



TSPL/ENV/PCB/2017-18/1087

Srikakulam
30.07.2017

To
The Environmental Engineer
AP Pollution Control Board
Paryavaran Bhavan, A3, Industrial Estate
Sanathnagar
Hyderabad – 38

Dear Sir,

Sub: CFO Half yearly Compliance report - Reg.

Please find herewith attached half yearly compliance report for the period of **Oct'16 – Mar'17** in respect of CFO granted vide order no: **APPCB/VSP/VZM/152/HO/2015**, dated **30-10-2015**.

Thanking You,

Yours Faithfully,


Mines Manager

Cc :

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

Trimex Sands Pvt Ltd: Vatchavalasa (V), Gara Mandal, Srikakulam District - 532 404, Andhra Pradesh, India.
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CIN : U14299TN2004PTC071437



CFO Compliance Report

Consent Order No: APPCB/VSP/VZM/152/HO/CFO/2015, dated 30-10-2015

Schedule-A

Sl.No	Conditions	Compliance
1	The applicant shall make applications through Online for renewal of Consent(under Water and Air Acts) and Authorization under HWM rules at least 120 days before the date of expiry of this order, along with prescribed fee under Water and Air Acts for obtaining Consent & HW authorization of the Board and detailed compliance of CFO conditions.	Will be complied.
2	Any person aggrieved by an order made by the State Board under section 25, Section 26, Section 27 of water Act, 1974 or Section 21 of Air Act, 1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as per Andhra Pradesh Water Rules, 1976 and Air Rules 1982, to such authority (hereinafter referred to as the Appellate Authority) constituted under Section 28 of the Water (Prevention and Control of Pollution) Act, 1974 and section 31 of the Air(Prevention and Control of Pollution) Act, 1981	-----
3	The facility shall immediately submit the revised application for consent to this Board in the event of any change in activity, quantity of trade effluents & quantity of emissions etc.	Will be complied
4	The applicant shall not change or alter either the quality or the quantity or the rate of the discharge or the route of discharge and shall not change or alter either the prescribed quality or the rate of emission without the previous written permission of the Board.	Complied
5	The applicant shall, not later than 30 days from the date of issue of this consent order, certify in writing to the Board that the applicant has installed or provided for an alternative electric power source sufficient to operate all facilities installed by the applicant, to comply with the terms and conditions of this consent. In absence of alternative electric power source sufficient to operate all facilities installed by the applicant, to comply with the terms and conditions of this consent, production shall be stopped.	Complied.
6	Any up-set condition in any plant/plants of the facility, which result in, increased effluent discharge and /or violation of standards stipulated in this order or the emission of any Air Pollutant into the environment in excess of the stands laid down by the Board, occurs or is apprehended to occur due to accident, or other unforeseen act or event, the person in-charge of the premises, from where such discharge/emission occurs or is apprehended to occur shall forthwith intimate the fact of such occurrence or the apprehension of such occurrence to this Board, by fax/email under intimation to the Collector and District	Will be complied

	Magistrate.	
7	In case of such episodal discharges/emissions mentioned in item 4 above, the facility shall take immediate action to bring down the discharge/emission below the limits prescribed in this order.	Will be complied.
8	A good housekeeping shall be maintained both within the facility and in the premises. All hoods, pipes, valves, sewers and drains shall be leak proof. Floor washings shall be admitted in to the effluent collection system only and shall not be allowed to find their way into storm drains or open areas.	Good housekeeping being maintained. Any spillages of water, which is used as a medium for mineral concentration, and sand from the plant are collected and put back into the respective Plant stream for reuse.
9	<p>a) The facility shall carryout analysis of waste water discharges or emissions through chimneys, for the parameters mentioned in Schedule – B of this order at regular intervals.</p> <p>b) The facility shall maintain following records to accessible to the Board, whenever required.</p> <ol style="list-style-type: none"> 1. Analysis reports of waste water/emissions. 2. Log book for operation of pollution control systems. 3. inspection book 	<p>Analysis of waste water discharge and emission through chimneys are being carried out through MoEF/PCB approved laboratory and as per EC/CFO conditions and reports are submitted regularly, enclosed as Annexure - 1</p> <p>All records are being maintained.</p>
10	Separate power connection with energy meter shall be provided for the Pollution Control Equipment and record of power consumption and chemical consumption for the operation of the pollution control equipment shall he maintained separately.	Being complied. The separate power connection with energy meter is provided for the Pollution Control Equipment and record is maintaining separately.
11	The applicant shall comply with the directives/orders issued by the Board in this order and at all subsequent times without any negligence on his part. The applicant shall be liable for such legal action against him as per provisions of the Law/Act in case if non-compliance of any order/directive issued at any time and/or violation of the terms and conditions of this consent order.	Noted
12	The applicant shall furnish to the visiting officer and / or the Board any information regarding the construction, installation or operation of the effluent treatment system/air pollution control equipment/secured storage area of Hazardous Waste and such other particulars as may be pertinent for preventing and controlling pollution.	Will be complied
13	The facility is liable to pay compensation for any environmental damage caused by it, as fixed by the Collector and District Magistrate as Civil liability.	Agreed.
14	All the rules & regulations notified by Ministry of Environment and Forests, Government of India in respect of management, handling transportation and storage of hazardous chemicals and wastes shall be followed.	Being followed.

15	All the rules & regulations notified by Ministry of Law justice, Government of India regarding Public Liability Insurance Act, 1991 shall be followed.	Noted
16	The occupier shall educate the workers and nearby public of possible accidents and remedial measures.	Being complied.
17	For any accident or spillage of hazardous wastes causing damage to the Environment, the occupier or the transporter as the case shall be held responsible.	Agreed
18	In case of closure of facility, the un-used/not consumed raw materials falling under the category of Hazardous Chemicals and mentioned in Manufacture, Storage and import of Hazardous Chemicals Rules, 1989 and Amendment Rules, 2003 shall be removed and sold to other units within 90 days from the date of closure to prevent any possibility of occurrence of an accident. In case the above hazardous chemicals have lost their properties originally acquired, then they shall be treated, as Hazardous Waste and they shall be disposed of only to the agencies authorized by APPCB in a safe manner.	Will be complied
19	The occupier shall prepare/update Emergency preparedness plan for safe handling of hazardous waste from time to time and submit the same to APPCB. Emergency preparedness plan must be implemented immediately whenever there is fire, explosion or release of hazardous waste or hazardous waste constituents, which could endanger to human health or environment.	Complied. Copy attached as Annexure -2.
20	Packing, labelling and transportation of Hazardous Wastes shall be in accordance with the provisions of the rules issued by the Central Govt. under the Motor Vehicles Act, 1988 another guidelines issued from time to time. The packaging and labelling shall be based on the composition and hazardous constituent of the waste, however all Hazardous Waste containers shall be provided with a general label.	Being complied.
21	The driver who transports Hazardous Waste shall be well acquainted about the procedure to be followed in case of an emergency during transit. The transporter shall carry a Transport Emergency (TREM) Card (as given in the guidelines for management and handling of hazardous wastes) duly filled by the Hazardous Waste generator.	Being complied
22	No Hazardous Wastes shall be mixed with any other wastes or shall be discharge to common, other internal, external sewage or other drainage system without prior approval of APPCB.	Complied.
23	If HDPE bags are used for storing Hazardous Wastes, it shall be ensured that they are perfectly sealed mechanically or double hot sealed. If MS/HDPE bags or drums are used for storing Hazardous Wastes, these drums/bags shall be ensured that they are perfectly sealed.	Being complied.
24	The person authorized shall not rent, lend, sell, and transfer their	Will be ensured.

	industrial premises without obtaining prior permission of the State Pollution Control Board.	
25	Any authorization change in personnel, equipment as working condition as mentioned in the application by the person authorized shall constitute a breach of his authorization.	-----
26	The facility shall comply with the provisions of Batteries (Management & Handling) Rules,2001	Being complied.
27	The facility shall put up two sign boards (6x4ft.each) at publicity visible places at the main gate. The first sign board shall provide information on specific conditions of CFO and Hazardous Waste Authorisation. The second sign board shall display online data on quantity and nature of hazardous chemicals being used in the plant, as well as water, air emissions and solid waste generated within the factory premises.	Specific conditions of the CFO and hazardous waste authorisation are displayed. No hazardous chemicals are being used in the plant. Only hazardous waste generated is used lubricant oil. Data on quantity/nature of hazardous waste, water and air emissions etc. are displayed.
28	The applicant shall exhibit the Consent & HW Authorisation order of the Board in the factory premises at a prominent place for the information of the inspecting officers of differ departments.	Complied.
29	Notwithstanding anything contained in this conditional letter or consent, the Board hereby reserves the right and powers under Section 27(2) of the Water (Prevention & Control of Pollution) Act, 1974 and its amendments thereof and under Section 21 of the Air(Prevention & Control of Pollution) Act 1981 and its amendments thereof to review any and/or all the conditions imposed herein above and to make such variations as deemed fit for the purpose of the Acts by the Board.	Noted.
30	The Authorization issued under Hazardous Waste (Management, Handling & transboundary Movement) Rules, 2008 and its amendments thereof, shall comply with the provision of the Environment (Protection) Act, 1986.	Complied.

schedule – B

S.No	Special conditions	Compliance																																				
1	The industry shall handover the original Consent order No. APPCB/VSP/VZM/152/HO/CFO/2015-460, DATED 21.04.2015, having validity upto 31.05.2015, to the RO, Vizianagaram after receipt of this order. The same stands cancelled from the date of receipt of this order.	Complied																																				
2	<p>The water consumption quantities of the facility are mentioned below:</p> <table border="1"> <thead> <tr> <th>S.No</th> <th>Purpose</th> <th>Sand Mine</th> <th>Qty(Wet Plant at Vatsavalasa</th> <th>Qty(Mineral Separation Plant)</th> <th>Wet plant at Tonangi</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Process(Makeup)</td> <td>---</td> <td>11619KLD</td> <td>275KLD</td> <td>3000KLD</td> </tr> <tr> <td>2.</td> <td>Spraying in Stock yard & wetting the Roads</td> <td>20.0</td> <td>10 KLD</td> <td>10 KLD</td> <td>10 KLD</td> </tr> <tr> <td>3.</td> <td>Gardening/irrigation</td> <td>---</td> <td>5 KLD</td> <td>15 KLD</td> <td>5 KLD</td> </tr> <tr> <td>4.</td> <td>Domestic Canteen</td> <td>6.0KLD</td> <td>6 KLD</td> <td>20 KLD</td> <td>4 KLD</td> </tr> <tr> <td></td> <td>Total</td> <td>26.0KLD</td> <td>11640 KLD</td> <td>320 KLD</td> <td>3019 KLD</td> </tr> </tbody> </table> <p>The industry shall maintain separate meters with necessary pipe-line for assessing the quantity of water used for each purpose at each Plant and maintain records.</p>	S.No	Purpose	Sand Mine	Qty(Wet Plant at Vatsavalasa	Qty(Mineral Separation Plant)	Wet plant at Tonangi	1.	Process(Makeup)	---	11619KLD	275KLD	3000KLD	2.	Spraying in Stock yard & wetting the Roads	20.0	10 KLD	10 KLD	10 KLD	3.	Gardening/irrigation	---	5 KLD	15 KLD	5 KLD	4.	Domestic Canteen	6.0KLD	6 KLD	20 KLD	4 KLD		Total	26.0KLD	11640 KLD	320 KLD	3019 KLD	This is being ensured and at no point water consumption has exceeded the permitted quantity. Separate water meters are provided for each plant and records are maintained.
S.No	Purpose	Sand Mine	Qty(Wet Plant at Vatsavalasa	Qty(Mineral Separation Plant)	Wet plant at Tonangi																																	
1.	Process(Makeup)	---	11619KLD	275KLD	3000KLD																																	
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	Total	26.0KLD	11640 KLD	320 KLD	3019 KLD																																	
3	The industry shall file the water cess returns in Form-1 as required under section(5) of water (Prevention and Control of Pollution) Cess Act, 1977 on or before the 5 th of every calendar month, showing the quantity of water consumed in the previous month along with water meter readings. The industry shall remit shall remit water cess as per the assessment orders as and when issued by Board.	Water cess return in Form-1 is being filed on monthly basis. Water cess is paid as per assessment received, except in respect of differences in the quantity and category for which appeal is filed for reassessment and is pending.																																				
4	The industry shall comply with emission limits for DG sets of capacity up to 800KW as per the Notification G.S.R.520(E) dated 01.07.2003 under the Environment(Protection) Amendment Rules, 2003 and G.S.R.448(E), date 12.07.2004 under the Environment(Protection) Second Amendment Rules, 2004. In case of DG sets of capacity more than 800 KW shall comply with emission limits as per the Notification G.S.R.489 (E), Dated 09.07.2002 at serial no,96, under the environment(Protection) Act, 1986.	As per the DG sets Stack Emission analysis conducted for the period of Oct'16 – Mar'17 by PCB authorized agency, the emissions are under the permissible limit, Reports enclosed as Annexure – 3.																																				
5	The industry shall comply with ambient air quality stands of PM ₁₀ (Particulate Matter size less than 10µm) - 100µ/m ³ ; PM _{2.5} of (Particulate matter size less than 2.5 µm) - 60µg/m ³ , SO ₂ - 80 µg/m ³ , NO _x - 80 µg/m ³ , outside the factory premises at the periphery of the industry. Standard for other parameters as mentioned in the National Ambient Air Quality Standards of CPCB Notification No.B-29016/20/90/PC1-1,dated 18.11.2009 shall be complied. Following standards prescribed for noise shall be complied. Noise Levels: Day time (6AM to 10PM) – 75dB(A) Night time (10PM to 6 AM) – 70dB(A)	Being complied. AAQM & Noise Reports enclosed as Annexure - 4.																																				
6	The industry shall not manufacture any product/activity, other than those mentioned in this order.	Complied. The company will not manufacture other than any product/activity which																																				

		are mentioned in the order. Annexure-5.
7	The industry shall submit the time bound action plan for backfilling of 6000Tones of waste sand available at Vatsavalsa dry plant in the mined out areas.	Entire waste material is transported and used for backfilling the mined out pit. Further, generation of waste and transporting it for backfilling is a continuous process.
8	The industry shall provide separate water meters with necessary pipeline Plant wise for assessing the quantity of water used for each of the purposes mentioned below. a. Industrial cooling. Boiler feed. b. Domestic purposes. c. Processing, whereby water gets polluted and pollutants are easily biodegradable. d. Processing, whereby water gets polluted and pollutants are not easily biodegradable.	Provided separate water meters for assessing the water quantity.
9	The industry shall maintain the following records and the same shall be made available to the Board Official during the inspection. a) Daily production details, RG-1 records and Central Excise Returns. b) Quantity of Effluents generated, recycled and disposed. c) Log books for pollution control systems. d) Daily solid waste generated and disposed.	a) Records are being maintained. b) Records are being maintained. c) Pollution control system log book is being maintained. d) Records on the quantity of solid waste daily generated and disposed are maintained.
10	Thick green belt shall be developed & maintained plant wise with tall growing trees in at least 33% of total area in the vacant spaces of the unit.	Complied. Details of the afforestation and green belts developed year wise is enclosed as Annexure - 6.
11	A network of observation wells within and outside the lease area shall be maintained for regular monitoring of ground water quality and ground water table.	10 Nos. of observation wells and 7 Nos. of Piezometers are established and monitoring is done regularly. Reports are enclosed as Annexure - 7.
12	A network of observation wells within and outside the lease area shall be maintained for regular monitoring of ground water quality and ground water table.	Same as above
13	The industry shall comply with EC conditions dated 17.04.2015 and CFE conditions dated 23.06.2015	Complied.
14	The industry shall maintain the compliance of directions issued by the Board from time to time	Will be complied.
15	The applicant shall submit Environment Statement in Form V before 30 th September every year as per Rule No, 14 of E(P) Rules, 1986 & amendments.	Environmental Statement in Form V submitted on 13.08.16 for the year 2015-16 vide Letter No: TSPL/ENV/PCB/ES/2015-16/1007, is enclosed as Annexure - 8.

16	The conditions stipulated are without prejudice to the rights and contentions of this Board in any Hon'ble court of law.	Noted.
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Wet & Dry Plants, Vatsavalasa(V)

17	The emissions shall not contain constituents in excess of the prescribed limits mentioned below.	Stack Emission Analysis details for the period was done by PCB authorized agency and it was observed that the emission was under the permissible limit. Reports enclosed as Annexure - 9						
	<table border="1"> <thead> <tr> <th>Chimney No.</th> <th>Parameter</th> <th>Emission Standards</th> </tr> </thead> <tbody> <tr> <td>1 to 5</td> <td>Particulate matter</td> <td>115mg/Nm³</td> </tr> </tbody> </table>	Chimney No.	Parameter	Emission Standards	1 to 5	Particulate matter	115mg/Nm ³	
Chimney No.	Parameter	Emission Standards						
1 to 5	Particulate matter	115mg/Nm ³						
18	The industry shall maintain separate energy meter for Effluent Treatment Plant(ETP) i.e for sludge thickener and for air pollution control equipment.	Separate energy meters provided for sludge thickener and air pollution control equipment's and daily energy consumption is being monitored and records are maintained.						
19	The industry shall submit performance evaluation/efficiency of the Air Pollution Control Systems installed on quarterly basis.	Conducted the efficiency test of Air Pollution Control System. Enclosed reports as Annexure - 10						
20	The industry shall not cause dust/air pollution to surrounding environment during transportation of mined sand. Industry shall provide water sprinklers at raw material handling section for dust suppression.	To avoid dust/air pollution, water sprinkling is done regularly on the haul roads in the mining area and also water sprinklers are installed at MSP rejects discharge point.						
21	The industry shall not discharge any effluents into Perlavanipeta agricultural fields.	No effluent is discharged into Perlavanipeta agricultural fields.						
22	The industry shall maintain green belt in the mined area after levelling and towards sea side on reclaimed mined area.	Complied as shown in Annexure -6.						
23	The industry shall operate water sprinklers to control fugitive emissions at different transfer points and haul roads.	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.						
24	The industry shall maintain water sprinklers at raw material handling section for dust suppression and maintain records	In dry plant, dust is controlled in the above manner and water sprinklers are installed at dry material handling point for dust suppression.						
25	All transit water storage facilities shall be maintained with impervious lining to prevent pollution.	Water storage tanks are made leak proof.						
26	The thickener sludge/sand shall be disposed for back filling in mined out areas.	The thickener sludge / sand is						

		being disposed for back filling in mined out areas.
27	Total generation of Silica sand (Plant Tails) from the Wet Plants at Vatsavalasa and Tonangi shall not exceed 5.07 Million TPA. The plant tails be used for backfilling the mined out areas by transportation/pumping in the form of slurry and stock piling.	The generation of Silica sand from the Wet Plants has not exceeded the limit and used for backfilling the mined out areas. (Annexure -11)

Wet Plant, Tonagi (V):

28	Water sprinklers shall be maintained for dust suppression.	Water sprinkling is done regularly on the haul roads for dust suppression (Annexure - 12).
29	The industry shall not discharge any effluent to outside the premises.	Will be ensured
30	The industry shall control fugitive emissions generated at different transfer points and material storage and handling system.	Being complied
31	The industry shall maintain water sprinklers at raw material handling section for dust suppression and maintain records.	No dust generation is happening at raw material handling plant at Tonangi since entire process is wet operation with water as medium.
32	All transit water storage facilities shall be provided with impervious lining to prevent pollution.	Complied with RCC/HDPE lined ponds
33	The thickener sludge/sand shall be disposed for back filling in mined out areas. The industry shall submit mine plan and back filling plan to RO, Vizianagaram.	Mining Plan conditions are being implemented along with progressive Mine Closure Plan which has been approved by Indian Bureau of Mines vide letter no. AP/SRK/MP/Garnet-2/Hyd. dated 26.09.2003 & 18.06.2009 and Modified Mining Plan approval vide letter no. AP/SRK//MP/Garnet-Sillimanite-7/Hyd. dated 02.03.2017 (Annexure-13). (this annexure is latest approved MMP by IBM – Jose sir is telling that not to give this reference)
34	The industry shall not cause dust/air pollution to surrounding environment during transportation of mined sand.	Necessary action is taken to prevent dust/air pollution during transportation of mined sand.



Beach sand Mining, Vatsavalasa(V), Gara(M)

35	The industry shall submit the mining plan as well as back filling plan. The industry shall dispose the OB dump in the mined area only for back filling and shall not dump in unauthorized places.	Mining Plan conditions are being implemented along with progressive Mine Closure Plan which has been approved by Indian Bureau of Mines vide letter no. AP/SRK/MP/Garnet-2/Hyd. dated 26.09.2003 & 18.06.2009 and Modified Mining Plan approval vide letter no. AP/SRK//MP/Garnet-Sillimanite-7/Hyd. dated 02.03.2017 (Annexure-13).
36	The mining shall be accordance with the mining plan approved by AMD & IBM	Being complied.
37	The industry shall not carryout mining towards inter tidal area and within 100 Mts from HTL towards landward side as stipulated in the EC order dated 17.04.2015	No mining is carried out towards inter tidal area and within 100 Mts. from HTL towards landward side.
38	The industry shall carryout radiation survey regularly as per statutory requirement.	Radiation survey is being carried out and records are being maintained and submitted to AERB on quarterly basis (Annexure - 14).
39	The industry shall not cause dust/air pollution the surrounding environment during transportation of mined sand.	This is being ensured by sprinkling water regularly on the haul roads

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The industry shall comply with the following:

Existing: Wet & Dry Plants

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

After Expansion: Wet Plant I & II

S. NO	Solid Waste Generated from	Existing	Expansion Qty	Total	Method of Disposal
1	Silica sand (Plant Tails) from Wet mill of Pre concentration plants	4867 TPD (1.77 MTPA)	3.30 MTPA	5.07 MTPA	Reused for back filing the mined out areas by transportation/Pumping in the form of slurry and stock piling.
2	Mineral Rich Tails from Dry mill of Mineral separation plant	170 TPD(0.062 MTPA)	0.032 MTPA	0.094 MTPA	
3	Waste Lubricating Oil(Hazardous)	310 LPM	120 LPM	430LPM	To disposed to authored agencies

Being complied

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During initial mining stages, a green belt of width 7.5 m shall be developed all around the mine lease boundary. Subsequently develop 50m barrier zone with 5 tier plantation inside mine lease in a progressive way near the active mining sites as specified in the EC order dt. 17.04.2015

This is being complied.

42

Fencing of entire lease area, barrier of 100m towards sea shall be done to protect Olive Turtle nesting ground.

Complied all along the 100m line from the HTL.

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The proponent shall obtain all clearances from all competent authorities.

Obtained all clearances like EC, CRZ, Mining Plan, AERB license etc.

Schedule - C

1	The industry shall give top priority for waste minimization and cleaner production practices.	Hazardous waste generated is mainly used lubricating oil. It is partially reused for machinery lubrication. A 1.05 MW solar power plant is installed towards greener energy generation. A water treatment plant is installed to recover more water from the tailing discharge in the mined out lands.
2	The industry shall not store hazardous waste for more than 90 days as per the Hazardous Wastes (Management Handling and Transboundary Movement) Rules, 2008 and amendment thereof.	HWM rules are complied.
3	The industry shall store used/Waste Oil and used Lead Acid Batteries in a secured way in their premises till its disposal.	This is being ensured. Waste oil is stored in a designated separate place.
4	The industry shall not dispose Waste oils to the traders and the same shall be disposed to the authorized Reprocessors/recyclers.	Waste lubricant oil is disposed to the following authorized agency. M/s. SR Petro Products, Plot No. 195/B APIIC Growth Center, Bobbili (V & M), Vizianagaram (Dist.) .
5	The industry shall dispose used Lead Acid Batteries to the manufactures/dealers on buyback basis.	Used Lead Acid Batteries is being disposed to the authorized agency on buyback basis.
6	The industry shall not dispose spent solvents/mixed spent solvents to the traders.	No spent solvents are generated.
7	The industry shall take necessary practical steps for prevention of oil spillages and carryover of oil from the premises.	Leak proof closed barrels are used for the purpose.
8	The industry shall maintain 6 copy manifest system for transportation of waste generated and a copy shall be submitted to Board Office and concerned Regional Office.	Six copy manifest system is being maintained. (Annexure - 15)
9	The industry shall maintain good housekeeping & maintain proper records for Hazardous Wastes stated in Authorisation.	Form - 3 & Form - 4 are being maintained. (Annexure -16)
10	The industry shall maintain proper records for Hazardous Wastes stated in Authorisation in FORM-3 i.e., quantity of incinerable waste, land disposal waste, recyclable waste etc., and file annual returns in form-4 as per Rule 22(2) of the Hazardous Wastes(Management, Handling & Transboundary Movement) Rules, 2008 and amendments thereof.	Necessary records being maintained. Filed annual returns vide letter dated TSPL/ENV/HW/PCB/2017-18 dated 25.05.2017 (Annexure - 16)
11	The industry shall dispose of e-waste to the authorised recyclers only.	Complied.
12	The industry shall submit the condition wise compliance report of the conditions stipulated in Schedule A,B& C of this Order on half yearly basis to Board Office, Hyderabad and concerned Regional Office.	Report for the period Apr'16 to Sep'16 submitted vide lr.No. TSPL/ENV/PCB/2016-17/1038 dated: 29-11-2016 (Annexure -17)





Annexure - 1

TSPL/ENV/PCB/2016-17/1065

Srikakulam
12-04-2017

To
The Environmental Engineer,
AP Pollution Control Board,
Paryavaran Bhavan, A3, Industrial Estate,
Sanathnagar, Hyderabad - 38

Dear Sir,

Sub: Ambient Air Quality & Stack Monitoring Monthly reports-Submission - Reg
Ref: Consent Order No: APPCB/VSP/VZM/152/HO/CFO/2015, Dt: 30.10.2015

As per the reference cited above, please find herewith attached Ambient Air Quality and Stack Monitoring reports for the month of Mar-2017.

Thanking You,

Yours Faithfully

Vice President (Mines)

Copy to:

The Environmental Engineer, AP Pollution Control Board, Regional Office,
Plot No: 11, 1st Floor, Shivaji Colony, Pradeep Nagar, Vizianagaram - 535002.

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

CIN : U14299TN2004PTC071437



OK.

TSPL/ENV/PCB/2016-17/1061

Srikakulam
25-03-2017

To
The Environmental Engineer,
AP Pollution Control Board,
Paryavaran Bhavan, A3, Industrial Estate,
Sanathnagar, Hyderabad – 38

Dear Sir,

Sub: Ambient Air Quality & Stack Monitoring Monthly reports-Submission - Reg.
Ref: Consent Order No: APPCB/VSP/VZM/152/HO/CFO/2015, Dt: 30.10.2015

As per the reference cited above, please find herewith attached Ambient Air Quality and Stack Monitoring reports for the month of Feb-2017.

Thanking You,

Yours Faithfully

A handwritten signature in black ink, appearing to be the name of the Vice President (Mines).

Vice President (Mines)

Copy to:

The Environmental Engineer, AP Pollution Control Board, Regional Office,
Plot No: 11, 1st Floor, Shivaji Colony, Pradeep Nagar, Vizianagaram – 535002.

A handwritten signature in black ink, appearing to be the name of the Vice President (Mines).

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

CIN : U14299TN2004PTC071437



TSPL/ENV/PCB/2016-17/1054

Srikakulam
06-02-2017

To
The Environmental Engineer,
AP Pollution Control Board,
Paryavaran Bhavan, A3, Industrial Estate,
Sanathnagar, Hyderabad - 38

Dear Sir,

Sub: Ambient Air Quality & Stack Monitoring Monthly reports-Submission - Reg.
Ref: Consent Order No: APPCB/VSP/VZM/152/HO/CFO/2015, Dt: 30.10.2015

As per the reference cited above, please find herewith attached Ambient Air Quality and Stack Monitoring reports for the month of Jan-2017.

Thanking You,

Yours Faithfully

Vice President (Mines)

Copy to:

The Environmental Engineer, AP Pollution Control Board, Regional Office,
Plot No: 11, 1st Floor, Shivaji Colony, Pradeep Nagar, Vizianagaram - 535002.

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

CIN : U14299TN2004PTC071437


TRIMEX o/c

TSPL/ENV/PCB/2016-17/1049

Srikakulam,
20-01-2017.

To
The Environmental Engineer,
AP Pollution Control Board,
Paryavaran Bhavan, A3, Industrial Estate,
Sanathnagar, Hyderabad - 38

Dear Sir,

Sub: Ambient Air Quality & Stack Monitoring Monthly reports-Submission - Reg.
Ref: Consent Order No: APPCB/VSP/VZM/152/HO/CFO/2015, Dt: 30.10.2015

As per the reference cited above, please find herewith attached Ambient Air Quality and Stack Monitoring reports for the month of Dec-2016.

Thanking You.

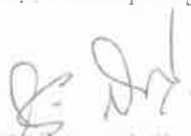
Yours Faithfully



Vice President (Mines)

Copy to:

The Environmental Engineer, AP Pollution Control Board, Regional Office,
Plot No: 11, 1st Floor, Shivaji Colony, Pradeep Nagar, Vizianagaram - 535002


Trimex Sands Pvt Ltd: Vachavalasa (V), Gara Mandal, Srikakulam District - 532404 Andhra Pradesh, India
Tel: +91 8942 283755, Fax: +91 8942 283758, email: info@trimexsands.com

Hyderabad Office: 2nd Floor, Sri Durga Towers, Plot No. 203, Road No. 10, Banjara Hills, Hyderabad - 500034 Andhra Pradesh, India
Tel: +91 40 2338 4380 / 3371 3000, Fax: +91 40 2338 4008

Reg. Office: Trimex Towers, No. 1 Subbaraya Avenue, C.P. Ramaswamy Road, Awarapeta, Chennai - 600078 TamilNadu, India
Tel: +91 44 2498 8822 / 8813, Fax: +91 44 2498 6047, web: www.trimexsands.com

CIN: U14299TN2004PTC071437



TSPL/ENV/PCB/2016-17/1041

Srikakulam,
08-12-2016.

To
The Environmental Engineer,
AP Pollution Control Board,
Paryavaran Bhavan, A3, Industrial Estate,
Sanathnagar, Hyderabad - 38

Dear Sir,

Sub: Ambient Air Quality & Stack Monitoring Monthly reports-Submission - Reg.
Ref: Consent Order No: APPCB/VSP/VZM/152/HO/CFO/2015, Dt: 30.10.2015

As per the reference cited above, please find herewith attached Ambient Air Quality and Stack Monitoring reports for the month of Nov-2016.

Thanking You,

Yours Faithfully

Vice President (Mines)

Copy to:

The Environmental Engineer, AP Pollution Control Board, Regional Office,
Plot No: 11, 1st Floor, Shivaji Colony, Pradeep Nagar, Vizianagaram - 535002

Trimex Sands Pvt Ltd: Vatchavalasa (V), Ganapambal, 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 4060

Reg. Office: Trimex Towers, No 1 Subbaraya Avenue, C.P. Ramaswamy Road, Alwarpet, Chennai - 600 074, Tamil Nadu, India.
Tel: +91 44 2498 8822 / 8813, Fax: +91 44 2498 6047, web: www.trimexsands.com

CIN: U14299TN2004PTC071437



TSPL/ENV/PCB/2016-17/033

Srikakulam,
10-11-2017

To
The Environmental Engineer,
AP Pollution Control Board,
Paryavaran Bhavan, A3, Industrial Estate,
Sanathnagar, Hyderabad – 38

Dear Sir,

Sub: Ambient Air Quality & Stack Monitoring Monthly reports – Submission - Reg.
Ref: Consent Order No: APPCB/VSP/VZM/152/HO/CFO/2015, Dt: 30.10.2015

As per the reference cited above, please find herewith attached Ambient Air Quality and Stack Monitoring reports for the month of Oct-2016.

Thanking You,

Yours Faithfully

Vice President (Mines)

Copy to:

The Environmental Engineer, AP Pollution Control Board, Regional Office,
Plot No: 11, 1st Floor, Shivaji Colony, Pradeep Nagar, Vizianagaram – 535002

Trimex Sands Pvt Ltd: Vatchavolasa (V) Gara, Maddur, Srikakulam District - 532 304, 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. 16, Banjara Hills, Hyderabad - 500 034, Andhra Pradesh, India
Tel: +91 40 2338 4380 / 4371 3600, Fax: +91 40 2338 4066

Reg. Office: Trimex Towers, No. 1 Subbaraya Avenue, C.P. Ramaswamy Road, Alwarpet, Chennai - 600 016, Tamil Nadu, India
Tel: +91 44 2498 8822 / 8813, Fax: +91 44 2498 6047, web: www.trimexsands.com

CIN: U14299TN2004PTC071437



TSPL/ENV/MOEF/2016-17/1069

SRILAKSHMI
20-4-2015

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

Dear Sir,

Sub: Observation wells water quality data report – Submission - 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 17-04-2015.

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

Thanking You,

Yours faithfully,

Vice President (Mines)

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

Trimex Sands Pvt Ltd: Vatchavalasa (V), Gara Mandal, Srikakulam District - 532 404, Andhra Pradesh, India.
Tel: +91 8942 283755, Fax: +91 8942 283758; email: info@trimexsands.com
Hyderabad Office: 2nd Floor, Sri Durga Towers, Plot No. 201, Road No. 10, Banjara Hills, Hyderabad - 500 034, Andhra Pradesh, India.
Tel: +91 40 2338 4380 / 3371 3600 Fax: +91 40 2338 4068
Reg. Office: Trimex Towers, No.1 Subbaraya Avenue, C.P. Ramaswamy Road, Alwarpet, Chennai - 600 016, Tamil Nadu, India.
Tel: +91 44 2498 8822 / 8813 Fax: +91 44 2498 6047 web: www.trimexsands.com
CIN: U14299TN2004PTC071437

TRIMEX

O/c

TSPL/ENV/MOEF/2016-17/1051

Balakulam,
27-01-2017

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

Dear Sir,

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

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

As per the reference cited above, please find herewith enclosed quarterly report on
observation wells & Piezometer monitoring for the period of Oct to Dec, 2016.

Thanking You.

Yours faithfully,

Vice President (Mines)

CC:

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

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

Hyderabad Office: 2nd Floor, 5th Durgam Towers, Plot No. 20, Block No. 19, Banjara Hills, Hyderabad - 500068, India
Tel: +91 40 2338 4380 / 3371 3600, Fax: +91 40 2338 4388

Reg. Office: Trimex Towers, No 1, Subbaraya Avenue, P. Rajanagar, Hyderabad, Andhra Pradesh, India
Tel: +91 44 2698 8822 / 8813, Fax: +91 44 2698 6000, web: www.trimexsands.com

CIN: U14299TN2004PTC071437

Personnel Protective Equipments:

Eye	No special eye protection is mandated but safety glasses with side shields can be recommended when handling used oils.
Skin	Exposed employees should exercise reasonable personal cleanliness; this includes cleansing exposed skin several times daily with soap and water and laundering or dry cleaning soiled work clothing at least weekly. Any routine contact with used motor oil should require the use of protective clothing such as gloves, or apron made of neoprene, nitrile, or n-butyl rubber suitable for the application
Inhalation:	Respiratory protection is normally not required. However, if operating conditions create airborne concentrations which exceed the recommended exposure standard(s), the use of an approved respirator is recommended. Wear approved respiratory protection such as toxic dust, mist and fume respirator.

First aid procedures:

Eye	Flush eyes immediately with fresh water for at least 15 minutes . Obtain medical advice if any pain or redness develops or persists.
Skin	Wash skin thoroughly with soap and water. Remove contaminated clothing and wash underlying skin as soon as reasonably practicable.
Ingestion	If swallowed and person is conscious, give water or milk. DO NOT make person vomit except on advice of medical personnel. If advice cannot be obtained, take person with container to nearest emergency treatment centre. Never give anything by mouth to an unconscious person.
INHALATION	If inhalation of mists, fumes, or vapour causes irritation to the nose or throat, or coughing, remove to fresh air. If symptoms persist obtain medical advice.

FIRE FIGHTING MEASURES

Extinguish using foam, dry powder or water fog. DO NOT USE WATER JETS. Avoid spraying directly into storage containers because of the danger of boil over. Fires in confined spaces should be dealt with by trained personnel wearing approved breathing apparatus and protective clothing to prevent contact with skin and eyes. Water may be used to cool nearby exposed areas/objects/packages.

Material Safety Data Sheet
Emergency preparedness plan

Used Lubricant Oil.

Physical and Chemical Properties:

Chemical Formula		Evaporation Rate:	less than 1 (butyl acetate = 1)
Physical state	Liquid	Flash point	Below 55°C.
Colour	Black	Solubility (water)	Slight.
Odour	Oily/Oxidized	Specific Gravity	0.8 to 1.0 at 60°F (15.6°C) (water = 1)
Viscosity at 40°C	80 mm ² /s	Density at 20°C	Varies, usually below 0.9 kg/l
Water	10-20 %	Ash	1.0%
		Fuel Solvents	>3.5 %
		Flammability	Heat, sparks, or flame. Product may burn but does not ignite readily.

Health hazard information:

Eye	May cause irritation.
Skin	May cause irritation. Product may be absorbed through the skin and cause harm as noted under INHALATION (BREATHING) .
Ingestion	May be harmful or fatal if swallowed. May cause throat irritation, nausea, vomiting, and central nervous system effects as noted under INHALATION (BREATHING) . Breathing product into the lungs during ingestion or vomiting may cause lung injury and possible death.
Inhalation:	High concentrations of vapor or mist may be harmful if inhaled. High Concentrations of vapor or mist may irritate the respiratory tract (nose, throat, and lungs). High concentrations of vapor or mist may cause nausea, vomiting, headaches, dizziness, loss of coordination, numbness, and other central nervous system effects. Massive acute overexposure may cause rapid central nervous system depression, sudden collapse, coma, and/or death.

ENVIRONMENTAL HAZARDS

- Product may be toxic to fish, plants, wildlife, and/or domestic animals.

Environmental Precautions

Protect drains from potential spills to minimize contamination. DO NOT wash product into drainage system. Contact the appropriate authorities in all cases where the consequences cannot be quickly and effectively controlled.

In the case of spillage on water, prevent the spread of product by the use of suitable barrier equipment. Recover product from the surface. Protect environmentally sensitive areas and water supplies.

In the case of spillage at sea approved dispersants may be used where authorized by the appropriate governmental/regulatory authorities. Regular surveillance on the location of the spillage should be maintained.

HANDLING AND STORAGE

Handling

Keep away from heat, sparks, or flame. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean, spark proof tools and explosion-proof equipment. When transferring product, storage tanks, tanker trucks, and rail tank cars should be grounded and bonded. Do not breathe vapor or mist. Use in a well ventilated area. Avoid contact with eyes, skin, clothing, and shoes. Do not smoke while using this product.

Storage Conditions

Keep container tightly closed when not in use and during transport. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Keep containers away from heat, flame, sparks, static electricity, or other sources of ignition. Empty product containers may retain product residue and can be dangerous.

TEAM

ORIGINAL

2171

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/3/0317

dt 04.04.2017

Description of Test: Stack Emissions Analysis
Name of the client: Trimex Sands Pvt. Ltd., Vatchavalasa, Srikakulam dt
Location of sampling: Stacks attached to DG sets
Date of Sampling : Asper details given

No	Parameter	DG 1(MSP) of 2000 KVA	DG 2(MSP) of 2000 KVA	DG 1(PCP) of 2000 KVA	DG 2(PCP) of 2000 KVA
1	Date of sampling	13.03.2017	13.03.2017	13.03.2017	13.03.2017
2	Stack height(m)	30	30	30	30
3	Duct diameter (m)	0.4	0.4	0.4	0.4
4	Stack area (m ²)	0.126	0.126	0.126	0.126
5	Flue gas temp ^o c	481	469	128	124
6	Exit gas velocity (m/s)	37.9	35.9	9.0	9.3
7	Flue gas flow rate NM ³ /hr	6794	6540	3034	3167
8	Emission Rates				
9	Dust concentration mg/NM ³	95	92	62	55
10	SO ₂ mg/NM ³	95	110	70	80
11	NO _x mg/NM ³	550	580	140	145

For TEAM Labs and Consultant



Registered Office :

B-115, 116, 117 & 509, Annapoorna Block, Aditya Enclave, Ameerpet, Hyderabad - 500038
 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, Gov. New Delhi

TEST REPORT

Test Report No .TLC /V/Env/ TSPL/3/0217

dt 10.03.2017

Description of Test: Stack Emissions Analysis
 Name of the client: Trimex Sands Pvt. Ltd., Vatchavalasa, Srikakulam dt
 Location of sampling: Stacks attached to DG sets
 Date of Sampling : Asper details given

No	Parameter	DG 1(MSP) of 2000 KVA	DG 2(MSP) of 2000 KVA	DG 1(PCP) of 2000 KVA	DG 2(PCP) of 2000 KVA
1	Date of sampling	15.02.2017	15.02.2017	14.02.2017	14.02.2017
2	Stack height(m)	30	30	30	30
3	Duct diameter (m)	0.4	0.4	0.4	0.4
4	Stack area (m)	0.126	0.126	0.126	0.126
5	Flue gas temp ^o c	135	130	127	142
6	Exit gas velocity (m/s)	9.0	9.0	11.0	10.0
7	Flue gas flow rateNM ³ /hr	2982	3019	3717	3257
8	Emission Rates				
9	Dust concentration mg/NM ³	66	62	70	64
10	SO ₂ mg/NM ³	70	60	80	85
11	NO _x mg/NM ³	150	142	145	131

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/3/0117

dt 02.02.2017

Description of Test:

Stack Emissions Analysis

Name of the client:

Trimex Sands Pvt. Ltd., Vatchavalasa, Srikakulam dt

Location of sampling:

Stacks attached to DG sets

Date of Sampling :

Asper details given

No	Parameter	DG 1(MSP) of 2000 KVA	DG 2(MSP) of 2000 KVA	DG 1(PCP) of 2000 KVA	DG 2(PCP) of 2000 KVA
1	Date of sampling	24.01.2017	24.01.2017	23.01.2017	23.01.2017
2	Stack height(m)	30	30	30	30
3	Duct diameter (m)	0.4	0.4	0.4	0.4
4	Stack area (m)	0.126	0.126	0.126	0.126
5	Flue gas temp ^o c	127	122	117	130
6	Exit gas velocity (m/s)	8.0	9.0	10.0	9.0
7	Flue gas flow rateNM ³ /hr	2703	3079	3465	3019
8	Emission Rates				
9	Dust concentration mg/NM ³	62	58	66	60
10	SO ₂ mg/NM ³	60	55	75	80
11	NO _x mg/NM ³	140	130	140	130

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/3/1216

dt 03.01.2017

Description of Test: Stack Emissions Analysis
Name of the client: Trimex Sands Pvt. Ltd., Vatchavalasa, Srikakulam dt
Location of sampling: Stacks attached to DG sets
Date of Sampling : Asper details given

No	Parameter	DG 1(MSP) of 2000 KVA	DG 2(MSP) of 2000 KVA	DG 1(PCP) of 2000 KVA	DG 2(PCF) of 2000 KVA
1	Date of sampling	31.12.2016	31.12.2016	30.12.2016	30.12.2016
2	Stack height(m)	30	30	30	30
3	Duct diameter (m)	0.4	0.4	0.4	0.4
4	Stack area (m)	0.126	0.126	0.126	0.126
5	Flue gas temp ^o c	102	117	109	121
6	Exit gas velocity (m/s)	7.9	8.5	8.7	9.5
7	Flue gas flow rateNM ³ /hr	28486	2946	3079	3251
8	Emission Rates				
9	Dust concentration mg/NM ³	60	55	80	58
10	SO ₂ mg/NM ³	50	50	60	60
11	NO _x mg/NM ³	130	125	135	140

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

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

TEST REPORT

Test Report No .TLC /V/Env/ TSPL/3/1116

dt 05.12.2016

Description of Test: Stack Emissions Analysis
Name of the client: Trimex Sands Pvt. Ltd., Vatchavalasa, Srikakulam dt
Location of sampling: Stacks attached to DG sets
Date of Sampling : Asper details given

No	Parameter	DG 1(MSP) of 2000 KVA	DG 2(MSP) of 2000 KVA	DG 1(PCP) of 2000 KVA	DG 2(PCP) of 2000 KVA
1	Date of sampling	15.11.2016	15.11.2016	16.11.2016	16.11.2016
2	Stack height(m)	30	30	30	30
3	Duct diameter (m)	0.4	0.4	0.4	0.4
4	Stack area (m)	0.126	0.126	0.126	0.126
5	Flue gas temp ^o c	145	142	155	162
6	Exit gas velocity (m/s)	8.0	7.0	8.0	6.5
7	Flue gas flow rateNM ³ /hr	2587	2280	2527	2020
8	Emission Rates				
9	Dust concentration mg/NM ³	58	62	58	60
10	SO ₂ mg/NM ³	80	90	85	90
11	NO _x mg/NM ³	145	155	160	150

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/3/1016

dt 07.11.2016

Description of Test: Stack Emissions Analysis
 Name of the client: Trimex Sands Pvt. Ltd., Vatchavalasa, Srikakulam dt
 Location of sampling: Stacks attached to DG sets
 Date of Sampling : Asper details given

No	Parameter	DG 1(MSP) of 2000 KVA	DG 2(MSP) of 2000 KVA	DG 1(PCP) of 2000 KVA	DG 2(PCP) of 2000 KVA
1	Date of sampling	17.10.2016	17.10.2016	18.10.2016	18.10.2016
2	Stack height(m)	30	30	30	30
3	Duct diameter (m)	0.4	0.4	0.4	0.4
4	Stack area (m ²)	0.126	0.126	0.126	0.126
5	Flue gas temp ^o c	140	137	152	170
6	Exit gas velocity (m/s)	8.0	7.0	7.5	6.0
7	Flue gas flow rate NM ³ /hr	2618	2308	2374	183
8	Emission Rates				
9	Dust concentration mg/NM ³	55	67	57	66
10	SO ₂ mg/NM ³	75	80	75	85
11	NO _x mg/NM ³	130	125	140	135

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/4/0317

dt 04.04.2017

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:

14.03.2017

No	Location	particulate matter PM _{2.5} μ gms/M3	particulate matter PM ₁₀ μ gms/M3	SO2 μ gms/M3	NOx μ gms/M3
1	MSP- South East corner	18	44	7.0	14.2
2	MSP-North West corner	14	48	7.2	15.0
3	PCP-East gate	43	90	8.5	18.8
4	PCP-South West gate	22	52	7.1	15.8
5	Perlavanipet mines	25	60	7.5	16.2
	APPCB STANDARD	60	100	80	80

PM_{2.5}:Particulate matter of less than 2.5 μ sizePM₁₀: Particulate matter 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) 040-23748655 / 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-N/01/0317

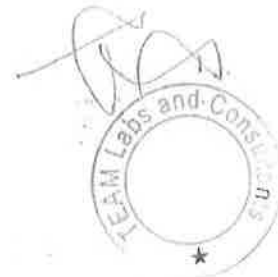
dt 04.04.2017

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 monltoring: 13.03.2017

No	Location	particulate matter PM _{2.5} μ gms/M3	particulate matter PM ₁₀ μ gms/M3	SO2 μ gms/M3	NOx μ gms/M3
1	DG Area	20	46	7.0	14.6
2	Security gate	24	53	7.2	15.0
	APPCB STANDARD	60	100	80	80

PM_{2.5} : Particulate matter of less than 2.5 μ size
PM₁₀ : Particulate matter of less than 10 μ size

For TEAM Labs and Consultants



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TEST REPORT

Test Report No .TLC /V/Env/ TSPL/5/0317

dt 04.04.2017

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:

13.03.2017

No	Location	particulate matter PM _{2.5} μ gms/M3	particulate matter PM ₁₀ μ gms/M3	SO2 μ gms/M3	NOx μ gms/M3
1	Srikurmam	28	76	8.5	18.9
2	Pedda vatsavalasa	22	61	7.7	15.2
3	Komaravani peta	12	40	6.0	12.8
4	Tonangi	27	58	6.5	13.6
	APPCB STANDARD	60	100	80	80

PM_{2.5}:Particulate matter of less than 2.5 μ sizePM₁₀: Particulate matter of less than 10 μ size

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL/4/0217

dt 10.03.2017

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:

15.02.2017

No	Location	particulate matter PM _{2.5} μ gms/M3	particulate matter PM ₁₀ μ gms/M3	SO ₂ μ gms/M3	NO _x μ gms/M3
1	MSP- South East corner	21	59	7.2	14.7
2	MSP-North West corner	25	65	7.7	15.8
3	PCP-East gate	37	86	8.2	15.6
4	PCP-South West gate	24	64	7.0	15.2
5	Perlavanipet mines	30	66	7.4	16.5
	APPCB STANDARD	60	100	80	80

PM_{2.5} :Particulate matter of less than 2.5 μ size
PM₁₀: Particulate matter of less than 10 μ size
MSP-Mineral Separation Plant

For TEAM Labs and Consultants



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TEST REPORT

Test Report No .TLC /V/Env/ TSPL-N/01/0217

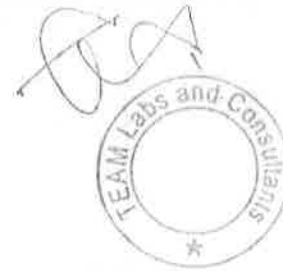
dt 10.03.2017

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: 14.02.2017

No	Location	particulate matter PM _{2.5} μ gms/M3	particulate matter PM ₁₀ μ gms/M3	SO2 μ gms/M3	NOx μ gms/M3
1	DG Area	30	72	7.8	16.6
2	Security gate	15	60	6.8	14.4
	APPCB STANDARD	60	100	80	80

PM_{2.5} : Particulate matter of less than 2.5 μ size
PM₁₀ : Particulate matter of less than 10 μ size

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL/5/0217

dt 10.03.2017

Description of Test: Ambient Air Quality Monitoring –Buffer zone

Name of the client: Trimex Sands. PvtLtd.

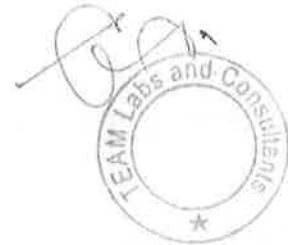
Location of sampling: surrounding villages as per details given

Date of monitoring: 14.02.2017

No	Location	particulate matter PM _{2.5} μ gms/M3	particulate matter PM ₁₀ μ gms/M3	SO2 μ gms/M3	NOx μ gms/M3
1	Srlkurmam	16	65	7.8	16.2
2	Pedda vatsavalasa	25	70	8.0	16.6
3	Komaravani peta	13	45	6.0	13.1
4	Tonangi	20	52	6.8	13.9
	APPCB STANDARD	60	100	80	80

PM_{2.5}:Particulatematter of less than 2.5 μ sizePM₁₀: Particulatematter of less than 10 μ size

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL/4/0117

dt 02.02.2017

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:

24.01.2017

No	Location	particulate matter PM _{2.5} μ gms/M3	particulate matter PM ₁₀ μ gms/M3	SO ₂ μ gms/M3	NO _x μ gms/M3
1	MSP- South East corner	19	56	7.0	14.1
2	MSP-North West corner	24	60	7.2	15.4
3	PCP-East gate	42	92	8.5	16.9
4	PCP-South West gate	28	70	7.2	16.6
5	Perlavanipet mines	32	68	7.0	16.2
	APPCB STANDARD	60	100	80	80

PM_{2.5}: Particulate matter of less than 2.5 μ size
 PM₁₀: Particulate matter of less than 10 μ size
 MSP-Mineral Separation Plant

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL-N/01/0117

dt 02.02.2017

Description of Test:

Ambient Air Quality Monitoring Inside core zone

Name of the client:

Trimex Sands Pvt. Ltd.

Location of sampling:

New PCP Plant ,Tonangl

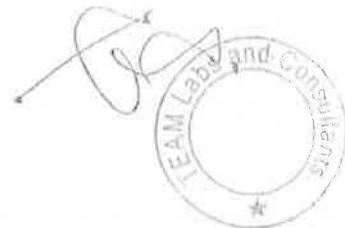
Date of monitoring:

23.01.2017

No	Location	particulate matter PM _{2.5} μ gms/M3	particulate matter PM ₁₀ μ gms/M3	SO2 μ gms/M3	NOx μ gms/M3
1	DG Area	33	75	7.5	16.2
2	Security gate	14	58	6.6	13.3
	APPCB STANDARD	60	100	80	80

PM_{2.5} : Particulatematter of less than 2.5 μ size
 PM₁₀; Particulatematter of less than 10 μ size

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL/5/0117

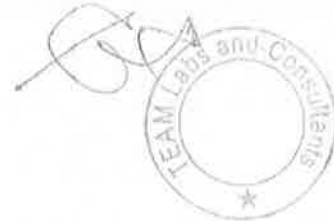
dt 02.02.2017

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: 23.01.2017

No	Location	particulate matter PM _{2.5} μ gms/M3	particulate matter PM ₁₀ μ gms/M3	SO2 μ gms/M3	NOx μ gms/M3
1	Srikurmam	14	58	6.8	13.3
2	Pedda vatsavalasa	24	65	7.0	15.5
3	Komaravani peta	12	40	6.0	12.2
4	Tonangi	22	54	6.6	14.4
	APPCB STANDARD	60	100	80	80

PM_{2.5} :Particulate matter of less than 2.5 μ size
PM₁₀ : Particulate matter of less than 10 μ size

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL/4/1216

dt 03.01.2017

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:

31.12.2016

No	Location	particulate matter PM _{2.5} μ gms/M3	particulate matter PM ₁₀ μ gms/M3	SO2 μ gms/M3	NOx μ gms/M3
1	MSP- South East corner	17	47	6.6	13.3
2	MSP-North West corner	22	54	7.0	14.5
3	PCP-East gate	45	95	8.2	17.2
4	PCP-South West gate	25	65	7.0	15.3
5	Perilavanipet mines	30	62	6.7	15.0
	APPCB STANDARD	60	100	80	80

PM_{2.5} :Particulate matter of less than 2.5 μ sizePM₁₀: Particulate matter of less than 10 μ size

MSP-Mineral Separation Plant

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL-N/01/1216

dt 03.01.2017

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:

30.12.2016

No	Location	particulate matter PM _{2.5} µ gms/M3	particulate matter PM ₁₀ µ gms/M3	SO2 µ gms/M3	NOx µ gms/M3
1	DG Area	31	70	7.0	14.8
2	Security gate	19	54	6.0	12.5
	APPCB STANDARD	60	100	80	80

PM_{2.5} : Particulate matter of less than 2.5 µ size
PM₁₀: Particulate matter of less than 10 µ size

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Test Report No .TLC /V/Env/ TSPL/5/1216

dt 03.01.2017

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:

30.12.2016

No	Location	particulate matter PM _{2.5} μ gms/M3	particulate matter PM ₁₀ μ gms/M3	SO ₂ μ gms/M3	NO _x μ gms/M3
1	Srikurmam	11	51	6.5	12.9
2	Pedda vatsavalasa	22	58	6.8	14.0
3	Komaravani peta	10	35	6.0	11.8
4	Tonangi	25	50	6.8	14.9
	APPCB STANDARD	60	100	80	80

PM_{2.5} :Particulate matter of less than 2.5 μ sizePM₁₀; Particulate matter of less than 10 μ size

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL/4/1116

dt 05.12.2016

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: 15.11.2016

No	Location	particulate matter PM _{2.5} μ gms/M3	particulate matter PM ₁₀ μ gms/M3	SO2 μ gms/M3	NOx μ gms/M3
1	MSP- South East corner	22	50	6.5	15.0
2	MSP-North West corner	22	58	6.0	14.9
3	PCP-East gate	28	65	6.5	15.5
4	PCP-South West gate	24	58	6.2	14.0
5	Perlavanipet mines	27	63	7.5	16.2
	APPCB STANDARD	60	100	80	80

PM_{2.5} :Particulate matter of less than 2.5 μ size
PM₁₀; Particulate matter of less than 10 μ size
MSP-Mineral Separation Plant

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL-N/01/1116

dt 05.12.2016

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: 16.11.2016

No	Location	particulate matter PM _{2.5} μ gms/M3	particulate matter PM ₁₀ μ gms/M3	SO2 μ gms/M3	NOx μ gms/M3
1	DG Area	29	68	8.5	18.5
2	Security gate	25	58	6.8	14.0
	APPCB STANDARD	60	100	80	80

PM_{2.5} : Particulatematter of less than 2.5 μ size
PM₁₀; Particulatematter of less than 10 μ size

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL/5/1116

dt 05.12.2016

Description of Test: Ambient Air Quality Monitoring –Buffer zone

Name of the client: Trimex Sands. PvtLtd.

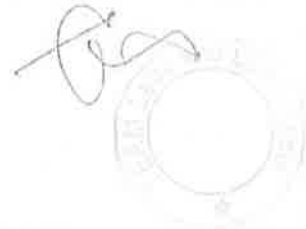
Location of sampling: surrounding villages as per details given

Date of monitoring: 16.11.2016

No	Location	particulate matter PM _{2.5} μ gms/M3	particulate matter PM ₁₀ μ gms/M3	SO2 μ gms/M3	NOx μ gms/M3
1	Srikurmam	17	54	6.8	15.5
2	Pedda vatsavalasa	14	40	6.0	12.5
3	Komaravani peta	15	45	6.5	14.0
4	Tonangi	19	52	6.6	14.4
	APPCB STANDARD	60	100	80	80

PM_{2.5}:Particulate matter of less than 2.5 μ sizePM₁₀: Particulate matter of less than 10 μ size

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL/4/1016

dt 07.11.2016

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: 17.10.2016

No	Location	particulate matter PM _{2.5} μ gms/M3	particulate matter PM ₁₀ μ gms/M3	SO2 μ gms/M3	NOx μ gms/M3
1	MSP- South East corner	20	45	6.5	14.0
2	MSP-North West corner	24	50	6.0	13.5
3	PCP-East gate	30	66	7.0	16.2
4	PCP-South West gate	25	54	6.0	12.9
5	Perlavanipet mines	28	62	7.2	15.0
	APPCB STANDARD	60	100	80	80

PM_{2.5} :Particulate matter of less than 2.5 μ size
 PM₁₀; Particulate matter of less than 10 μ size
 MSP-Mineral Separation Plant

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL-N/01/1016

dt 07.11.2016

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: 18.10.2016

No	Location	particulate matter PM _{2.5} μ gms/M3	particulate matter PM ₁₀ μ gms/M3	SO2 μ gms/M3	NOx μ gms/M3
1	DG Area	24	58	6.0	12.2
2	Security gate	28	62	6.5	13.9
	APPCB STANDARD	60	100	80	80

PM_{2.5} : Particulate matter of less than 2.5 μ size
 PM₁₀ : Particulate matter of less than 10 μ size

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL/6/0317

dt 04.04.2017

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: 13.03.2017

Time Hrs	Srikurmam	Pedda vatsavalasa	Komaravani peta	Chinna Tonangi
	Noise levels indB(A)			
11.00	52.8	41.7	43.8	49.1
12.00	54.1	40.1	42.5	46.5
13.00	53.5	47.0	42.6	43.8
14.00	58.5	42.6	41.9	45.2
15.00	53.7	42.0	45.8	43.9
16.00	52.9	43.1	43.5	42.4
17.00	56.3	43.9	41.9	43.9
18.00	55.9	44.6	46.5	46.4

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL/7/0317

dt 04.04.2017

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: 14.03.2017

Time Hrs	MSP- South East corner	MSP-North West corner	PCP-East gate	PCP-South West gate
	Noise levels indB(A)			
09.00	57.5	50.6	64.4	49.3
10.00	45.8	51.6	67.9	48.5
11.00	46.4	50.3	64.9	50.6
12.00	48.6	50.2	63.1	49.5
13.00	44.6	54.5	63.3	46.8
14.00	49.7	47.8	64.9	48.2
15.00	51.1	46.4	62.2	49.7
16.00	47.1	51.2	65.3	51.4

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TEST REPORT

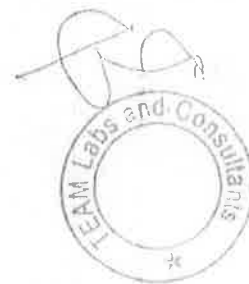
Test Report No :TLC /V/Env/ TSPL-N/02/0317

dt 04.04.2017

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: 13.03.2017

Time Hrs	Security gate	DG Area
	Noise levels indB(A)	
11.00	56.8	61.4
12.00	52.5	63.8
13.00	49.3	63.3
14.00	48.8	64.2
15.00	50.6	64.1
16.00	51.6	64.6
17.00	52.4	65.4
18.00	57.9	66.2

For TEAM Labs and Consultants



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TEST REPORT

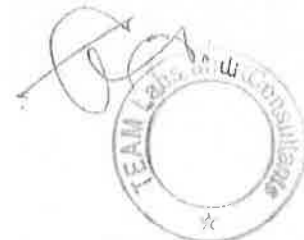
Test Report No .TLC /V/Env/ TSPL/6/0217

dt 10.03.2017

Description of Test: Ambient Noise level Monitoring -Buffer zone
Name of the client: Trlmex Sands. PvtLtd.
Location of sampling: As per details given
Date of monitoring: 14.02.2017

Time Hrs	Srikurmam	Pedda vatsavalasa	Komaravani peta	Chinna Tonangi
	Noise levels IndB(A)			
11.00	53.0	58.2	54.0	45.2

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL/7/0217

dt 10.03.2017

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: 15.02.2017

Time Hrs	MSP- South East corner	MSP-North West corner	PCP-East gate	PCP-South West gate
	Noise levels indB(A)			
11.00	57.0	59.5	62.0	54.1

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TEST REPORT

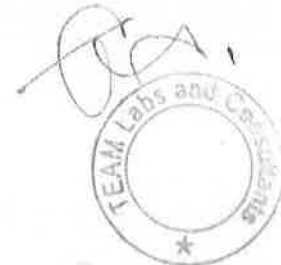
Test Report No .TLC /V/Env/ TSPL-N/02/0217

dt 10.03.2017

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: 14.02.2017

Time Hrs	Security gate	DG Area
	Noise levels indB(A)	
12.00	53.2	61.2

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL/6/0117

dt 02.02.2017

Description of Test: Ambient Noise level Monitoring –Buffer zone

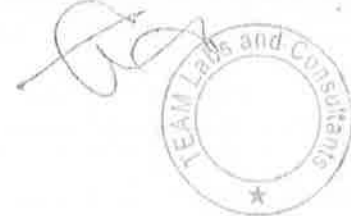
Name of the client: Trlmex Sands. PvtLtd.

Location of sampling: As per details given

Date of monitoring: 23.01.2017

Time Hrs	Srikurmam	Pedda vatsavalasa	Komaravani peta	Chinna Tonangi
	Noise levels indB(A)			
11.00	50.2	57.0	52.2	43.3

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL/7/0117

dt 02.02.2017

Description of Test: Ambient Noise level Monitoring –Core zone

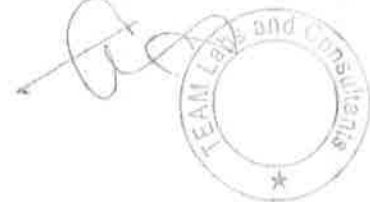
Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: As per details given

Date of monitoring: 24.01.2017

Time Hrs	MSP- South East corner	MSP-North West corner	PCP-East gate	PCP-South West gate
	Noise levels indB(A)			
11.00	56.6	59.0	61.0	52.8

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL-N/02/0117

dt 02.02.2017

Description of Test: Ambient Noise level Monitoring –Core zone
Name of the client: Trlmex Sands Pvt. Ltd.
Location of sampling: New PCP Plant ,Tonangi
Date of monitoring: 23.01.2017

Time Hrs	Security gate	DG Area
	Noise levels indB(A)	
12.00	52.0	60.3

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL/6/1216

dt 03.01.2017

Description of Test: Ambient Noise level Monitoring –Buffer zone
Name of the client: Trlmex Sands. PvtLtd.
Location of sampling: As per details given
Date of monitoring: 30.12.2016

Time Hrs	Srlkurmam	Pedda vatsavalasa	Komaravani peta	Chinna Tonangi
Noise levels indB(A)				
9.00	46.8	45.9	40.8	46.5
10.00	52.6	48.4	39.7	49.7
11.00	49.2	56.1	51.2	41.9
12.00	56.5	55.4	48.6	43.4
13.00	48.1	53.8	45.1	47.6
14.00	50.9	56.1	47.5	48.1
15.00	53.6	49.2	44.6	50.3
16.00	52.4	49.8	42.8	47.2

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL/7/1216

dt 03.01.2017

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:

31.12.2016

Time Hrs	MSP- South East corner	MSP-North West corner	PCP-East gate	PCP-South West gate
Noise levels indB(A)				
09.00	53.8	50.8	62.8	50.6
10.00	51.2	53.5	60.6	50.2
11.00	55.9	57.8	59.5	48.5
12.00	57.3	60.5	61.8	49.6
13.00	56.5	56.1	62.5	56.2
14.00	53.6	55.4	60.4	51.5
15.00	59.2	62.5	59.2	52.3
16.00	51.7	52.9	61.8	50.7

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL-N/02/1216

dt 03.01.2017

Description of Test:

Ambient Noise level Monitoring –Core zone

Name of the client:

Trimex Sands Pvt. Ltd.

Location of sampling:

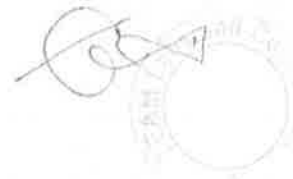
New PCP Plant ,Tonangl

Date of monitoring:

30.12.2016

Time Hrs	Security gate	DG Area
	Noise levels indB(A)	
9.00	49.3	63.2
10.00	49.5	62.7
11.00	48.8	60.8
12.00	51.1	59.9
13.00	53.6	56.6
14.00	45.8	54.9
15.00	48.4	60.3
16.00	45.2	65.2

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL/6/1116

dt 05.12.2016

Description of Test: Ambient Noise level Monitoring –Buffer zone
Name of the client: Trlmex Sands. PvtLtd.
Location of samplng: As per details given
Date of monitoring: 16.11.2016

Time Hrs	Pedda vatsavalasa	Srikurmam	Komaravani peta	Chinna Tonangi
	Noise levels indB(A)			
11.00	54.5	52.4	50.3	52.2

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL/7/1116

dt 05.12.2016

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: **15.11.2016**

Time Hrs	MSP- South East corner	MSP-North West corner	PCP-East gate	PCP-South West gate
	Noise levels indB(A)			
11.00	55.2	57.2	61.5	54.0

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Test Report No .TLC /V/Env/ TSPL-N/02/1116

dt 05.12.2016

Description of Test: Ambient Noise level Monitoring –Core zone

Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: New PCP Plant ,Tonangl

Date of monitoring: 16.11.2016

Time Hrs	Security gate	DG Area
	Noise levels IndB(A)	
11.00	58.0	62.8

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL/6/1016

dt 07.11.2016

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: 18.10.2016

Time Hrs	Pedda vatsavalasa	Srikurmam	Komaravani peta	Chinna Tonangi
	Noise levels IndB(A)			
11.00	19.2	53.8	49.6	51.2

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL/7/1016

dt 07.11.2016

Description of Test: Ambient Noise level Monitoring –Core zone

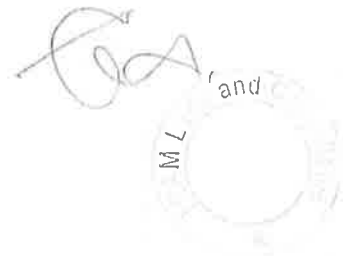
Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: As per details given

Date of monitoring: 17.10.2016

Time Hrs	MSP- South East corner	MSP-North West corner	PCP-East gate	PCP-South West gate
	Noise levels indB(A)			
11.00	54.8	56.0	60.8	51.2

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TEST REPORT

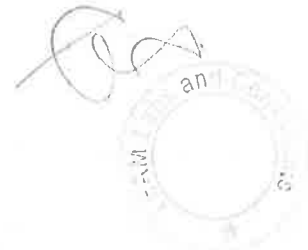
Test Report No .TLC /V/Env/ TSPL-N/02/1016

dt 07.11.2016

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: 18.10.2016

Time Hrs	Security gate	DG Area
	Noise levels indB(A)	
11.00	57.5	68.9

For TEAM Labs and Consultants



Annexure-5



Summary of production details in from Oct-2016 to Mar-2017 (units in MT)							
ROM	Ilmenite	Garnet	Sillimanite	Rutile	Zircon	Total Mineral Qty	Subgrade material & Rejects
2357451	127256	20130	20865	3762	1918	173931	2209095



Plantation Details

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

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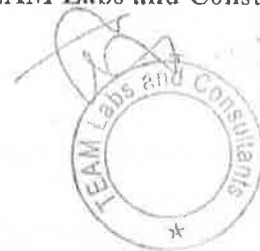
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TEST REPORT

Test Report No. TLC/V/Env/TSPL/8/0317 dt04.04.2017
Description of Test: Phisico-chemical Analysis of Water
Name of the client: Trimex Sands Pvt. Ltd.
Location of sampling: Water samples as per Details given
Date of Sample Collected : 14.03.2017

No	Parameter	Mogadalapadu Open Well water	Parlavanipeta Open Well water	Pedda vatsavalasa Open Well water	Yerraguddi Open Well water	Pedda Tonangi Open Well water
1	pH	8.05	8.15	7..90	8.2	8.05
2	Colour Hazen unlts	5	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	850mgpl	1150mgpl	1950mgpl	610mgpl	1850mgpl
5	Total Suspended Solids	5mgpl	5mgpl	8mgpl	5mgpl	7mgpl
6	Turbidity	4.5 NTU	4.9 NTU	8.5NTU	2.5NTU	8.2 NTU
7	Total Hardness as CaCo3	390 mgpl	190mgpl	490mgpl	105mgpl	460mgpl
8	Calcium as CaCo3	250mgpl	130mgpl	310mgpl	70mgpl	310mgpl
9	Magnesium as CaCo3	140mgpl	60mgpl	180 mgpl	35mgpl	150 mgpl
10	Chlorides Cl-	150mgpl	220mgpl	450mgpl	80mgpl	480mgpl
11	Flouride	0.6mgpl	0.5mgpl	0.5mgpl	0.4mgpl	0.5mgpl
12	Sulphates	70mgpl	170mgpl	235mgpl	75mgpl	275mgpl
13	Nitrates	62.0 mgpl	22.8/ mgpl	32.5 mgpl	3.0 mgpl	7.5 mgpl
14	Phosphates	BDL	BDL	BDL	BDL	BDL
15	Iron	0.06mgpl	0.05mgpl	0.06mgpl	0.05mgpl	0.04mgpl
16	Lead	BDL	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	3.89	3.15	3.8	5.9	

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TEST REPORT

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

dt04.04.2017

Description of Test: Phisico-chemical Analysis of Water

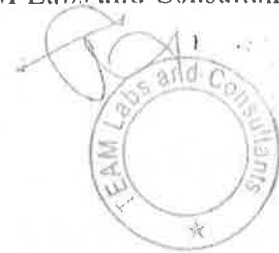
Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: Water samples as per Details given

Date of Sample Collected : 14.03.2017

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

For TEAM Labs and Consultants



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TEST REPORT

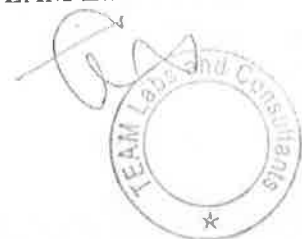
Test Report No. TLC/V/Env/TSPL/10/0317

dt 04.04.2017

Description of Test: Phisico-chemical Analysis of Water
Name of the client: Trimex Sands Pvt. Ltd.
Location of sampling: Water samples as per Details given
Date of Sample Collected : 14.03.2017

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

For TEAM Labs and Consultants



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TEST REPORT

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

dt10.03.2017

Description of Test: Phisico-chemical Analysis of Water

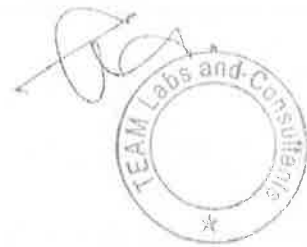
Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: Water samples as per Details given

Date of Sample Collected : 15.02.2017

No	Parameter	Mogadalapadu Open Well water	Parlavanipeta Open Well water	Pedda vatsavalasa Open Well water	Yerraguddi Open Well water	Pedda Tonangi Open Well water
1	pH	7.9	8.05	7.95	8.0	7.7
2	Colour Hazen units	5	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	1010mgpl	1390mgpl	2450mgpl	860mgpl	2200mgpl
5	Total Suspended Solids	5mgpl	5mgpl	8mgpl	5mgpl	7mgpl
6	Turbidity	4.8 NTU	6.9 NTU	12.2NTU	4.5NTU	12.0 NTU
7	Total Hardness as CaCo3	460 mgpl	240mgpl	770mgpl	180mgpl	360mgpl
8	Calcium as CaCo3	290mgpl	150mgpl	510mgpl	120mgpl	230mgpl
9	Magnesium as CaCo3	170mgpl	90mgpl	260 mgpl	60mgpl	130 mgpl
10	Chlorides Cl-	260mgpl	290mgpl	760mgpl	130mgpl	880mgpl
11	Flouride	0.6mgpl	0.5mgpl	0.5mgpl	0.4mgpl	0.5mgpl
12	Sulphates	170mgpl	130mgpl	230mgpl	70mgpl	132mgpl
13	Nitrates	26.0 mgpl	21.0 mgpl	25.5 mgpl	9.0 mgpl	22.0 mgpl
14	Phosphates	BDL	BDL	BDL	BDL	BDL
15	Iron	0.05mgpl	0.05mgpl	0.06mgpl	0.04mgpl	0.05mgpl
16	Lead	BDL	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	3.8	2.95	3.68	5.8	-

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TEST REPORT

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

dt 10.03.2017

Description of Test: Phisico-chemical Analysis of Water

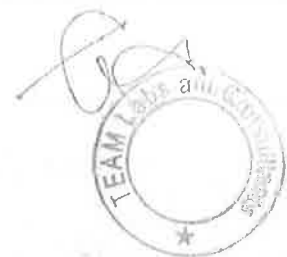
Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: Water samples as per Details given

Date of Sample Collected : 15.02.2017

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

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TEST REPORT

Test Report No.TLC/V/Env/TSPL/10/0217

dt10.03.2017

Description of Test: Phisico-chemical Analysis of Water

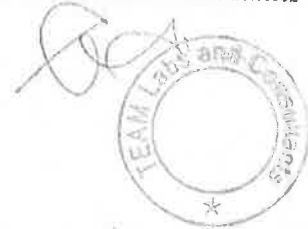
Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: Water samples as per Details given

Date of Sample Collected : 15.02.2017

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

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TEST REPORT

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

dt 02.02.2017

Description of Test: Phisico-chemical Analysis of Water

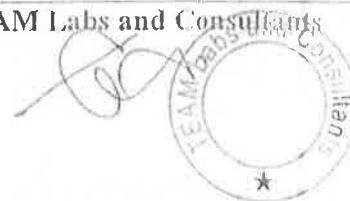
Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: Water samples as per Details given

Date of Sample Collected : 24.01.2017

No	Parameter	Mogadalapadu Open Well water	Parlavanipeta Open Well water	Pedda vatsavalasa Open Well water	Yerraguddi Open Well water	Pedda Tonangi Open Well water
1	pH	7.5	7.80	7.6	8.0	7.6
2	Colour Hazen units	5	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	880mgpl	1350mgpl	2050mgpl	850mgpl	2080mgpl
5	Total Suspended Solids	5mgpl	5mgpl	8mgpl	5mgpl	7mgpl
6	Turbidity	4.0 NTU	6.2 NTU	10.2NTU	2.5NTU	8.5 NTU
7	Total Hardness as CaCo3	440 mgpl	210mgpl	750mgpl	170mgpl	340mgpl
8	Calcium as CaCo3	280mgpl	130mgpl	490mgpl	120mgpl	230mgpl
9	Magnesium as CaCo3	160mgpl	80mgpl	260 mgpl	50mgpl	110 mgpl
10	Chlorides Cl-	240mgpl	270mgpl	740mgpl	120mgpl	860mgpl
11	Flouride	0.6mgpl	0.5mgpl	0.5mgpl	0.4mgpl	0.5mgpl
12	Sulphates	152mgpl	125mgpl	230mgpl	64mgpl	120mgpl
13	Nitrates	24.0 mgpl	18.0 mgpl	20.5 mgpl	4.5 mgpl	17.0 mgpl
14	Phosphates	BDL	BDL	BDL	BDL	BDL
15	Iron	0.03mgpl	0.05mgpl	0.05mgpl	0.03mgpl	0.05mgpl
16	Lead	BDL	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	2.90	2.40	2.5	4.5	-

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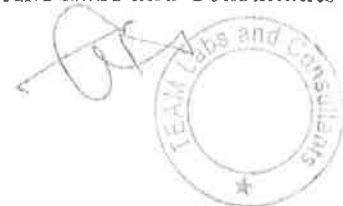
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Test Report No. TLC/V/Env/TSPL/9/0117 dt02.02.2017
Description of Test: Phisico-chemical Analysis of Water
Name of the client: Trimex Sands Pvt. Ltd.
Location of sampling: Water samples as per Details given
Date of Sample Collected : 24.01.2017

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

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TEST REPORTTest Report No. **TLC/V/Env/TSPL/10/0117**dt **02.02.2017**

Description of Test:

Phisico-chemical Analysis of Water

Name of the client:

Trimex Sands Pvt. Ltd.

Location of sampling:

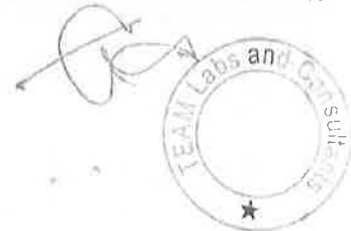
Water samples as per Details given

Date of Sample Collected :

24.01.2017

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

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TEST REPORTTest Report No. **TLC/V/Env/TSPL/8/1216**dt **03.01.2017**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 : **31.12.2016**

No	Parameter	Mogadalapadu Open Well water	Parlavanipeta Open Well water	Pedda vatsavalasa Open Well water	Yerraguddi Open Well water	Pedda Tonangi Open Well water
1	pH	7.7	7.95	7.5	8.25	7.7
2	Colour Hazen units	5	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	980mgpl	1450mgpl	2210mgpl	690mgpl	2290mgpl
5	Total Suspended Solids	5mgpl	5mgpl	8mgpl	5mgpl	7mgpl
6	Turbidity	4.2 NTU	6.9 NTU	9.5 NTU	2.8NTU	9.0 NTU
7	Total Hardness as CaCo3	460 mgpl	200mgpl	740mgpl	180mgpl	360mgpl
8	Calcium as CaCo3	290mgpl	130mgpl	490mgpl	120mgpl	240mgpl
9	Magnesium as CaCo3	170mgpl	70mgpl	250 mgpl	60mgpl	120 mgpl
10	Chlorides Cl-	255mgpl	295mgpl	720mgpl	115mgpl	875mgpl
11	Flouride	0.6mgpl	0.5mgpl	0.5mgpl	0.4mgpl	0.5mgpl
12	Sulphates	150mgpl	135mgpl	260mgpl	70mgpl	115mgpl
13	Nitrates	21.5 mgpl	10.5 mgpl	17.0	1.5 mgpl	16.5 mgpl
14	Phosphates	BDL	BDL	BDL	BDL	BDL
15	Iron	0.03mgpl	0.05mgpl	0.05mgpl	0.03mgpl	0.05mgpl
16	Lead	BDL	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	3.00	2.50	2.5	4.2	.

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TEST REPORT

Test Report No. TLC/V/Env/TSPL/10/1216 dt03.01.2017

Description of Test: Phisico-chemical Analysis of Water

Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: Water samples as per Details given

Date of Sample Collected : 31.12.2016

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

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TEST REPORT

Test Report No. TLC/V/Env/TSPL/9/1216 dt03.01.2017
Description of Test: Phisico-chemical Analysis of Water
Name of the client: Trimex Sands Pvt. Ltd.
Location of sampling: Water samples as per Details given
Date of Sample Collected : 31.12.2016

No	parameter	PCP open well	Tails water	MSP Open well
1	pH	7.5	7.7	7.8
2	Colour Hazen units	5	5	5
3	Odour	un objectionable	un objection able	un objectionable
4	Total Dissolved solids	465	260mgpl	490mgpl
5	Total Suspended Solids	5	5mgpl	5mgpl
6	Turbidity	1.5NTU	2.8NTU	3.0 NTU
7	Total Hardness as CaCo3	170mgpl	60mgpl	220mgpl
8	Calcium as CaCo3	100mgpl	40mgpl	140mgpl
9	Magnesium as CaCo3	70mgpl	20mgpl	80mgpl
10	Chlorides Cl-	140mgpl	70mgpl	75mgpl
11	Flouride	0.5 mgpl	0.4mgpl	0.4mgpl
12	Sulphates	35mgpl	22mgpl	28mgpl
13	Nitrates	0.5mgpl	0.5mgpl	0.5 mgpl
14	Phosphates	BDL	BDL	BDL
15	Iron	0.04mgpl	0.03mgpl	0.04mgpl
16	Lead	BDL	BDL	BDL
	Water table from groundlevel inmtrs	1.5	-	2.0

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TEST REPORT

Test Report No. **TLC/V/Env/TSPL/8/1116** dt **05.12.2016**
Description of Test: **Phisico-chemical Analysis of Water**
Name of the client: **Trimex Sands Pvt. Ltd.**
Location of sampling: **Water samples as per Details given**
Date of Sample Collected : **15.11.2016**

No	Parameter	Mogadalapadu Open Well water	Parlavanipeta Open Well water	Pedda vatsavalasa Open Well water	Yerraguddi Open Well water	Pedda Tonangi Open Well water
1	pH	7.9	8.05	7.8	7.9	7.4
2	Colour Hazen units	5	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved sollds	1150mgpl	1250mgpl	1980mgpl	650mgpl	2150mgpl
5	Total Suspended Solids	5mgpl	5mgpl	5mgpl	5mgpl	8mgpl
6	Turbidity	3.5 NTU	4.6 NTU	7.2 NTU	2.0NTU	8.8 NTU
7	Total Hardness as CaCo3	450 mgpl	180mgpl	480mgpl	130mgpl	430mgpl
8	Calcium as CaCo3	300mgpl	120mgpl	310mgpl	90mgpl	280mgpl
9	Magnesium as CaCo3	150mgpl	60mgpl	170 mgpl	40mgpl	150 mgpl
10	Chlorides Cl-	260mgpl	280mgpl	455mgpl	90mgpl	690mgpl
11	Flouride	0.6mgpl	0.5mgpl	0.5mgpl	0.4mgpl	0.5mgpl
12	Sulphates	105mgpl	32mgpl	105mgpl	30mgpl	75mgpl
13	Nitrates	19.5 mgpl	19.0 mgpl	18.0mgpl	15.0 mgpl	22.0 mgpl
14	Phosphates	BDL	BDL	BDL	BDL	BDL
15	Iron	0.04mgpl	0.05mgpl	0.04mgpl	0.03mgpl	0.05mgpl
16	Lead	BDL	BDL	BDL	BDL	BDL
	Water table from ground level In mtrs	3.2	2.70	2.6	4.1	

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TEST REPORT

Test Report No.TLC/V/Env/TSPL/9/1116 dt05.12.2016

Description of Test: Phisico-chemical Analysis of Water
Name of the client: Trlmex Sands Pvt. Ltd.
Location of sampling: Water samples as per Details given
Date of Sample Collected : 15.11.2016

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

For TEAM Labs and Consultants

Labs and Consultants

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TEST REPORT

Test Report No.TLC/V/Env/TSPL/8/1016 dt07.11.2016
Description of Test: Phisico-chemical Analysis of Water
Name of the client: Trimex Sands Pvt. Ltd.
Location of sampling: Water samples as per Details given
Date of Sample Collected : 17.10.2016

No	Parameter	Mogadalapadu Open Well water	Parlavanipeta Open Well water	Pedda vatsavalasa Open Well water	Yerraguddi Open Well water	Pedda Tonangi Open Well water
1	pH	8.15	7.95	8.0	7.8	7.4
2	Colour Hazen units	5	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	1120mgpl	1450mgpl	1520mgpl	690mgpl	2100mgpl
5	Total Suspended Solids	5mgpl	5mgpl	5mgpl	5mgpl	9mgpl
6	Turbidity	3.3 NTU	5.0 NTU	6.0 NTU	2.0NTU	9.0 NTU
7	Total Hardness as CaCo3	440 mgpl	190mgpl	450mgpl	135mgpl	410mgpl
8	Calcium as CaCo3	290mgpl	120mgpl	290mgpl	90mgpl	270mgpl
9	Magnesium as CaCo3	15mgpl	70mgpl	160 mgpl	45mgpl	140 mgpl
10	Chlorides Cl-	270mgpl	290mgpl	430mgpl	95mgpl	710mgpl
11	Flouride	0.6mgpl	0.5mgpl	0.5mgpl	0.4mgpl	0.5mgpl
12	Sulphates	110mgpl	30mgpl	98mgpl	35mgpl	60mgpl
13	Nitrates	15.5 mgpl	11.5 mgpl	11.0mgpl	11.5 mgpl	19.0 mgpl
14	Phosphates	BDL	BDL	BDL	BDL	BDL
15	Iron	0.03mgpl	0.04mgpl	0.04mgpl	0.03mgpl	0.05mgpl
16	Lead	BDL	BDL	BDL	BDL	BDL
	Water table from ground level In mtrs	2.35	2.40	1.55	3.1	

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TEST REPORT

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

Description of Test: Physico-chemical Analysis of Water

Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: Water samples as per Details given

Date of Sample Collected : 17.10.2016

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

For TEAM Labs and Consultants

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TEST REPORT

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

dt07.11.2016

Description of Test: Physico-chemical Analysis of Water

Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: Water samples as per Details given

Date of Sample Collected : 17.10.2016

No	Parameter	Komara vanipeta O. W. water	Bandaruvani peta O. W. water	Chinatonangi open well water	Batchuvanipeta open well water
1	pH	7.4	7.3	7.5	7.3
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	1510mgpl	890mgpl	540mgpl	1880mgpl
5	Total Suspended Solids	5mgpl	5mgpl	5mgpl	5mgpl
6	Turbidity	4.2 NTU	4.9 NTU	3.0NTU	8.9 NTU
7	Total Hardness as CaCo3	530mgpl	480mgpl	180mgpl	750mgpl
8	Calcium as CaCo3	360mgpl	290mgpl	110mgpl	480mgpl
9	Magnesium as CaCo3	170mgpl	190 mgpl	70mgpl	270mgpl
10	Chlorides Cl-	330mgpl	170mgpl	105mgpl	940mgpl
11	Flouride	0.5mgpl	0.5mgpl	0.4mgpl	0.6mgpl
12	Sulphates	63mgpl	45mgpl	40mgpl	155mgpl
13	Nitrates	27.0 mgpl	12.0 mgpl	9.0mgpl	12.0 mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.06mgpl	0.04gpl	0.04mgpl	0.06mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	2.3	2.20	1.2	1.70

For TEAM Labs and Consultants

Piezometer Monitoring for the month of January-2017

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

Piezometer Monitoring for the month of February-2017

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

Piezometer Monitoring for the month of March-2017

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

Piezometer Monitoring for the month of October-2016

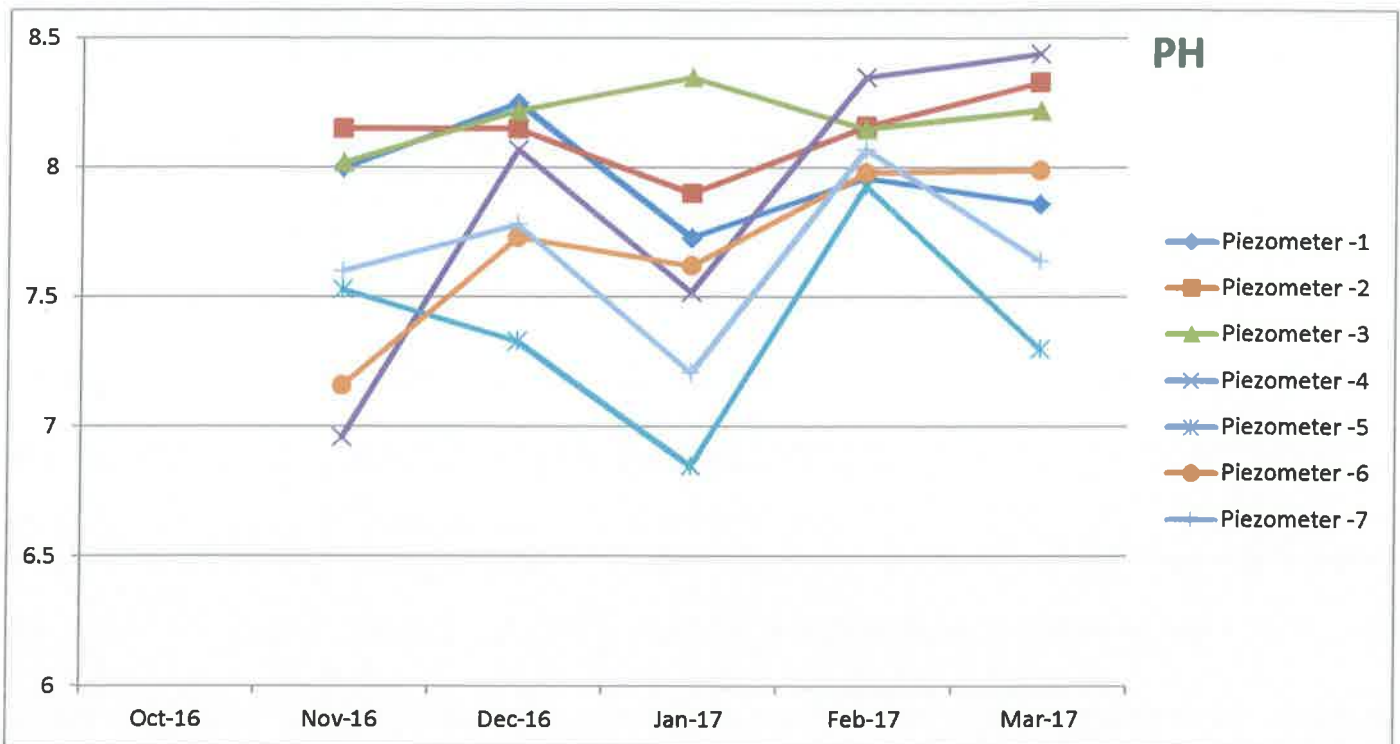
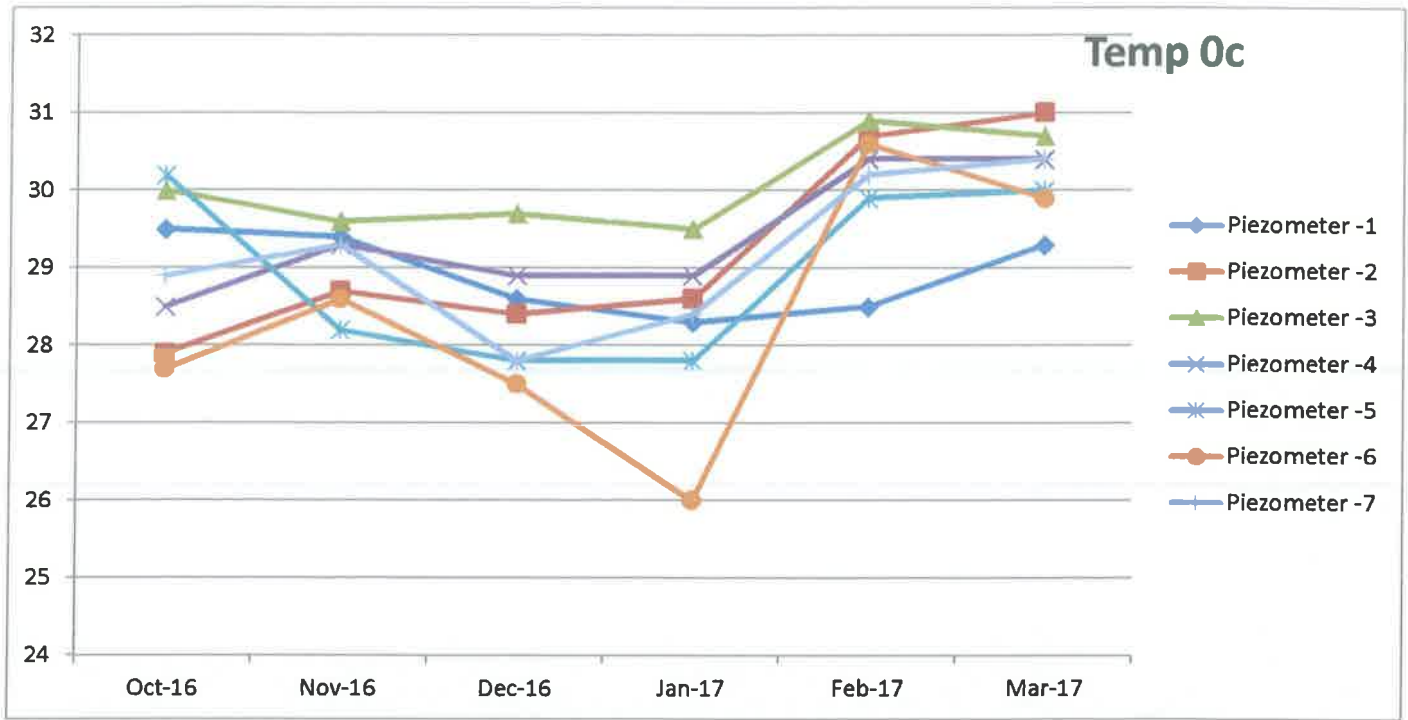
Location	Date	Time	Temp (C)	pH	EC (uS/cm @25C)	TDS (mg/L)	SAL (PSU)	Water Table	+MSL
PM-1	29-Oct-16	13:33:28	29.5	8.04	618	401	0.26	0.280	
PM-2	29-Oct-16	12:45:41	27.9	8.39	257	167	0.08	6.044	
PM-3	29-Oct-16	12:55:19	30.0	8.26	387	251	0.12	6.216	
PM-4	29-Oct-16	12:13:13	28.5	7.37	329	213	0.10	3.210	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

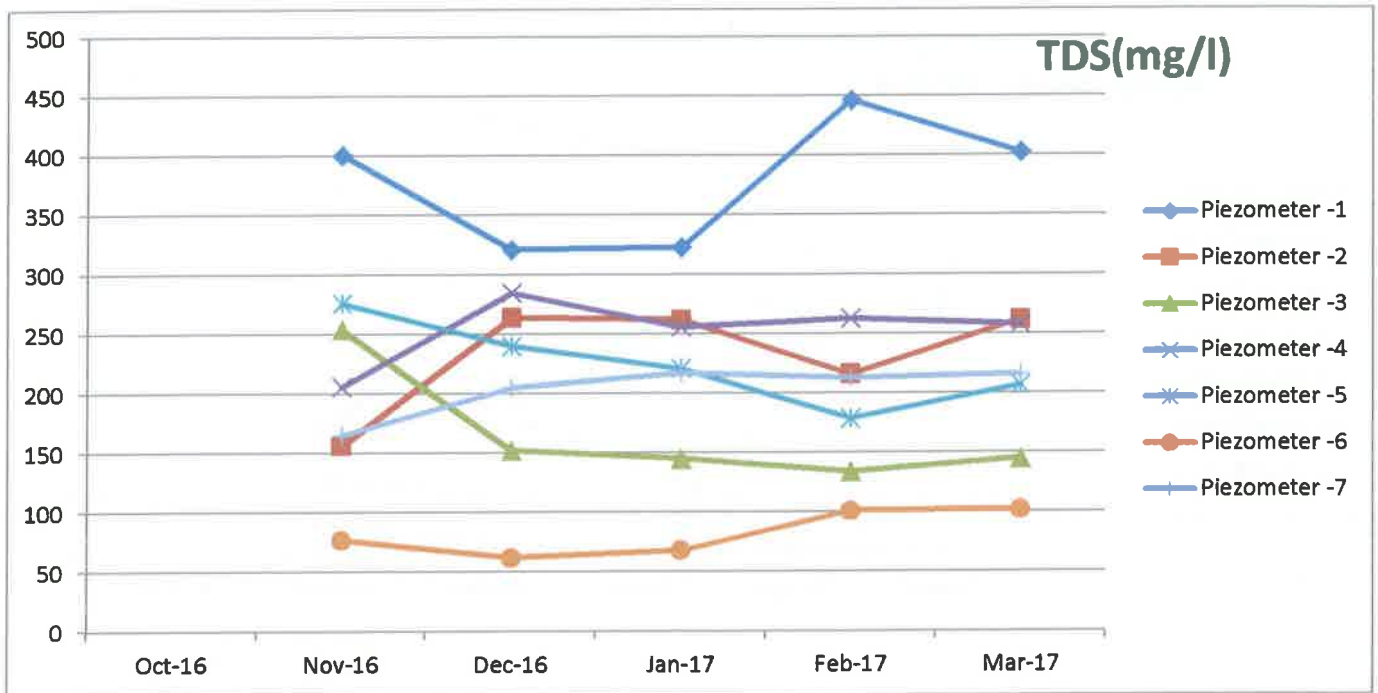
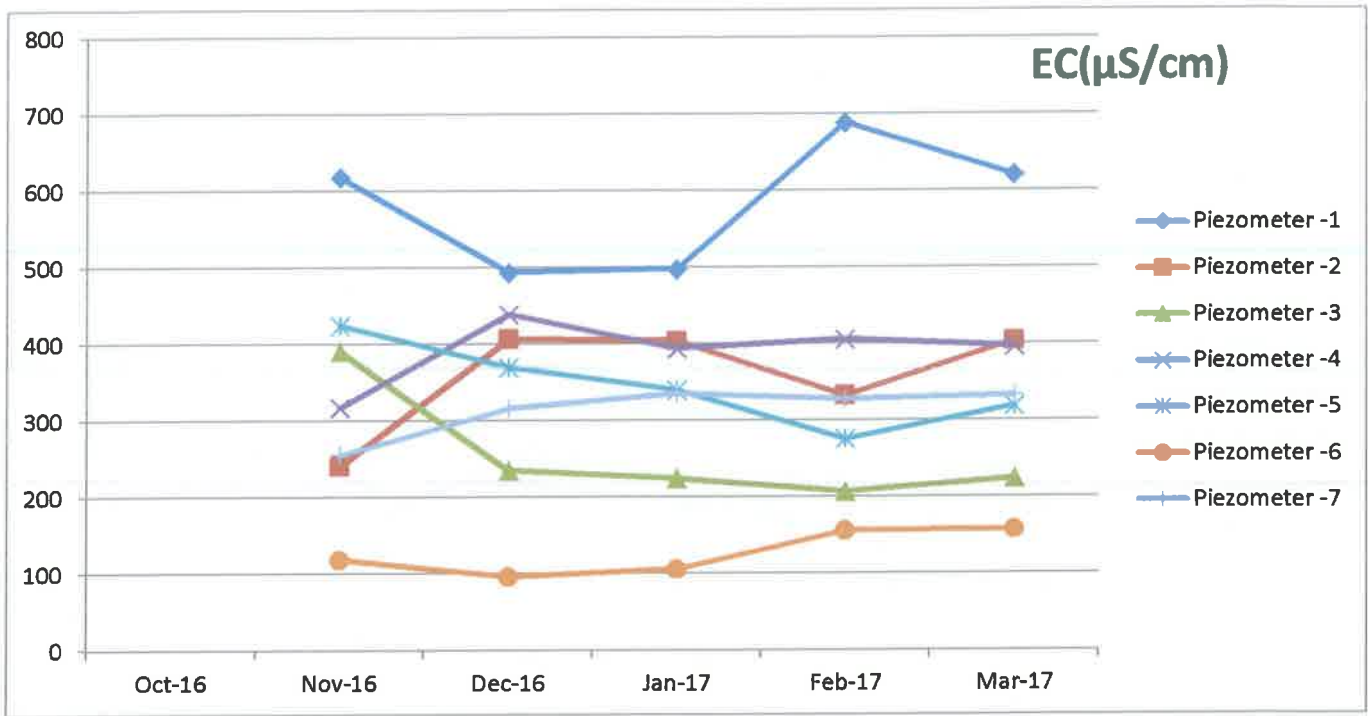
Piezometer Monitoring for the month of November-2016

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

Piezometer Monitoring for the month of December-2016

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







Annexure - 8

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

Srikakulam,
13.08.2016

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

Dear Sir,

Sub: Environmental Statement – Form-V - 2015-16 – Reg.
Ref: APPCB/VSP/VZM/152/HO/CFO/2015 Dated 30.10.2015

As per the reference cited, please find herewith Environmental Statement in Form-V for the financial year 2015-16.

Thanking You

Yours faithfully

Vice President
Mining

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

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

CIN: U14299TN2004PTC071437

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TEST REPORT

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

dt 04.04.2017

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

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

For TEAM Labs and Consultants



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TEST REPORT

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

dt 10.03.2017

Description of Test: Stack Emissions Analysis

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

Location of sampling: Baghouse attached to IRZ Dryer

Date of Sampling: 14.02.2017

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

For TEAM Labs and Consultants



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TEST REPORT

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

dt 02.02.2017

Description of Test: Stack Emissions Analysis

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

Location of sampling: Baghouse attached to IRZ Dryer

Date of Sampling: 23.01.2017

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

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TEST REPORT

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

dt 03.01.2017

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

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

For TEAM Labs and Consultants

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TEST REPORT

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

dt 05.12.2016

Description of Test:

Stack Emissions Analysis

Name of the client:

Trimex Sands Pvt. Ltd. Vatchavalasa, Srikakulam Dt.

Location of sampling:

Baghouse attached to IRZ Dryer

Date of Sampling:

15.11.2016

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

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

dt 07.11.2016

Description of Test:

Stack Emissions Analysis

Name of the client:

Trlmex Sands Pvt. Ltd. Vatchavalasa, Srikakulam Dt.

Location of sampling:

Baghouse attached to IRZ Dryer

Date of Sampling:

17.10.2016

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

For TEAM Labs and Consultant



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TEST REPORT

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

dt 04.04.2017

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

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

For TEAM Labs and Consultant



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, Gov. New Delhi

TEST REPORT

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

dt03.01.2017

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

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

For TEAM Labs and Consultants

Back filling



Water Sprinkling on Haul Roads



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

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

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

Date: 2 MAR 2017

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

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

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

Sir,

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

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

Yours faithfully,

(Pankaj Kulkarni)
Regional controller of Mines



Annexure-III

TSPL/MIN/AERB/16-17/1071

10-05-2017
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 Jan to Mar, 2017.

Thanking You,

Yours truly,

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

Vice President (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: 10-05-2017.

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

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

		No. of persons monitored	Collective dose (person-mSv)	Average Individual dose (mSv)	Maximum Individual dose (mSv)
Quarter	Regular	29	6.65	0.23	1.00
	Temporary	NIL	NIL	NIL	NIL
Cumulative in the year	Regular	29	6.65	0.23	1.00
	Temporary	NIL	NIL	NIL	NIL

1.1 INDIVIDUAL DOSE STATICS

Dose range(mSv)	Number of person in year		
	Regular	Temporary	Total
Less than 2	29	NIL	29
2-6	NIL	NIL	NIL
>6-20	NIL	NIL	NIL
>20-30	NIL	NIL	NIL
>30	NIL	NIL	NIL
Total	29	NIL	29

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)	1104732	162944(*)	---	59300	2028	971	9294	12154	941788	60253	594
Monazite (%)	0.125	IRZ - 0.666 GA - 0.095 SI - 0.036	---	0.031	0.071	0.210	0.030	0.010	0.055	0.518	63.725

(*) 18350 MT of Concentrate material generated from Pre-Concentration Plant was stored inside the PCP premises.

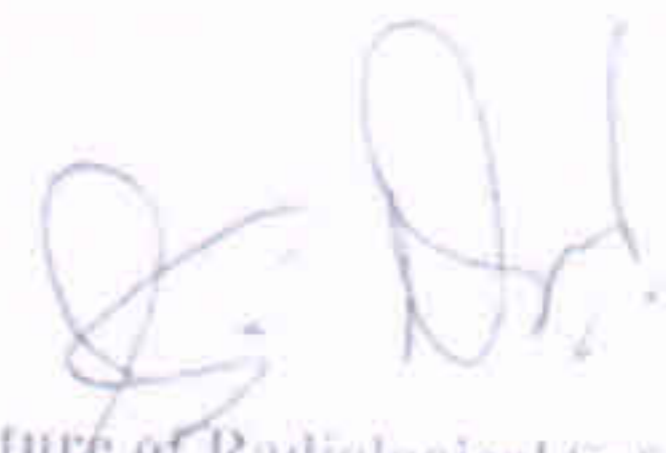
METHOD OF DISPOSAL OF MONAZITE ENRICHED TAILINGS (Tick whichever is applicable)

- 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 - 0.7
Backfilled Area	0.1-0.2
Pre Concentration Plant	
• General Background	0.2-0.4
• Raw material Storage	0.5 - 0.7
• Pre Concentration Plant out put	IRZ con : 2 - 3 GA con : 0.1-0.4 Sil con : 0.1-0.3
• 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 : 0.2 - 0.3 Sil con : 0.1 - 0.2
• Inside Mineral Separating plant(eg Magnetic, High tension separators)	0.6 - 0.9
• Monazite Enriched tailings storage area	40-80
• On Top of Trenches filled with monazite enriched tailings and topped with silica rich sand	0.3 - 0.4
• 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.
VATSAVAI (SA/IV), GARA (M)
SRIKAKULAM DIST - 537 404, A.P.

AVANTTEC LABORATORIES (P) LTD.,
 No. 17, Aringar Anna Industrial Estate, Mettukuppam Vanagararam, Chennai - 600 095
 Personnel Monitoring Service

Institution No. 015026
 Address: TRIMEX SANDS PVT LTD
 VATSAVALASA (V), GARRA (M),
 SRIRAKKULAM (DIST),
 SRIRAKKULAM, ANDHRA PRADESH,
 INDIA - 532404

SERVICE FREQUENCY: YEAR 2017
 Report Date: 25/04/2017

Pers. No.	Name	Worn At	Whole Body Dose (mSv)				Current Year	Beta Dose (mSv)	Beta Total (mSv)	Worst Dose (mSv) (MG) * 8 = Total	Worst Total mSv
			Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec					
1	0006 RAJUM	C	0.00	-	-	-	0.00	-	-	-	
2	0008 RAMAKRISHNA.P	C	0.05	-	-	-	0.05	-	-	-	
3	0011 SATYAM.T	C	0.05	-	-	-	0.05	-	-	-	
4	0013 KAMA RAJU.T	C	0.05	-	-	-	0.05	-	-	-	
5	0014 RAMA RAO.P	C	0.00	-	-	-	0.00	-	-	-	
6	0015 VENKATA RAO.P	C	0.05	-	-	-	0.00	-	-	-	
7	0016 RAMA RAO.T	C	0.00	-	-	-	0.05	-	-	-	
8	0017 SIMHACHALAM THAMADA	C	0.50	-	-	-	0.00	-	-	-	
9	0018 RADHA KRISHNA.K	C	0.05	-	-	-	0.50	-	-	-	
10	0019 SIMHACHALAM TELUKUTI	C	0.55	-	-	-	0.05	-	-	-	
11	0020 RAMA RAO.M	C	1.00	-	-	-	0.55	-	-	-	
12	0021 NARAYANA RAO.D	C	0.55	-	-	-	1.00	-	-	-	
13	0022 DANAYYA.T	C	0.45	-	-	-	0.55	-	-	-	
14	0023 RAMA RAJU.S	C	0.00	-	-	-	0.45	-	-	-	
15	0024 SRINUVA.SA.RAO.B	C	0.45	-	-	-	0.00	-	-	-	
16	0025 BHAGAVAN.D	C	0.00	-	-	-	0.45	-	-	-	
17	0029 SHRILAKSHMI NAGA RAJU	C	0.05	-	-	-	0.00	-	-	-	
18	0032 SHRISAMPATHI RAO PRASANN	C	0.00	-	-	-	0.05	-	-	-	
19	0034 Dr.VENKATESH.B	C	0.00	-	-	-	0.00	-	-	-	
20	0035 SHRI.SHAIK NAZEER	C	0.00	-	-	-	0.00	-	-	-	
21	0036 SHRIANVESH MAWIDI	C	0.00	-	-	-	0.00	-	-	-	
22	0037 SHRIAPPALA MAIDUP	C	0.05	-	-	-	0.01	-	-	-	
23	0038 SHRI.BHANOJI RAO.B	C	0.05	-	-	-	0.00	-	-	-	
24	0039 SHRI.RAMA RAO.D	C	0.60	-	-	-	0.05	-	-	-	
25	0040 SHRI.GOVINDA RAO.J	C	0.05	-	-	-	0.60	-	-	-	
26	0041 SHRI.RAMANA MURTHY.CH	C	0.65	-	-	-	0.05	-	-	-	
27	0042 SHRI.TANADA APPANNA	C	0.00	-	-	-	0.65	-	-	-	
28	0043 SHRI.NARAYANASWAMI.T	C	0.55	-	-	-	0.00	-	-	-	
29	0044 SHRI.RAMA KRISHNA.K	C	0.50	-	-	-	0.55	-	-	-	
			0.45	-	-	-	0.50	-	-	-	
							0.45	-	-	-	

Institution No . 015026

#	Pers Name	Job At	Whole Body Dose (mSv)				Current Year	Beta Dose (mSv)	Beta Total (mSv)	Whole Dose (mSv) (X/G)+B = Total	Whole Total mSv
			Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec					

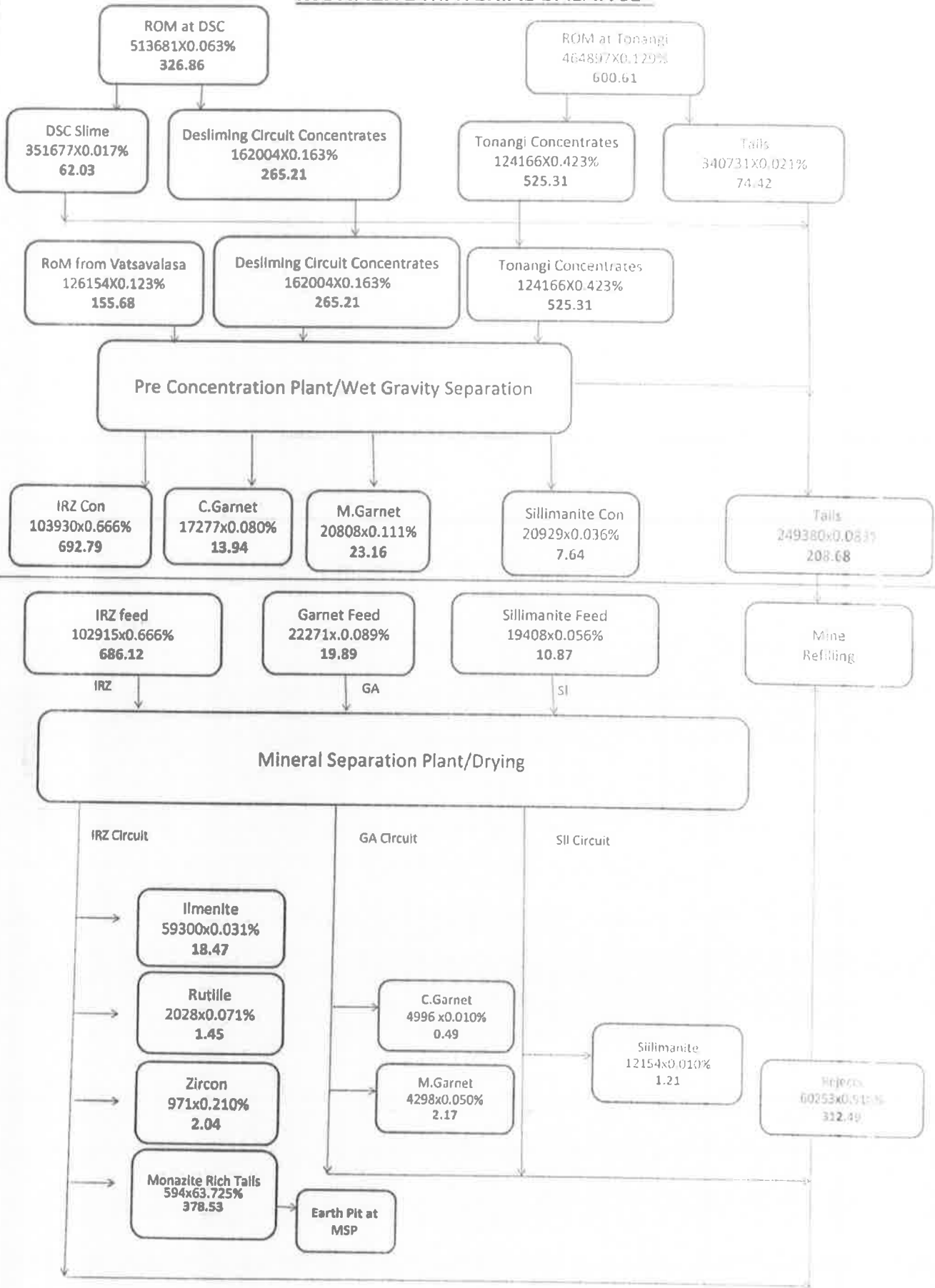
Notes :

1. All doses are reported in millisievert (mSv=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, BE TA=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/ 1055

10-02-2017,
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 Oct to Dec, 2016.

Thanking You,

Yours truly,

A handwritten signature in black ink, consisting of several overlapping loops and a long horizontal stroke at the bottom.

Vice President (Mines)

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

Date: 10-02-2017.

Name of the facility

: TRIMEX SANDS PVT.LTD.

Location of the facility

: SRIKAKULAM, ANDHRAPRADESH.

Period Reporting

: Oct 2016 to Dec 2016.

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

Quarter	No. of persons monitored		Collective dose (person-mSv)	Average Individual dose (mSv)	Maximum Individual dose (mSv)
	Regular	Temporary			
Cumulative in the year	Regular	34	4.70	0.14	1.30
	Temporary	NIL	NIL	NIL	NIL

1.1 INDIVIDUAL DOSE STATICS

Dose range(mSv)	Number of person in year		
	Regular	Temporary	Total
Less than 2	34	NIL	34
2-6	NIL	NIL	NIL
>6-20	NIL	NIL	NIL
>20-30	NIL	NIL	NIL
>30	NIL	NIL	NIL
Total	34	NIL	34

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)	1279520	177683(*)	---	67956	1734	947	10836	8711	1101837	70159	432
Mona zite (%)	0.085	IRZ - 0.569 GA - 0.128 SI - 0.115	---	0.053	0.066	0.206	0.067	0.030	0.027	0.379	0.53

(*) 16708 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 ($\mu\text{Ci/hr}$)
Mining Area	0.5 – 0.7
Backfilled Area	0.1–0.2
Pre Concentration Plant	
• General Background	0.2–0.4
• Raw material Storage	0.5 – 0.7
• Pre Concentration Plant out put	IRZ con : 2 – 3 GA con : 0.1–0.3 Sil con : 0.1–0.4
• 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 : 0.1 – 0.4 Sil con : 0.2 – 0.4
• Inside Mineral Separating plant(eg Magnetic, High tension separators)	0.6 – 1.0
• Monazite Enriched tailings storage area	70–90
• On Top of Trenches filled with monazite enriched tailings and topped with silica rich sand	0.3 – 0.5
• Inside chemical processing plant having minerals separation unit (roaster ,calciner, digester, effluent, pipelines like iron oxide slurry pipe lines etc)	-NA-

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



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

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

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

SRVICE FREQUENCY : QUARTERLY YEAR : 2016

Institution No : 015026

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

Report Date : 28/01/2017

Pers. No.	Name	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					
1	0006 RAJU.M	C	0.00	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	0.15	0.00	---	---	---	
4	0010 SRIRAMULU.D	C	0.00	0.00	-	-	0.00	---	---	---	
5	0011 SATYAM.T	C	0.00	0.00	0.00	0.30	0.35	---	---	---	
6	0013 KAMA RAJU.T	C	0.05	0.00	0.00	0.15	0.15	---	---	---	
7	0014 RAMA RAO.P	C	0.00	0.00	0.00	0.15	0.20	---	---	---	
8	0015 VENKATA RAO.P	C	0.05	0.00	0.00	0.00	0.00	---	---	---	
9	0016 RAMA RAO.T	C	0.00	0.00	0.00	0.00	0.10	---	---	---	
10	0017 SIMHACHALAM.THAMADA	C	0.10	0.00	0.00	0.30	0.30	---	---	---	
11	0018 RADHA KRISHNA.K	C	0.00	0.00	0.00	1.20	1.20	---	---	---	
12	0019 SIMHACHALAM.TELUKUTI	C	0.00	0.00	0.00	0.35	0.35	---	---	---	
13	0020 RAMA RAO.M	C	0.00	0.00	0.00	0.20	0.20	---	---	---	
14	0021 NARAYANA.RAO.D	C	0.00	0.00	0.00	0.25	0.25	---	---	---	
15	0022 DANAYYA.T	C	0.00	0.00	0.00	0.00	0.00	---	---	---	
16	0023 RAMA RAJU.S	C	0.00	0.00	0.00	0.20	0.20	---	---	---	
17	0024 SRIJAYASA.RAO.B	C	0.10	1.00	0.00	0.15	0.15	---	---	---	
18	0025 BHAGAVAN.D	C	0.00	0.00	0.00	-	0.00	---	---	---	
19	0026 SHRIBALAGA.SRAVAN.KUMAR	C	0.00	0.00	0.00	0.00	0.00	---	---	---	
20	0029 SHRILAKSHMI.NAGA.RAJU	C	0.00	0.00	0.00	0.00	0.00	---	---	---	
21	0030 SHREEMATHYAPILLI.SRINU	C	0.00	0.00	-	-	0.00	---	---	---	
22	0032 SHRI.SAMPATHI.RAO.PRASANNI	C	0.00	0.00	0.00	0.00	0.00	---	---	---	
23	0033 SHRIKARU.ARUN.KUMAR	C	0.00	0.00	-	-	0.00	---	---	---	
24	0034 DR.VENKATESHA.B	C	-	-	-	-	0.00	---	---	---	
25	0035 SHRISHANK.NAZEER	C	-	-	-	-	0.00	---	---	---	
26	0036 SHRIKAVESH.WAMIDA	C	-	-	-	-	0.00	---	---	---	
27	0037 SHRIAPPALA.NANDU.P	C	-	-	-	-	0.00	---	---	---	
28	0038 SHRIBHANOJU.RAO.B	C	-	-	-	-	0.00	---	---	---	
29	0039 SHRIRAMA.RAO.D	C	-	-	-	-	0.00	---	---	---	

Institution No. 015026

#	ID No.	Name	Worn At	Whole Body Dose (mSv)					Current Year Total	Beta Dose (mSv)	Beta Total (mSv)	Wrist Dose (mSv)	Wrist Total (mSv)
				Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Total					
30	0040	SHRI GOVINDA RAO J	C	*	*	*	0.00	0.00	***	***	***	***	
31	0041	SHRI RAMANA MURTHY CH	C	*	*	*	0.00	0.00	***	***	***	***	
32	0042	SHRI TAMADA APPANNA	C	*	*	*	0.00	0.00	***	***	***	***	
33	0043	SHRI NARAYANASWAMI T	C	*	*	*	0.00	0.00	***	***	***	***	
34	0044	SHRI RAMA KRISHNA K	C	*	*	*	0.00	0.00	***	***	***	***	

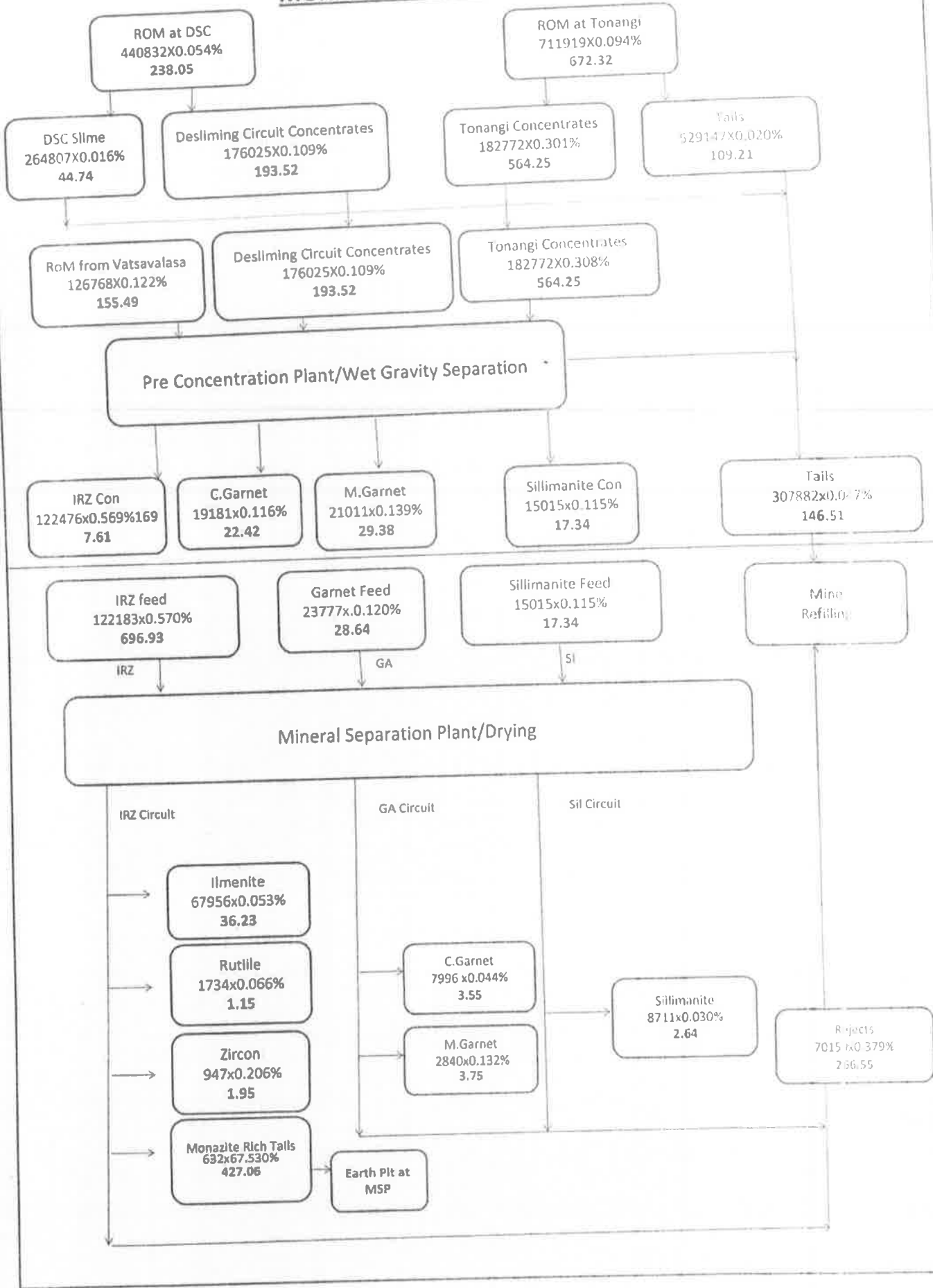
Notes :

1. All doses are reported in millisievert (1mSv=100mRem).
2. No Dose reported for new person unless PDF received
3. When more than one card is used dose is added.
4. Dose below measurable level for X-RAY=0.05 mSv, BE TA=50 mSv and GAMMA=10 mSv is shown zero
5. Annual effective dose in any calendar year shall not exceed 30 mSv.
6. Cumulative effective dose for a block of sliding 5 years (current year + previous 4 years) is 100 mSv
7. * means in the service period dosimeter not used
8. *** means Total dose > 20mSv. Inform details of the radiation work/practice to BAPCA/ERRE
9. ** means TLD cards are spoiled or contaminated
10. **** means letter sent regarding over exposure > 100 mSv.

Authenticated By

P. AYAPPAN
SR.SCIENTIFIC OFFICER

MONAZITE MATERIAL BALANCE





O/c

Annexure-15

TSPL/ENV/HW/PCB/2016-17/1066

Srikanth
12-01-2017

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

Dear Sir,

Sub: HWM - Six copy manifest – submission - Reg.
Ref: APPCB/VSP/VIZ/51/HWM dt: 01.09.2012 &
11084/PCB/ZO-VSP/Tech/HWA/2014-741 dt. 19.09.2014

Please refer herewith **attached used / waste lubricant oil disposal details in form 9 - Hazardous waste manifest for Jan to Mar, 2017.**

Thanking You,

Yours faithfully,

Vice President (Mines)

Cc:

The Environmental Engineer, AP Pollution Control Board, Regional Office,
Plot No. 11, 1st Floor, Shivaji Colony, Pradeep Nagar, Vizianagaram-2

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, Tamil Nadu, India.
Tel: +91 44 2498 8822 / 8813 Fax: +91 44 2498 6047 web: www.trimexsands.com

CIN: U14299TN2004PTC071437

 O/c
TRIMEX

TSPL/ENV/HW/PCB/2016-17/1045

Srikakulam,
03-01-2017

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

Dear Sir,

Sub: HWM - Six copy manifest - submission - Reg.
Ref: APPCB/VSP/VIZ/51/HWM dt: 01.09.2012 &
11084/PCB/ZO-VSP/Tech/HWA/2014-741 dt: 19.09.2014

Please refer herewith attached used / waste lubricant oil disposal details in form 9 -
Hazardous waste manifest for Oct to Dec, 2016.

Thanking You,

Yours faithfully,



Vice President (Mines)

Cc:

The Environmental Engineer, AP Pollution Control Board, Regional Office,
Plot No. 11, 1st Floor, Shivaji Colony, Pradeep Nagar, Vizianagaram-2



Trimex Sands Pvt Ltd: Vatchavalasa (V), Gara Mandar, Srikakulam District - 522 404, 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. 14, Banjara Hills, Hyderabad - 500 074, Andhra Pradesh, India
Tel: +91 40 2338 4380 / 3471 3600, Fax: +91 40 2338 4008

Reg. Office: Trimex Towers, No 1, Subbaraya Avenue, C. J. Ramaswamy Block, Government, Income Tax Office, Hyderabad - 500 011, Andhra Pradesh, India
Tel: +91 44 2498 8822 / 8811, Fax: +91 44 2498 6000, web: www.trimexsands.com

CIN: U14299TN2004PTC071437

TRIMEX

O/c.

Annexure-16

TSPL/ENV/HW/PCB/2017-18/

To
The Environmental Engineer
AP Pollution Control Board
Paryavaran Bhavan, A3, II
Sanathnagar
Hyderabad- 38

Dear Sir,

Sub: HWM filing annual returns in form-4
Ref: APPCB/VSP/VZM/152/HO/CFO/2015 dated 30.10.2015

As per reference cited, please find herewith attached the annual returns of hazardous waste in form-4 for the year 2016-17.

Thanking You,

Yours faithfully,



Vice President (Mines)

Cc:

The Environmental Engineer, AP Pollution Control Board, Regional Office,
Plot No. 11, 1st Floor, Shivaji Colony, Pradeep Nagar, Vizianagaram-2

Trimex Sands Pvt Ltd: Vachavalasa (V), Gara Mandal, Srikalahasti District - 512304, Andhra Pradesh, India
Tel: +91 8942 283755, Fax: +91 8942 283760, Email: info@trimexsands.com

Hyderabad Office: 2nd Floor, Sri Durga Towers, Plot No. 203, Road No. 10, Banjara Hills, Hyderabad, India
Tel: +91 40 23384380 / 3371 3000 Fax: +91 40 23384000

Reg. Office: Trimex Towers, No.1 Subbaraya Avenue, C.P. Ramaswamy Road, Hyderabad, India
Tel: +91 44 2498 8822 / 8813 Fax: +91 44 2498 8822 web: www.trimexsands.com

CIN: U14299TN2004PTC071437



TRIMEX

02

Annexure-17

TSPL/ENV/PCB/2016-17/1038

Srikakulam
29.11.2016

To
The Environmental Engineer
AP Pollution Control Board
Paryavaran Bhavan, A3, Industrial Estate
Sanathnagar
Hyderabad - 38

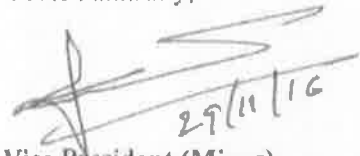
Dear Sir,

Sub: CFO Half yearly Compliance report - Reg.

Please find herewith attached half yearly compliance report for the period of
Apr'16 - Sep'16 in respect of CFO granted vide order no: APPCB/VSP/VZM/152/HO/2015,
dated 30-10-2015.

Thanking You,

Yours Faithfully,


29/11/16

Vice President (Mines)

Cc :

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



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

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

Reg. Office: Trimex Towers, No.1 Subbaraya Avenue, C.P Ramaswamy Road, Alwarpet, Chennai - 600 017, Tamil Nadu, India
Tel: +91 44 2498 8822 / 8813 Fax: +91 44 2498 6047 web: www.trimexsands.com

CIN: U14299TN2004PTC071437