



O/c.

TSPL/ENV/PCB/2017-18/1125

Srikakulam
25.11.2017

To

The Environmental Engineer,
AP Pollution Control Board,
Door No: 33-26-14D/2, Near Sunrise Hospital,
Pushpa Hotel Centre, Chalamvari Street,
Kasthuribhai Peta, Vijayawada – 520 010. A.P.

Dear Sir,

Sub: CFO Half yearly Compliance report - Reg.

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

Thanking You,

Yours Faithfully,

Sr. 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.
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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.
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 and other 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 industrial premises without obtaining prior permission of the State Pollution Control Board.	Will be ensured.
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 herby 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 colspan="2">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 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 Apr'17 – Sep'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. 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 in the year (up to Sep, 2017) are 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.	11 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 27.09.17 for the year 2016-17 vide Letter No: TSPL/ENV/PCB/ES/2017-18/1107, 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.

Wet & Dry Plants, Vatsavalasa(V)

17	<p>The emissions shall not contain constituents in excess of the prescribed limits mentioned below.</p> <table border="1" data-bbox="201 371 1066 443"> <thead> <tr> <th data-bbox="201 371 491 405">Chimney No.</th> <th data-bbox="491 371 759 405">Parameter</th> <th data-bbox="759 371 1066 405">Emission Standards</th> </tr> </thead> <tbody> <tr> <td data-bbox="201 405 491 443">1 to 5</td> <td data-bbox="491 405 759 443">Particulate matter</td> <td data-bbox="759 405 1066 443">115mg/Nm³</td> </tr> </tbody> </table>	Chimney No.	Parameter	Emission Standards	1 to 5	Particulate matter	115mg/Nm ³	<p>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</p>
Chimney No.	Parameter	Emission Standards						
1 to 5	Particulate matter	115mg/Nm ³						
18	<p>The industry shall maintain separate energy meter for Effluent Treatment Plant(ETP) i.e for sludge thickener and for air pollution control equipment.</p>	<p>Separate energy meters provided for sludge thickener and air pollution control equipment's and daily energy consumption is being monitored and records are maintained.</p>						
19	<p>The industry shall submit performance evaluation/efficiency of the Air Pollution Control Systems installed on quarterly basis.</p>	<p>Conducted the efficiency test of Air Pollution Control System. Enclosed reports as Annexure - 10</p>						
20	<p>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.</p>	<p>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.</p>						
21	<p>The industry shall not discharge any effluents into Perlavanipeta agricultural fields.</p>	<p>No effluent is discharged into Perlavanipeta agricultural fields.</p>						
22	<p>The industry shall maintain green belt in the mined area after levelling and towards sea side on reclaimed mined area.</p>	<p>Complied as shown in Annexure -6.</p>						
23	<p>The industry shall operate water sprinklers to control fugitive emissions at different transfer points and haul roads.</p>	<p>In dry plant, ambient dust is arrested from the generating points by dust extraction system consisting of 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.</p>						
24	<p>The industry shall maintain water sprinklers at raw material handling section for dust suppression and maintain records</p>	<p>In dry plant, dust is controlled in the above manner and water sprinklers are installed at dry material handling point for dust suppression.</p>						
25	<p>All transit water storage facilities shall be maintained with impervious lining to prevent pollution.</p>	<p>Water storage tanks are made leak proof.</p>						
26	<p>The thickener sludge/sand shall be disposed for back filling in mined out areas.</p>	<p>The thickener sludge / sand is being disposed for back filling in mined out areas.</p>						



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)
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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 mihe 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) .
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

40	The industry shall comply with the following: Existing: Wet & Dry Plants							Being complied		
	S. NO	Type of Solid Waste	Source of Generator	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/Gear 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 MTPD	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				
	41	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.	
	43	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 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. ZEN LUBS, Plot No. 62, E Block, Gajuwaka, Autonagar, Visakhapatnam.
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.	Reports for the period Oct'16 to Mar'17 submitted vide Lr.No. TSPL/ENV/PCB/2017-18/1087 dated: 30-07-2017 (Annexure -17)



Annexure-1

TSPL/ENV/PCB/2017-18/1072

Srikakula
12-05-2017.

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 Apr-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, email: info@trimexsands.com

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

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

CIN: U14299TN2004PTC071437



TSPL/ENV/PCB/2017-18/1078

Srikakulam,
10-06-2017.

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 May-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), Gura Mandal, Srikakulam District - 532 404, Andhra Pradesh, India
Tel: +91 8942 283155, Fax: +91 8942 283758, email: info@trimexsands.com

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

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

CIN: U14299TN2004PTC071437



TSPL/ENV/PCB/2017-18/1089

Srikakulam,
10-07-2017.

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 June-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, email: info@trimexsands.com

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CIN: U14299TN2004PTC071437



O/c.

TSPL/ENV/PCB/2017-18/1099

Srikakulam,
08-08-2017.

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 July-2017.

Thanking You,

Yours Faithfully

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

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 a stylized name.

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/2017-18/1106

Srikakulam,
12-09-2017.

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 August-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



TSPL/ENV/PCB/2017-18/111

Srikakulam,
10-10-2017.

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 September-2017.

Thanking You,

Yours Faithfully

Sr. 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.

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

CIN: U14299TN2004PTC071437



O/c.

TSPL/ENV/MOEF/2017-18/119

Srikakulam,
23-10-2017.

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 - 6000347

Dear Sir,

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

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

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

Thanking You,

Yours faithfully,

Sr. Vice President (Mines)

CC:

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

Trimex Sands Pvt Ltd: Vatchavalasa (V), Gara Mandal, Srikakulam District - 532404, Andhra Pradesh, India.
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Tel: +91 44 2498 8822 / 8813 Fax: +91 44 2498 6047 web: www.trimexsands.com

CIN : U14299TN2004PTC071437



TSPL/ENV/MOEF/2017-18/1095

Srikakulam,
25-07-2017.

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

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

Thanking You,

Yours faithfully,

Vice President (Mines)

CC:

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

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

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

CIN: U14299TN2004PTC071437



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.

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.

Labs and Consultants

3361

Registered Office :

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

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

TEST REPORT

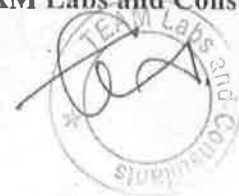
Test Report No .TLC /V/Env/ TSPL/3/0917

dt 05.10.2017

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	21.09.2017	21.09.2017	20.09.2017	20.09.2017
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	148	136	129	132
6	Exit gas velocity (m/s)	7.7	7.8	7.4	7.8
7	Flue gas flow rate NM ³ /hr	2472	2578	2488	2603
8	Emission Rates				
9	Dust concentration mg/NM ³	85	77	68	70
10	SO ₂ mg/NM ³	70	80	65	70
11	NO _x mg/NM ³	120	105	140	145

For TEAM Labs and Consultants



Labs and Consultants**Registered Office :**

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

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

TEST REPORT

Test Report No .TLC /V/Env/ TSPL/3/0817

dt 06.09.2017

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	18.08.2017	18.08.2017	17.08.2017	17.08.2017
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	147	135	140	157
6	Exit gas velocity (m/s)	9.0	10.0	9.5	11.0
7	Flue gas flow rateNM ³ /hr	2896	3313	3109	3458
8	Emission Rates				
9	Dust concentration mg/NM ³	70	65	57	74
10	SO ₂ mg/NM ³	80	70	80	90
11	NO _x mg/NM ³	210	220	230	210

For TEAM Labs and Consultants



Labs and Consultants**Registered Office :**

3034

B-115, 116, 117 & 509, Annapoorna Block, Aditya Enclave, Ameerpet, Hyderabad - 530038.
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ISO 9001 : 2008, ISO 14001 : 2004 and OHSAS 18001 : 2007 Certified Organization
 Laboratory Recognised by Ministry Environment, Forests and Climate Change, Gol, New Delhi

TEST REPORT

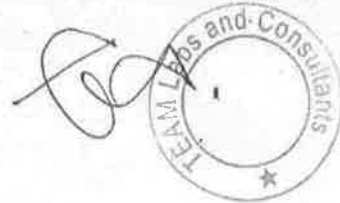
Test Report No .TLC /V/Env/ TSPL/3/0717

dt 05.08.2017

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 detailsgiven

No	Parameter	DG 1(MSP) of 2000 KVA	DG 2(MSP) of 2000 KVA	DG 1(PCP) of 200Q KVA	DG 2(PCP) of 2000 KVA
1	Date of sampling	18.07.2017	18.07.2017	17.07.2017	17.07.2017
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	147	130	127	137
6	Exit gas velocity (m/s)	8.5	9.0	9.5	10.0
7	Flue gas flow rateNM ³ /hr	2736	3019	3210	3297
8	Emission Rates				
9	Dust concentration mg/NM ³	78	74	68	70
10	SO ₂ mg/NM ³	80	85	90	95
11	NO _x mg/NM ³	220	205	215	230

For TEAM Labs and Consultants



Registered Office :

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL/3/0617

dt 05.07.2017

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	29.06.2017	29.06.2017	28.06.2017	28.06.2017
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	138	127	122	126
6	Exit gas velocity (m/s)	8.2	8.6	8.0	9.0
7	Flue gas flow rateNM ³ /hr	2697	2906	2738	3049
8	Emission Rates				
9	Dust concentration mg/NM ³	75	67	52	69
10	SO ₂ mg/NM ³	75	75	80	85
11	NO _x mg/NM ³	220	205	210	185

For TEAM Labs and Consultants



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ISO 9001 : 2008, ISO 14001 : 2004 and OHSAS 18001 : 2007 Certified Organization
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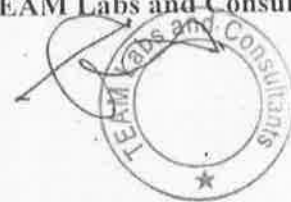
Test Report No .TLC /V/Env/ TSPL/3/0517

dt 05.06.2017

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	15.05.2017	15.05.2017	15.05.2017	15.05.2017
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	370	317	185	167
6	Exit gas velocity (m/s)	30.0	28.0	12.0	11.0
7	Flue gas flow rateNM ³ /hr	6306	6415	3542	3379
8	Emission Rates				
9	Dust concentration mg/NM ³	77	80	76	65
10	SO ₂ mg/NM ³	90	90	95	80
11	NO _x mg/NM ³	410	405	190	155

For TEAM Labs and Consultants



Labs and Consultants**Registered Office :**

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

TEST REPORT

Test Report No .TLC /V/Env/ TSPL/3/0417

dt 06.05.2017

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	11.04.2017	11.04.2017	11.04.2017	11.04.2017
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	360	320	137	132
6	Exit gas velocity (m/s)	32.0	30.0	9.0	9.0
7	Flue gas flow rate NM ³ /hr	6833	6838	2967	31673003
8	Emission Rates				
9	Dust concentration mg/NM ³	85	82	66	60
10	SO ₂ mg/NM ³	90	95	80	80
11	NO _x mg/NM ³	460	420	150	135

For TEAM Labs and Consultants



Labs and Consultants

3363

Registered Office :

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

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

TEST REPORT

Test Report No .TLC /V/Env/ TSPL/4/0917

dt 05.10.2017

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: 21.09.2017

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	35	78	7.9	16.6
2	MSP-North West corner	29	66	7.0	15.2
3	PCP-East gate	32	53	6.5	15.1
4	PCP-South West gate	43	81	7.7	16.3
5	Perlavanipet mines	24	60	6.4	13.9
	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

MSP-Mineral Separation Plant

For TEAM Labs and Consultants



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TEST REPORT

Test Report No .TLC /V/Env/ TSPL-N/01/0917

dt 05.10.2017

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: 20.09.2017

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	47	95	7.8	15.4
2	Security gate	50	98	8.2	16.6
	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 No .TLC /V/Env/ TSPL/5/0917

dt 05.10.2017

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:

20.09.2017

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	59	7.2	14.7
2	Pedda vatsavalasa	25	65	7.5	15.1
3	Komaravani peta	19	41	6.0	12.0
4	Tonangi	32	70	7.1	15.8
	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

For TEAM Labs and Consultants



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Test Report No .TLC /V/Env/ TSPL/4/0817

dt 06.09.2017

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:

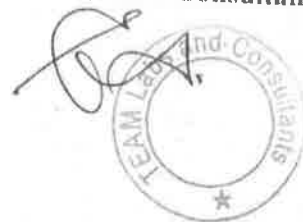
18..08.2017

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	22	58	6.9	14.2
2	MSP-North West corner	21	50	6.0	13.5
3	PCP-East gate	32	68	7.5	16.5
4	PCP-South West gate	27	62	6.9	15.5
5	Perlavanipet mines	25	63	6.2	14.5
	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



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TEST REPORT

Test Report No .TLC /V/Env/ TSPL-N/01/0817

dt 06.09.2017

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

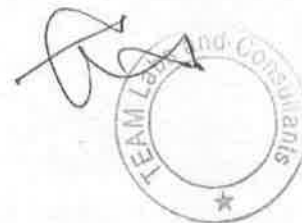
Date of monitoring:

17.08.2017

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	12	50	6.0	13.2
2	Security gate	13	45	6.0	12.8
	APPCB STANDARD	60	100	80	80

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

For TEAM Labs and Consultants



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TEST REPORT

Test Report No .TLC /V/Env/ TSPL/5/0817

dt 06.09.2017

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

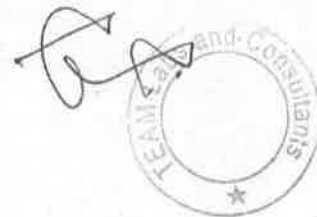
Date of monitoring:

17.08.2017

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	15	45	6.0	13.8
2	Pedda vatsavalasa	16	40	6.0	11.6
3	Komaravani peta	12	37	6.0	12.3
4	Tonangi	20	50	6.7	15.2
	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

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL/4/0717

dt 05.08.2017

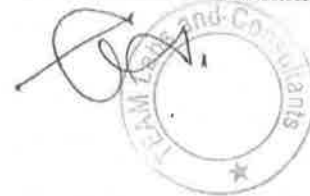
Description of Test: Ambient Air Quality Monitoring inside core zone
 Name of the client: Trimex Sands Pvt. Ltd.
 Location of sampling: As per details given below
 Date of monitoring: 18.07.2017

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	25	60	7.2	15.8
2	MSP-North West corner	30	66	7.5	16.1
3	PCP-East gate	35	74	7.9	17.2
4	PCP-South West gate	27	60	6.8	15.5
5	Perlavanipet mines	22	62	7.0	15.7
	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



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TEST REPORT

Test Report No .TLC /V/Env/ TSPL-N/01/0717

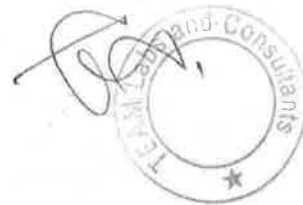
dt 05.08.2017

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: 17.07.2017

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	13	48	6.0	13.7
2	Security gate	14	52	6.6	15.7
	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/5/0717

dt 05.08.2017

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:

17.07.2017

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	22	62	7.6	17.1
2	Pedda vatsavalasa	18	42	6.5	12.8
3	Komaravani peta	15	40	6.0	11.5
4	Tonangi	24	58	7.0	16.8
	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/4/0617

dt 05.07.2017

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

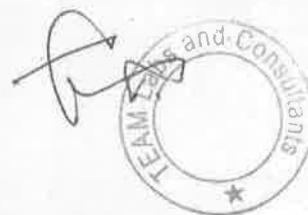
Date of monitoring: 29.06.2017

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	26	62	7.8	16.2
2	MSP-North West corner	25	53	6.2	14.4
3	PCP-East gate	30	64	7.0	16.6
4	PCP-South West gate	25	58	6.6	15.0
5	Perlavanipet mines	28	70	7.0	15.5
	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 No .TLC /V/Env/ TSPL-N/01/0617

dt 05.07.2017

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 .

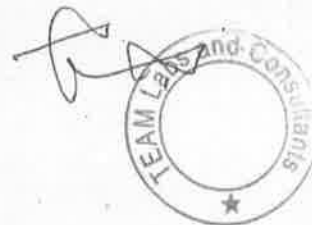
Date of monitoring:

28.06.2017

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	14	45	6.2	14.3
2	Security gate	12	48	6.4	15.2
	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 No .TLC /V/Env/ TSPL/5/0617

dt 05.07.2017

Description of Test: Ambient Air Quality Monitoring –Buffer zone

Name of the client: Trimex Sands. PvtLtd.

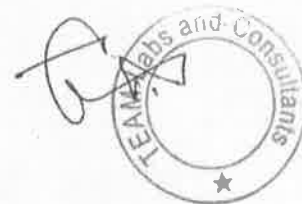
Location of sampling: surrounding villages as per details given

Date of monitoring: 28.06.2017

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	19	48	7.1	16.6
2	Pedda vatsavalasa	20	45	7.0	14.6
3	Komaravani peta	14	38	6.0	12.5
4	Tonangi	25	55	7.2	16.2
	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/4/0517

dt 05.06.2017

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

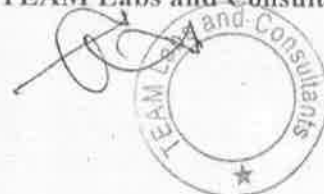
Date of monitoring: 16.05.2017

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	27	65	7.5	15.6
2	MSP-North West corner	25	55	6.5	14.2
3	PCP-East gate	47	94	8.0	17.9
4	PCP-South West gate	35	75	7.0	15.9
5	Perlavanipet mines	30	68	7.5	15.2
	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

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL-N/01/0517

dt 05.06.2017

Description of Test: Ambient Air Quality Monitoring inside core zone

Name of the client: Trimex Sands Pvt. Ltd.

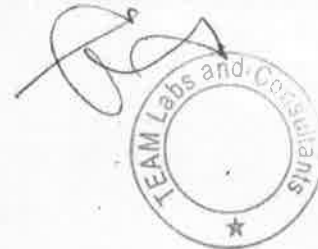
Location of sampling: New PCP Plant ,Tonangi

Date of monitoring: 15.05.2017

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	25	66	7.2	15.0
2	Security gate	27	60	7.0	15.5
	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/5/0517

dt 05.06.2017

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:

15.05.2017

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	31	77	8.4	19.2
2	Pedda vatsavalasa	24	60	7.0	15.0
3	Komaravani peta	18	50	6.0	12.8
4	Tonangi	27	62	6.8	15.5
	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/4/0417

dt 06.05.2017

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

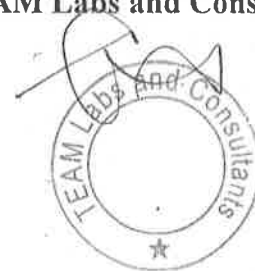
Date of monitoring: 12.04.2017

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	50	7.2	14.8
2	MSP-North West corner	20	52	7.0	15.2
3	PCP-East gate	45	92	8.2	16.5
4	PCP-South West gate	30	65	7.5	16.3
5	Perlayanipet mines	27	60	7.2	15.9
	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

MSP-Mineral Separation Plant

For TEAM Labs and Consultants



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Test Report No .TLC /V/Env/ TSPL-N/01/0417

dt 06.05.2017

Description of Test: Ambient Air Quality Monitoring inside core zone

Name of the client: Trimex Sands Pvt. Ltd.

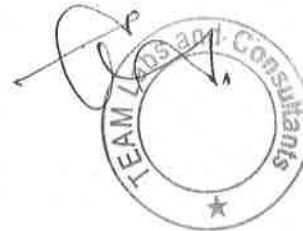
Location of sampling: New PCP Plant ,Tonangi

Date of monitoring: 11.04.2017

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	22	54	7.0	14.4
2	Security gate	25	58	7.7	16.1
	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/5/0417

dt 06.05.2017

Description of Test: Ambient Air Quality Monitoring -Buffer zone

Name of the client: Trimex Sands. PvtLtd.

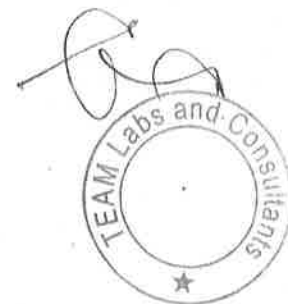
Location of sampling: surrounding villages as per details given

Date of monitoring: 11.04.2017

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	27	72	8.2	17.7
2	Pedda vatsavalasa	20	57	7.2	14.9
3	Komaravani peta	15	47	6.8	13.5
4	Tonangi	25	55	6.6	14.2
	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

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL/6/0917

dt 05.10.2017

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:

20.09.2017

Time Hrs	Srikurmam	Pedda vatsavalasa	Komaravani peta	Chinna Tonangi
Noise levels indB(A)				
11.00	56.8	52.8	47.2	50.6
12.00	52.6	57.5	45.8	58.7
13.00	55.4	61.9	46.9	51.4
14.00	59.1	58.1	49.2	52.9
15.00	53.7	50.6	48.3	54.7
16.00	51.3	53.8	47.8	53.8
17.00	57.8	50.4	50.1	51.6
18.00	53.1	49.9	49.9	50.1

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL/7/0917

dt 05.10.2017

Description of Test:

Ambient Noise level Monitoring -Core zone

Name of the client:

Trimex Sands Pvt. Ltd.

Location of sampling:

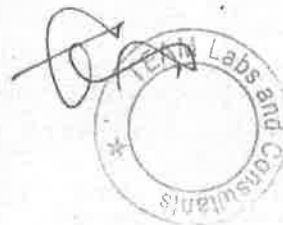
As per details given

Date of monitoring:

21.09.2017

Time Hrs	MSP- South East corner	MSP-North West corner	PCP-East gate	PCP-South West gate
Noise levels indB(A)				
09.00	50.5	51.4	56.8	59.9
10.00	49.2	53.8	51.2	59.1
11.00	47.7	50.6	49.5	61.3
12.00	45.1	52.5	46.9	63.6
13.00	49.5	54.3	48.6	59.2
14.00	52.1	52.4	49.2	60.2
15.00	60.5	51.9	51.4	59.8
16.00	46.4	53.5	53.9	61.6

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL/6/0817

dt 06.09.2017

Description of Test:

Ambient Noise level Monitoring -Buffer zone

Name of the client:

Trimex Sands. PvtLtd.

Location of sampling:

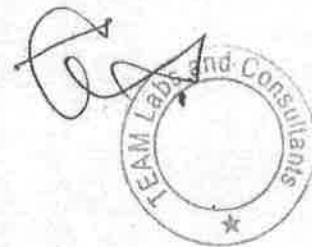
As per details given

Date of monitoring:

17.08.2017

Time Hrs	Srikurmam	Pedda vatsavalasa	Komaravani peta	Chinna Tonangi
	Noise levels indB(A)			
11.00	53.6	50.1	42.5	49.6

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL/7/0817

dt 06.09.2017

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:

18.08.2017

Time Hrs	MSP- South East corner	MSP-North West corner	PCP-East gate	PCP-South West gate
	Noise levels indB(A)			
10.00	49.0	55.0	55.3	49.2

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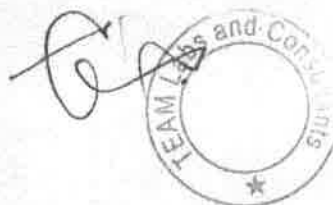
TEST REPORT

Test Report No .TLC /V/Env/ TSPL-N/02/0817

dt 06.09.2017

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: 17.08.2017

Time Hrs	Security gate	DG Area
	Noise levels indB(A)	
12.00	48.9	57.2

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL/6/0717

dt 05.08.2017

Description of Test:

Ambient Noise level Monitoring -Buffer zone

Name of the client:

Trimex Sands. PvtLtd.

Location of sampling:

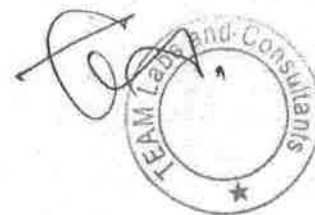
As per details given

Date of monitoring:

17.07.2017

Time Hrs	Srikurmam	Pedda vatsavalasa	Komaravani peta	Chinna Tonangi
	Noise levels indB(A)			
11.00	54.8	51.0	43.8	50.2

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TEST REPORT

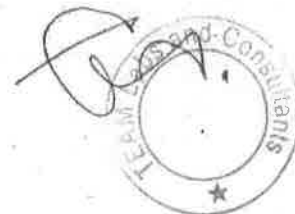
Test Report No .TLC /V/Env/ TSPL/7/0717

dt 05.08.2017

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: 18.07.2017

Time Hrs	MSP- South East corner	MSP-North West corner	PCP-East gate	PCP-South West gate
	Noise levels indB(A)			
10.00	48.6	55.0	56.0	49.2

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TEST REPORT

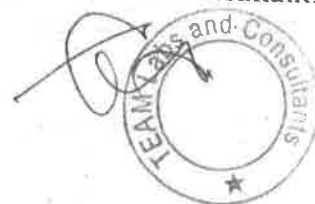
Test Report No .TLC /N/Env/ TSPL-N/02/0717

dt 05.08.2017

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: 17.07.2017

Time Hrs	Security gate	DG Area
	Noise levels indB(A)	
11.00	50.1	59.3

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL/6/0617

dt 05.07.2017

Description of Test: Ambient Noise level Monitoring –Buffer zone

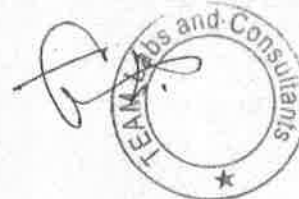
Name of the client: Trimex Sands. PvtLtd.

Location of sampling: As per details given

Date of monitoring: 28.06.2017

Time Hrs	Srikurmam	Pedda vatsavalasa	Komaravani peta	Chinna Tonangi
Noise levels indB(A)				
11.00	54.1	49.8	41.6	48.3
12.00	52.9	47.1	43.9	46.8
13.00	56.2	46.9	41.5	46.2
14.00	54.8	49.2	45.3	47.4
15.00	56.1	47.5	44.8	50.1
16.00	55.3	48.3	40.9	48.3
17.00	54.2	49.2	49.3	46.9
18.00	56.8	50.6	48.1	44.3

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TEST REPORT

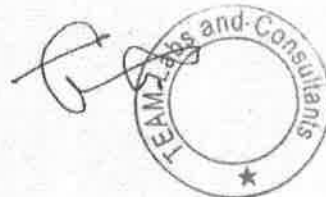
Test Report No .TLC /V/Env/ TSPL/7/0617

dt 05.07.2017

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: 29.06.2017

Time Hrs	MSP- South East corner	MSP-North West corner	PCP-East gate	PCP-South West gate
	Noise levels IndB(A)			
09.00	49.5	54.5	51.3	48.6
10.00	48.1	54.6	54.9	47.5
11.00	49.7	56.2	58.6	43.9
12.00	47.4	58.3	52.4	46.8
13.00	48.5	55.1	54.7	47.1
14.00	47.2	53.5	56.1	45.8
15.00	46.4	57.8	58.4	46.3
16.00	45.9	54.9	56.3	47.8

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL-N/02/0617

dt 05.07.2017

Description of Test: Ambient Noise level Monitoring –Core zone

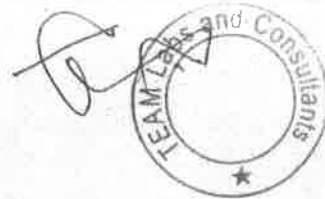
Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: New PCP Plant ,Tonangi

Date of monitoring: 28.06.2017

Time Hrs	Security gate	DG Area
	Noise levels indB(A)	
11.00	49.2	58.2
12.00	46.5	56.7
13.00	47.6	56.3
14.00	49.3	57.1
15.00	49.8	53.9
16.00	48.6	57.2
17.00	48.2	55.8
18.00	49.1	56.8

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL/6/0517

dt 05.06.2017

Description of Test: Ambient Noise level Monitoring –Buffer zone

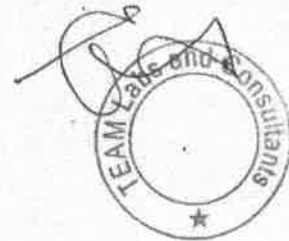
Name of the client: Trimex Sands. PvtLtd.

Location of sampling: As per details given

Date of monitoring: 15.05.2017

Time Hrs	Srikurmam	Pedda vatsavalasa	Komaravani peta	Chinna Tonangi
	Noise levels indB(A)			
11.00	53.8	45.2	48.8	49.9

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TEST REPORT

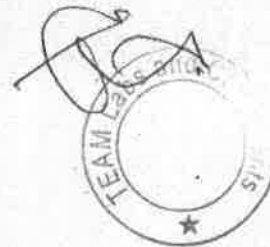
Test Report No .TLC /V/Env/ TSPL/7/0517

dt 05.06.2017

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: 16.05.2017

Time Hrs	MSP- South East corner	MSP-North West corner	PCP-East gate	PCP-South West gate
	Noise levels indB(A)			
11.00	50.2	52.1	62.9	52.0

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TEST REPORT

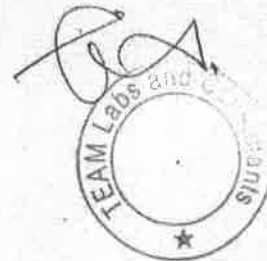
Test Report No .TLC /V/Env/ T\$PL-N/02/0517

dt 05.06.2017

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: 15.05.2017

Time Hrs	Security gate	DG Area
	Noise levels indB(A)	
13.00	51.0	63.3

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Test Report No .TLC /V/Env/ TSPL/6/0417

dt 06.05.2017

Description of Test:

Ambient Noise level Monitoring -Buffer zone

Name of the client:

Trimex Sands. PvtLtd.

Location of sampling:

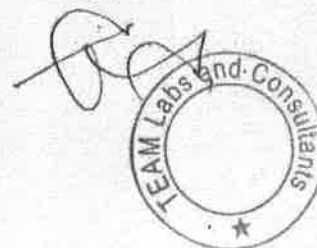
As per details given

Date of monitoring:

11.04.2017

Time Hrs	Srikurmam	Pedda vatsavalasa	Komaravani peta	Chinna Tonangi
	Noise levels indB(A)			
11.00	53.1	43.5	47.8	50.8

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Test Report No .TLC /V/Env/ TSPL/7/0417

dt 06.05.2017

Description of Test: Ambient Noise level Monitoring –Core zone

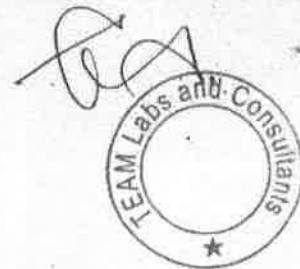
Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: As per details given

Date of monitoring: 12.04.2017

Time Hrs	MSP- South East corner	MSP-North West corner	PCP-East gate	PCP-South West gate
	Noise levels indB(A)			
11.00	47.2	51.0	62.8	51.4

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Annexure - 5

Summary of Production Details

Particulars	2014-15	2015-16	2016-17	2017-18 (up to Sep, 2017)
Proposed Production				
RoM	3,517,273	5,091,473	5,963,801	2,998,901
Mineral Production				
Garnet	178,962	241,528	186,745	46,066
Sillimanite	164,366	220,321	166,488	36,528
Ilmenite	269,111	364,502	381,481	183,475
Rutile	11,470	15,807	14,816	6,314
Zircon	8,906	12,313	10,651	4,026
Total	632,815	854,471	760,180	276,409
Achieved Production				
RoM	1,994,656	2,957,422	4,188,534	2,064,583
Mineral Production				
Garnet	46,877	31,888	31,620	29,451
Sillimanite	33,801	42,409	37,109	25,124
Ilmenite	241,884	259,440	234,199	130,251
Rutile	6,433	6,325	6,562	4,222
Zircon	4,160	4,309	3,524	2,530
Total	333,155	344,371	313,014	191,578



Plantation Details

YEAR	TYPE OF SPECIES	No of Plants	
		Plan	Actual
Afforestation in Refilled areas:			
2017-2018 (up to Sep, 2017)	Eucalyptus, Casuarina, Acacia, Cashew	36805	70682
Green Belt :			
2017-2018 (up to Sep, 2017)	Casuarina, Acacia, Eucalyptus	5089	5106

Afforestation in Back filled Areas



Annexure-7

TEAM

ORIGINAL

Form-No. TCLL/GF/RF-138

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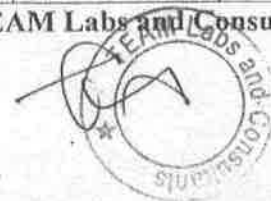
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TEST REPORT

Test Report No. **TLC/V/Env/TSPL/8/0917** dt **05.10.2017**
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 : **21.09.2017**

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	7.50	8.20	7.6	8.15	7.50
2	Colour Hazen units	5	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	810mgpl	1110 mgpl	1370mgpl	490mgpl	490 mgpl
5	Total Suspended Solids	10mgpl	6mgpl	8mgpl	6mgpl	8mgpl
6	Turbidity	6.9NTU	5.0 NTU	6.5NTU	3.4NTU	6.6 NTU
7	Total Hardness as CaCo3	440mgpl	170mgpl	600mgpl	120mgpl	150mgpl
8	Calcium as CaCo3	320mgpl	105mgpl	410mgpl	80mgpl	100mgpl
9	Magnesium as CaCo3	120mgpl	65mgpl	190 mgpl	40mgpl	50 mgpl
10	Chlorides Cl-	185mgpl	280mgpl	475mgpl	95mgpl	170mgpl
11	Flouride	0.6mgpl	0.5mgpl	0.5mgpl	0.4mgpl	0.5mgpl
12	Sulphates	115mgpl	160mgpl	190mgpl	105mgpl	90mgpl
13	Nitrates	75.5 mgpl	52.0 mgpl	29.0 mgpl	5.5 mgpl	12.5 mgpl
14	Phosphates	BDL	BDL	BDL	BDL	BDL
15	Iron	0.06mgpl	0.07mgpl	0.06mgpl	0.04mgpl	0.04mgpl
16	Lead	BDL	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	3.34	2.6	2.2	4.63	2.5

For TEAM Labs and Consultants



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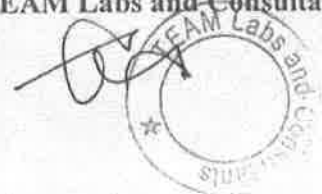
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TEST REPORTTest Report No. **TLC/V/Env/TSPL/9/0917**dt **05.10.2017**

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 : **21.09.2017**

No	parameter	PCP open well	Tails water	Pond at Vatchavalasa	MSP Open well
1	pH	7.5	7.8	8.15	7.80
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	290 mgpl	240mgpl	390 mgpl	410mgpl
5	Total Suspended Solids	5	18mgpl	5	5mgpl
6	Turbidity	1.8NTU	95NTU	2.8NTU	2.5 NTU
7	Total Hardness as CaCo3	120mgpl	60mgpl	110mgpl	240mgpl
8	Calcium as CaCo3	80mgpl	40mgpl	70mgpl	150mgpl
9	Magnesium as CaCo3	40mgpl	20mgpl	40mgpl	90mgpl
10	Chlorides Cl-	65mgpl	70mgpl	140mgpl	80mgpl
11	Flouride	0.5 mgpl	0.5mgpl	0.5 mgpl	0.4mgpl
12	Sulphates	25mgpl	45mgpl	37mgpl	55mgpl
13	Nitrates	0.5mgpl	0.5mgpl	1.5mgpl	0.5 mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.04mgpl	0.06mgpl	0.03mgpl	0.03mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from groundlevel inmtrs	1.04	-	-	1.75

For **TEAM Labs and Consultants**

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TEST REPORT

Test Report No. TLC/V/Env/TSPL/10/0917

dt05.10.2017

Description of Test: Phisico-chemical Analysis of Water

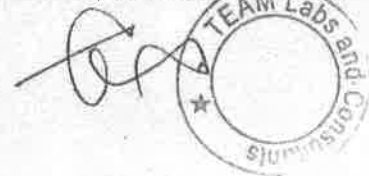
Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: Water samples as per Details given

Date of Sample Collected : 21.09.2017

No	Parameter	Komara vanipeta O. W.water	Bandaruvani peta O. W.water	Chinatonangi open well water	Batchuvanipeta open well water
1	pH	8.10	7.50	7.30	7.25
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	880mgpl	1120mgpl	460mgpl	2980mgpl
5	Total Suspended Solids	5mgpl	5mgpl	5mgpl	5mgpl
6	Turbidity	4.5 NTU	5.0NTU	4.0NTU	9.2 NTU
7	Total Hardness as CaCo ₃	420mgpl	390mgpl	150mgpl	690mgpl
8	Calcium as CaCo ₃	290mgpl	270mgpl	100mgpl	410mgpl
9	Magnesium as CaCo ₃	130mgpl	120 mgpl	50mgpl	280mgpl
10	Chlorides Cl-	220mgpl	340mgpl	120mgpl	890mgpl
11	Flouride	0.5mgpl	0.5mgpl	0.4mgpl	0.6mgpl
12	Sulphates	170mgpl	375mgpl	70mgpl	290mgpl
13	Nitrates	18.0 mgpl	15.0 mgpl	17.0 mgpl	11.0 mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.05mgpl	0.04gpl	0.05mgpl	0.07mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	2.70	2.10	1.48	1.68

For TEAM Labs and Consultants



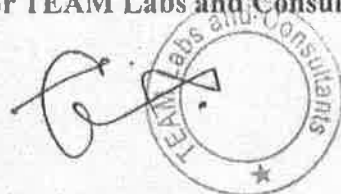
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TEST REPORTTest Report No. **TLC/V/Env/TSPL/8/0817**dt**06.09.2017**Description of Test: **Phisico-chemical Analysis of Water**Name of the client: **Trimex Sands Pvt. Ltd.**Location of sampling: **Water samples as per Details given**Date of Sample Collected : **18.17.08.2017**

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	7.55	7.7	7.5	7.9	8.05
2	Colour Hazen units	5	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	1040mgpl	1230mgpl	1450mgpl	440mgpl	950mgpl
5	Total Suspended Solids	8mgpl	7mgpl	10mgpl	6mgpl	8mgpl
6	Turbidity	6.2NTU	5.8 NTU	8.5NTU	2.9NTU	6.2 NTU
7	Total Hardness as CaCo3	505 mgpl	195mgpl	590mgpl	110mgpl	410mgpl
8	Calcium as CaCo3	365mgpl	110mgpl	410mgpl	70mgpl	240mgpl
9	Magnesium as CaCo3	140mgpl	85mgpl	180 mgpl	40mgpl	170 mgpl
10	Chlorides Cl-	210mgpl	220mgpl	440mgpl	170mgpl	520mgpl
11	Flouride	0.6mgpl	0.5mgpl	0.5mgpl	0.4mgpl	0.5mgpl
12	Sulphates	120mgpl	180mgpl	205mgpl	115mgpl	220mgpl
13	Nitrates	85.5 mgpl	58.0 mgpl	35.0 mgpl	0.5 mgpl	18.5 mgpl
14	Phosphates	BDL	BDL	BDL	BDL	BDL
15	iron	0.06mgpl	0.07mgpl	0.06mgpl	0.04mgpl	0.04mgpl
16	Lead	BDL	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	3..0	2.4	1.7	4.0	2.5

For **TEAM Labs and Consultants**

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TEST REPORT

Test Report No. TLC/V/Env/TSPL/9/0817

dt06.09.2017

Description of Test: Phisico-chemical Analysis of Water

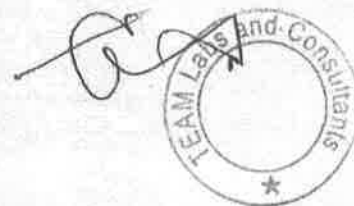
Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: Water samples as per Details given

Date of Sample Collected : 18.17.08.2017

No	parameter	PCP open well	Tails water	Pond at Vatchavalasa	MSP Open.well
1	pH	7.5	7.5	7.5	7.75
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objection able	un objectionable	un objectionable
4	Total Dissolved solids	260	260mgpl	250	480mgpl
5	Total Suspended Solids	5	18mgpl	5	5mgpl
6	Turbidity	1.9 NTU	9.8NTU	1.9NTU	2.9 NTU
7	Total Hardness as CaCo3	130mgpl	90mgpl	80mgpl	230mgpl
8	Calcium as CaCo3	80mgpl	60mgpl	60mgpl	140mgpl
9	Magnesium as CaCo3	50mgpl	30mgpl	20mgpl	90mgpl
10	Chlorides Cl-	55mgpl	80mgpl	155mgpl	120mgpl
11	Flouride	0.5 mgpl	0.5mgpl	0.5 mgpl	0.4mgpl
12	Sulphates	22mgpl	60mgpl	35mgpl	90mgpl
13	Nitrates	0.5mgpl	0.5mgpl	1.0mgpl	0.5 mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.04mgpl	0.06mgpl	0.03mgpl	0.03mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from groundlevel inmtrs	0.9	-	-	1.5

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TEST REPORT

Test Report No. TLC/V/Env/TSPL/10/0817

dt06.09.2017

Description of Test: Phisico-chemical Analysis of Water

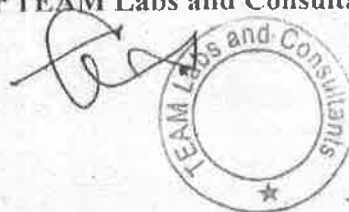
Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: Water samples as per Details given

Date of Sample Collected : 18.08.2017

No	Parameter	Komara vanipeta O. W. water	Bandaruvani peta O. W. water	Chinatonangi open well water	Batchuvanipeta open well water
1	pH	7.40	7.50	7.30	7.40
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	1010mgpl	1270mgpl	520mgpl	2530mgpl
5	Total Suspended Solids	5mgpl	5mgpl	5mgpl	5mgpl
6	Turbidity	4.9 NTU	6.0NTU	6.0NTU	8.5 NTU
7	Total Hardness as CaCo3	430mgpl	610mgpl	210mgpl	530mgpl
8	Calcium as CaCo3	290mgpl	370mgpl	130mgpl	370mgpl
9	Magnesium as CaCo3	140mgpl	240 mgpl	80mgpl	160mgpl
10	Chlorides Cl-	540mgpl	370mgpl	150mgpl	310mgpl
11	Flouride	0.5mgpl	0.5mgpl	0.4mgpl	0.6mgpl
12	Sulphates	140mgpl	395mgpl	80mgpl	325mgpl
13	Nitrates	15.0 mgpl	10.0 mgpl	15.0 mgpl	9.0 mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.05mgpl	0.04gpl	0.05mgpl	0.07mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	2.45	1.84	1.20	1.80

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TLC/V/Env/TSPL/8/0717

dt05.08.2017

Description of Test: Phisico-chemical Analysis of Water

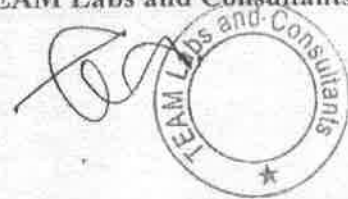
Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: Water samples as per Details given

Date of Sample Collected : 18.07.2017

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	7.55	7.85	7.85	7.7	8.05
2	Colour Hazen units	5	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	1430mgpl	1470mgpl	1860mgpl	380mgpl	950mgpl
5	Total Suspended Solids	8mgpl	7mgpl	12mgpl	6mgpl	8mgpl
6	Turbidity	5.6NTU	3.8 NTU	7.5NTU	2.5NTU	5.2 NTU
7	Total Hardness as CaCo3	470 mgpl	190mgpl	590mgpl	105mgpl	490mgpl
8	Calcium as CaCo3	350mgpl	110mgpl	430mgpl	70mgpl	310mgpl
9	Magnesium as CaCo3	120mgpl	80mgpl	160 mgpl	35mgpl	180 mgpl
10	Chlorides Cl-	270mgpl	230mgpl	465mgpl	140mgpl	530mgpl
11	Flouride	0.6mgpl	0.5mgpl	0.5mgpl	0.4mgpl	0.5mgpl
12	Sulphates	120mgpl	178mgpl	210mgpl	85mgpl	260mgpl
13	Nitrates	95.5 mgpl	55.5 mgpl	39.0 mgpl	10.5 mgpl	18.5 mgpl
14	Phosphates	BDL	BDL	BDL	BDL	BDL
15	Iron	0.06mgpl	0.07mgpl	0.06mgpl	0.04mgpl	0.04mgpl
16	Lead	BDL	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	3.26	2.75	2.44	6.57	3.09

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TEST REPORT

Test Report No.TLC/V/Env/TSPL/8/0617

dt05.07.2017

Description of Test: Phisico-chemical Analysis of Water

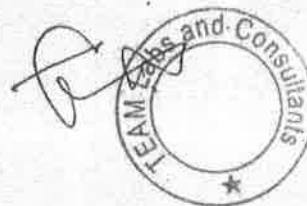
Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: Water samples as per Details given

Date of Sample Collected : 29.06.2017

o	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	7.55	7.85	7.85	7.9	8.05
2	Colour Hazen units	5	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	1080mgpl	1240mgpl	1480mgpl	615mgpl	1250mgpl
5	Total Suspended Solids	8mgpl	7mgpl	12mgpl	6mgpl	8mgpl
6	Turbidity	5.6NTU	3.8 NTU	7.5NTU	2.5NTU	5.2 NTU
7	Total Hardness as CaCo3	510 mgpl	180mgpl	570mgpl	110mgpl	470mgpl
8	Calcium as CaCo3	360mgpl	110mgpl	410mgpl	70mgpl	290mgpl
9	Magnesium as CaCo3	150mgpl	70mgpl	160 mgpl	40mgpl	180 mgpl
10	Chlorides Cl-	220mgpl	250mgpl	425mgpl	155mgpl	510mgpl
11	Flouride	0.6mgpl	0.5mgpl	0.5mgpl	0.4mgpl	0.5mgpl
12	Sulphates	130mgpl	175mgpl	220mgpl	105mgpl	280mgpl
13	Nitrates	115.5 mgpl	62.9 mgpl	32.0 mgpl	0.5 mgpl	15.5 mgpl
14	Phosphates	BDL	BDL	BDL	BDL	BDL
15	Iron	0.06mgpl	0.07mgpl	0.06mgpl	0.04mgpl	0.04mgpl
16	Lead	BDL	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	3.8	3.15	4.25	8.25	4.22

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TEST REPORT

Test Report No. TLC/V/Env/TSPL/9/0617 dt05.07.2017

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 : 29.06.2017

No	parameter	PCP open well	Tails water	Pond at Vatchavalasa	MSP Open well
1	pH	7.5	7.95	7.85	7.90
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	360	360mgpl	250	580mgpl
5	Total Suspended Solids	5	18mgpl	5	5mgpl
6	Turbidity	1.5 NTU	9.2NTU	1.4NTU	2.5 NTU
7	Total Hardness as CaCo3	150mgpl	105mgpl	90mgpl	225mgpl
8	Calcium as CaCo3	105mgpl	60mgpl	60mgpl	130mgpl
9	Magnesium as CaCo3	45mgpl	45mgpl	30mgpl	95mgpl
10	Chlorides Cl-	50mgpl	70mgpl	195mgpl	105mgpl
11	Flouride	0.5 mgpl	0.4mgpl	0.5 mgpl	0.4mgpl
12	Sulphates	20mgpl	59mgpl	30mgpl	70mgpl
13	Nitrates	0.5mgpl	0.5mgpl	1.0mgpl	0.5 mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.04mgpl	0.06mgpl	0.03mgpl	0.03mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from groundlevel inmtrs	2.3	-	-	2.47

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Test Report No. TLC/V/Env/TSPL/10/0617

dt05.07.2017

Description of Test: Phisico-chemical Analysis of Water

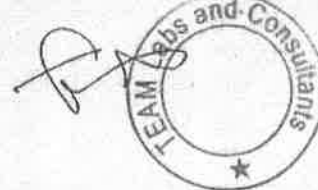
Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: Water samples as per Details given

Date of Sample Collected : 29.06.2017

No	Parameter	Komara vanipeta O. W. water	Bandaruvani peta O. W. water	Chinatonangi open well water	Batchuvanipeta open well water
1	pH	7.50	7.25	7.25	7.25
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	1050mgpl	1190mgpl	780mgpl	2290mgpl
5	Total Suspended Solids	5mgpl	5mgpl	5mgpl	5mgpl
6	Turbidity	4.0 NTU	3.0NTU	4.2NTU	5.5 NTU
7	Total Hardness as CaCo ₃	410mgpl	550mgpl	200mgpl	550mgpl
8	Calcium as CaCo ₃	290mgpl	350mgpl	130mgpl	370mgpl
9	Magnesium as CaCo ₃	120mgpl	200 mgpl	70mgpl	180mgpl
10	Chlorides Cl-	560mgpl	325mgpl	190mgpl	330mgpl
11	Flouride	0.5mgpl	0.5mgpl	0.4mgpl	0.6mgpl
12	Sulphates	132mgpl	390mgpl	85mgpl	365mgpl
13	Nitrates	50.0 mgpl	4.0 mgpl	12.0 mgpl	4.0 mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.05mgpl	0.04gpl	0.05mgpl	0.07mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	4.60	3.1	1.8	4.35

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TEST REPORTTest Report No. **TLC/V/Env/TSPL/8/0517**dt **05.06.2017**

Description of Test:

Phisico-chemical Analysis of Water

Name of the client:

Trimex Sands Pvt. Ltd.

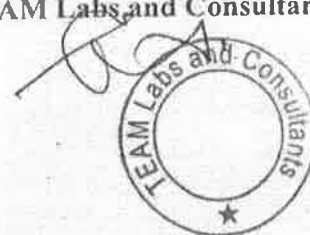
Location of sampling:

Water samples as per Details given

Date of Sample Collected :

16.05.2017

	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	7.95	8.1	8.05
2	Colour Hazen units	5	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	1250mgpl	1620mgpl	1890mgpl	770mgpl	2250mgpl
5	Total Suspended Solids	5mgpl	5mgpl	8mgpl	5mgpl	7mgpl
6	Turbidity	5.2 NTU	4.6 NTU	7.5NTU	2.2NTU	7.8 NTU
7	Total Hardness as CaCo3	420 mgpl	230mgpl	470mgpl	130mgpl	460mgpl
8	Calcium as CaCo3	270mgpl	150mgpl	310mgpl	90mgpl	290mgpl
9	Magnesium as CaCo3	150mgpl	80mgpl	160 mgpl	40mgpl	170 mgpl
10	Chlorides Cl-	190mgpl	260mgpl	410mgpl	80mgpl	505mgpl
11	Flouride	0.6mgpl	0.5mgpl	0.5mgpl	0.4mgpl	0.5mgpl
12	Sulphates	80mgpl	180mgpl	235mgpl	80mgpl	275mgpl
13	Nitrates	62.0 mgpl	22.5 mgpl	32.5 mgpl	5.0 mgpl	9.5 mgpl
14	Phosphates	BDL	BDL	BDL	BDL	BDL
15	Iron	0.06mgpl	0.06mgpl	0.06mgpl	0.05mgpl	0.04mgpl
16	Lead	BDL	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	4.3	3.5	4.7	8.35	4.17

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Registered Office :

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

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

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

Test Report No.TLC/V/Env/TSPL/9/0517

dt05.06.2017

Description of Test: Phisico-chemical Analysis of Water

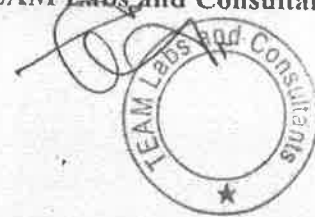
Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: Water samples as per Details given

Date of Sample Collected : 16.05.2017

No	parameter	PCP open well	Tails water	Pond at Vatchavalasa	MSP Open well
1	pH	7.6	7.8	8.15	7.95
2	Colour Hazen units	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	720	560mgpl	820	680mgpl
5	Total Suspended Solids	5	15mgpl	5	5mgpl
6	Turbidity	2.0 NTU	8.9NTU	1.8NTU	2.8 NTU
7	Total Hardness as CaCo3	105mgpl	90mgpl	150mgpl	220mgpl
8	Calcium as CaCo3	70mgpl	60mgpl	90mgpl	130mgpl
9	Magnesium as CaCo3	35mgpl	30mgpl	60mgpl	90mgpl
10	Chlorides Cl-	90mgpl	75mgpl	195mgpl	80mgpl
11	Flouride	0.5 mgpl	0.4mgpl	0.5 mgpl	0.4mgpl
12	Sulphates	65mgpl	55mgpl	30mgpl	50mgpl
13	Nitrates	0.5mgpl	0.5mgpl	1.0mgpl	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	2.2	-	-	2.7

For TEAM Labs and Consultants



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TEST REPORTTest Report No. **TLC/V/Env/TSPL/10/0517**dt**05.06.2017**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 : **16.05.2017**

No	Parameter	Komara vanipeta O. W. water	Bandaruvani peta O. W. water	Chinatonangi open well water	Batchuvanipeta open well water
1	pH	8.0	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	1550mgpl	1310mgpl	690mgpl	1990mgpl
5	Total Suspended Solids	5mgpl	5mgpl	5mgpl	5mgpl
6	Turbidity	5.0 NTU	5.0NTU	3.2NTU	8.8 NTU
7	Total Hardness as CaCo3	470mgpl	580mgpl	210mgpl	580mgpl
8	Calcium as CaCo3	340mgpl	360mgpl	140mgpl	390mgpl
9	Magnesium as CaCo3	130mgpl	220 mgpl	70mgpl	190mgpl
10	Chlorides Cl-	285mgpl	360mgpl	140mgpl	480mgpl
11	Flouride	0.5mgpl	0.5mgpl	0.4mgpl	0.6mgpl
12	Sulphates	120mgpl	380mgpl	36mgpl	270mgpl
13	Nitrates	55.0 mgpl	10.0 mgpl	15.0 mgpl	9.0 mgpl
14	Phosphates	BDL	BDL	BDL	BDL
15	Iron	0.05mgpl	0.04gpl	0.07mgpl	0.06mgpl
16	Lead	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	4.45	3.5	2.3	4.19

For **TEAM Labs and Consultants**

Labs and Consultants

2384

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

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TEST REPORT

Test Report No. TLC/V/Env/TSPL/8/0417

dt 06.05.2017

Description of Test: Phisico-chemical Analysis of Water

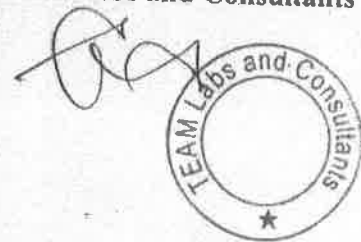
Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: Water samples as per Details given

Date of Sample Collected : 12.04.2017

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	8.05	7.90	8.2	8.05
2	Colour Hazen units	5	5	5	5	5
3	Odour	un objectionable	un objectionable	un objectionable	un objectionable	un objectionable
4	Total Dissolved solids	1050mgpl	1350mgpl	2050mgpl	690mgpl	2250mgpl
5	Total Suspended Solids	5mgpl	5mgpl	8mgpl	5mgpl	7mgpl
6	Turbidity	4.9 NTU	5.6 NTU	9.5NTU	2.5NTU	9.8 NTU
7	Total Hardness as CaCo3	410 mgpl	210mgpl	480mgpl	120mgpl	480mgpl
8	Calcium as CaCo3	260mgpl	150mgpl	310mgpl	80mgpl	310mgpl
9	Magnesium as CaCo3	150mgpl	60mgpl	170 mgpl	40mgpl	170 mgpl
10	Chlorides Cl-	180mgpl	240mgpl	430mgpl	70mgpl	510mgpl
11	Flouride	0.6mgpl	0.5mgpl	0.5mgpl	0.4mgpl	0.5mgpl
12	Sulphates	85mgpl	190mgpl	225mgpl	70mgpl	265mgpl
13	Nitrates	69.0 mgpl	27.5 mgpl	38.5 mgpl	5.0 mgpl	11.5 mgpl
14	Phosphates	BDL	BDL	BDL	BDL	BDL
15	Iron	0.06mgpl	0.06mgpl	0.06mgpl	0.05mgpl	0.04mgpl
16	Lead	BDL	BDL	BDL	BDL	BDL
	Water table from ground level in mtrs	4.2	3.35	4.57	8.2	4.17

For TEAM Labs and Consultants



Labs and Consultants

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2385

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Description of Test: Phisico-chemical Analysis of Water

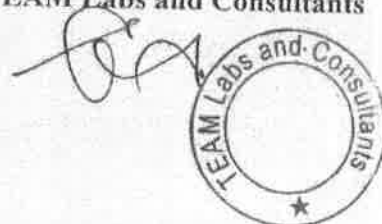
Name of the client: Trimex Sands Pvt. Ltd.

Location of sampling: Water samples as per Details given

Date of Sample Collected : 12.04.2017

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	420	360mgpl	740	450mgpl
5	Total Suspended Solids	5	12mgpl	5	5mgpl
6	Turbidity	1.7NTU	5.9NTU	1.5NTU	3.8 NTU
7	Total Hardness as CaCo3	90mgpl	95mgpl	150mgpl	210mgpl
8	Calcium as CaCo3	60mgpl	60mgpl	90mgpl	120mgpl
9	Magnesium as CaCo3	30mgpl	35mgpl	60mgpl	90mgpl
10	Chlorides Cl-	95mgpl	65mgpl	205mgpl	85mgpl
11	Flouride	0.5 mgpl	0.4mgpl	0.5 mgpl	0.4mgpl
12	Sulphates	50mgpl	50mgpl	35mgpl	45mgpl
13	Nitrates	0.5mgpl	0.5mgpl	1.0mgpl	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	2.0	-	-	2.65

For TEAM Labs and Consultants



Piezometer Monitoring for the month of July-2017

Location	Date	Time	Temp (C)	pH	EC (uS/cm @25C)	TDS (mg/L)	SAL (PSU)	Water Table +MSL
PM-1	31-Jul-17	12:50:00	30.1	7.76	585	380	0.25	0.578
PM-2	30-Jul-17	12:28:00	32.8	6.97	545	354	0.23	6.894
PM-3	31-Jul-17	12:13:00	30.9	6.95	348	226	0.11	3.216
PM-4	31-Jul-17	10:07:00	30.3	7.36	338	219	0.11	3.640
PM-5	30-Jul-17	11:26:00	30.5	7.12	299	194	0.09	4.427
PM-6	30-Jul-17	11:03:00	30.3	7.55	289	187	0.09	1.030
PM-7	30-Jul-17	11:43:00	29.6	6.99	161	104	0.05	0.930

Piezometer Monitoring for the month of August-2017

Location	Date	Time	Temp (C)	pH	EC (uS/cm @25C)	TDS (mg/L)	SAL (PSU)	Water Table +MSL
PM-1	31-Aug-17	12:47:31	30.1	7.65	367	238	0.12	0.978
PM-2	31-Aug-17	12:25:46	32.3	7.57	465	302	0.15	7.094
PM-3	31-Aug-17	12:15:30	31.3	7.05	312	202	0.1	3.866
PM-4	31-Aug-17	11:09:20	30.5	7.49	361	234	0.11	3.670
PM-5	31-Aug-17	11:36:38	30.7	7.63	278	180	0.09	4.597
PM-6	31-Aug-17	11:22:54	31.1	7.79	259	168	0.08	1.090
PM-7	31-Aug-17	11:49:24	30.1	7.47	161	104	0.05	1.430

Piezometer Monitoring for the month of September-2017

Location	Date	Time	Temp (C)	pH	EC (uS/cm @25C)	TDS (mg/L)	SAL (PSU)	Water Table +MSL
PM-1	29-Sep-17	14:42:05	29.9	7.82	470	305	0.15	0.928
PM-2	29-Sep-17	11:49:23	32.3	7.45	443	287	0.14	6.894
PM-3	29-Sep-17	11:39:40	30.9	7.03	306	198	0.1	3.216
PM-4	29-Sep-17	10:58:07	31.2	7.28	320	208	0.10	3.610
PM-5	29-Sep-17	11:05:54	31.5	7.67	278	180	0.09	4.477
PM-6	29-Sep-17	10:42:11	31.1	8.31	259	168	0.08	0.800
PM-7	29-Sep-17	11:19:24	30.2	7.54	130	84	0.04	1.900

Piezometer Monitoring for the month of April-2017

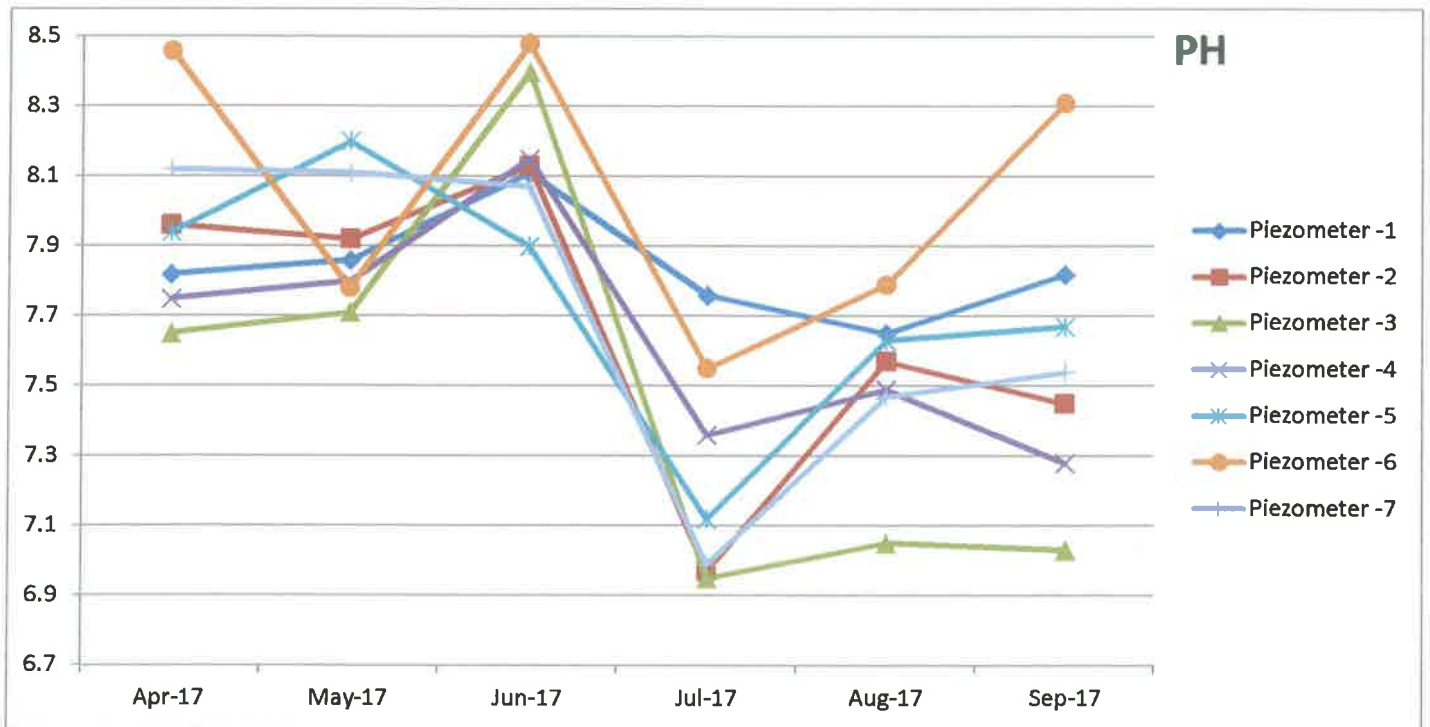
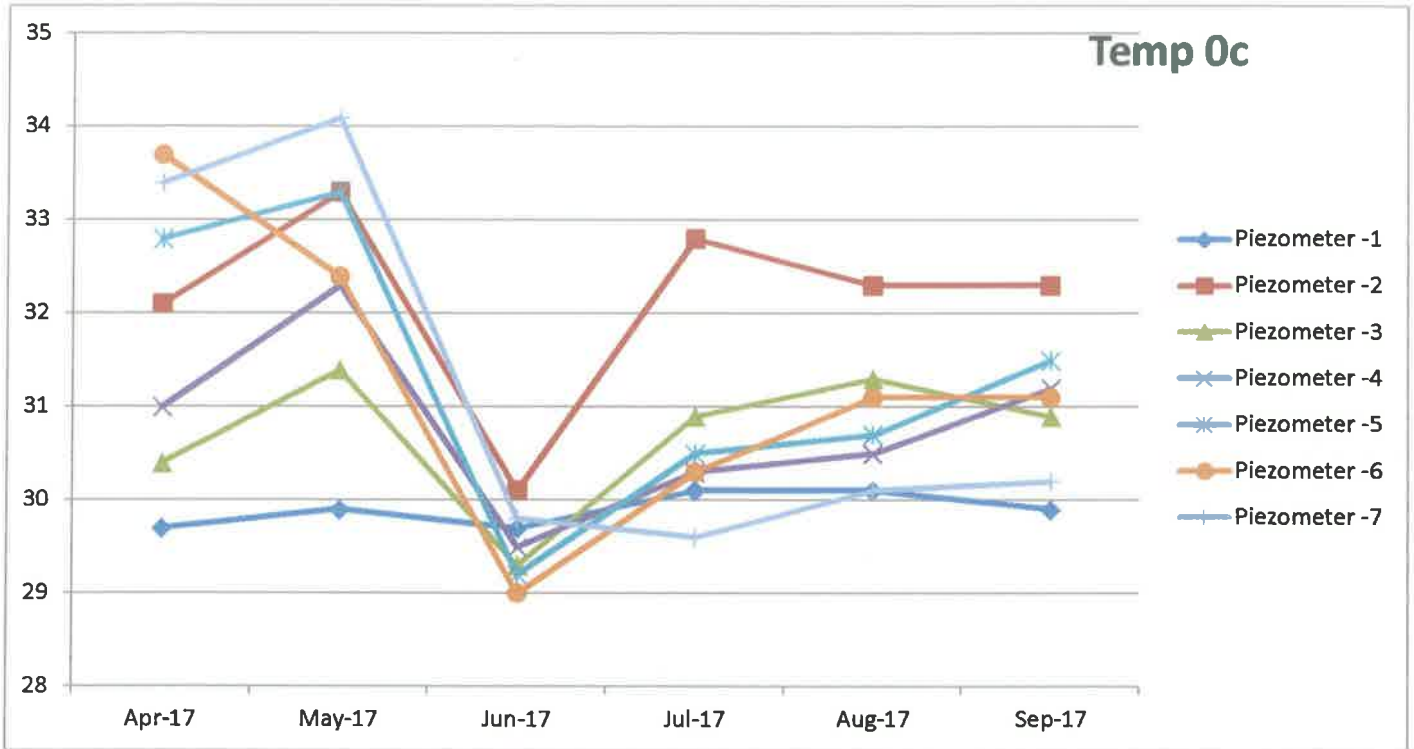
Location	Date	Time	Temp (C)	pH	EC (uS/cm @25C)	TDS (mg/L)	SAL (PSU)	Water Table +MSL
PM-1	30-Apr-17	8:41:21	29.7	7.82	582	378	0.24	0.428
PM-2	30-Apr-17	9:24:37	32.1	7.96	413	268	0.13	7.594
PM-3	30-Apr-17	9:13:41	30.4	7.65	235	152	0.07	2.866
PM-4	30-Apr-17	8:57:22	31	7.75	381	247	0.12	2.890
PM-5	30-Apr-17	10:13:25	32.8	7.94	309	200	0.1	4.047
PM-6	30-Apr-17	10:03:45	33.7	8.46	160	104	0.05	0.820
PM-7	30-Apr-17	9:49:25	33.4	8.12	330	210	0.1	0.840

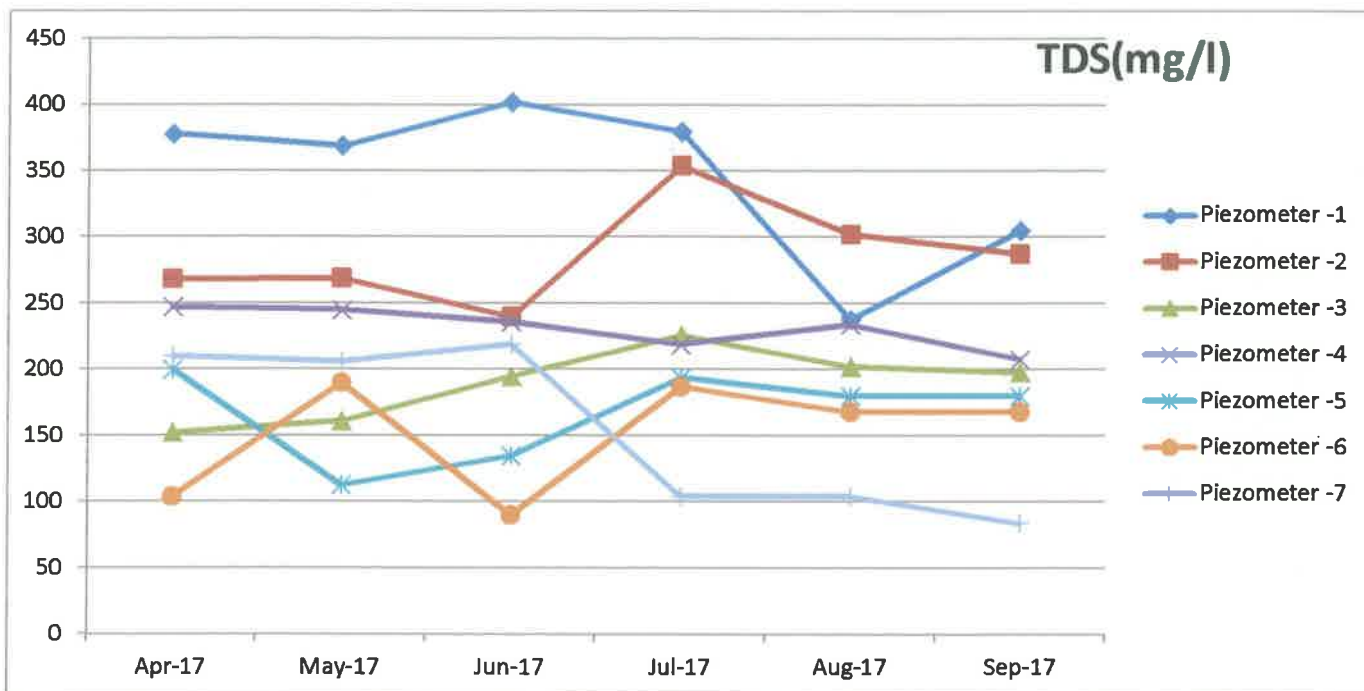
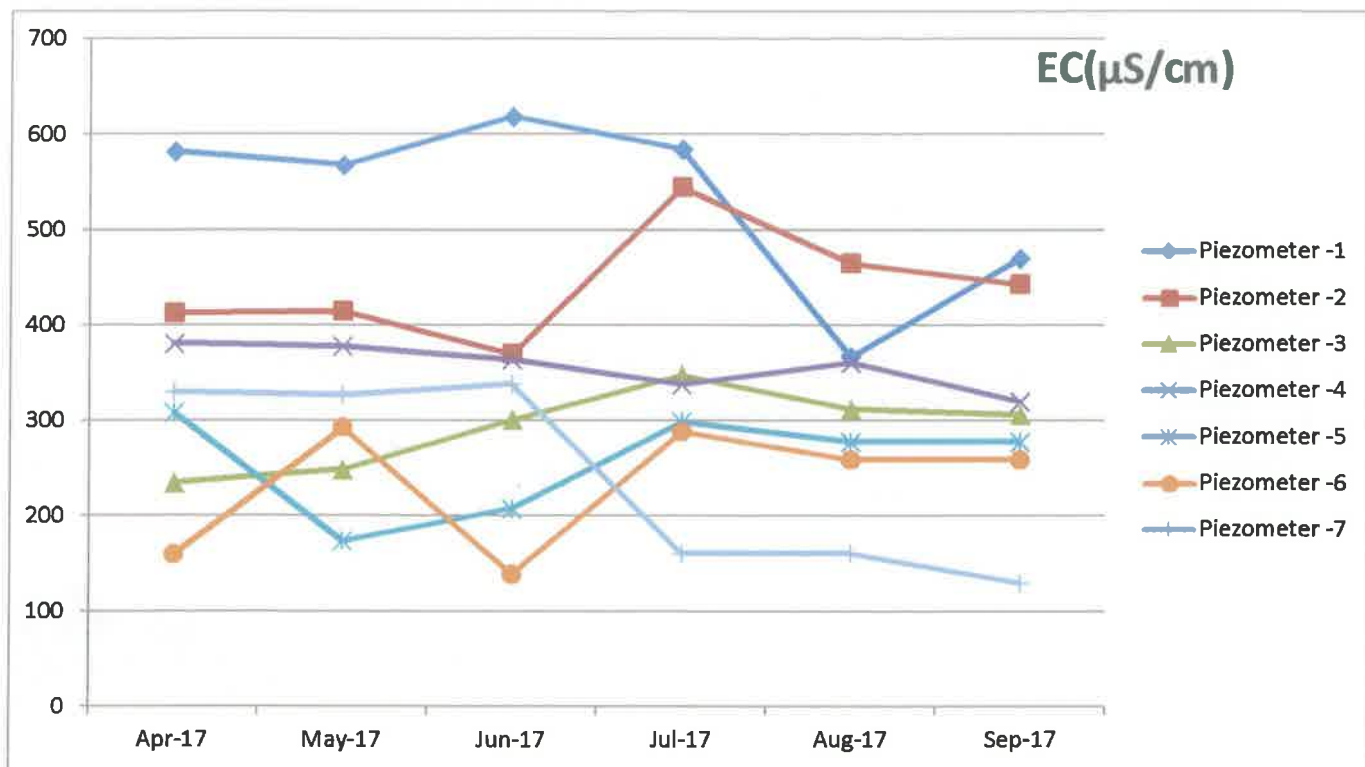
Piezometer Monitoring for the month of May-2017

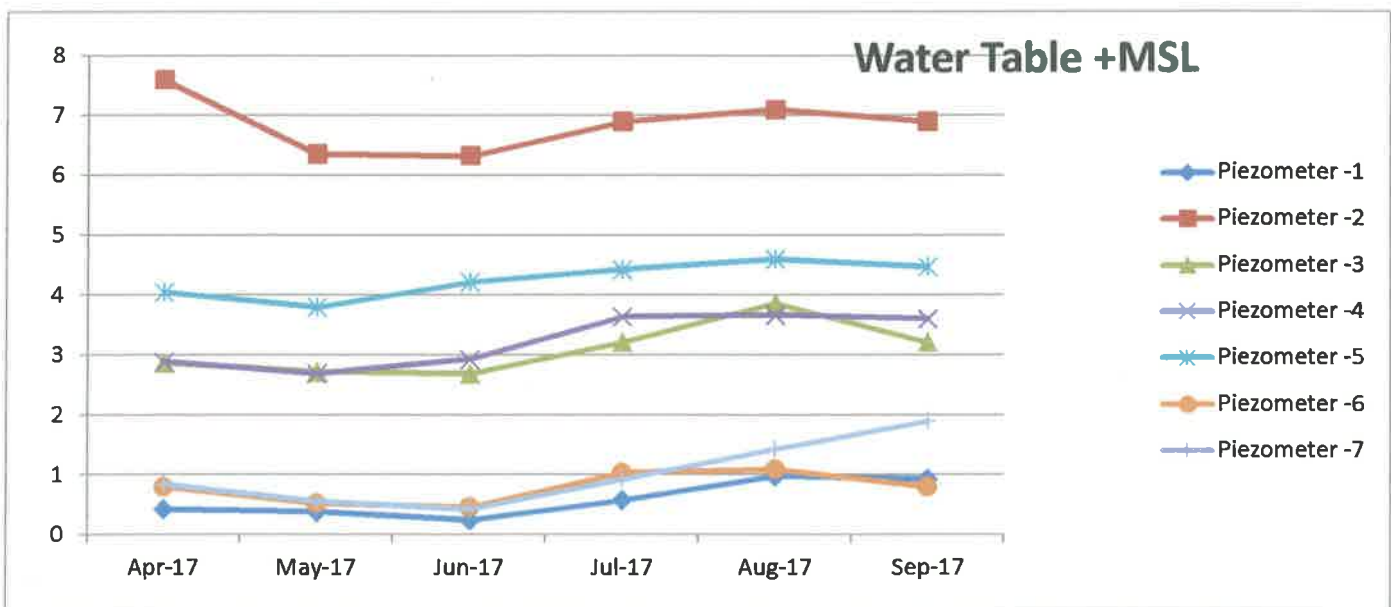
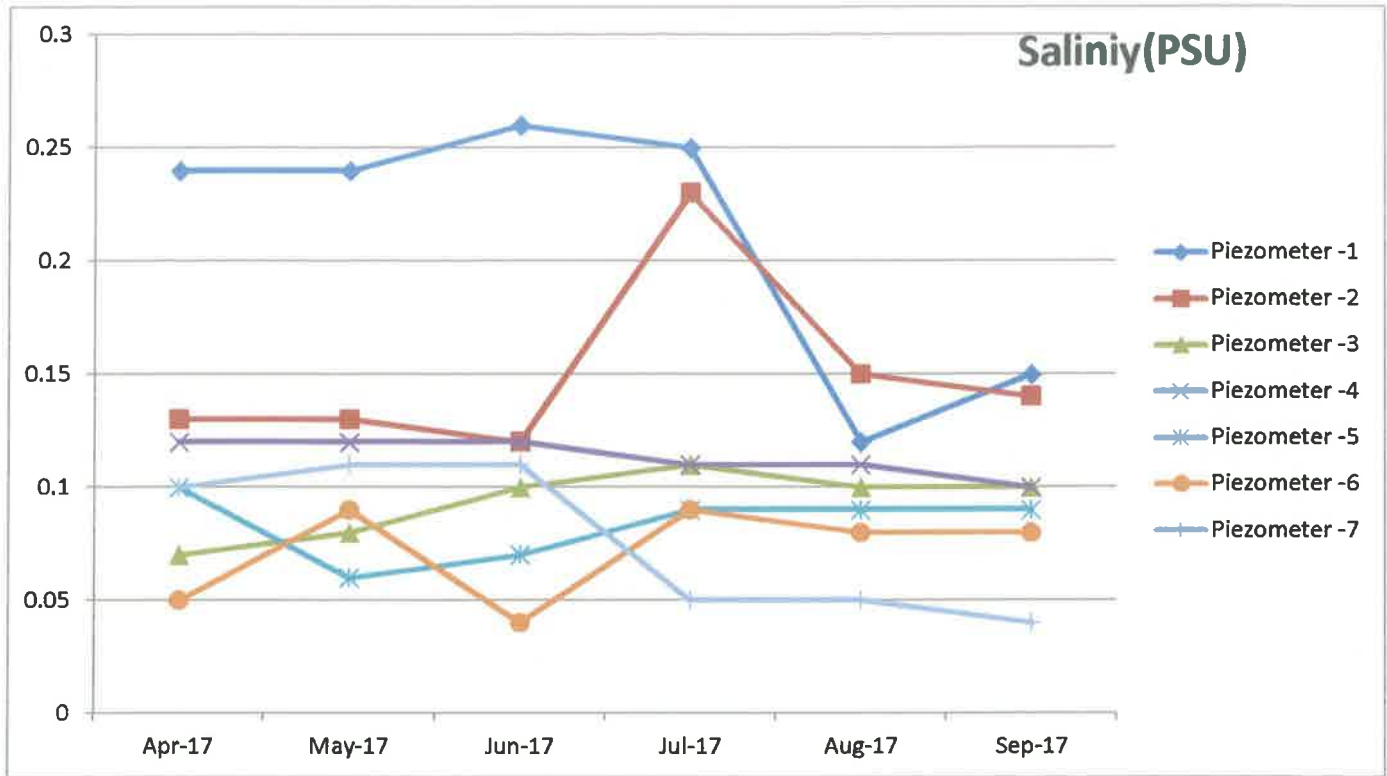
Location	Date	Time	Temp (C)	pH	EC (uS/cm @25C)	TDS (mg/L)	SAL (PSU)	Water Table +MSL
PM-1	31-May-17	10:48:07	29.9	7.86	568	369	0.24	0.378
PM-2	31-May-17	11:33:19	33.3	7.92	415	269	0.13	6.354
PM-3	31-May-17	11:22:55	31.4	7.71	249	161	0.08	2.716
PM-4	31-May-17	11:01:57	32.3	7.8	378	245	0.12	2.690
PM-5	31-May-17	12:05:53	33.3	8.2	174	113	0.06	3.797
PM-6	31-May-17	12:14:19	32.4	7.78	293	190	0.09	0.520
PM-7	31-May-17	11:53:44	34.1	8.11	327	206	0.11	0.550

Piezometer Monitoring for the month of June-2017

Location	Date	Time	Temp (C)	pH	EC (uS/cm @25C)	TDS (mg/L)	SAL (PSU)	Water Table +MSL
PM-1	30-Jun-17	15:35:47	29.7	8.11	619	402	0.26	0.248
PM-2	30-Jun-17	15:18:11	30.1	8.13	370	240	0.12	6.324
PM-3	30-Jun-17	15:09:03	29.3	8.4	301	195	0.1	2.686
PM-4	30-Jun-17	15:47:42	29.5	8.15	364	236	0.12	2.930
PM-5	30-Jun-17	14:05:09	29.2	7.9	208	135	0.07	4.217
PM-6	30-Jun-17	13:51:54	29	8.48	139	90	0.04	0.460
PM-7	30-Jun-17	14:53:26	29.8	8.07	338	219	0.11	0.430









Annexure - 8

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

Srikakulam,
27.09.2017.

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

Dear Sir,

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

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

Thanking You

Yours faithfully

Sr. Vice President (Mining)

Cc:

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

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

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

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

CIN : U14299TN2004PTC071437

FORM - V
(See Rule 14)

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

PART - A

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

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

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

PART - B

(i) Water consumption, m³/d :

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

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

ii) Raw Material Consumption:

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

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

PART C

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

PART – D

HAZARDOUS WASTES

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

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

PART – E

SOLID WASTES:-

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

PART - F

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

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

PART - G

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

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

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

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

Expenditure on Pollution control measures and Conservation of Natural Resources

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

PART - H

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

Air Pollution Control Measures

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

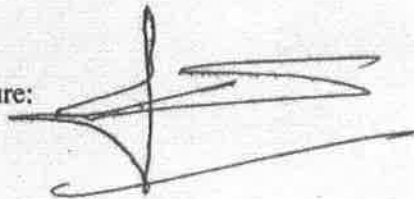
PART - I

Any other particulars for improving the quality of the environment.

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

Place: Srikakulam

Signature:



Date: 27-09-2017

Designation: Sr. Vice President (Mines)

Registered Office :

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

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

TEST REPORT

Test Report No .TLC /V/Env/ TSPL/2/0917

dt 05.10.2017

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:

21.09.2017

No	Parameter	Stack attaced to combined Bagfilter of Garnet & Sillimanite Dryers	IRZ Dryer Bag filter Outlet
1	Date of sampling	21.09.2017	21.09.2017
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	51	62
6	Exit gas velocity (m/s)	27.9	16.2
7	Flue gas flow rateNM ³ /hr	26143	49285
8	Emission Rates		
9	Dust concentration mg/NM ³	95	72

For TEAM Labs and Consultants



Labs and Consultants

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL/2/0817

dt 06.09.2017

Description of Test:

Stack Emissions Analysis

Name of the client:

Trimex Sands Pvt. Ltd. Vatchavalasa, Srikakulam Dt.

Location of sampling:

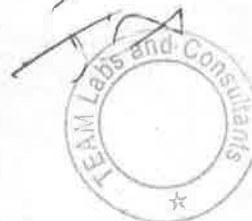
Baghouse attached to IRZ Dryer

Date of Sampling:

17.08.2017

No	Parameter	Stack attaced to combined Bagfilter of Garnet & Sillimanite Dryers	IRZ Dryer Bag filter Outlet
1	Date of sampling	17.08.2017	17.08.2017
2	Stack height(m)	35	
3	Duct diameter (m)	0.6	35
4	Stack area (m)	0.283	1.1
5	Flue gas temp ^o c	68	0.950
6	Exit gas velocity (m/s)	32.0	77
7	Flue gas flow rate NM ³ /hr	28490	22.0
8	Emission Rates		64061
9	Dust concentration mg/NM ³	69	85

For TEAM Labs and Consultants



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TEST REPORT

Test Report No .TLC /V/Env/ TSPL/2/0717

dt 05.08.2017

Description of Test: Stack Emissions Analysis

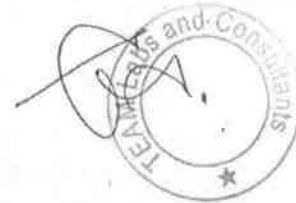
Name of the client: Trimex Sands Pvt. Ltd. Vatchavalasa, Srikakulam Dt.

Location of sampling: Baghouse attached to IRZ Dryer

Date of Sampling: 17.07.2017

No	Parameter	Stack attaced to combined Bagfilter of Garnet & Sillimanite Dryers	IRZ Dryer Bag filter Outlet
1	Date of sampling	17.07.2017	17.07.2017
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	57	62
6	Exit gas velocity (m/s)	40.0	21.0
7	Flue gas flow rate NM ³ /hr	36800	63887
8	Emission Rates		
9	Dust concentration mg/NM ³	64	90

For TEAM Labs and Consultants



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TEST REPORT

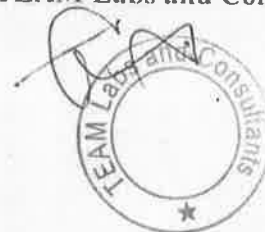
Test Report No .TLC /V/Env/ TSPL/2/0617

dt 05.07.2017

Description of Test: Stack Emissions Analysis
Name of the client: Trinix Sands Pvt. Ltd. Vatchavalasa, Srikakulam Dt.
Location of sampling: Baghouse attached to IRZ Dryer
Date of Sampling: 28.06.2017

No	Parameter	Stack attaced to combined Bagfilter of Garnet & Sillimanite Dryers	IRZ.Dryer Bag filter Outlet
1	Date of sampling	28.06.2017	28.06.2017
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	53	65
6	Exit gas velocity (m/s)	44.8	23.3
7	Flue gas flow rateNM ³ /hr	41722	70256
8	Emission Rates		
9	Dust cqncentration mg/NM ³	62	94

For TEAM Labs and Consultants



Labs and Consultants

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TEST REPORT

Test Report No .TLC /V/Env/ TSPL/2/0517

dt 05.06.2017

Description of Test:

Stack Emissions Analysis

Name of the client:

Trimex Sands Pvt. Ltd. Vatchavalasa, Srikakulam Dt.

Location of sampling:

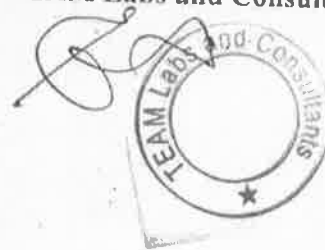
Baghouse attached to IRZ Dryer

Date of Sampling:

16.05.2017

No	Parameter	Stack attached to combined Bagfilter of Garnet & Sillimanite Dryers	IRZ Dryer Bag filter Outlet
1	Date of sampling	16.05.2017	16.05.2017
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	57	73
6	Exit gas velocity (m/s)	20.0	24.0
7	Flue gas flow rateNM ³ /hr	18400	70693
8	Emission Rates		
9	Dust concentration mg/NM ³	70	78

For TEAM Labs and Consultants



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TEST REPORT

Test Report No .TLC /V/Env/ TSPL/2/0417

dt 06.05.2017

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: 12.04.2017

No	Parameter	Stack attached to combined Bagfilter of Garnet & Sillimanite Dryers	IRZ Dryer Bag filter Outlet
1	Date of sampling	12.04.2017	12.04.2017
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	52	70
6	Exit gas velocity (m/s)	19.0	24.0
7	Flue gas flow rate NM ³ /hr	17749	71311
8	Emission Rates		
9	Dust concentration mg/NM ³	72	89

For TEAM Labs and Consultants



Labs and Consultants**Registered Office :**

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

TEST REPORTTest Report No. **TLC/V/Env/TSPL/11/0917**dt **05.10.2017**

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: **21.09.2017**

No	Parameter	IRZ Dryer Bag filter Inlet	IRZ Dryer Bag filter Outlet
1	Date of sampling	21.09.2017	21.09.2017
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	72	62
6	Exit gas velocity (m/s)	25.0	16.2
7	Flue gas flow rate NM ³ /hr	61025	49285
8	Dust concentration mg/NM ³	730	72
9	Removal efficiency	90.1%	

For TEAM Labs and Consultants



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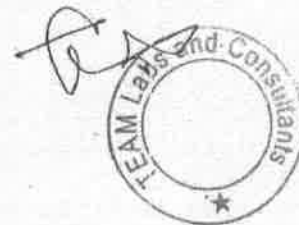
ISO 9001 : 2008, ISO 14001 : 2004 and OHSAS 18001 : 2007 Certified Organization
Laboratory Recognised by Ministry Environment, Forests and Climate Change, Gol, New Delhi

TEST REPORTTest Report No. **TLC/V/Env/TSPL/11/0617**dt **05.07.2017**

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: **28.06.2017**

No	Parameter	IRZ Dryer Bag filter Inlet	IRZ Dryer Bag filter Outlet
1	Date of sampling	28.06.2017	28.06.2017
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	72	65
6	Exit gas velocity (m/s)	30	23.3
7	Flue gas flow rate NM ³ /hr	73230	70256
8	Dust concentration mg/NM ³	835	94
9	Removal efficiency	88.7%	

For TEAM Labs and Consultants



Back filling



Water Sprinkling on Haul Roads



Registered AD

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

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

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

Date: 2 MAR 2017

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

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

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

Sir,

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

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

Yours faithfully,

(Pankaj K. Vishveshtha)
Regional controller of Mines

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

Copy for kind information to:

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

I

(Pankaj Kulshreshtha)
Regional controller of Mines



TSPL/MIN/AERB/17-18/1121

04-11-2017.
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 Jul to Sep, 2017.

Thanking You,

Yours truly,

Sr. Vice President (Mines)

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

Date: 04-11-2017.

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

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

		No. of persons monitored	Collective dose (person-mSv)	Average Individual dose (mSv)	Maximum Individual dose (mSv)
Quarter	Regular	28	13.25	0.47	0.90
	Temporary	NIL	NIL	NIL	NIL
Cumulative in the year	Regular	30	27.05	0.90	2.05
	Temporary	NIL	NIL	NIL	NIL

1.1 INDIVIDUAL DOSE STATICS

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

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)	1010233	161251(*)	---	61705	2070	1240	16342	12956	848982	54713	601
Monazite (%)	0.100	IRZ - 0.616 GA - 0.105 SI - 0.043	---	0.049	0.077	0.193	0.033	0.010	0.037	0.498	60.611

(*) 11624 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	0.2-0.5
• Raw material Storage	0.5 - 0.7
• Pre Concentration Plant out put	IRZ con : 2 - 3 GA con : 0.1-0.3 Sil con : 0.1-0.3
• 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 - 0.6
• Raw material Storage	IRZ con : 2 - 3 GA con : 0.10 - 0.25 Sil con : 0.10 - 0.20
• Inside Mineral Separating plant(eg Magnetic, High tension separators)	0.5 - 0.9
• Monazite Enriched tailings storage area	20-90
• 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-

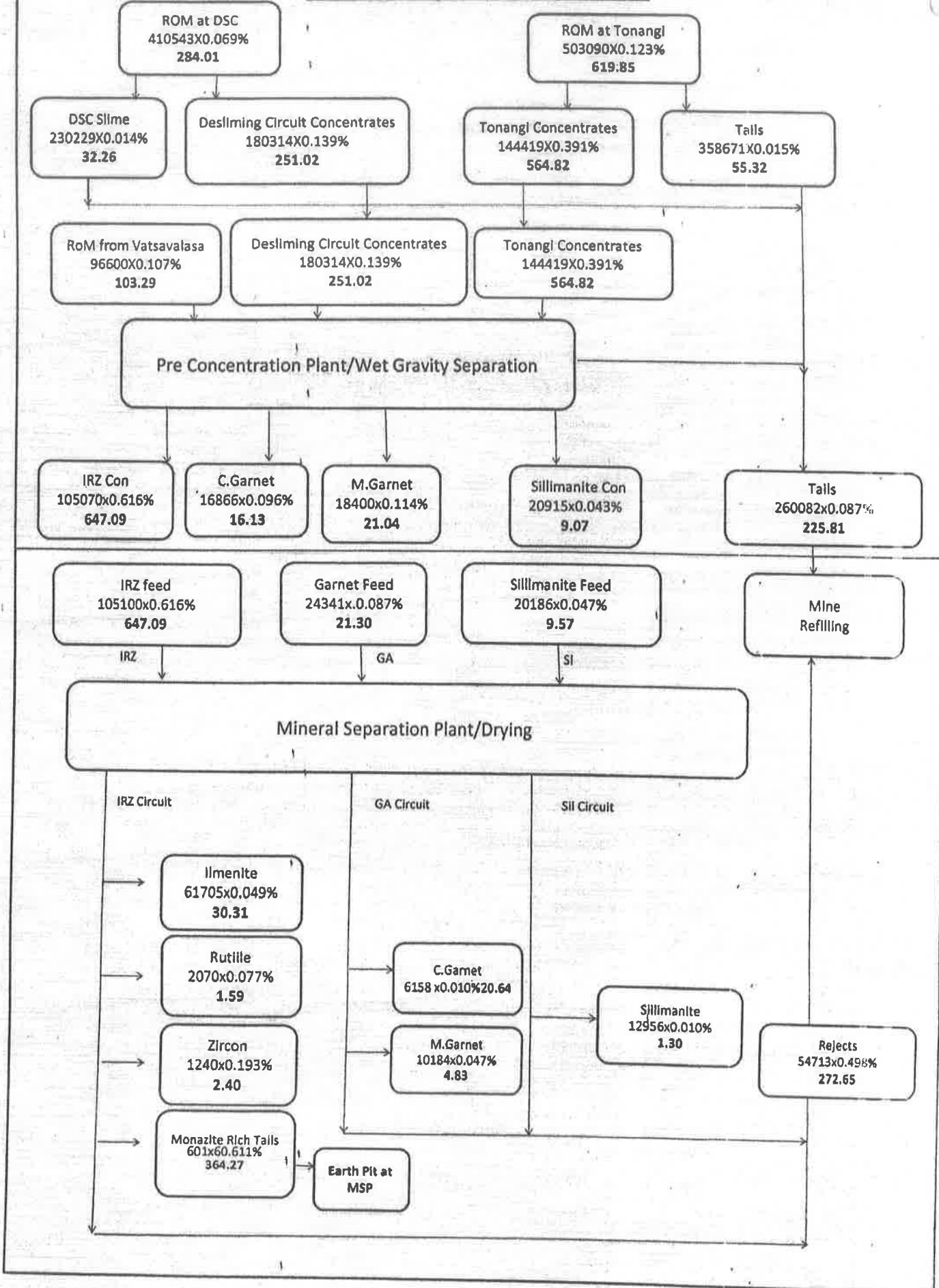
The table is indicative nature .If necessary; facility may be including other area also.



(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 40-1, A.P

MONAZITE MATERIAL BALANCE



AVANTEC LABORATORIES (P) LTD.,
No. 17, Adigar Anna Industrial Estate, Mettukuppam, Vanagaram, Chennai - 600 095.
Personnel Monitoring Services

Institution No. : 015026
 Address : TRIMEX SANDS PVT LTD
 VATSAVALASA (V), GARA (M),
 SRIKAKULAM (DIST),
 SRIKAKULAM, ANDHRAPRADESH,
 INDIA - 532304

SERVICE FREQUENCY : YEAR 2017
 Report Date : 27/10/2017

#	Post. No.	Name	Worn At	Whole Body Dose (mSv)				Current Year	Beta Dose (mSv)	Beta Total (mSv)	Wrist Dose (mSv) (RCG+H = Total)	Wrist Total mSv
				Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec					
1	0006	RAJUM	C	0.00	0.00	0.15	0.15	-	-	-	-	
2	0008	RAMAKRISHNA.P	C	0.05	0.00	0.40	0.45	-	-	-	-	
3	0011	SATYAM.T	C	0.05	0.45	0.60	1.10	-	-	-	-	
4	0013	KAMA RAJU.T	C	0.05	0.55	0.80	1.40	-	-	-	-	
5	0014	RAMA RAO.P	C	0.00	0.00	0.35	0.35	-	-	-	-	
6	0015	VENKATA RAO.P	C	0.05	0.70	0.75	1.50	-	-	-	-	
7	0016	RAMA RAO.T	C	0.00	0.00	0.60	0.60	-	-	-	-	
8	0017	SIMHACHALAM.THAMADA	C	0.50	0.50	0.65	1.65	-	-	-	-	
9	0018	RADHA KRISHNAK	C	0.05	0.00	0.50	0.55	-	-	-	-	
10	0019	SIMHACHALAM.TELUKUTI	C	0.55	0.25	0.45	1.25	-	-	-	-	
11	0020	RAMA RAO.M	C	1.00	0.35	0.70	2.05	-	-	-	-	
12	0021	NARAYANA RAO.D	C	0.55	0.40	0.50	1.45	-	-	-	-	
13	0022	DANAYYA.T	C	0.45	0.55	0.70	1.70	-	-	-	-	
14	0023	RAMA RAJU.S	C	0.00	0.00	0.00	0.00	-	-	-	-	
15	0024	SRIJUVASA RAO.B	C	0.45	0.50	0.90	1.85	-	-	-	-	
16	0025	BHAGAVAND	C	0.00	0.00	0.55	0.55	-	-	-	-	
17	0029	SHRILMYPILLI NAGA RAJU	C	0.05	0.65	0.35	1.05	-	-	-	-	
18	003E	SHRI.SAMPATHI RAO PRASANNA KL	C	0.00	-	-	0.00	-	-	-	-	
19	0034	Dr.VENKATESHAB	C	0.00	0.45	0.60	1.05	-	-	-	-	
20	0035	SHRI.SHAIK NAZEER	C	0.00	0.00	0.00	0.00	-	-	-	-	
21	0036	SHRIANVESH MAMIDI	C	0.00	-	-	0.00	-	-	-	-	
22	0037	SHRIAPPALA NAIDUP	C	0.05	0.40	0.30	0.75	-	-	-	-	
23	0038	SHRI.BHANOJI RAO.B	C	0.60	0.00	0.60	1.20	-	-	-	-	
24	0039	SHRI.RAMA RAO.D	C	0.05	0.55	0.80	1.40	-	-	-	-	
25	0040	SHRI.GOVINDA RAO.J	C	0.65	0.50	0.60	1.75	-	-	-	-	
26	0041	SHRI.RAMANA MURTHY.CH	C	0.00	0.00	0.10	0.10	-	-	-	-	
27	0042	SHRI.TAMADA APPANNA	C	0.55	0.35	0.55	1.45	-	-	-	-	
28	0043	SHRI.NARAYANASWAMI.T	C	0.50	0.00	0.50	1.00	-	-	-	-	
29	0044	SHRI.RAMA KRISHNA.K	C	0.45	0.00	0.25	0.70	-	-	-	-	

# Para. No.	Name	Item	Whole Body Dose (mSv)				Dose (mSv)	Dose Total (mSv)	Whole Body Dose (mSv) = Total	Whole Body Dose (mSv)
			Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec				
30	0045	SHRI. JAGADESWARA RAO J	C	0.00	0.00	0.00	-	-	-	

Notes :

1. All doses are reported in millisievert (mSv=100mR/hr).
3. Where 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 dose meter not used.
9. ' ' TLD cards are spoiled or contaminated.

2. No Dose reported for new person unless PDX received.
4. Dose below measurable level for X-RAY=0.05 mSv, BETA=0.30 mSv and GAMMA=0.10 mSv is shown zero.
6. Cumulative effective dose for a block of sliding 5 years (current year + previous 4 years) is 100 mSv.
8. ' ' means Total dose=20mSv. Inform details of the radiation work/practice to BARCA/ERB.
10. ' ' means letter sent regarding over exposure > 100 mSv.

Checked By

Authenticated B

P. AYAPPAN
SR. SCIENTIFIC



TSPL/MIN/AERB/17-18/1098

04-08-2017.
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 Apr to Jun, 2017.

Thanking You,

Yours truly,

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

Vice President (Mines)

Trimex Sands Pvt Ltd: Vatchavafasa (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**

Name of the facility : TRIMEX SANDS PVT LTD. Date: 04-08-2017.
 Location of the facility : SRIKAKULAM, ANDHRAPRADESH
 Period Reporting : Apr.2017 to Jun.2017.

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

		No. of persons monitored	Collective dose (person-mSv)	Average Individual dose (mSv)	Maximum Individual dose (mSv)
Quarter	Regular	28	7.15	0.26	0.70
	Temporary	NIL	NIL	NIL	NIL
Cumulative in the year	Regular	30	13.80	0.46	1.35
	Temporary	NIL	NIL	NIL	NIL

1.1 INDIVIDUAL DOSE STATICS

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

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)	1148974	179006(*)	---	68346	2152	1290	13109	12168	969968	71104	695
Monazite (%)	0.095	IRZ - 0.666 GA - 0.105 SI - 0.043	---	0.050	0.076	0.193	0.028	0.010	0.027	0.466	63.53%

(*) 9942 MT of Concentrate material generated from Pre-Concentration Plant was stored inside the PCP premises.

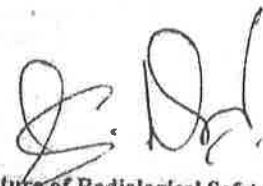
METHOD OF DISPOSAL OF MONAZITE ENRICHED TAILINGS (Tick whichever is applicable)

- 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 : 0.1-0.3 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 - 0.4 Sil con : 0.1 - 0.3
• Inside Mineral Separating plant(eg Magnetic, High tension separators)	0.6 - 0.9
• Monazite Enriched tailings storage area	40-90
• 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.

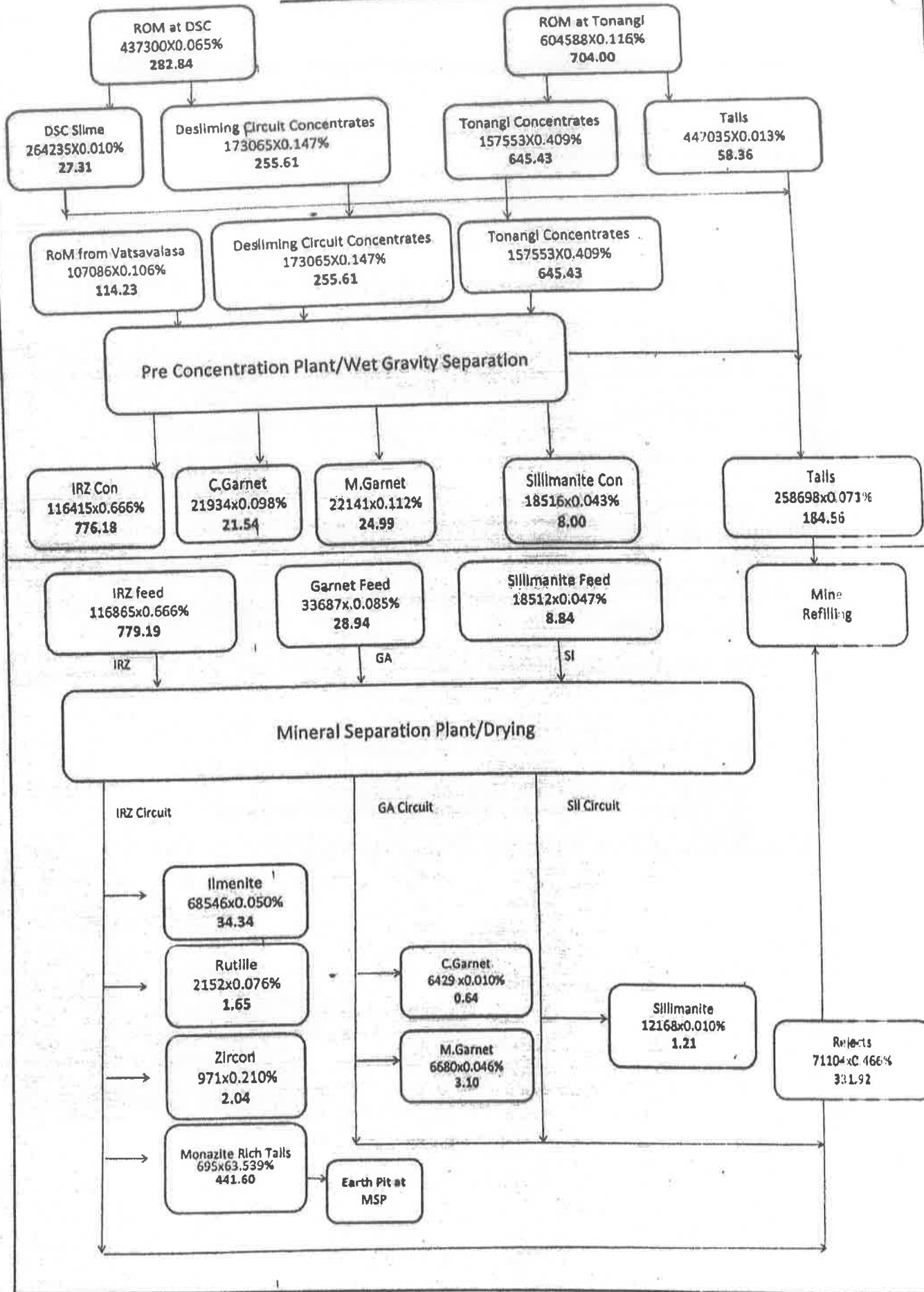


(Signature of Radiological Safety Officer)

Signature of the Employer with Official Seal & Date

**RADIOLOGICAL SAFETY OFFICE R
TRIMEX SANDS PVT LTD.,
VATSAVAI, A.S.A (V), GARA (M)
SRIKAKULAM (DIST)-532 404, A.P**

MONAZITE MATERIAL BALANCE



Identification No. : 015026
 Address : TRIBEX SANDS PVT LTD
 VATSAVALASA (V), GARPA (M),
 SRIRAKULAM (DIST),
 SRIRAKULAM, ANDHRA PRADESH,
 INDIA - 523404

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

SERVICE FREQUENCY : QUARTERLY YEAR : 2017
 Report Date : 03/08/2017

#	Para. No.	Name	Worn At	Whole Body Dose (mSv)					Current Year Total	Beta Dose (mSv)	Beta Total (mSv)	White Dose (mSv) (XG+B) Total	White Total mSv
				Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec						
1	0008	RAJUM	C	0.00	0.00			0.00					
2	0008	RAJAKRISHNA P	C	0.05	0.00			0.05					
3	0011	SATYAM T	C	0.05	0.45			0.50					
4	0013	KAMA RAJUT	C	0.05	0.55			0.60					
5	0014	RAMA RAO P	C	0.00	0.00			0.00					
6	0015	VENKATA RAO P	C	0.05	0.70			0.75					
7	0016	RAMA RAO T	C	0.00	0.00			0.00					
8	0017	SARACHALAM THAMADA	C	0.50	0.50			1.00					
9	0018	RADHA KRISHNAK	C	0.05	0.00			0.05					
10	0019	SARACHALAM TELUKUTI	C	0.55	0.25			0.80					
11	0020	RAMA RAO M	C	1.00	0.35			1.35					
12	0021	NARAYANA RAO D	C	0.55	0.40			0.95					
13	0022	DANAYYA T	C	0.45	0.55			1.00					
14	0023	RAMA RAJUS	C	0.00	0.00			0.00					
15	0024	SRINIVASA RAO B	C	0.45	0.50			0.95					
16	0025	BHAGAVAN D	C	0.00	0.00			0.00					
17	0029	SHRI ANILPILLI NAGA RAJU	C	0.05	0.65			0.70					
18	0032	SHRI SAMPATHI RAO PRASANNA KI	C	0.00				0.00					
19	0034	D VENKATESHA B	C	0.00	0.45			0.45					
20	0035	SHRI SHAIK NAZEER	C	0.00	0.00			0.00					
21	0036	SHRI ANWESH MAADI	C	0.00	0.00			0.00					
22	0037	SHRI APPALA NADU P	C	0.05	0.40			0.45					
23	0038	SHRI BHANUJI RAO B	C	0.60	0.00			0.60					
24	0039	SHRI RAMA RAO D	C	0.05	0.55			0.60					
25	0040	SHRI GOVINDA RAO J	C	0.65	0.50			1.15					
26	0041	SHRI RAMANA MURTHY CH	C	0.00	0.00			0.00					
27	0042	SHRI TAMADA APPANNA	C	0.55	0.35			0.90					
28	0043	SHRI NARAYANASWAMI T	C	0.50	0.00			0.50					
29	0044	SHRI RAMA KRISHNA K	C	0.45	0.00			0.45					

Institution No : 0150026

#	Pers. No	Name	Wt/ht. All	Whole Body Dose (mSv)					Current Year Total	Bone Dose (mSv)	Dents Total (mSv)	Wt/ht. Dose (mSv) (X)(Y)-B = Total	Wt/ht. Total mSv
				Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	0.00					
30	0045	SHRIJAGADESWARA RAOJN	C		0.00								

Notes :

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

Checked By

Authenticated By

PAYAPPAN
SR.SCIENIFIC OFFICER



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Annexure-15

TSPL/ENV/HW/PCB/2017-18/1119

Srikakulam,
31-10-2017.

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 Jul to Sep, 2017.

Thanking You,

Yours faithfully,

Sr. 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.
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Tel: +91 44 2498 8822 / 8813 Fax: +91 44 2498 6047 web: www.trimexsands.com

CIN: U14299TN2004PTC071437



O/e.

Annexure-16

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

Srikalahasti
25.05.2017

To
The Environmental Engineer
AP Pollution Control Board
Paryavaran Bhavan, A3, IE
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: Vaschavalasa (V), Gara Mandal, Srikakulam District - 512 404, 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 - 500 016, Andhra Pradesh, India
Tel: +91 40 2338 4380 / 3171 3600, Fax: +91 40 2338 4068

Reg. Office: Trimex Towers, No.1 Subbaraya Avenue, C.P. Ramaswamy Road, Alwarthi, Chennai - 600 011, Tamil Nadu, India
Tel: +91 44 2498 8822 / 8813, Fax: +91 44 2498 6047, web: www.trimexsands.com

CIN: U14299TN2004PTC071437



Olc.

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
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 - 500034, 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 - 600016, Tamil Nadu, India
Tel: +91 44 2498 8822 / 8813 Fax: +91 44 2498 6047 web: www.trimexsands.com

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 Equipmen 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 colspan="2">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																																	
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																																	
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.8-29016/20/90/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. AQM & 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 26.09.2008 & 18.06.2009 and Modified Mining Plan approval vide letter no. AP/SRK//MP/Garnet-Sillimanlte-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

40	The industry shall comply with the following: Exlstng: 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/Gear 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								Being complied	
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 MTPD	Reused for back filling the mined out areas by transportation/Pumping in the form of slurry and stock piling.				
2	Mineral Rich Tails from Dry mill of Mineral separation plant	170 TPD(0.062 MTPA)	0.032 MTPA	0.094 MTPA					
3	Waste Lubricating Oil(Hazardous)	310 LPM	120 LPM	430LPM	To disposed to authored agencies				
41	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.	
43	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 APIC 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/2016-17 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 Ir.No. TSPL/ENV/PCB/2016-17/1038 dated: 29-11-2016 (Annexure -17)