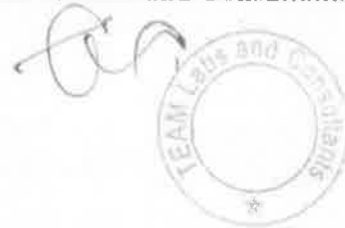
Name of the client: Trimex Sands Pvt. Ltd.

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 objection able	un objectionable	un objection able
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 inmtres	-	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, Govt, New Delhi

Test Report No. TLC/V/Env/TSPL/6/0416 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	Mogadalapadu Open Well water	Parlavanipeta 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 CaCo <sub>3</sub>	430 mgpl	180mgpl	505mgpl	170mgpl
8	Calcium as CaCo <sub>3</sub>	240mgpl	110mgpl	290mgpl	95mgpl
9	Magnesium as CaCo <sub>3</sub>	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****Registered Office :**

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

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

**TEST REPORT**

Test Report No. TLC/V/Env/TSPL/8/0416 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	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 CaCo <sub>3</sub>	545mgpl	350mgpl	125mgpl	870mgpl
8	Calcium as CaCo <sub>3</sub>	335mgpl	250mgpl	80mgpl	540mgpl
9	Magnesium as CaCo <sub>3</sub>	210mgpl	100 mgpl	45mgpl	330mgpl
10	Chlorides Cl <sup>-</sup>	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

**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/7/0416 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	Pond at Vatchavalasa/	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

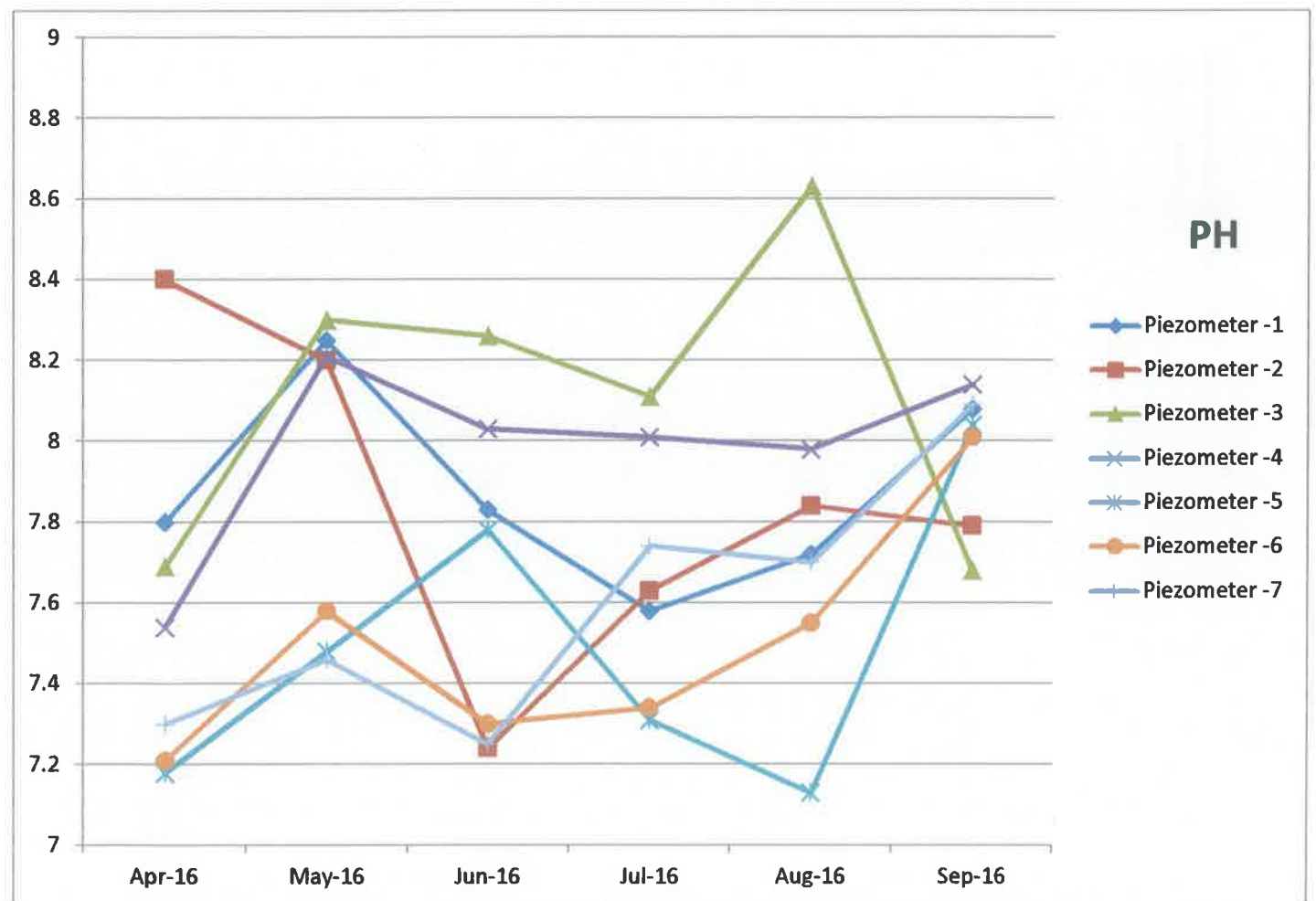
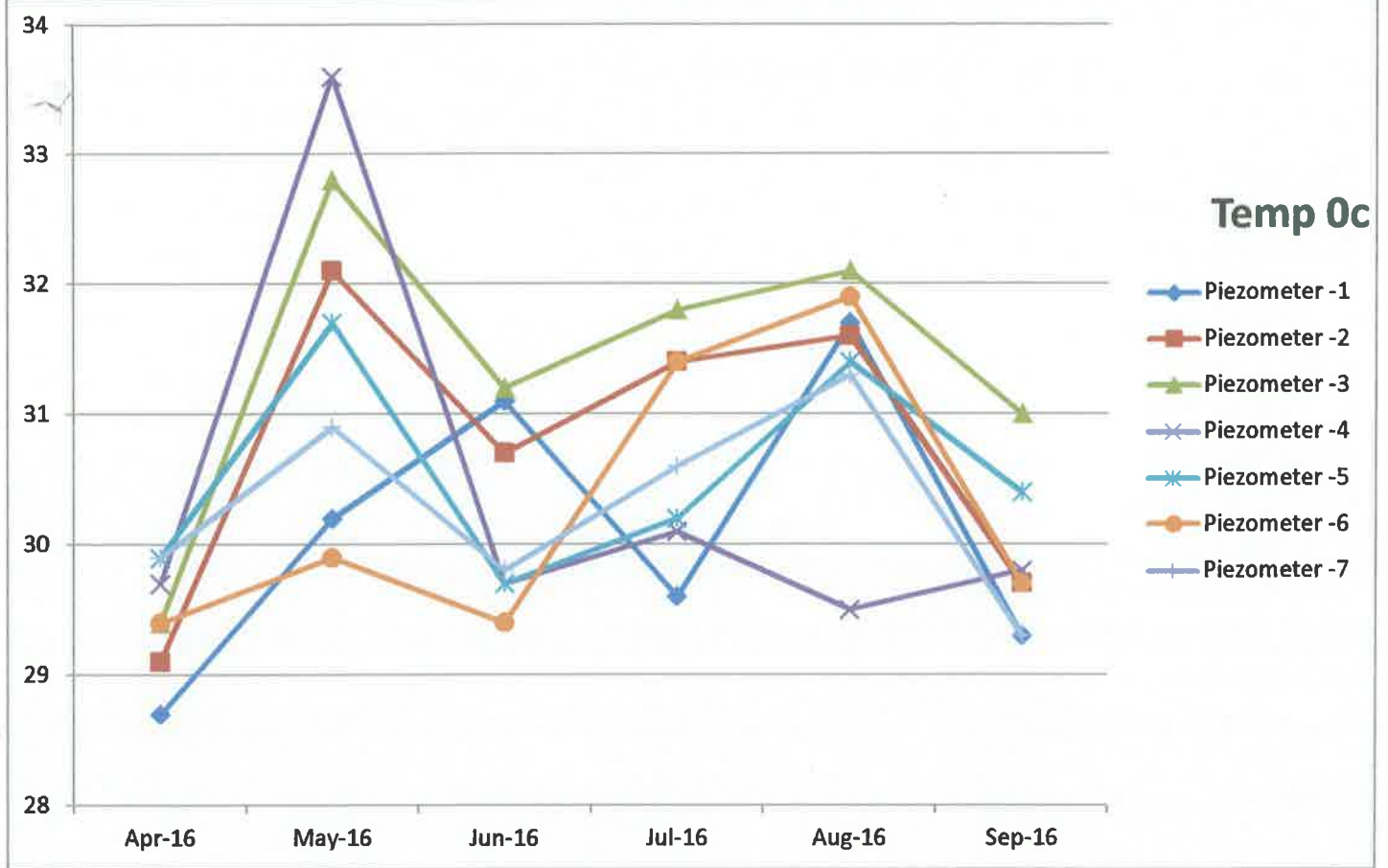
Location	Date	Time	Temp (C)	pH	EC (uS/cm @25C)	TDS (mg/L)	SAL (PSU)	Water Table+MSL
PM-1	28-Jul-16	11:39:35	29.6	7.58	602	391	0.25	0.58
PM-2	28-Jul-16	11:56:28	31.4	7.63	226	146	0.07	4.894
PM-3	28-Jul-16	12:13:39	31.8	8.11	313	203	0.1	5.906
PM-4	28-Jul-16	14:40:25	30.1	8.01	785	458	0.32	3.545
PM-5	29-Jul-16	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

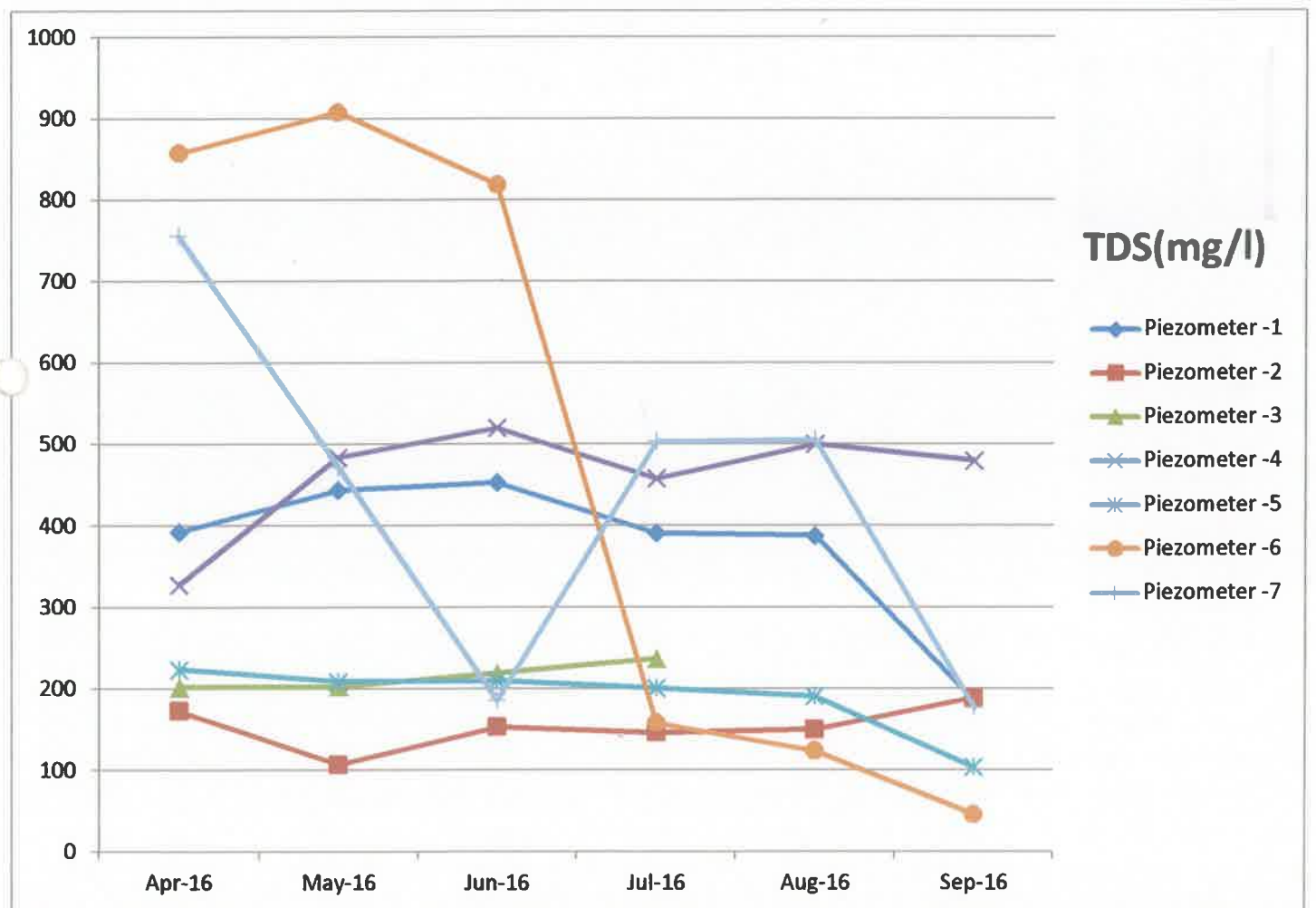
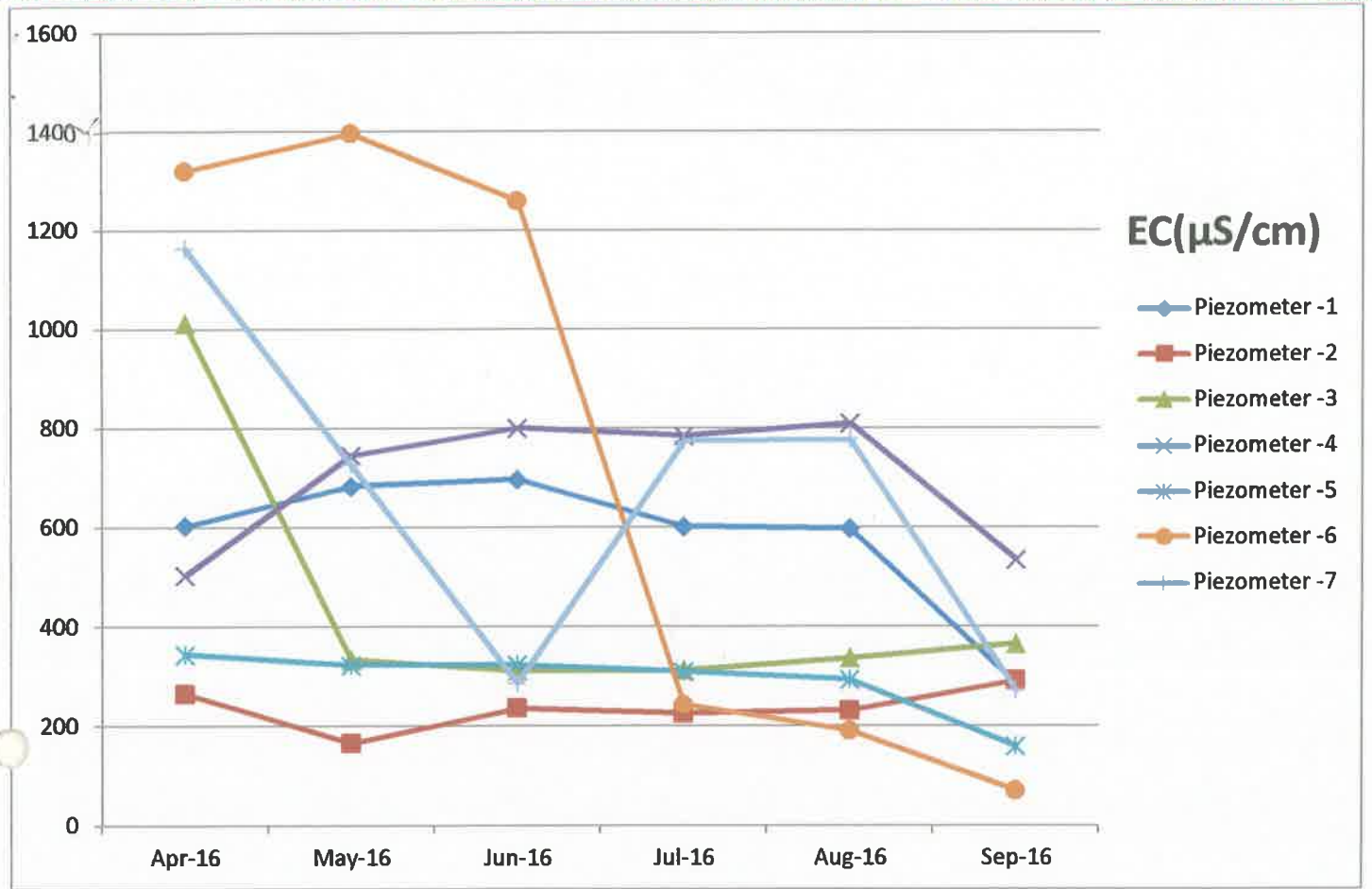
### Piezometer Monitoring for the month of August-2016

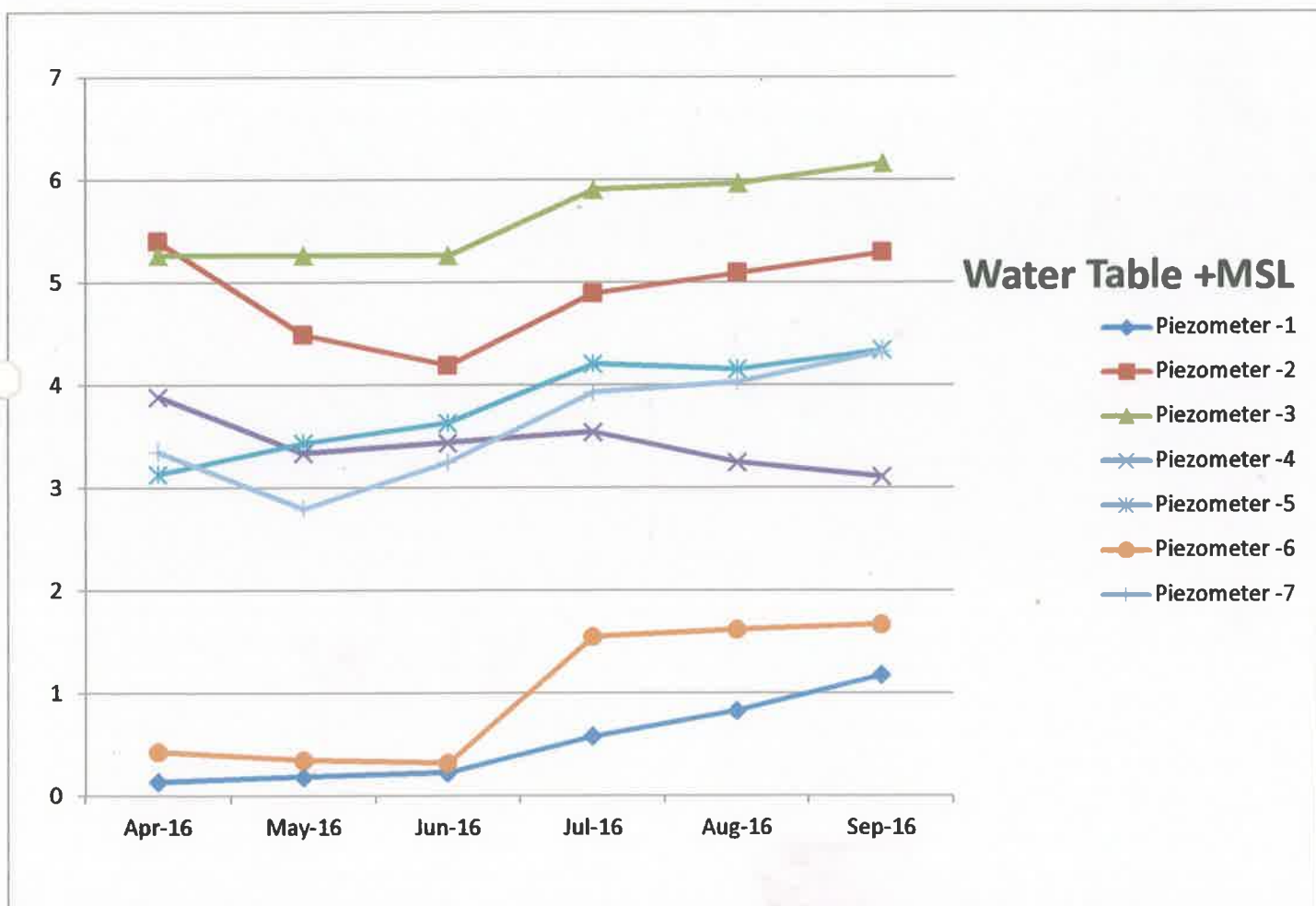
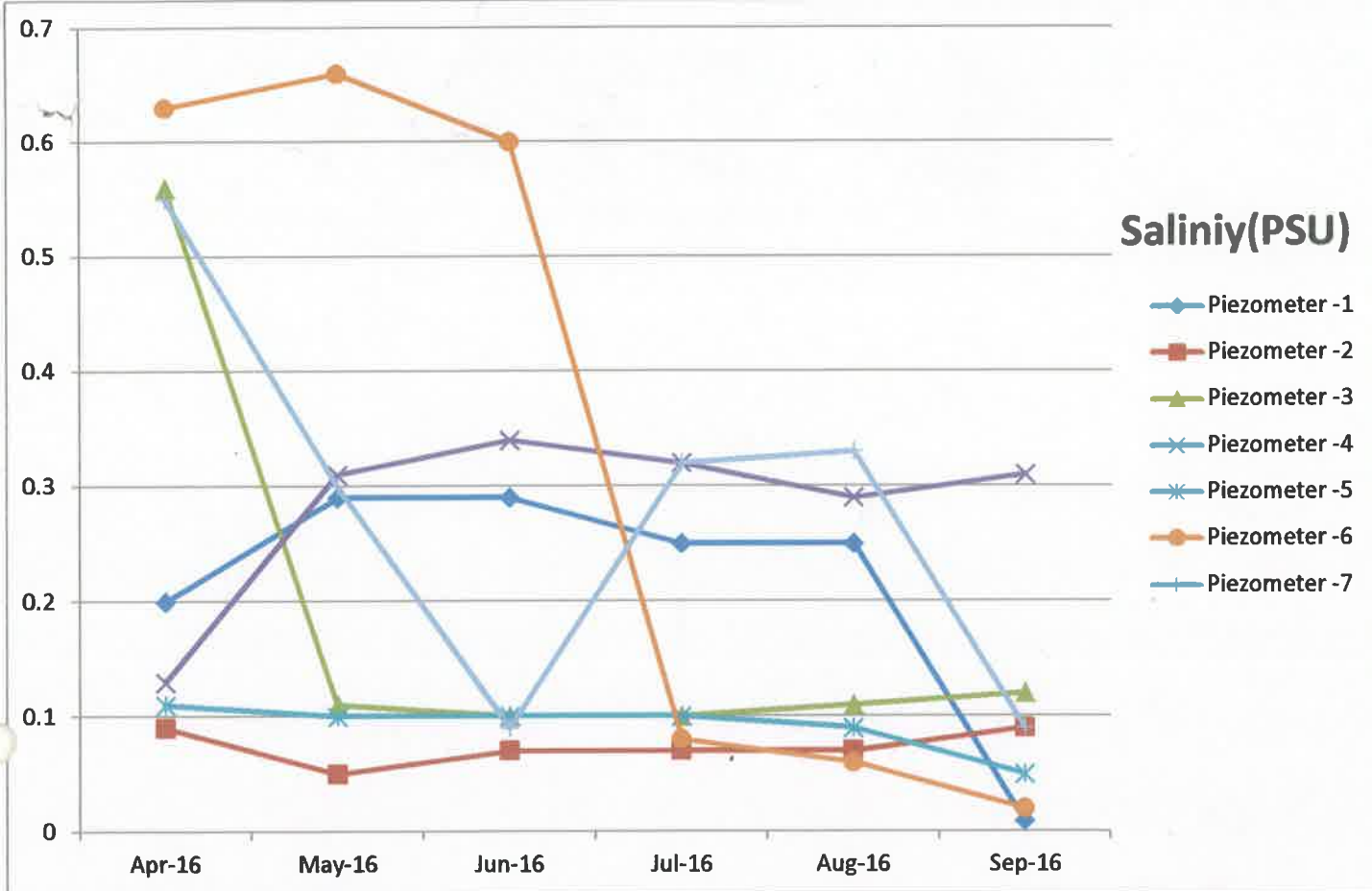
Location	Date	Time	Temp (C)	pH	EC (uS/cm @25C)	TDS (mg/L)	SAL (PSU)	Water Table+MSL
PM-1	18-Aug-16	10:56:15	31.7	7.72	598	388	0.25	0.83
PM-2	18-Aug-16	11:56:28	31.6	7.84	232	150	0.07	5.094
PM-3	18-Aug-16	12:39:35	32.1	8.63	337	219	0.11	5.966
PM-4	18-Aug-16	13:39:52	29.5	7.98	810	500	0.29	3.25
PM-5	18-Aug-16	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











Annexure- 8

TSPL/MIN/AERB/16-17/ 1029

31-10-2016.  
Srikakulam.

To  
The Director,  
Industrial Plant Safety Division,  
Atomic Energy Regulatory Board,  
Niyamak Bhavan-A, Anushaktinagar,  
Mumbai-400 094.

Dear Sir,

We are herewith submitting Quarterly Health Physics Report for Jul-16 to Sep-16.

Thanking You,

Yours truly,

VP (Mines)

**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 - 600 038 Tamilnadu, India.  
Tel: +91 44 2498 8822 / 8813 Fax: +91 44 2498 6047 web: www.trimexsands.com

**CIN :** U14299TN2004PTC071437

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

Date: 31-10-2016.

Name of the facility : TRIMEX SANDS PVT LTD.  
Location of the facility : SRIKAKULAM, ANDHRAPRADESH.  
Period Reporting : Jul 2016 to Sep 2016.

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

		No. of persons monitored	Collective dose (person-mSv)	Average Individual dose (mSv)	Maximum Individual dose (mSv)
Quarter	Regular	18	0.0	0.00	0.0
	Temporary	NIL	NIL	NIL	NIL
Cumulative in the year	Regular	23	1.3	0.057	1.10
	Temporary	NIL	NIL	NIL	NIL

## 1.1 INDIVIDUAL DOSE STATICS

Dose range(mSv)	Number of person in year		
	Regular	Temporary	Total
Less than 2	23	NIL	23
2-6	NIL	NIL	NIL
>6-20	NIL	NIL	NIL
>20-30	NIL	NIL	NIL
>30	NIL	NIL	NIL
Total	23	NIL	23

## 2.0 MONAZITE ENRICHED TAILINGS DETAILS

	Raw material used (From mines and stock)			Final Products (Which ever is applicable)					Tailings Generated		
	Feed	Pre - Concentration plant output	Procured raw material	Ilmenite	Rutile	Zircon	Garnet	Sillimanite	Silica Rich Tailings		Monazite Enriched Tailings
									Rejects from PCP	Rejects from MSP	
Qty/ Yr (tons)	1062669	170497(*)	----	66335	1753	1020	6935	10045	892172	72382	661
Mona zite (%)	0.10	IRZ - 0.59 GA - 0.1 SI - 0.1	---	0.05	0.07	0.20	0.07	0.03	0.02	0.35	69

(\*) 11366 MT of Concentrate material generated from Pre-Concentration Plant was stored inside the PCP premises.

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

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

**3.0 RADIATION MONITORING RESULT** (whichever is applicable)

Location	Radiation Level ( $\mu\text{Gy/hr}$ )
Mining Area	0.5 – 0.6
Backfilled Area	0.1–0.2
Pre Concentration Plant	
• General Background	0.2–0.4
• Raw material Storage	0.5 – 0.6
• Pre Concentration Plant out put	IRZ con : 2 – 3 GA con : 0.2–0.3 Sil con : 0.1–0.2
• Pre Concentration Plant Tailings	0.1–0.2
Mineral Separating plant (Physical mineral separation and /or Chemical processing)	
• General Background of plant premises	0.3 – 0.6
• Raw material Storage	IRZ con : 2 – 3 GA con : 0.2 – 0.5 Sil con : 0.2 – 0.4
• Inside Mineral Separating plant(eg Magnetic, High tension separators)	0.6 – 1.0
• Monazite Enriched tailings storage area	60–90
• On Top of Trenches filled with monazite enriched tailings and topped with silica rich sand	0.3 – 0.7
• Inside chemical processing plant having minerals separation unit (roaster ,caliciner, digester, effluent, pipelines like iron oxide slurry pipe lines etc)	-NA-

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

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

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

# AVANTTEC LABORATORIES (P) LTD.,

No. 17, Arignar Anna Industrial Estate, Mettukuppam, Vanagaram, Chennai - 600 095.

## Personnel Monitoring Service

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

SERVICE FREQUENCY : YEAR 2016  
Report Date : 02/11/2016

Pers. No.	Name	Worn At	Whole Body Dose (mSv)				Current Year	Beta Dose (mSv)	Beta Total (mSv)	Wrist Dose (mSv) (X/G)+B = Total	Wrist Total mSv
			Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec					
1	0006 RAJU.M	C	0.00	0.00	0.00	-	0.00	-	-	-	-
2	0007 TELUKUTI RAMA RAO	C	0.00	0.00	-	-	0.00	-	-	-	-
3	0008 RAMAKRISHNA.P	C	0.00	0.00	0.00	-	0.00	-	-	-	-
4	0010 SRIRAMULU.D	C	0.00	0.00	-	-	0.00	-	-	-	-
5	0011 SATYAM.T	C	0.00	0.00	0.00	-	0.00	-	-	-	-
6	0013 KAMA RAJU.T	C	0.05	0.00	0.00	-	0.05	-	-	-	-
7	0014 RAMA RAO.P	C	0.00	0.00	0.00	-	0.00	-	-	-	-
8	0015 VENKATA RAO.P	C	0.05	0.00	0.00	-	0.05	-	-	-	-
9	0016 RAMA RAO.T	C	0.00	0.00	0.00	-	0.00	-	-	-	-
10	0017 SIMHACHALAM.THAMADA	C	0.10	0.00	0.00	-	0.10	-	-	-	-
11	0018 RADHA KRISHNAK	C	0.00	0.00	0.00	-	0.00	-	-	-	-
12	0019 SIMHACHALAM.TELUKUTI	C	0.00	0.00	0.00	-	0.00	-	-	-	-
13	0020 RAMA RAO.M	C	0.00	0.00	0.00	-	0.00	-	-	-	-
14	0021 NARAYANA RAO.D	C	0.00	0.00	0.00	-	0.00	-	-	-	-
15	0022 DANAYYA.T	C	0.00	0.00	0.00	-	0.00	-	-	-	-
16	0023 RAMA RAJU.S	C	0.00	0.00	0.00	-	0.00	-	-	-	-
17	0024 SRINUVASA RAO.B	C	0.10	1.00	0.00	-	1.10	-	-	-	-
18	0025 BHAGAVAN.D	C	0.00	0.00	0.00	-	0.00	-	-	-	-
19	0026 SHRI.BALAGA SRAVAN KUMAR	C	0.00	0.00	-	-	0.00	-	-	-	-
20	0029 SHRI.MYLAPILLI NAGA RAJU	C	0.00	0.00	0.00	-	0.00	-	-	-	-
21	0030 SHRI.MYLAPILLI SRINU	C	0.00	0.00	-	-	0.00	-	-	-	-
22	0032 SHRI.SAMPATHI RAO PRASANIN	C	0.00	0.00	0.00	-	0.00	-	-	-	-
23	0033 SHRI.KAPU ARUN KUMAR	C	0.00	0.00	-	-	0.00	-	-	-	-

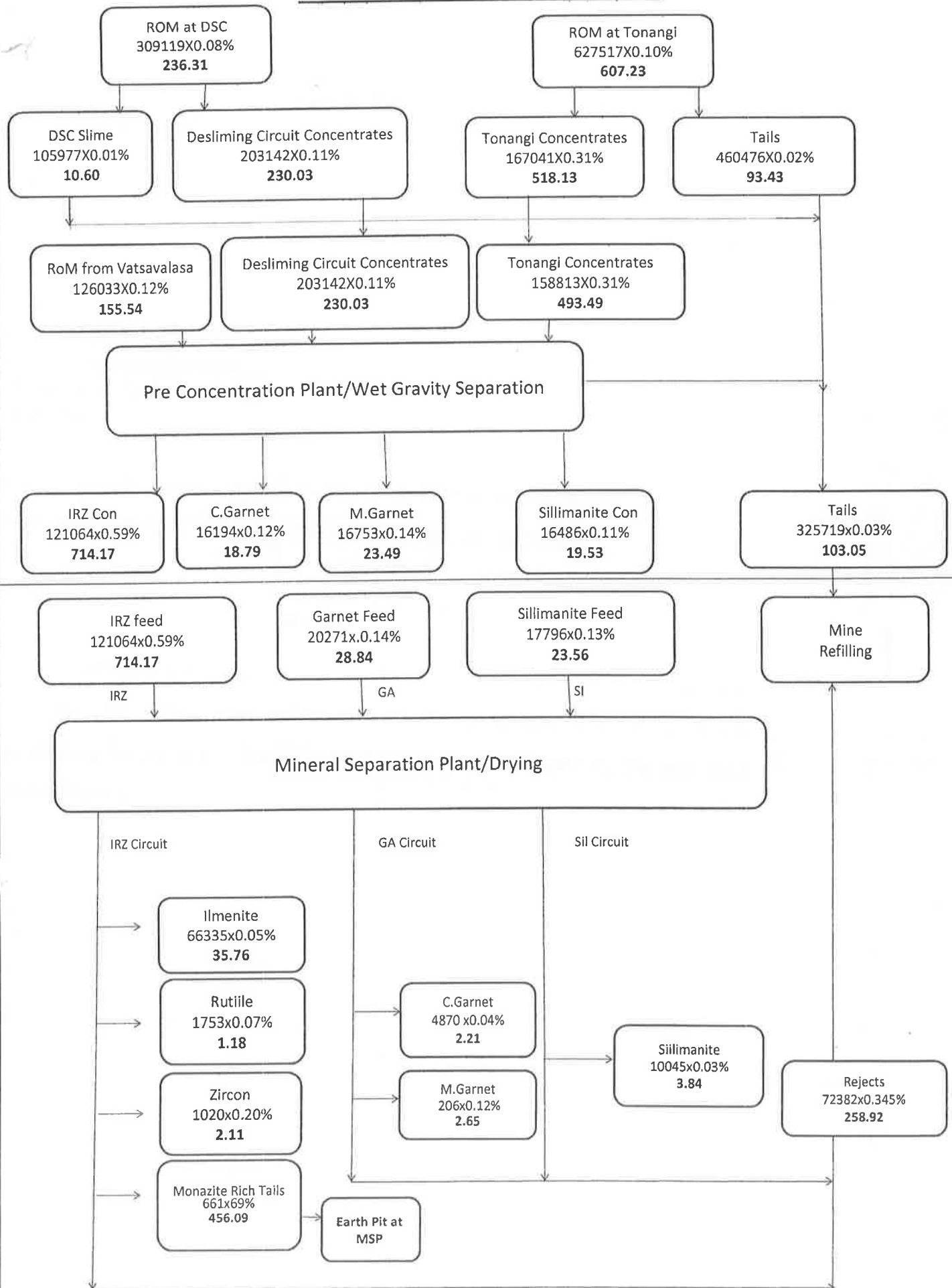
#	Pers. No.	Name	Worn At	Jan-Mar	Apr-Jun	Jul-Sep	Whole Body Dose (mSv)	Current Year	Beta Dose (mSv)	Beta Total (mSv)	Wrist Dose (mSv) (X/G)+B = Total	Wrist Total mSv
Notes :												

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

Authenticated B

P.AYAPPAN  
SR.SCIENTIFIC

# MONAZITE MATERIAL BALANCE





TSPL/MIN/AERB/16-17/1021

14-10-2016.  
Srikakulam.

To,  
The Director,  
Industrial Plant Safety Division,  
Atomic Energy Regulatory Board,  
Niyamak Bhavan-A, Anushaktinagar,  
Mumbai-400 094.

**Sub:** Revised Quarterly Health Physics Report (I<sup>st</sup> & II<sup>nd</sup> Quarter of 2016)

**Ref:** Lr. No: AERB/RI/IPSD/SPS/65A25/2016/3025 Dt: 06/10/2016

Dear Sir,

We invite your kind attention to the subject and Sl. No. 6 of Regulatory Inspection team recommendations vide letter under reference cited above. In this connection, we are herewith submitting the revised I<sup>st</sup> & II<sup>nd</sup> Quarter Health Physics Report for the year 2016 for your kind reference.

Thanking You,

Yours truly,

VP (Mines)

**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



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

Date: 14-10-2016.

Name of the facility : TRIMEX SANDS PVT LTD.  
 Location of the facility : SRIKAKULAM, ANDHRAPRADESH.  
 Period Reporting : Apr 2016 to Jun 2016.

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

		No. of persons monitored	Collective dose (person-mSv)	Average Individual dose (mSv)	Maximum Individual dose (mSv)
Quarter	Regular	23	1.0	0.043	1.0
	Temporary	NIL	NIL	NIL	NIL
Cumulative in the year	Regular	23	1.3	0.057	1.10
	Temporary	NIL	NIL	NIL	NIL

## 1.1 INDIVIDUAL DOSE STATICS

Dose range(mSv)	Number of person in year		
	Regular	Temporary	Total
Less than 2	23	NIL	23
2-6	NIL	NIL	NIL
>6-20	NIL	NIL	NIL
>20-30	NIL	NIL	NIL
>30	NIL	NIL	NIL
Total	23	NIL	23

## 2.0 MONAZITE ENRICHED TAILINGS DETAILS

	Raw material used (From mines and stock)			Final Products (Which ever is applicable)					Tailings Generated		
	Feed	Pre - Concentration plant output	Procured raw material	Ilmenite	Rutile	Zircon	Garnet	Sillimanite	Silica Rich Tailings		Monazite Enriched Tailings
									Rejects from PCP	Rejects from MSP	
Qty/ Yr (tons)	663597	107662 (*)	----	40608	1047	586	4555	6199	555935	44488.5	429
Monazite (%)	0.10	IRZ - 0.59 GA - 0.1 SI - 0.1	---	0.04	0.06	0.20	0.06	0.02	0.03	0.34	69

(\*) 9749.5 MT of Concentrate material generated from Pre-Concentration Plant was stored inside the PCP premises.

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

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

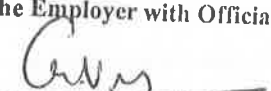
**3.0 RADIATION MONITORING RESULT** (whichever is applicable)

Location	Radiation Level ( $\mu\text{Gy/hr}$ )
Mining Area	0.5 – 0.6
Backfilled Area	0.1–0.2
Pre Concentration Plant	
• General Background	0.2–0.4
• Raw material Storage	0.5 – 0.6
• Pre Concentration Plant out put	IRZ con : 2 – 3 GA con : 0.2–0.3 Sil con : 0.1–0.2
• Pre Concentration Plant Tailings	0.1–0.2
Mineral Separating plant (Physical mineral separation and /or Chemical processing)	
• General Background of plant premises	0.3 – 0.5
• Raw material Storage	IRZ con : 2 – 3 GA con : 0.3 – 0.6 Sil con : 0.2 – 0.5
• Inside Mineral Separating plant(eg Magnetic, High tension separators)	0.6 – 1.0
• Monazite Enriched tailings storage area	60–100
• On Top of Trenches filled with monazite enriched tailings and topped with silica rich sand	0.5 – 0.7
• Inside chemical processing plant having minerals separation unit (roaster ,caliciner, digester, effluent, pipelines like iron oxide slurry pipe lines etc)	-NA-

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

(Signature of Radiological Safety Officer)

Signature of the Employer with Official Seal & Date

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

# AVANTEC LABORATORIES (P) LTD.,

No. 17, Arignar Anna Industrial Estate, Mettukuppam, Vanagaram, Chennai - 600 095.

Personnel Monitoring Service  
DOSE REPORT

Institution No. : 015026

Address

: TRIMEX SANDS PVT LTD  
VATSALALASA (V), GARA (M),  
SRIKAKULAM (DIST),  
SRIKAKULAM, ANDHRA PRADESH,  
INDIA - 532404

SERVICE FREQUENCY : QUARTERLY YEAR 2016

Report Date : 14/07/2016

#	Pers. Name No.	Worm At	Jan-Mar	Apr-Jun	Whole Body Dose (mSv)			Current Year Total	Beta Dose (mSv)	Beta Total (mSv)	Wrist Dose (mSv) (X/G)+B =	Wrist Total mSv
1	0006 RAJU.M	C	0.00	0.00	-	-	-	0.00	-	-	-	-
2	0007 TELUKUTI RAMA RAO	C	0.00	0.00	-	-	-	0.00	-	-	-	-
3	0008 RAMAKRISHNA.P	C	0.00	0.00	-	-	-	0.00	-	-	-	-
4	0010 SRIRAMULU.D	C	0.00	0.00	-	-	-	0.00	-	-	-	-
5	0011 SATYAM.T	C	0.00	0.00	-	-	-	0.00	-	-	-	-
6	0013 KAMA RAJU.T	C	0.05	0.00	-	-	-	0.00	-	-	-	-
7	0014 RAMA RAO.P	C	0.00	0.00	-	-	-	0.05	-	-	-	-
8	0015 VENKATA RAO.P	C	0.00	0.00	-	-	-	0.00	-	-	-	-
9	0016 RAMA RAO.T	C	0.05	0.00	-	-	-	0.05	-	-	-	-
10	0017 SIMHACHALAM THAMADA	C	0.00	0.00	-	-	-	0.00	-	-	-	-
11	0018 RADHA KRISHNA.K	C	0.10	0.00	-	-	-	0.10	-	-	-	-
12	0019 SIMHACHALAM TELUKUTI	C	0.00	0.00	-	-	-	0.00	-	-	-	-
13	0020 RAMA RAO.M	C	0.00	0.00	-	-	-	0.00	-	-	-	-
14	0021 NARAYANA RAO.D	C	0.00	0.00	-	-	-	0.00	-	-	-	-
15	0022 DANAYYA.T	C	0.00	0.00	-	-	-	0.00	-	-	-	-
16	0023 RAMA RAJU.S	C	0.00	0.00	-	-	-	0.00	-	-	-	-
17	0024 SRINUVASA RAO.B	C	0.00	0.00	-	-	-	0.00	-	-	-	-
18	0025 BHAGAVAN.D	C	0.10	1.00	-	-	-	1.10	-	-	-	-
19	0026 SHRI.BALAGA SRAVAN KUMAR	C	0.00	0.00	-	-	-	0.00	-	-	-	-
20	0029 SHRI.MYLAPILLI NAGA RAJU	C	0.00	0.00	-	-	-	0.00	-	-	-	-
21	0030 SHRI.MYLAPILLI SRINU	C	0.00	0.00	-	-	-	0.00	-	-	-	-
22	0032 SHRI.SAMPATHI RAO PRASANAN	C	0.00	0.00	-	-	-	0.00	-	-	-	-
23	0033 SHRI.KAPU ARUN KUMAR	C	0.00	0.00	-	-	-	0.00	-	-	-	-

#	Pers. Name No.	Worn At	Whole Body Dose (mSv)				Current Year Total	Beta Dose (mSv)	Beta Total (mSv)	Wrist Dose (mSv)  (X/G)+B = Total	Wrist Total mSv
			Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec					
Notes :											
1. All doses are reported in millisievert (1mSv=100mRem).											
3. When more than one card is used dose is added.											

1. All doses are reported in millisievert (1mSv=100mRem).
3. When more than one card is used dose is added.
5. Annual effective dose in any calendar year shall not exceed 50mSv.
7. ... means in the service period dosimeter not used.
9. ... TLD cards are spoiled or contaminated.

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

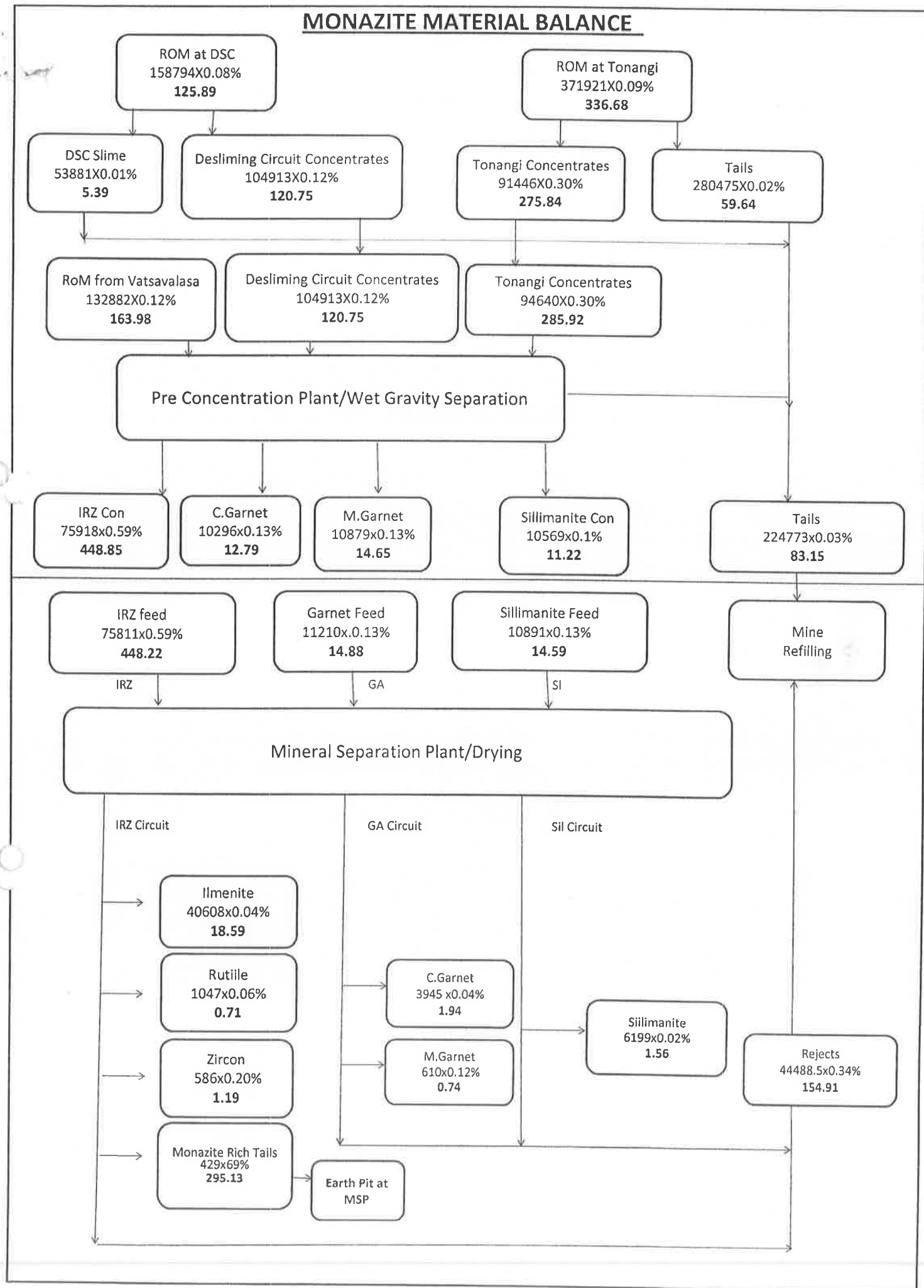
Checked By P. Rajish

Authenticated By

P. AYAPPAN

SR.Scientific Officer

# MONAZITE MATERIAL BALANCE



**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 <b>lr.no. TSPL/MIN/MoEF/ENV/15-16/921 Dated 28-11-2015</b>
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>
--	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------

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 vide <b>lr.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 vide <b>lr.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.



**TEAM**

ORIGINAL

Form-No TCL/L/GF/RF-138

**Labs and Consultants**

1133

**Registered Office :**

B-115, 116, 117 &amp; 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/4/0916

dt 10.10.2016

Description of Test: Ambient Air Quality Monitoring inside core zone

Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: As per details given below

Date of monitoring: 21.09.2016

No	Location	particulate matter PM <sub>2.5</sub> μ gms/M3	particulate matter PM <sub>10</sub> μ gms/M3	SO <sub>2</sub> μ gms/M3	NO <sub>x</sub> μ gms/M3
1	MSP- South East corner	19	34	6.2	12.2
2	MSP-North West corner	22	46	6.0	13.2
3	PCP-East gate	28	60	7.2	14.8
4	PCP-South West gate	22	51	6.4	14.7
5	Perlavanipet mines	27	59	7.0	14.2
	APPCB STANDARD	60	100	80	80

PM<sub>2.5</sub> :Particulate matter of less than 2.5 μ sizePM<sub>10</sub>; Particulate matter of less than 10 μ size

MSP-Mineral Separation Plant

For TEAM Labs and Consultants



**Labs and Consultants****1133****Registered Office :**

B-115, 116, 117 &amp; 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-N/01/0916

dt 10.10.2016

Description of Test: Ambient Air Quality Monitoring inside core zone

Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: New PCP Plant ,Tonangi

Date of monitoring: 20.09.2016

No	Location	particulate matter PM <sub>2.5</sub> μ gms/M3	particulate matter PM <sub>10</sub> μ gms/M3	SO <sub>2</sub> μ gms/M3	NO <sub>x</sub> μ gms/M3
1	DG Area	20	55	6.4	13.5
2	Security gate	31	64	6.8	14.2
	APPCB STANDARD	60	100	80	80

PM<sub>2.5</sub> : Particulate matter of less than 2.5 μ sizePM<sub>10</sub>: Particulate matter of less than 10 μ size

For TEAM Labs and Consultants



**Registered Office :**

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

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

**TEST REPORT**

Test Report No .TLC /V/Env/ TSPL/5/0916

dt 10.10.2016

Description of Test: Ambient Air Quality Monitoring -Buffer zone

Name of the client: Trimex Sands. PvtLtd.

Location of sampling: surrounding villages as per details given

Date of monitoring: 20.09.2016

No	Location	particulate matter PM <sub>2.5</sub> µ gms/M3	particulate matter PM <sub>10</sub> µ gms/M3	SO2 µ gms/M3	NOx µ gms/M3
1	Srikurmam	14	48	6.8	14.2
2	Pedda vatsavalasa	18	42	6.4	12.9
3	Komaravani peta	14	38	6.5	12.2
4	Tonangi	23	55	6.5	14.8
	APPCB STANDARD	60	100	80	80

PM<sub>2.5</sub> :Particulatematter of less than 2.5 µ sizePM<sub>10</sub> :Particulatematter of less than 10 µ size

For TEAM Labs and Consultants



**Registered Office :**

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

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

**TEST REPORT**

Test Report No .TLC /V/Env/ TSPL/4/0816

dt 16.09.2016

Description of Test:

Ambient Air Quality Monitoring inside core zone

Name of the client:

Trimex Sands Pvt. Ltd.

Location of sampling:

As per details given below

Date of monitoring:

11.08.2016

No	Location	particulate matter PM <sub>2.5</sub> μ gms/M3	particulate matter PM <sub>10</sub> μ gms/M3	SO <sub>2</sub> μ gms/M3	NO <sub>x</sub> μ gms/M3
1	MSP- South East corner	30	62	7.0	13.7
2	MSP-North West corner	22	52	6.0	13.5
3	PCP-East gate	27	69	7.1	15.8
4	PCP-South West gate	25	55	6.0	14.2
5	Perlavanipet mines	30	72	7.0	15.2
	APPCB STANDARD	60	100	80	80

PM<sub>2.5</sub> :Particulatematter of less than 2.5 μ sizePM<sub>10</sub>: Particulatematter of less than 10 μ size

MSP-Mineral Separation Plant

For TEAM Labs and Consultants



**Registered Office :**

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

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

**TEST REPORT**

Test Report No .TLC /V/Env/ TSPL-N/01/0816

dt 16.09.2016

Description of Test: Ambient Air Quality Monitoring inside core zone

Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: New PCP Plant ,Tonangi

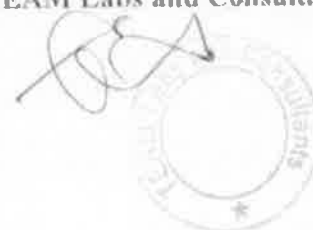
Date of monitoring: 10.08.2016

No	Location	particulate matter PM <sub>2.5</sub> µ gms/M3	particulate matter PM <sub>10</sub> µ gms/M3	SO2 µ gms/M3	NOx µ gms/M3
1	DG Area	19	52	6.0	13.2
2	Security gate	25	60	6.4	14.4
	APPCB STANDARD	60	100	80	80

PM<sub>2.5</sub> : Particulatematter of less than 2.5 µ size

PM<sub>10</sub>; Particulatematter of less than 10 µ size

For TEAM Labs and Consultants



**Registered Office :**

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

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

**TEST REPORT**

Test Report No .TLC /V/Env/ TSPL/5/0816

dt 16.09.2016

Description of Test:

Ambient Air Quality Monitoring -Buffer zone

Name of the client:

Trimex Sands. PvtLtd.

Location of sampling:

surrounding villages as per details given


Date of monitoring:

10.08.2016

No	Location	particulate matter PM <sub>2.5</sub> μ gms/M3	particulate matter PM <sub>10</sub> μ gms/M3	SO2 μ gms/M3	NOx μ gms/M3
1	Srikurmam	24	60	7.0	13.9
2	Pedda vatsavalasa	17	52	6.0	12.5
3	Komaravani peta	18	58	6.5	11.9
4	Tonangi	25	62	7.0	15.2
	APPCB STANDARD	60	100	80	80

PM<sub>2.5</sub> :Particulate matter of less than 2.5 μ sizePM<sub>10</sub> : Particulate matter of less than 10 μ size

For TEAM Labs and Consultants



**815****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/4/0716****dt 08.08.2016****Description of Test:** Ambient Air Quality Monitoring inside core zone**Name of the client:** Trimex Sands Pvt. Ltd.**Location of sampling:** As per details given below**Date of monitoring:** 19.07.2016

No	Location	particulate matter PM <sub>2.5</sub> µ gms/M3	particulate matter PM <sub>10</sub> µ gms/M3	SO <sub>2</sub> µ gms/M3	NO <sub>x</sub> µ gms/M3
1	MSP- South East corner	27	57	6.5	14.0
2	MSP-North West corner	25	55	6.0	13.3
3	PCP-East gate	32	78	7.2	17.1
4	PCP-South West gate	24	52	6.5	13.0
5	Perlavanipet mines	32	76	6.8	14.2
	APPCB STANDARD	60	100	80	80

**PM<sub>2.5</sub>** :Particulate matter of less than 2.5 µ size**PM<sub>10</sub>**: Particulate matter of less than 10 µ size**MSP**-Mineral Separation Plant**For TEAM Labs and Consultants**



**Labs and Consultants****819****Registered Office :**

B-115, 116, 117 &amp; 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-N/01/0716

dt 08.08.2016

Description of Test:

Ambient Air Quality Monitoring inside core zone

Name of the client:

Trimex Sands Pvt. Ltd.

Location of sampling:

New PCP Plant ,Tonangi

Date of monitoring:

18.07.2016

No	Location	particulate matter PM <sub>2.5</sub> µ gms/M3	particulate matter PM <sub>10</sub> µ gms/M3	SO <sub>2</sub> µ gms/M3	NO <sub>x</sub> µ gms/M3
1	DG Area	18	44	6.0	12.0
2	Security gate	27	62	6.6	14.8
	APPCB STANDARD	60	100	80	80

PM<sub>2.5</sub> : Particulate matter of less than 2.5 µ sizePM<sub>10</sub>: Particulate matter of less than 10 µ size

For TEAM Labs and Consultants



**Registered Office :**

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

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

**TEST REPORT**

Test Report No .TLC /V/Env/ TSPL/5/0716

dt 08.08.2016

Description of Test: Ambient Air Quality Monitoring -Buffer zone

Name of the client: Trimex Sands. PvtLtd.

Location of sampling: surrounding villages as per details given

Date of monitoring: 18.07.2016

No	Location	particulate matter PM <sub>2.5</sub> µ gms/M3	particulate matter PM <sub>10</sub> µ gms/M3	SO <sub>2</sub> µ gms/M3	NO <sub>x</sub> µ gms/M3
1	Srikurmam	21	57	7.2	14.7
2	Pedda vatsavalasa	18	50	6.0	12.8
3	Komaravani peta	15	42	6.0	10.8
4	Tonangi	21	55	6.5	14.4
	APPCB STANDARD	60	100	80	80

PM<sub>2.5</sub> :Particulate matter of less than 2.5 µ size

PM<sub>10</sub>; Particulate matter of less than 10 µ size

For TEAM Labs and Consultants



**Labs and Consultants**

623

**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/4/0616

dt 04.07.2016

Description of Test: Ambient Air Quality Monitoring inside core zone

Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: As per details given below

Date of monitoring: 18.06.2016

No	Location	particulate matter PM <sub>2.5</sub> µ gms/M3	particulate matter PM <sub>10</sub> µ gms/M3	SO <sub>2</sub> µ gms/M3	NO <sub>x</sub> µ gms/M3
1	MSP- South East corner	25	52	6.8	13.3
2	MSP-North West corner	22	58	6.8	14.4
3	PCP-East gate	30	70	7.7	16.3
4	PCP-South West gate	20	45	6.0	12.8
5	Perlavani pet mines	35	74	6.2	13.9
	APPCB STANDARD	60	100	80	80

PM<sub>2.5</sub> : Particulate matter of less than 2.5 µ sizePM<sub>10</sub> : Particulate matter of less than 10 µ size

MSP-Mineral Separation Plant

For TEAM Labs and Consultants



**Labs and Consultants****621****Registered Office :**

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

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

**TEST REPORT**

Test Report No .TLC /V/Env/ TSPL-N/01/0616

dt 04.07.2016

Description of Test: Ambient Air Quality Monitoring inside core zone

Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: New PCP Plant ,Tonangi

Date of monitoring: 17.06.2016

No	Location	particulate matter PM <sub>2.5</sub> µ gms/M3	particulate matter PM <sub>10</sub> µ gms/M3	SO2 µ gms/M3	NOx µ gms/M3
1	DG Area	15	38	6.0	12.5
2	Security gate	30	69	6.5	15.5
	APPCB STANDARD	60	100	80	80

PM<sub>2.5</sub> : Particulatematter of less than 2.5 µ sizePM<sub>10</sub>: Particulatematter of less than 10 µ size

For TEAM Labs and Consultants



**Labs and Consultants**

487

**Registered Office :**

B-115, 116, 117 &amp; 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/4/0516

dt 06.06.2016

Description of Test: Ambient Air Quality Monitoring inside core zone

Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: As per details given below

Date of monitoring: 09.05.2016

No	Location	particulate matter PM <sub>2.5</sub> µ gms/M3	particulate matter PM <sub>10</sub> µ gms/M3	SO <sub>2</sub> µ gms/M3	NO <sub>x</sub> µ gms/M3
1	MSP- South East corner	27	68	6.5	14.8
2	MSP-North West corner	25	62	7.0	14.2
3	PCP-East gate	35	78	7.2	15.5
4	PCP-South West gate	36	88	7.5	17.9
5	Perlavanipet mines	30	72	6.5	14.5
	APPCB STANDARD	60	100	80	80

PM<sub>2.5</sub> :Particulate matter of less than 2.5 µ sizePM<sub>10</sub>: Particulate matter of less than 10 µ size

MSP-Mineral Separation Plant

For TEAM Labs and Consultants



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

B-115, 116, 117 & 509, Annapoorna Block, Aditya Enclave, Ameerpet, Hyderabad - 530038.  
Ph. : (O) 040-23748555 / 23748618, 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-N/01/0516

dt 06.06.2016

Description of Test: Ambient Air Quality Monitoring inside core zone

Name of the client: Trimex Sands Pvt. Ltd.

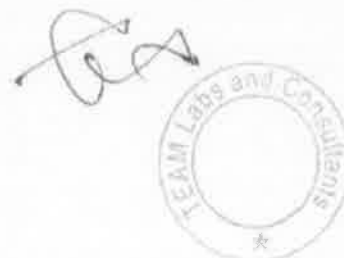
Location of sampling: New PCP Plant, Tonangi

Date of monitoring: 09.05.2016

No	Location	particulate matter PM <sub>2.5</sub> µ gms/M3	particulate matter PM <sub>10</sub> µ gms/M3	SO <sub>2</sub> µ gms/M3	NO <sub>x</sub> µ gms/M3
1	DG Area	29	64	6.6	14.1
2	Security gate	24	60	7.2	15.2
	APPCB STANDARD	60	100	80	80

PM<sub>2.5</sub> : Particulate matter of less than 2.5 µ sizePM<sub>10</sub>; Particulate matter of less than 10 µ size

For TEAM Labs and Consultants



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

B-115, 116, 117 &amp; 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/5/0516

dt 06.06.2016

Description of Test: Ambient Air Quality Monitoring -Buffer zone

Name of the client: Trimex Sands. Pvt.Ltd.

Location of sampling: surrounding villages as per details given

Date of monitoring: 08.05.2016

No	Location	particulate matter PM <sub>2.5</sub> µ gms/M3	particulate matter PM <sub>10</sub> µ gms/M3	SO <sub>2</sub> µ gms/M3	NO <sub>x</sub> µ gms/M3
1	Srikurmam	28	68	7.5	15.5
2	Pedda vatsavalasa	17	50	6.0	12.2
3	Komaravani peta	18	57	6.2	11.5
4	Tonangi	22	64	6.5	13.8
	APPCB STANDARD	60	100	80	80

PM<sub>2.5</sub> : Particulate matter of less than 2.5 µ sizePM<sub>10</sub> : Particulate matter of less than 10 µ size

For TEAM Labs and Consultants



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

B-115, 116, 117 & 509, Annapoorna Block, Aditya Enclave, Ameerpet, Hyderabad - 530038.  
Ph. : (O) 040-23748555 / 23748616, Fax : 040-23748886, 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/2/0416

dt 02.05.2016

Description of Test: Ambient Air Quality Monitoring inside core zone

Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: As per details given below

Date of monitoring: 11.04.2016

No	Location	particulate matter PM <sub>2.5</sub> µ gms/M3	particulate matter PM <sub>10</sub> µ gms/M3	SO <sub>2</sub> µ gms/M3	NO <sub>x</sub> µ gms/M3
1	MSP- South East corner	33	78	7.5	16.2
2	MSP-North West corner	22	58	6.0	12.8
3	PCP-East gate	30	65	6.6	14.4
4	PCP-South West gate	35	82	7.7	18.8
5	Perlavanipet mines	34	77	6.6	12.2
	APPCB STANDARD	60	100	80	80

PM<sub>2.5</sub> :Particulate matter of less than 2.5 µ sizePM<sub>10</sub>: Particulate matter of less than 10 µ size

MSP-Mineral Separation Plant

For TEAM Labs and Consultants





**Labs and Consultants**

450

**Registered Office :**

B-115, 116, 117 &amp; 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-N/01/0416

dt 02.05.2016

Description of Test: Ambient Air Quality Monitoring inside core zone

Name of the client: Trimex Sands Pvt. Ltd.

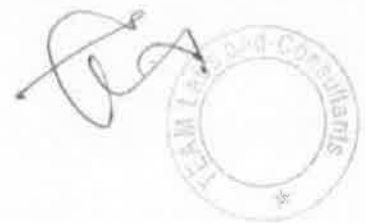
Location of sampling: New PCP Plant ,Tonangi

Date of monitoring: 11.04.2016

No	Location	particulate matter PM <sub>2.5</sub> µ gms/M3	particulate matter PM <sub>10</sub> µ gms/M3	SO <sub>2</sub> µ gms/M3	NO <sub>x</sub> µ gms/M3
1	DG Area	32	65	7.9	16.6
2	Security gate	25	57	6.6	13.5
	APPCB STANDARD	60	100	80	80

PM<sub>2.5</sub> : Particulate matter of less than 2.5 µ sizePM<sub>10</sub> : Particulate matter of less than 10 µ size

For TEAM Labs and Consultants



**Labs and Consultants**

452

**Registered Office :**

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

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

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

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

**TEST REPORT**

Test Report No. TLC /V/Env/ TSPL/3/0416

dt 02.05.2016

Description of Test: Ambient Air Quality Monitoring - Buffer zone

Name of the client: Trimex Sands. Pvt Ltd.

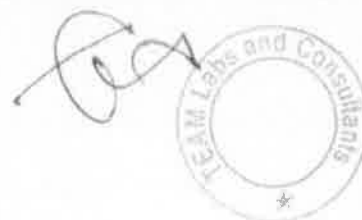
Location of sampling: surrounding villages as per details given

Date of monitoring: 12.04.2016

No	Location	particulate matter PM <sub>2.5</sub> µ gms/M3	particulate matter PM <sub>10</sub> µ gms/M3	SO <sub>2</sub> µ gms/M3	NO <sub>x</sub> µ gms/M3
1	Srikurmam	24	66	6.8	13.5
2	Pedda vatsavalasa	18	48	6.0	11.9
3	Komaravani peta	20	54	6.2	12.8
4	Tonangi	25	60	6.8	14.1
	APPCB STANDARD	60	100	80	80

PM<sub>2.5</sub> : Particulate matter of less than 2.5 µ sizePM<sub>10</sub> : Particulate matter of less than 10 µ size

For TEAM Labs and Consultants





Annexure - 11

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-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 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 - 600 018, 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

ORIGINAL

**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/01/0416

DT 02.05.2016

Description of Test: Phisico-chemical Analysis of Water  
 Name of the client: Trimex Sands Pvt. Ltd.  
 Location of sampling: Vatchavalasa pond  
 Date of Sample Collected : 11.04.2016

No	parameter	Result Pond at Vatchavalasa/
1	pH	7.90
2	Colour Hazen units	5
3	Odour	un objectionable
4	Total Dissolved solids	530
5	Total Suspended Solids	5
6	Turbidity	2.8
7	Total Hardness as CaCo3	280mg/l
8	Calcium as CaCo3	210 mg/l
9	Magnesium as CaCo3	70mg/l
10	Chlorides Cl-	42mg/l
11	Flouride	0.5 mg/l
12	Sulphates	98mg/l
13	Nitrates	0.8mg/l
14	Phosphates	BDL
15	Iron	0.07mg/l
16	Lead	BDL

For TEAM Labs and Consultants

**Registered Office :**

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

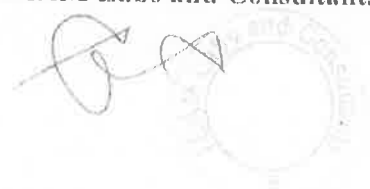
ISO 9001 : 2008, ISO 14001 : 2004 and OHSAS 18001 : 2007 Certified Organization  
Laboratory Recognised by Ministry Environment, Forests and Climate Change, Govt, New Delhi

**TEST REPORT**

Test Report No. TLC/V/Env/TSPL/9A/0716 dt08.08.2016  
Description of Test: Phisico-chemical Analysis of Water  
Name of the client: Trimex Sands Pvt. Ltd.  
Location of sampling: Vatchavalasa Pond  
Date of Sample Collected : 19.07.2016

No	parameter	Pond at Vatchavalasa
1	pH	7.8
2	Colour Hazen units	5
3	Odour	un objectionable
4	Total Dissolved solids	525
5	Total Suspended Solids	5
6	Turbidity	1.8NTU
7	Total Hardness as CaCo3	95mgpl
8	Calcium as CaCo3	60 mgpl
9	Magnesium as CaCo3	35mgpl
10	Chlorides Cl-	70mgpl
11	Flouride	0.5 mgpl
12	Sulphates	30mgpl
13	Nitrates	0.5mgpl
14	Phosphates	BDL
15	Iron	0.04mgpl
16	Lead	BDL
	Water table from groundlevel inmtrs	-

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

	<b>Chintavalasa (v)</b>  She expressed her happiness and stated that the management is providing health facilities and treating ailments to the local villagers. She stated that, the management has provided medical facilities to 30 people of her village and also developing the schools in the area as a part of CSR activities.	Dr. N. L. Rao, Head (Liaison), M/s Trimex Sands Pvt. Ltd expressed his thankfulness and promised to continue with the same commitment in future also.	Crores every year towards CSR activities.  <b>Timeframe:</b> Every year	
4	<b>Sri RanaSrinivas, MPTC, Chintavalasa (v)</b>  He welcomed the project and stated that the management has provided employment, laying of roads and other facilities in the surrounding villages.	Dr. N. L. Rao, Head (Liaison), M/s Trimex Sands Pvt. Ltd expressed his thankfulness and promised to continue with the same commitment in future also.	<b>Action Plan</b> The management has assured that the development of road and other infrastructure facilities will also be taken up in their proposed CSR activities	Complied
5	<b>Sri TelukutiManohar, Pedavatsavalasa (v)</b>  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	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 the impact on the environment will be maintained at minimum by taking all possible care and mitigation measures.  <b>Budget:</b> MinimumRs.2.0 Crores every year towards CSR activities.	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.</p> <p><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. <b>Budget:</b> MinimumRs.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, Mugadlpadu (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. 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</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.</p> <p>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.

	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.	will take all the precautionary measures for pollution problems and will develop their area as a part of CSR activity.	annual recurring cost towards pollution control measures/ monitoring, occupational health & safety, reclamation, green belt development etc would be Rs1064 lakhs and Rs1616 lakhs respectively.	
20	<b>Smt. Rangaraju Vani, Srikurmam (v)</b>  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.	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.	The management has assured that need based CSR activities will be continued by spending about Rs.2.0 Crores/year.	Complied.
21	<b>Sri Neeranjalu</b>  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	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	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,	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.



	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.	measures for pollution problems and will develop their area as a part of CSR activity.	measures/ monitoring, occupational health & safety, reclamation, green belt development etc would be Rs1064 lakhs and Rs1616 lakhs respectively.	
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>	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.	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.

	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	<p><b>SmtLaxmiNarasimha Devi, Ex-MPTC, Tonangi (v)</b></p> <p>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.</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.
32	<p><b>Sri Guntu Laxmayya</b></p> <p>He expressed his grievance and stated that there would be pollution problems with the industry even though everybody is talking that there is no pollution from the industry. He opined that, the fishermen community would be affected due to operation of the sand mining activities. He stated that, the management has not provided single employment to their village. He requested to provide employment to the coast line village people.</p>	<p>Dr. N. L. Rao, Head (Liaison), M/s Trimex Sands Pvt. Ltd stated that the management will take all possible precautionary measures for pollution problems and will develop their area as a part of CSR activity.</p>	<p>The management has assured that need based CSR activities will be continued by spending about Rs.2.0 Crores/year. 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.
33	<p><b>Sri Gondu Krishna Murthy, Chairman, District Co-operative Consumer Market</b></p>	<p>Dr. N. L. Rao, Head (Liaison), M/s Trimex Sands Pvt. Ltd expressed his thankfulness and stated</p>	<p>Need based CSR activities will be continued by spending about Rs.2.0 Crores/year.</p>	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>		
--	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------	--	--



CSR Expenditure from Aril-2016 to September-2016		
S.NO.	Nature of Activity	Amount Spent Rs. (in Lakhs)
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
Grand Total :		42.72





## Plantation Details

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

## Afforestation in Back filled areas





Summary of production details in from Apr to Sep-2016 (units in MT)							
ROM	Ilmenite	Garnet	Sillimanite	Rutile	Zircon	Total Mineral Qty	Rejects/Waste
1831082	106943	11490	16244	2800	1606	139083	1564978

**TEAM**ORIGINAL

Form-No. TCL/L/GF/RF-138

**Labs and Consultants****1144****Registered Office :**

B-115, 116, 117 &amp; 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-N/02/0916

dt 10.10.2016

Description of Test: Ambient Noise level Monitoring -Core zone

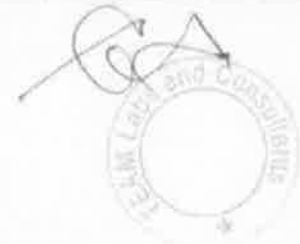
Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: New PCP Plant ,Tonangi

Date of monitoring: 20.09.2016

Time Hrs	Security gate	DG Area
Noise levels indB(A)		
11.00	58.1	70.9
12.00	56.5	62.4
13.00	57.4	66.8
14.00	54.8	57.1
15.00	51.6	54.9
16.00	57.9	56.6
17.00	58.1	59.1
18.00	52.6	58.5

For TEAM Labs and Consultants



**Registered Office :**

B-115, 116, 117 &amp; 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/7/0916

dt 10.10.2016

Description of Test: Ambient Noise level Monitoring –Core zone

Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: As per details given

Date of monitoring: 21.09.2016

Time Hrs	MSP- South East corner	MSP-North West corner	PCP-East gate	PCP-South West gate
Noise levels indB(A)				
09.00	56.1	54.9	59.8	48.9
10.00	53.8	51.7	58.3	49.3
11.00	51.6	49.8	60.1	50.2
12.00	58.3	48.1	57.1	49.0
13.00	59.3	57.6	53.6	52.7
14.00	53.9	54.8	54.1	48.4
15.00	50.4	543.1	57.8	47.1
16.00	49.36	50.6	56.3	43.5

For TEAM Labs and Consultants



**Labs and Consultants****1142****Registered Office :**

B-115, 116, 117 &amp; 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/6/0916

dt 10.10.2016

Description of Test:

Ambient Noise level Monitoring -Buffer zone

Name of the client:

Trimex Sands. PvtLtd.

Location of sampling:

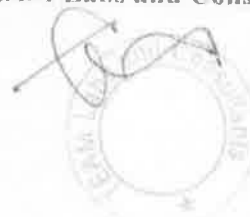
As per details given

Date of monitoring:

20.09.2016

Time Hrs	Pedda vatsavalasa	Srikurmam	Komaravani peta	Chinna Tonangi
Noise levels indB(A)				
11.00	48.4	54.8	48.3	49.1
12.00	47.9	51.6	46.1	48.5
13.00	61.9	49.6	44.8	46.6
14.00	54.6	47.4	49.1	45.2
15.00	50.4	48.1	50.6	49.8
16.00	45.4	19.8	58.3	47.8
17.00	43.2	53.1	47.4	43.4
18.00	48.5	50.8	46.1	45.8

For TEAM Labs and Consultants



**Labs and Consultants****1009****Registered Office :**

B-115, 116, 117 &amp; 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-N/02/0816

dt 16.09.2016

Description of Test: Ambient Noise level Monitoring -Core zone

Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: New PCP Plant ,Tonangi

Date of monitoring: 10.08.2016

Time Hrs	Security gate	DG Area
Noise levels indB(A)		
12.00	55.0	52.5

For TEAM Labs and Consultants



**Registered Office :**

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

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

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

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

**TEST REPORT**

Test Report No .TLC /V/Env/ TSPL/7/0816

dt 16.09.2016

Description of Test: Ambient Noise level Monitoring -Core zone

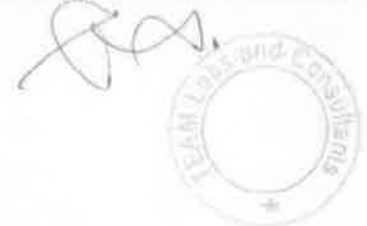
Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: As per details given

Date of monitoring: 11.08.2016

Time Hrs	MSP- South East corner	MSP-North West corner	PCP-East gate	PCP-South West gate
Noise levels indB(A)				
11.00	56.0	54.2	65.6	52.0

For TEAM Labs and Consultants





**Labs and Consultants****1007****Registered Office :**

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

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

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

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

**TEST REPORT**

Test Report No .TLC /V/Env/ TSPL/6/0816

dt 16.09.2016

Description of Test: Ambient Noise level Monitoring -Buffer zone

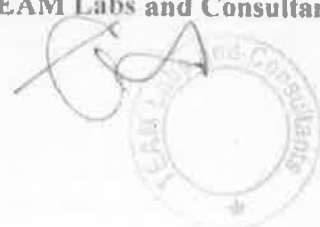
Name of the client: Trimex Sands. PvtLtd.

Location of sampling: As per details given

Date of monitoring: 10.08.2016

Time Hrs	Pedda vatsavalasa	Srikurmam	Komaravani peta	Chinna Tonangi
Noise levels indB(A)				
11.00	48.0	56.2	47.7	52.2

For TEAM Labs and Consultants



**Labs and Consultants****824****Registered Office :**

B-115, 116, 117 &amp; 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-N/02/0716

dt 08.08.2016

Description of Test: Ambient Noise level Monitoring -Core zone

Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: New PCP Plant ,Tonangi

Date of monitoring: 18.07.2016

Time Hrs	Security gate	DG Area
	Noise levels indB(A)	
12.00	54.0	53.8

For TEAM Labs and Consultants



**Labs and Consultants****823****Registered Office :**

B-115, 116, 117 &amp; 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/7/0716

dt 08.08.2016

Description of Test: Ambient Noise level Monitoring -Core zone

Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: As per details given

Date of monitoring: 19.07.2016

Time Hrs	MSP- South East corner	MSP-North West corner	PCP-East gate	PCP-South West gate
Noise levels indB(A)				
11.00	55.6	52.0	67.4	51.5

For TEAM Labs and Consultants



**Registered Office :**

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

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

**TEST REPORT****Test Report No .TLC /V/Env/ TSPL/6/0716****dt 08.08.2016**

**Description of Test:** Ambient Noise level Monitoring -Buffer zone  
**Name of the client:** Trimex Sands. PvtLtd.  
**Location of sampling:** As per details given  
**Date of monitoring:** 18.07.2016

Time Hrs	Pedda vatsavalasa	Srikurmam	Komaravani peta	Chinna Tonangi
	Noise levels indB(A)			
11.00	47.2	55.4	48.0	53.0

**For TEAM Labs and Consultants**

**Registered Office :**

B-115, 116, 117 &amp; 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-N/02/0616

dt 04.07.2016

Description of Test: Ambient Noise level Monitoring -Core zone

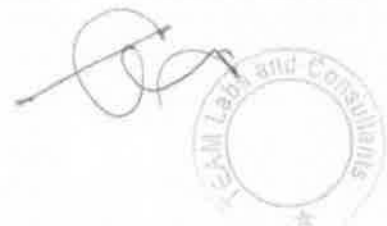
Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: New PCP Plant ,Tonangi

Date of monitoring: 17.06.2016

Time Hrs	Security gate	DG Area
Noise levels indB(A)		
09.00	50.9	51.6
10.00	51.2	51.9
11.00	49.3	50.5
12.00	52.8	56.1
13.00	51.6	52.4
14.00	53.4	50.8
15.00	48.5	52.1
16.00	46.3	48.1

For TEAM Labs and Consultants



**Labs and Consultants****Registered Office :****625**

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

Ph. : (O) 040-23748555 / 23748616, Fax : 040-23748686, 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/7/0616

dt 04.07.2016

Description of Test: Ambient Noise level Monitoring -Core zone

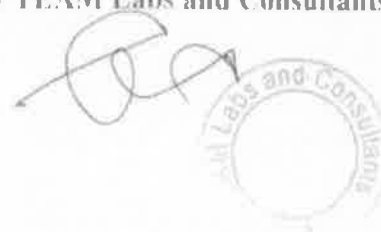
Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: As per details given

Date of monitoring: 18.06.2016

Time Hrs	MSP- South East corner	MSP-North West corner	PCP-East gate	PCP-South West gate
Noise levels indB(A)				
09.00	53.4	51.7	66.6	52.1
10.00	52.6	52.2	66.8	52.6
11.00	56.2	51.9	69.2	50.9
12.00	64.5	50.8	65.8	52.7
13.00	59.1	51.6	67.1	53.4
14.00	51.6	50.0	63.5	49.8
15.00	48.9	52.1	63.8	51.7
16.00	49.0	50.5	64.5	52.4

For TEAM Labs and Consultants



**Labs and Consultants****624****Registered Office :**

B-115, 116, 117 &amp; 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/6/0616

dt 04.07.2016

Description of Test: Ambient Noise level Monitoring - Buffer zone

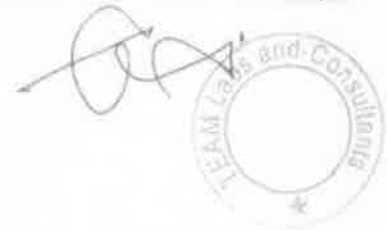
Name of the client: Trimex Sands. Pvt Ltd.

Location of sampling: As per details given

Date of monitoring: 17.06.2016

Time Hrs	Pedda vatsavalasa	Srikurmam	Komaravani peta	Chinna Tonangi
Noise levels in dB(A)				
09.00	47.1	56.5	46.8	50.4
10.00	49.6	58.2	44.5	49.5
11.00	46.8	54.8	46.1	51.6
12.00	43.7	59.1	45.9	48.5
13.00	50.8	60.5	43.4	48.1
14.00	49.7	58.6	49.4	48.9
15.00	51.2	52.4	47.2	46.5
16.00	46.2	51.4	48.6	43.1

For TEAM Labs and Consultants



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

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

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

**TEST REPORT****Test Report No .TLC /V/Env/ TSPL-N/02/0516****dt 06.06.2016****Description of Test: Ambient Noise level Monitoring –Core zone****Name of the client: Trimex Sands Pvt. Ltd.****Location of sampling: New PCP Plant ,Tonangi****Date of monitoring: 09.05.2016**

Time Hrs	Security gate	DG Area
	Noise levels indB(A)	
11.00	53.0	49.5

**For TEAM Labs and Consultants**



**Labs and Consultants**

492

**Registered Office :**

B-115, 116, 117 &amp; 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/7/0516

dt 06.06.2016

Description of Test: Ambient Noise level Monitoring –Core zone

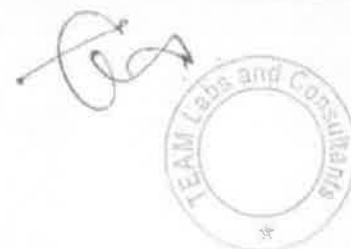
Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: As per details given

Date of monitoring: 09.05.2016

Time Hrs	MSP- South East corner	MSP-North West corner	PCP-East gate	PCP-South West gate
	Noise levels indB(A)			
10.00	62.0	59.8	57.8	61.8

For TEAM Labs and Consultants



**Labs and Consultants****491****Registered Office :**

B-115, 116, 117 &amp; 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/6/0516

dt 06.06.2016

Description of Test: Ambient Noise level Monitoring -Buffer zone

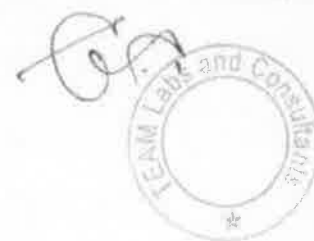
Name of the client: Trimex Sands. PvtLtd.

Location of sampling: As per details given

Date of monitoring: 08.05.2016

Time Hrs	Pedda vatsavalasa	Srikurmam	Komaravani peta	Chinna Tonangi
Noise levels indB(A)				
11.00	54.2	51.5	51.2	51.8

For TEAM Labs and Consultants



**Labs and Consultants**

455

**Registered Office :**

B-115, 116, 117 &amp; 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-N/02/0416

dt 02.05.2016

Description of Test: Ambient Noise level Monitoring -Core zone

Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: New PCP Plant ,Tonangi

Date of monitoring: 11.04.2016

Time Hrs	Security gate	DG Area
	Noise levels indB(A)	
11.00	51.9	48.0

For TEAM Labs and Consultants



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

454

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/5/0416

dt 02.05.2016

Description of Test: Ambient Noise level Monitoring -Core zone

Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: As per details given

Date of monitoring: 11.04.2016

Time Hrs	MSP- South East corner	MSP-North West corner	PCP-East gate	PCP-South West gate
	Noise levels indB(A)			
10.00	60.5	58.5	54.2	62.2

For TEAM Labs and Consultants



**Labs and Consultants**

453

**Registered Office :**

B-115, 116, 117 & 509, Annapoorna Block, Aditya Enclave, Ameerpet, Hyderabad - 530038.  
Ph. : (O) 040-23748555 / 23748816, Fax : 040-23748866, 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/4/0416

dt 02.05.2016

Description of Test: Ambient Noise level Monitoring –Buffer zone

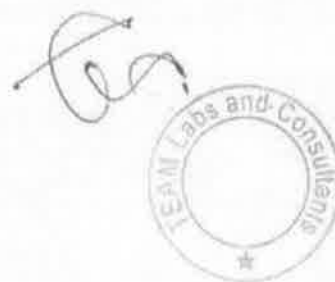
Name of the client: Trimex Sands. PvtLtd.

Location of sampling: As per details given

Date of monitoring: 12.04.2016

Time Hrs	Pedda vatsavalasa	Srikurmam	Komaravani peta	Chinna Tonangi
Noise levels indB(A)				
11.00	55.2	52.0	50.7	50.2

For TEAM Labs and Consultants





<b>PPE's issues Report</b>		
<b>S.NO.</b>	<b>Material Description</b>	<b>Apr-16 to Sep-16</b>
1	Safety Shoes	235 Pairs
2	Safety Helmets	53 Nos.
3	Safety Belt	0
4	Nose Mask	910 Nos.
5	Respiratory Nose Mask	1755 Nos.
6	Ear plug s	8 Nos.
7	Safety Eye Goggles	75 Nos.
8	Caution Tape	11 Nos.
9	Asbestos Hand gloves	116 Pairs
10	Leather Hand gloves	10 Pairs
11	Life Buoy Ring Housing	0
12	Life Jacket	0
13	Knitted Hand Gloves	131 Pairs



### **Expenditure for Environmental measures**

<b>Recurring Expenditures</b>		
<b>S.No</b>	<b>Description</b>	<b>During the Period Apr to Sep, 2016 (in Rs.)</b>
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
<b>Capital Expenditures</b>		
1	Thickener	0
2	Slime management cost in mines	0
3	Water recovery plant	0
	<b>Total</b>	<b>5,26,57,000</b>