

**Dahej SEZ Ltd.**

Block No. 14, 3rd Floor, Udyog Bhavan,  
Sector-11, Gandhinagar-382017, Gujarat, India  
Phone : +91-79-23241590, 29750838, 65721608, 65721908  
Fax : (079) 23241736  
e-mail : ceo@dahejsez.com, info@dahejsez.com  
website : www.dahejsez.com  
CIN : U45209GJ2004PLC044779

Ref: DSL/MoEF/Reports/2018/540

Date: - 08.05.2018

To,  
Regional Officer,  
Ministry of Environment Forest & Climate change,  
Regional office (WZ),  
E-5, Kendriya Paryavaran Bhawan,  
E-5 Area Colony, Link Road-3,  
Ravishankar Nagar, Bhopal-462016

Sub: - Submission of six monthly Compliance Reports (Oct-2017 to March-2018)  
of Environment Clearance and CRZ Clearance of Dahej SEZ Ltd. At: Dahej  
Village, Taluka- Vagra, Dist.- Bharuch-392140 Gujarat.  
Ref.: 1) Environment Clearance No. -21-1084/2007-IA.III dated 17th March, 2010.  
2) CRZ Clearance No. - 11-50/2011-IA.III dated 19th September, 2014.

Dear Sir,

With reference to above subject matter, we herewith submit six monthly (Oct-2017 to March-2018) Compliance reports of Environment Clearance and CRZ Clearance for your kind perusal.

Thanking You,

Yours sincerely,

S. N. Patil  
Chief Executive Officer

Encl.: A/a

*Impacted*  
11/5/2018

कार्यालय / OFFICE  
पर्यावरण एवं वन मंत्रालय (केन्द्रीय)  
Ministry of Environment & Forests (C)  
क्षेत्रीय कार्यालय (पश्चिम क्षेत्र)  
Regional Office (Western Region)  
भोपाल (म.प्र.)-462016

2018-6-2 16:55





### Dahej SEZ Ltd.

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website : www.dahejsez.com  
CIN : U45209GJ2004PLC044779

Ref: DSL/MoEF/Reports/2018/567

Date: - 19/05/2018

To,  
The Zonal officer (S),  
Central Pollution Control Board (CPCB),  
Zonal Office, "Parivesh Bhavan",  
Opposite VMC Ward office No.10,  
Subhanpura, Vadodara - 390 023

Sub: - Submission of six monthly Compliance Reports (Oct-2017 to March-2018) of  
Environment Clearance and CRZ Clearance of Dahej SEZ Ltd. At: Dahej Village,  
Taluka- Vagra, Dist. - Bharuch-392140 Gujarat.

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S. N. Patil  
Chief Executive Officer

Encl.: A/a

25/5/2018  
Central Pollution Control Board  
(Ministry of Environment, Forest & Climate Change, Govt. of India)  
Regional Directorate (West),  
'Parivesh Bhawan',  
Near Ward Office No.10, Subhanpura,  
Vadodara-390 023.

2018-5-28 17:12



## Dahej SEZ Ltd.

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CIN : U45209GJ2004PLC044779

Ref: DSL/MoEF/Reports/2018/568

Date: - 19/05/2018

To,  
The Regional officer,  
Gujarat Pollution Control Board (GPCB),  
Shed No. C - 1/119/3, Phase II,  
GIDC Estate, Narmada Nagar,  
Bharuch - 392 015

**Subject:** -Submission of six monthly Compliance Reports (Oct-2017 to March-2018) of Environment Clearance and CRZ Clearance of Dahej SEZ Ltd. At: Dahej Village, Taluka- Vagra, Dist. - Bharuch-392140 Gujarat.

**Ref.:** 1) Environment Clearance No. -21-1084/2007-IA.III dated 17th March, 2010  
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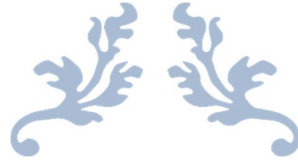
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Thanking You,  
Yours sincerely,

S. N. Patil  
Chief Executive Officer

Post Received  
Gujarat Pollution Control Board  
BHARUCH

Encl.: A/a



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# COMPLIANCE REPORT OF EC CLEARANCE

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**for**

Conditions of Clearance under the EIA notification, 2006 for  
Development of SEZ.

(Environment Clearance No. 21-1084/2007-IA.III dated 17 March, 2010)

**Period: October 2017 to March 2018**



**of**



**M/S. DAHEJ SEZ LTD.**

(A JOINT VENTURE OF GIDC & ONGC)

at

Village: Dahej, Taluka Vagra, District Bharuch.

**M/S. Dahej SEZ Limited****Compliance Report of EC Clearance**

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PROJECT DETAILS							
Name of Publication	Compliance Report of EC Clearance from Month October 2017 to March 2018						
Project Number	1417058112	Report No.	1	Version	1	Released	April 2018
Prepared & Managed By	Mitali Khuman & Sapana Amin		Released By			Sangram Kadam	
CONTACT DETAILS							
<b>Vadodara (Head Office)</b> 871/B/3, GIDC Makarpura, Vadodara, India – 390 010. E: <a href="mailto:kadamenviro@kadamenviro.com">kadamenviro@kadamenviro.com</a> ; T:+91-265-3001000; F: +91-265-3001069							
<b>Delhi / NCR</b> Spaze IT Park, Unit No. 1124, 11 <sup>th</sup> Floor, Tower B-3, Sector 49, Sohna Road, Gurgaon, India – 122 002 E: <a href="mailto:delhi@kadamenviro.com">delhi@kadamenviro.com</a> ; T/F : 0124-424 2430-436							
DISCLAIMER							
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**Point-wise Compliance Report of EC Clearance****(October 2017 to March 2018)**

Standard Conditions related to Activity 7(c) –Category “B” projects under the Schedule of Ministry of Environment and Forests, GoI notification dated 14-09-06.

S. No.	Description	Compliance Status
	<b>Environment Clearance No. 21-1084/2007-IA.III dated 17<sup>th</sup> March, 2010</b>	
<b>A</b>	<b>PART A: SPECIFIC CONDITIONS:</b>	
<b>1</b>	<b>Construction Phase</b>	
i.	“Consent for Establishment” shall be obtained from Gujarat Pollution Control Board under Air and Water Act and copy shall be submitted to the ministry before start of any construction work at the site.	Consent to Establish is obtained from GPCB as GPCB/BRCH/NOC-3633/27240 dated 20 <sup>th</sup> September, 2008
ii.	The area falling under CRZ shall be kept open and no activity shall be carried out. A separate clearance shall be obtained from MoEF under the provision of CRZ notification, 1991 as amended from time to time by Govt. of India to any development / construction activity at site.	CRZ clearance is obtained for area falling under CRZ as F. No. 11-50/2011-IA.III dated 19 <sup>th</sup> September, 2014.
iii.	All the commitments made during the meeting held on 25 <sup>th</sup> – 28 <sup>th</sup> February 2008, 16 <sup>th</sup> – 18 <sup>th</sup> July, 2008, 29 <sup>th</sup> – 30 <sup>th</sup> September, 2008 23 <sup>rd</sup> – 24 <sup>th</sup> November, 2009 and 25 <sup>th</sup> – 29 <sup>th</sup> January, 2010 and the details submitted vide letters dated 13.06.2008, 04.09.2008, 26.09.2008, 13.10.2008, 14.10.2008, 12.11.2008, 23.04.2009, 01.05.2009, 26.05.2009, 03.07.2009, 16.07.2009, 31.07.2009, 27.10.2009, 11.11.2009, 11.01.2010, 28.01.2010 and 30.01.2010 shall be strictly complied with.	All the commitments made during the said meetings are being complied with.
iv.	The Project proponent shall exclude the portion of the plot area allotted to units which fall under CRZ area and no approval shall be given to them without obtaining prior CRZ/ Environment Clearance.	Agreed and Complied.
v.	Fresh demarcation of HTL/LTL lines and CRZ area shall be undertaken through one of the authorized agencies identified by the MoEF shall be undertaken.	Agreed and Complied.
vi.	Separate CRZ Clearance shall be obtained by M/s. Dahej SEZ Ltd. for the area falling under CRZ.	CRZ clearance is obtained for area falling under CRZ vide letter No. 11-50/2011-IA.III dated 19 <sup>th</sup> September, 2014.
vii.	M/s. Dahej SEZ Ltd. shall issue directions to all the allottees whose plots are affected partly under CRZ Notification to	In the terms and conditions of allotment letter, all allot whose plots are affected partly under CRZ



S. No.	Description	Compliance Status
	obtain necessary clearance after getting the recommendations from the State Coastal Zone Management Authority.	Notification were directed to obtain CRZ Clearance.
viii.	Necessary permission / NOC shall be obtained from competent authority for the disposal of treated effluent into deep sea.	CCA from GPCB was obtained vide letter no. GPCB/BRCH-B-CCA-1194 (3) / ID-31038 / 209369 dated 04/04/2014 is obtained by GIDC, who are co-developers in Dahej SEZ for disposal of treated effluent into deep sea.
ix.	Treated waste water shall be used for flushing of toilets, horticulture and HVAC purposes, in that order.	Complied.
x.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. the housing may be in the form of temporary structures to be removed after the completion of the project.	Local workers were employed, safe drinking water, mobile toilets, emergency first-aid faculty, etc. are provided for them.
xi.	A First Aid Room will be provided in the project both during construction and operation of the project.	Provided.
xii.	All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.	Complied.
xiii.	Disposal of muck during construction phase should not create any adverse effect on neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people only in approved sites with the approval of competent authority.	Complied.
xiv.	Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.	Soil and Ground water samples were tested and it confirmed that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.
xv.	Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate watercourses and the dump sites for such material must be secured so that they should not leach unto the ground water.	Agreed and were complied.
xvi.	Any hazardous waste generated during construction phase, should be disposed off as per applicable rules and norms with necessary approvals of the Gujarat Pollution Control Board.	Agreed and Complied.
xvii.	The diesel generator sets to be used during construction phase should be low sulphur diesel type and should conform to Environment (Protection) Rules prescribed for air and noise emission standards.	Agreed and complied.
xviii.	The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from Chief Controller of Explosives shall be taken.	DG Sets are operated only during power outages. The diesel required for operating DG (62.5 kVA) is ~ 40 ltr/hr. We are storing < 2.5 KL of

S. No.	Description	Compliance Status
		HSD at site, thus clearance from Chief Controller of Explosives is not required.
xix.	Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non-peak hours.	Agreed and complied.
xx.	Ambient noise levels should conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB/Gujarat PCB.	Agreed and complied.
xxi.	Fly ash should be used as building material in the construction as per the provisions of Fly Ash Notification of September, 1999 and amended as on 27 <sup>th</sup> August, 2003. (The above condition is applicable only if the project site is located within the 100 Km of Thermal Power Stations).	Agreed and Complied.
xxii.	Ready Mixed concrete must be used in building construction.	Agreed and complied.
xxiii.	Storm water control and its re-use as per CGWB and BIS standards for various applications.	Complied.
xxiv.	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.	Agreed and complied.
xxv.	Permission to draw ground water shall be obtained from the competent Authority prior to construction/operation of the project.	No ground water was abstracted during construction/operation phase.
xxvi.	Separation of grey and black water should be done by the use of dual plumbing line for separation for grey and black water.	At present dual plumbing line is not provided.
xxvii.	Fixtures for showers, toilet flushing and drinking should be low flow either by use of aerators or pressure reducing devices or sensor based control.	Agreed and complied.
xxviii.	Use of glass may be reduced by upto 40% to reduce the electricity consumption and load on air conditioning. If necessary, use high quality double glass with special reflective coating in windows.	Agreed and complied.
xxix.	Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfill requirement.	Agreed and complied.
xxx.	Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code which is proposed to be mandatory for all air conditioned spaces while it is aspirational for non-air-conditioned spaces by use of appropriate thermal insulation material to fulfill requirement.	Agreed and complied.



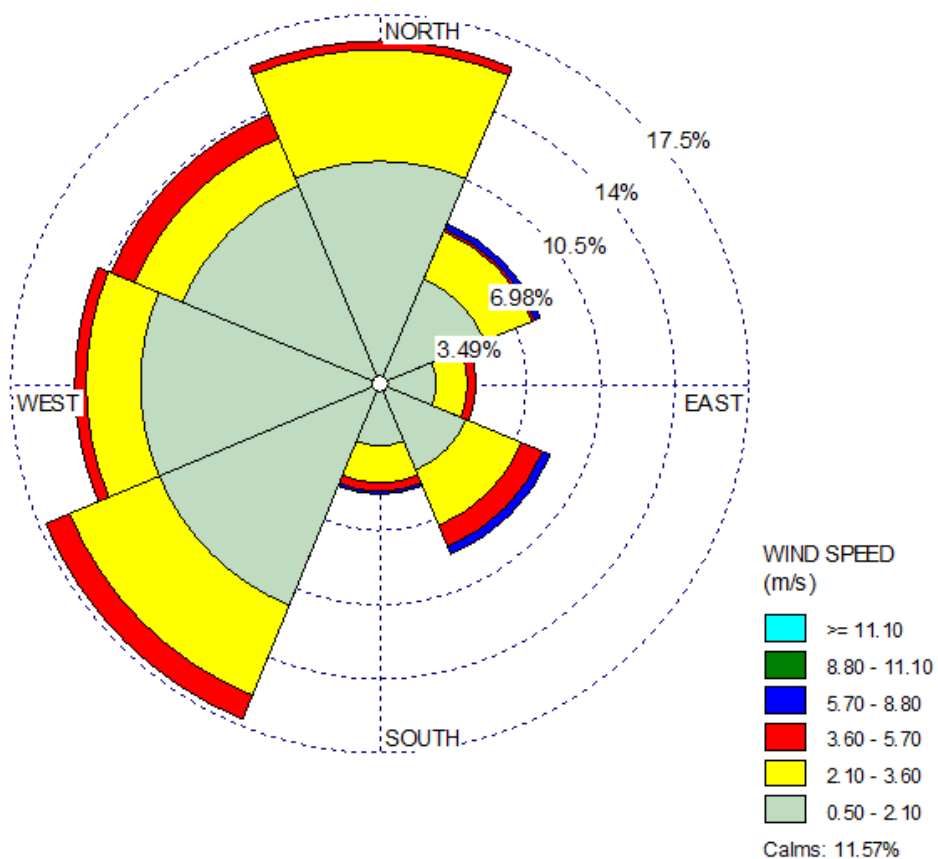
S. No.	Description	Compliance Status
xxxi.	The approval of the competent authority shall be obtained for structural safety of the buildings due to earthquake, adequacy of fire fighting equipments, etc. as per National Building Code including protection measures from lightening etc.	All necessary approvals were taken.
xxxii.	Regular supervision of the above and other measures for monitoring should be in place all through the construction phase, so as to avoid disturbance to the surroundings.	Agreed and complied.
xxxiii.	Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it was found that construction of the project has been started without obtaining environmental clearance.	Agreed and Noted.
<b>II.</b>	<b>Operation Phase</b>	
i.	The installation of the Effluent Treatment Plant (ETP)/Sewage Treatment Plant (STP) should be certified by an independent expert and a report in this regard should be submitted to the Ministry before the project is commissioned for operation. Treated effluent emanating from STP shall be recycled/reused to the maximum extent possible. Treatment of 100% grey water by decentralized treatment should be done. Discharge of unused treated effluent shall conform to the norms and standards of the Gujarat Pollution Control Board. Necessary measures should be made to mitigate the odour problem from STP.	Agreed and was complied.
ii.	Necessary permission/NOC shall be obtained from competent authority for the disposal of treated effluent into deep sea.	Ref. Compliance status as mentioned in Part A, 1, viii.
iii.	The solid waste generated should be properly collected and segregated. Wet garbage should be composted and dry / inert solid waste should be disposed off to the approved sites for land filling after recovering recyclable material. The hazardous wastes shall be disposed at authorized TSDF site.	The member units coming up in the SEZ area have obtain membership of nearby Authorized TSDF site for disposal of their hazardous wastes.
iv.	Diesel power generating sets proposed as source of back up power for elevators and common area illumination during operation phase should be enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Use low sulphur diesel. The location of the DG sets may be decided with in consultation with Gujarat Pollution Control Board.	Agreed and Complied.
v.	Noise should be controlled to ensure that it does not exceed the prescribed standards. During night time the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.	Agreed and Complied. Noise levels were recorded at the nearest village, i.e. Dahej by NABL & MoEF approved Laboratory of Kadam Environmental Consultants. The summary of the same is <b>Annexure 2</b>
vi.	The green belt of the adequate width and density preferably with local species along the periphery of the plot shall be	Agreed and Complied.

S. No.	Description	Compliance Status
	raised so as to provide protection against particulates and noise.	
vii.	Weep holes in the compound walls shall be provided to ensure natural drainage of rain water in the catchment area during the monsoon period.	Agreed and Complied.
viii.	Rain water harvesting for roof run-off and surface run-off, as plan submitted should be implemented. Before recharging the surface run off, pre-treatment must be done to remove suspended matter, oil and grease. The borewell for rainwater recharging should be kept at least 5 mts. above the highest ground water table.	Rain water harvesting is done. Storage of RWH tank is 4,000 Liters, as per the plan submitted.
ix.	The ground water level and its quality should be monitored regularly in consultation with Central Ground Water Authority.	Ground water quality is monitored at the nearest village, i.e. Dahej by NABL & MoEF approved Laboratory of Kadam Environmental Consultants. The summary of the same is as shown in <b>Annexure 4</b>
x.	Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.	Agreed and complied.
xi.	A report on energy conservation measures confirming to energy conservation norms finalize by Bureau of Energy Efficiency should be prepared incorporating details about building materials and technology, R & U Factors etc. and submit to the Ministry in three months time.	Energy Audit would be conducted as per the requirement.
xii.	Energy conservation measures like installation of CFLs/TFLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Use CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination. Use of solar panels may be done to the extent possible.	Agreed and complied.
xiii.	Adequate measures should be taken to prevent odour problem from solid waste processing plant and STP.	Agreed and complied.
xiv.	The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.	Complied.
<b>Part – B. GENERAL CONDITIONS</b>		
1.	The environmental safeguards contained in the EIA report should be implemented in letter and spirit.	Complied.
2.	The project proponent shall also submit six monthly reports on status of compliance of stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	Complied.

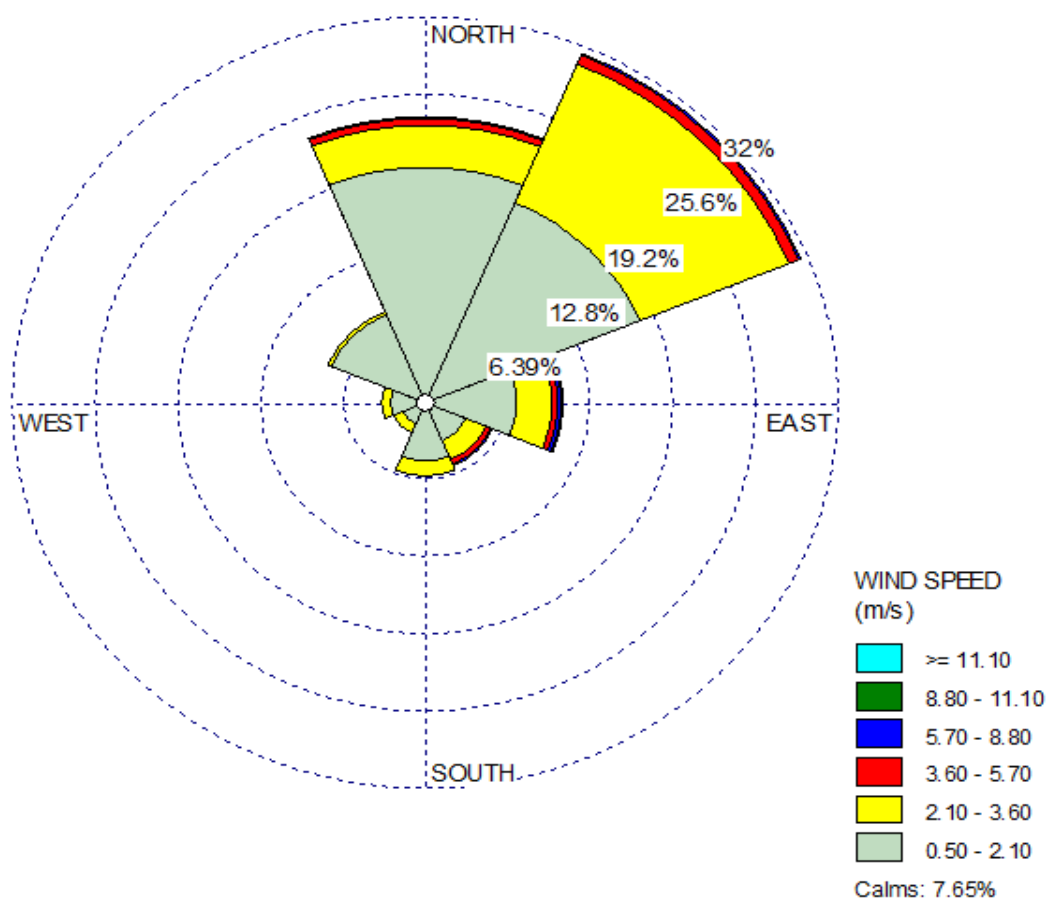
S. No.	Description	Compliance Status
3.	Officials from Regional Office of MOEF, Bhopal who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents / data by the project proponents during their inspection. A complete set of all documents submitted to MoEF should be forwarded to the CCF, Regional office of MOEF, Bhopal.	Agreed and support to all officials would be provided.
4.	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.	Agreed & Noted.
5.	The Ministry reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	Agreed & Noted.
6.	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.	All the applicable permissions from the respective competent authorities are obtained.
7.	These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act, 1991 and EIA Notification, 2006.	Agreed & Noted.
8.	The project proponent should advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with Gujarat Pollution Control Board and may also be seen on the website of the Ministry of Environment and Forests at <a href="http://www.envfor.nic.in">http://www.envfor.nic.in</a> . The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional Office of this Ministry at Bhopal.	Receipt of Environmental Clearance (Hard Copy) to our office was later than 10 days of its issuance date i.e. 17 <sup>th</sup> March, 2010. Thus, Advertisement were circulated in Gujarat Samachar Vadodara Edition dated 29.04.2010, Gujarat Prabha Bharuch Edition dated 29.04.2010 and Sandesh Vadodara Edition dated 29.04.2010.
9.	Environmental clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No. 460 of 2004 as may be applicable to this project.	Agreed and Noted.
10.	Any appeal against this Environmental Clearance shall lie with the National Environment Appellate Authority, if preferred, within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.	Agreed and Noted.
11.	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, ZillaParisad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestion / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	Complied.

S. No.	Description	Compliance Status
12.	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal office of CPCB and the SPCB. The criteria pollutant levels, namely SPM, RSPM, SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Monitoring data is attached as <b><i>Annexure 1</i></b>
13.	The environmental statement for each financial year ending 31 <sup>st</sup> March in Form –V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	Complied.

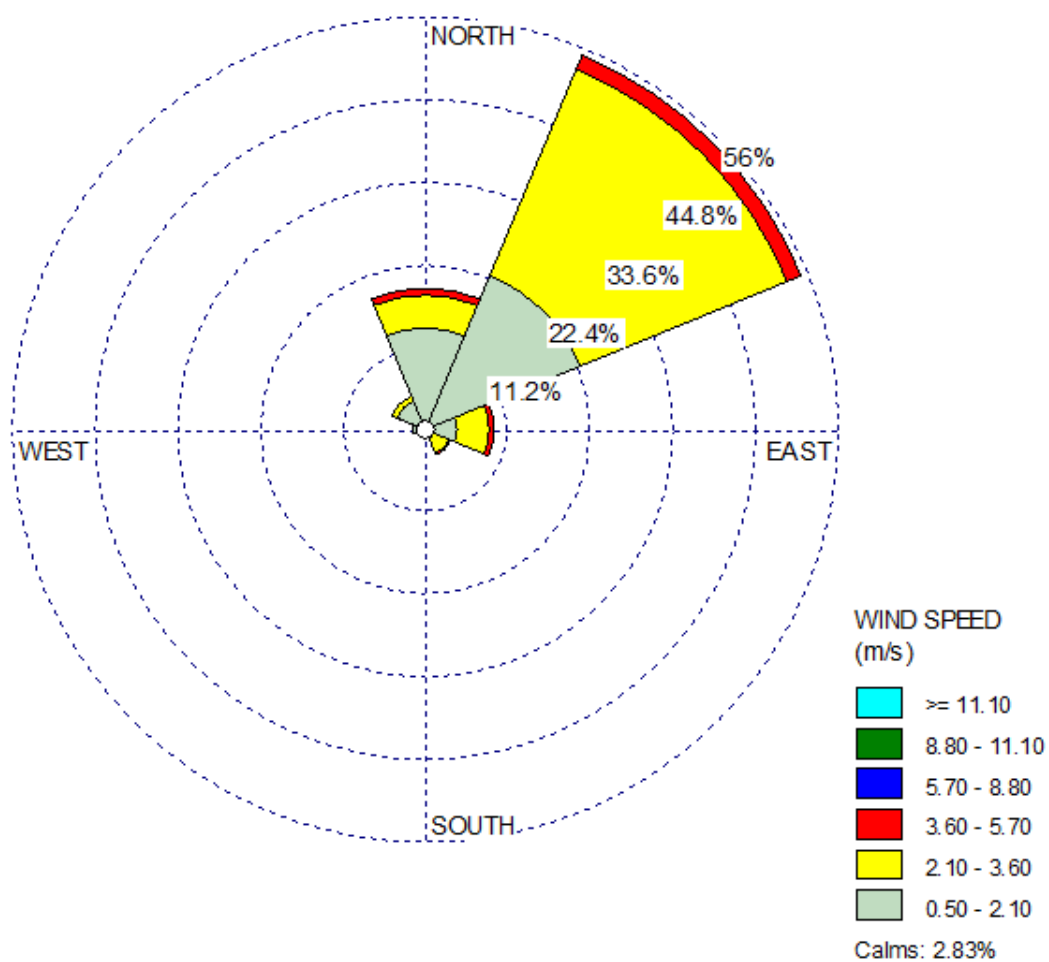


**Annexure 1: Monitoring Data****Wind rose Diagram (October 2017)**

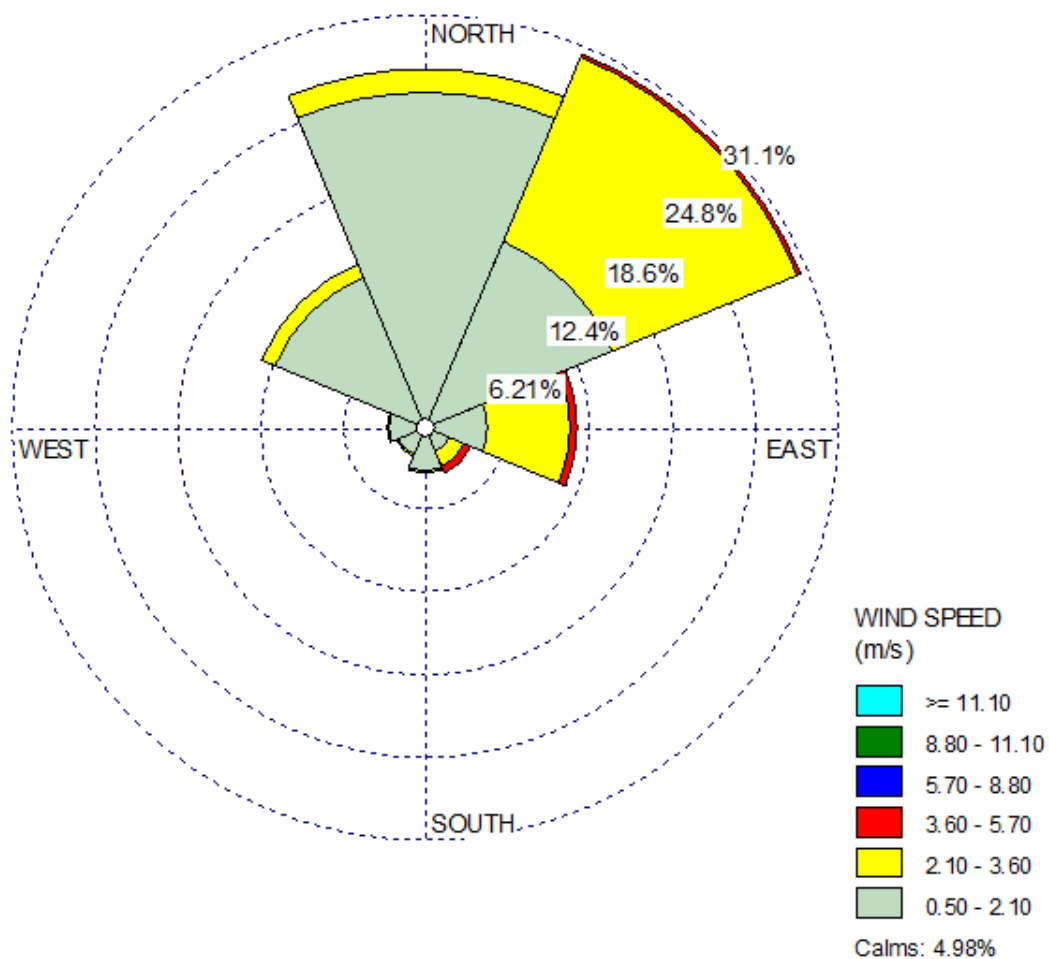
Directions	%
N	16.15
NE	8.21
E	4.58
SE	8.75
S	5.25
SW	17.09
W	14.40
NW	13.72
CALM	11.57

**Wind rose Diagram (November 2017)**

Directions	%
N	23.77
NE	31.39
E	10.82
SE	5.72
S	6.14
SW	2.79
W	3.49
NW	8.23
CALM	7.65

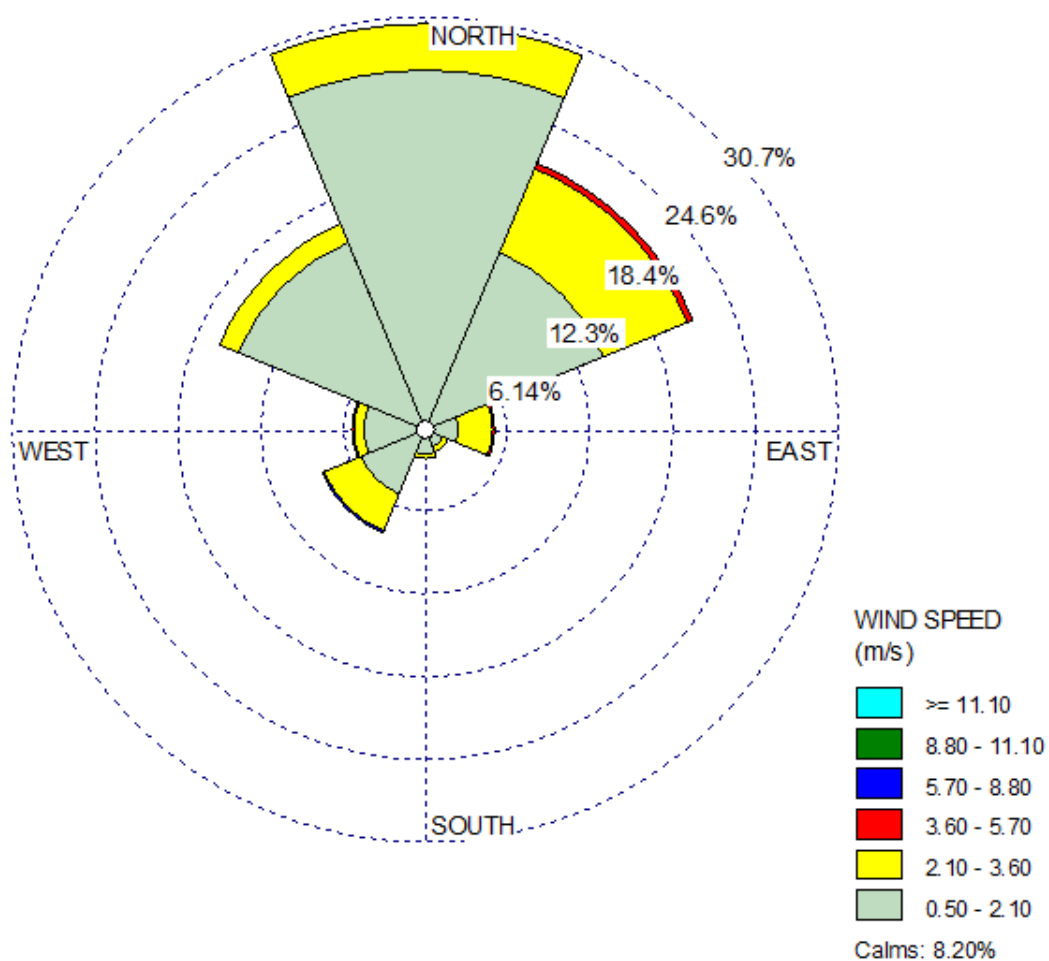
**Wind rose Diagram (December 2017)**

Directions	%
N	19.25
NE	54.91
E	9.42
SE	3.90
S	1.35
SW	1.35
W	1.88
NW	5.11
CALM	2.83

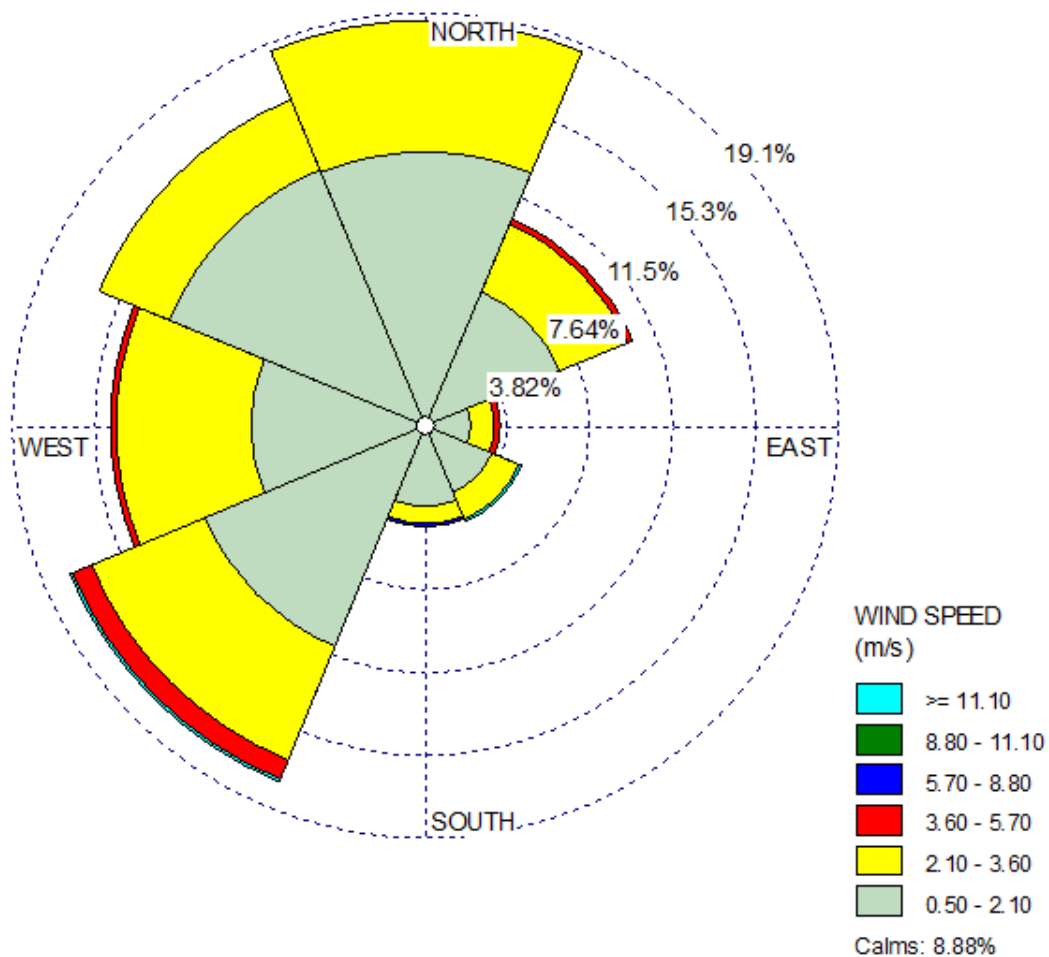
**Wind rose Diagram (January 2018)**

Directions	%
N	26.93
NE	30.43
E	11.45
SE	3.78
S	3.51
SW	2.43
W	2.97
NW	13.33
CALM	4.98



**Wind rose Diagram (February 2018)**

Directions	%
N	30.16
NE	21.49
E	5.22
SE	1.98
S	2.24
SW	8.35
W	5.81
NW	16.54
CALM	8.20

**Windrose Diagram (March 2018)**

Directions	%
N	18.81
NE	10.40
E	3.50
SE	4.89
S	4.71
SW	17.77
W	14.64
NW	16.40
CALM	8.88

**Annexure 1: Average Ambient Air quality Results (October 2017 to March 2018)****Note: Values in Brackets indicates latest CPCB Limits for NAAQM.****1) October 2017**

S. No	Parameter	CPCB Limit	Unit	Location and Results		
				Nr. Fire Pump, SEZ-I	Nr. water tank, SEZ-I	Above SEZ-II Office
1	PM10	100	µg/m3	160	155	192
2	PM2.5	60	µg/m3	50.5	48.5	40.0
3	SO2	80	µg/m3	10.5	11.1	9.73
4	NOx	80	µg/m3	21.82	26.72	24.14

**2) November 2017**

S. No	Parameter	CPCB Limit	Unit	Location and Results		
				Nr. Admin Building	Nr. water tank, SEZ-I	Above SEZ-II Office
1	PM10	100	µg/m3	190	106	
2	PM2.5	60	µg/m3	45.5	57	
3	SO2	80	µg/m3	10.66	10.96	
4	NOx	80	µg/m3	21.4	28.23	

**3) December 2017**

S. No	Parameter	CPCB Limit	Unit	Location and Results		
				Nr. Admin Building	SEZ – I, Nr. Water tank	Above SEZ-II Office
1	PM10	100	µg/m3	255.5	224.5	255
2	PM2.5	60	µg/m3	53.5	57.5	63.5
3	SO2	80	µg/m3	10.07	10.0	11.73
4	NOx	80	µg/m3	27.84	25.77	26.62

**4) January 2018**

S. No	Parameter	CPCB Limit	Unit	Location and Results		
				Nr. Admin Building	SEZ – I, Nr. Water tank	SEZ – II, Admin Building
1	PM10	100	µg/m3	182.5	194.5	195.5
2	PM2.5	60	µg/m3	56.5	59.5	58
3	SO2	80	µg/m3	10.17	9.56	11.22
4	NOx	80	µg/m3	29.19	27.68	17.5

**5) February 2018**

S. No	Parameter	CPCB Limit	Unit	Location and Results		
				SEZ – I, Admin Building	Nr. water tank, SEZ – I	SEZ – II, Admin Building
1	PM10	100	µg/m3	230.5	295	245
2	PM2.5	60	µg/m3	57	59	35
3	SO2	80	µg/m3	11.08	10.41	6.66
4	NOx	80	µg/m3	25.79	26.96	30.03

**6) March 2018**

S. No	Parameter	CPCB Limit	Unit	Location and Results		
				SEZ – I, Admin Building	Nr. water tank, SEZ – I	SEZ – II, Admin Building
1	PM10	100	µg/m3	250	234.5	235
2	PM2.5	60	µg/m3	50.5	56.5	58.5
3	SO2	80	µg/m3	9.17	11.10	10.03
4	NOx	80	µg/m3	25.87	24.37	25.62



**Annexure 2: Noise Monitoring Results**

Monitoring Month		Results in dB (LEQ) base on 24 hour reading			
		Sampling Location			
		Near Fire station (SEZ I)	Above water tank SEZ (I)	Admin Building SEZ (II)	C Pumping station SEZ (I)
October 2017	Maximum	63	60	59	55
	Minimum	41	40	41	41
November 2017	Maximum	55	59	-	-
	Minimum	39	41	-	-
December 2017	Maximum	57	55	58	60
	Minimum	38	35	34	31
January 2018	Maximum	59	59	60	62
	Minimum	35	31	31	33
February 2018	Maximum	59	59	58	60
	Minimum	21	30	38	31
March 2018	Maximum	58	58	57	68
	Minimum	35	31	38	32

**Annexure 3: Surface Water Characteristics****1) Surface Water samples in October 2017**

S. No.	Parameters	Unit	Location, Date of Sample collected & Monitoring Results	
			(Nr.Firmenich Drain)	C" Pumping
			23.10.2017	13.10.2017
1	pH @ 25 ° C	Unit	7.65	7.92
2	Colour [Hazen	Hazen Unit(APHA)	10	10
3	Taste	Agreeable	N.A	N.A
4	Odour	Unobjectionable	Unobjectionable	Unobjectionable
5	Turbidity(NTU)	NTU	N.D.(MDL:0.1)	N.D.(MDL:0.1)
6	Temperature	0C	28	28
7	Total Dissolved Solids	Mg/Lit.	1760	2780
8	Total Alkalinity	Mg/Lit.	420	320
9	Chloride (as Cl) –	Mg/Lit.	723	1446
10	Sulphate (as SO4-2)	Mg/Lit.	231	80
11	Nitrate (as NO3)	Mg/Lit.	14.49	2.07
12	Calcium (as Ca)	Mg/Lit.	83	79
13	Magnesium (as Mg)	Mg/Lit.	84	73
14	Fluoride (as F)	Mg/Lit.	0.74	0.80
15	Iron (as Fe)	Mg/Lit.	0.22	0.18
16	Zinc (as Zn)	Mg/Lit.	0.31	0.30
17	Phenolic Compound	Mg/Lit.	N.D.(MDL:0.02)	N.D.(MDL:0.02)
18	Residual Chlorine	Mg/Lit.	N.D.(MDL:0.1)	N.D.(MDL:0.1)

\* ND: Not Detected, MDL: Minimum Detection Limit

**2) Surface Water samples in November 2017**

S. No.	Parameters	Unit	Location, Date of Sample collected & Monitoring Results		
			Nr. Shiva Pharma	Nr. Sigachi Drain	Nr. Water Tank
			3.11.2017	14.11.2017	20.11.2017
1	pH @ 25 ° C	Unit	7.16	7.55	7.48
2	Colour [Hazen	Hazen Unit(APHA)	5	15	150
3	Taste	Agreeable	N.A	N.A	N.A
4	Odour	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable
5	Turbidity(NTU)	NTU	N.D.(MDL:0.1)	N.D.(MDL:0.1)	N.D.(MDL:0.1)
6	Temperature	0C	28	28	28
7	Total Dissolved	Mg/Lit.	1876	1524	8976
8	Total Alkalinity	Mg/Lit.	340	500	700
9	Chloride (as Cl) –	Mg/Lit.	1223	1174	1468
10	Sulphate (as	Mg/Lit.	136	106	3462
11	Nitrate (as NO3)	Mg/Lit.	12.73	N.D.(MDL:0.2)	N.D.(MDL:0.2)
12	Calcium (as Ca)	Mg/Lit.	63	119	46
13	Magnesium (as	Mg/Lit.	10	45	57
14	Fluoride (as F)	Mg/Lit.	N.D.(MDL:0.05)	0.30	0.53
15	Iron (as Fe)	Mg/Lit.	0.03	0.80	0.20
16	Zinc (as Zn)	Mg/Lit.	0.02	0.01	0.07
17	Phenolic	Mg/Lit.	N.D.(MDL:0.02)	N.D.(MDL:0.02)	N.D.(MDL:0.02)
18	Residual Chlorine	Mg/Lit.	N.D.(MDL:0.1)	N.D.(MDL:0.1)	N.D.(MDL:0.1)

\* ND: Not Detected, MDL: Minimum Detection Limit

**3) Surface Water samples in December 2017**

S. No.	Parameters	Unit	Location, Date of Sample collected & Monitoring Results		
			Aries colour crossing	Raamdev industries drain water	Nr.Firemenich Drain
			7.12.2017	12.12.2017	22.12.2017
1	pH @ 25 ° C	Unit	6.72	7.65	7.69
2	Colour [Hazen	Hazen Unit(APHA)	500	10	15
3	Taste	Agreeable	N.A	N.A	N.A
4	Odour	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable
5	Turbidity(NTU)	NTU	N.D.(MDL:0.1)	N.D.(MDL:0.1)	N.D.(MDL:0.1)
6	Temperature	0C	27	27	27
7	Total Dissolved	Mg/Lit.	3908	228	3644
8	Total Alkalinity	Mg/Lit.	370	310	930
9	Chloride (as Cl)	Mg/Lit.	822	73	954
10	Sulphate (as	Mg/Lit.	1420	19	595
11	Nitrate (as NO3)	Mg/Lit.	14.18	N.D.(MDL:0.2)	N.D.(MDL:0.2)
12	Calcium (as Ca)	Mg/Lit.	203	23	13.26
13	Magnesium (as	Mg/Lit.	203	15	192
14	Fluoride (as F)	Mg/Lit.	35	0.60	1.92
15	Iron (as Fe)	Mg/Lit.	N.D.(MDL:0.05)	0.04	0.80
16	Zinc (as Zn)	Mg/Lit.	0.09	0.06	0.90
17	Phenolic	Mg/Lit.	0.05	N.D.(MDL:0.02)	N.D.(MDL:0.02)
18	Residual	Mg/Lit.	N.D.(MDL:0.02)	N.D.(MDL:0.1)	N.D.(MDL:0.1)

\* ND: Not Detected, MDL: Minimum Detection Limit



**4) Surface Water samples in January 2018**

S. No.	Parameters	Unit	Location, Date of Sample collected & Monitoring Results		
			Nr.Shiva Pharma Storm Drain	Nr.Accent Microcell Wall	Nr.Ramdev Drain Water
			04.01.2018	04.01.2018	18.01.2018
1	pH @ 25 ° C	Unit	7.29	7.81	7.44
2	Colour [Hazen	Hazen Unit(APHA)	<1	500	10
3	Taste	Agreeable	N.A	N.A	N.A
4	Odour	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable
5	Turbidity(NTU)	NTU	N.D.(MDL:0.1)	N.D.(MDL:0.1)	N.D.(MDL:0.1)
6	Temperature	OC	28	28	28
7	Total Dissolved	Mg/Lit.	1736	724	1492
8	Total Alkalinity	Mg/Lit.	310	180	220
9	Chloride (as Cl) –	Mg/Lit.	1119	173	554
10	Sulphate (as	Mg/Lit.	123	191	238
11	Nitrate (as NO <sub>3</sub> )	Mg/Lit.	10.31	12.58	N.D.(MDL:0.2)
12	Calcium (as Ca)	Mg/Lit.	56	211	50
13	Magnesium (as	Mg/Lit.	27	52	28
14	Fluoride (as F)	Mg/Lit.	N.D.(MDL:0.05)	0.82	0.73
15	Iron (as Fe)	Mg/Lit.	0.08	0.12	0.17
16	Zinc (as Zn)	Mg/Lit.	0.04	0.05	0.22
17	Phenolic	Mg/Lit.	N.D.(MDL:0.02)	N.D.(MDL:0.02)	N.D.(MDL:0.02)
18	Residual Chlorine	Mg/Lit.	N.D.(MDL:0.1)	N.D.(MDL:0.1)	N.D.(MDL:0.1)

\* ND: Not Detected, MDL: Minimum Detection Limit

**5) Surface Water samples in February 2018**

S. No.	Parameters	Unit	Location, Date of Sample collected & Monitoring Results		
			Meghamanifront of Drain	Nr.Aries Colour Road	Nr.SEZ Gate Drain Water SEZ - 1
			8.02.2018	8.02.2018	22.02.2018
1	pH @ 25 ° C	Unit	7.38	7.13	8.30
2	Colour [Hazen	Hazen	150	200	10
3	Taste	Agreeable	N.A	N.A	N.A
4	Odour	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable
5	Turbidity(NTU)	NTU	N.D.(MDL:0.1)	N.D.(MDL:0.1)	N.D.(MDL:0.1)
6	Temperature	0C	29	29	29
7	Total Dissolved Solids	Mg/Lit.	14656	19376	1288
8	Total Alkalinity	Mg/Lit.	1440	850	330
9	Chloride (as Cl) –	Mg/Lit.	3230	2170	579
10	Sulphate (as SO <sub>4</sub> )	Mg/Lit.	4419	8053	36
11	Nitrate (as NO <sub>3</sub> )	Mg/Lit.	7.83	23.10	N.D.(MDL:0.2)
12	Calcium (as Ca)	Mg/Lit.	187	40	27
13	Magnesium (as Mg)	Mg/Lit.	57	73	42
14	Fluoride (as F)	Mg/Lit.	0.38	1.10	0.96
15	Iron (as Fe)	Mg/Lit.	0.15	0.18	0.16
16	Zinc (as Zn)	Mg/Lit.	0.09	0.10	0.20
17	Phenolic Compound as	Mg/Lit.	N.D.(MDL:0.02)	N.D.(MDL:0.02)	N.D.(MDL:0.02)
18	Residual Chlorine	Mg/Lit.	N.D.(MDL:0.1)	N.D.(MDL:0.1)	N.D.(MDL:0.1)

\* ND: Not Detected, MDL: Minimum Detection Limit

**6) Surface Water samples in March 2018**

S. No.	Parameters	Unit	Location, Date of Sample collected & Monitoring Results		
			Nr. Meghamani L.L. P Discharge Wall	Nr. Water tank road Drain Water	Between Aries Colour & Meghamani Org (Drain Water)
			09.03.2018	14.03.2018	22.03.2018
1	pH @ 25 ° C	Unit	7.47	7.27	7.12
2	Colour [Hazen Unit (APHA)]	Hazen Unit (APHA)	500	250	250
3	Taste	Agreeable	N.A	N.A	N.A
4	Odour	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable
5	Turbidity (NTU)	NTU	N.D. (MDL:0.1)	N.D. (MDL:0.1)	N.D. (MDL:0.1)
6	Temperature	°C	29	29	29
7	Total Dissolved Solids	Mg/Lit.	5130	5656	14044
8	Total Alkalinity	Mg/Lit.	590	900	770
9	Chloride (as Cl) –	Mg/Lit.	1977	2073	2893
10	Sulphate (as SO <sub>4</sub> -2)	Mg/Lit.	792	1103	5731
11	Nitrate (as NO <sub>3</sub> )	Mg/Lit.	<0.1	<0.1	N.D. (MDL:0.2)
12	Calcium (as Ca)	Mg/Lit.	84	48	125
13	Magnesium (as Mg)	Mg/Lit.	66	68	160
14	Fluoride (as F)	Mg/Lit.	1.16	0.83	<0.05
15	Iron (as Fe)	Mg/Lit.	0.17	0.26	0.20
16	Zinc (as Zn)	Mg/Lit.	0.10	0.24	0.19
17	Phenolic Compound as (C <sub>6</sub> H <sub>5</sub> OH)	Mg/Lit.	N.D. (MDL:0.02)	N.D. (MDL:0.02)	N.D. (MDL:0.02)
18	Residual Chlorine	Mg/Lit.	N.D. (MDL:0.1)	N.D. (MDL:0.1)	N.D. (MDL:0.1)

\* ND: Not Detected, MDL: Minimum Detection Limit

**Marine Water Characteristic****1) Sample 1 (During High tide)**

S. No.	Parameters	Unit	Date of Sample collected & Monitoring Results					
			30.10.2017	29.11.2017	28.12.2017	22.01.2018	16.02.2018	16.03.2018
1	pH @ 25 ° C		7.41	7.15	7.44	7.15	7.64	7.46
2	Temperature	°C	28	28	27	28	28	28
3	Turbidity(NTU)	Pt-CO	3.6	30	3.5	3.6	3.9	3.5
4	Total Suspended Solids	Mg/L	160	134	184	151	144	157
5	Biochemical Oxygen Demand (BOD)		113	119	109	117	125	124
6	Ammonical Nitrogen	-	N.D.(MDL:0.1)	N.D.(MDL:0.1)	N.D.(MDL:0.1)	N.D.(MDL:0.1)	N.D.(MDL:0.1)	N.D.(MDL:0.1)
7	Salinity (ppt)	Mg/L	25.5	34.3	31.2	26.9	32.1	35.4
8	Dissolved Oxygen	Mg/L	3.4	3.1	3.2	3.5	3.3	3.4
9	Total Nitrogen	Mg/L	0.53	0.52	0.56	0.46	0.53	0.46
10	Dissolved Phosphate	Mg/L	1.18	0.82	1.18	1.53	1.18	1.29
11	Nitrate	Mg/L	2.15	2.15	2.30	1.92	2.22	1.53
12	Nitrite	Mg/L	0.05	0.10	0.09	0.11	0.09	0.12
13	Phenol	Mg/L	N.D.(MDL:0.02)	N.D.(MDL:0.02)	N.D.(MDL:0.02)	N.D.(MDL:0.02)	N.D.(MDL:0.02)	N.D.(MDL:0.02)
14	Petroleum Hydrocarbon(PHc)(ppb)	Mg/L	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

\* ND: Not Detected, MDL: Minimum Detection Limit

**2) Sample 2 (During low tide)**

S. No.	Parameters	Unit	Date of Sample collected & Monitoring Results					
			30.10. 2017	29.11.2017	28.12.2017	22.01.2018	16.02.2018	16.03.2018
1	pH @ 25 ° C		7.64	7.15	7.36	7.54	7.89	7.33
2	Temperature	°C	28	28	27	28	28	28
3	Turbidity(NTU)	Pt-CO	3.3	30	2.6	2.9	3.0	3.3
4	Total Suspended Solids	Mg/L	131	134	109	136	115	121
5	Biochemical Oxygen Demand (BOD)		145	119	126	127	144	133
6	Ammonical Nitrogen	-	N.D.(MDL:0.1)	N.D.(MDL:0.1)	N.D.(MDL:0.1)	N.D.(MDL:0.1)	N.D.(MDL:0.1)	N.D.(MDL:0.1)
7	Salinity (ppt)	Mg/L	30.2	34.3	25.1	28.4	29.1	31.3
8	Dissolved Oxygen	Mg/L	3.1	3.1	3.3	3.1	3.1	3.2
9	Total Nitrogen	Mg/L	0.24	0.52	0.51	0.60	0.70	0.69
10	Dissolved Phosphate	Mg/L	0.94	0.82	1.53	1.88	1.65	1.06
11	Nitrate	Mg/L	0.92	2.15	2.15	2.53	3.14	2.91
12	Nitrite	Mg/L	0.08	0.10	0.07	0.10	0.08	0.10
13	Phenol	Mg/L	N.D.(MDL:0.02)	N.D.(MDL:0.02)	N.D.(MDL:0.02)	N.D.(MDL:0.02)	N.D.(MDL:0.02)	N.D.(MDL:0.02)
14	Petroleum Hydrocarbon(PHc)(ppb)	Mg/L	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

\* ND: Not Detected, MDL: Minimum Detection Limit

**Annexure 4: Ground Water Characteristic**

**1) Ground water samples in October 2017**

S. No.	Parameters	Unit	Location, Date of Sample collected & Monitoring Results			
			SEZ-I Gate Nr.Garden Drain	Jageshwer	Luvara	Ambetha
			23.10.2017	12.10.2017	12.10.2017	12.10.2017
1	pH @ 25 ° C		7.88	7.68	8.21	7.84
2	Colour [Hazen	oC	10	5	5	5
3	Taste	Pt-	N.A	N.A	N.A	N.A
4	Odour	Mg/L	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable
5	Turbidity(NTU)		N.D.(MDL:0.1)	N.D.(MDL:0.1)	N.D.(MDL:0.1)	N.D.(MDL:0.1)
6	Temperature	-	28	28	28	28
7	Total Dissolved	Mg/L	1096	4184	2084	1776
8	Total Alkalinity	Mg/L	330	1030	660	730
9	Chloride (as Cl)	Mg/L	482	1880	969	646
10	Sulphate (as	Mg/L	75	407	175	301
11	Nitrate (as	Mg/L	0.92	27.91	19.47	19.78
12	Calcium (as Ca)	Mg/L	71	100	53.71	119
13	Magnesium (as	Mg/L	47	87	38	81
14	Fluoride (as F)	Mg/L	0.57	0.81	1.09	0.28
15	Iron (as Fe)	Mg/L	0.15	0.12	0.06	0.07
16	Zinc (as Zn)	NTU	0.20	0.15	0.04	0.09
17	Phenolic	Mg/L	N.D.(MDL:0.02)	N.D.(MDL:0.02)	N.D.(MDL:0.02)	N.D.(MDL:0.02)
18	Residual	Mg/L	N.D.(MDL:0.1)	N.D.(MDL:0.1)	N.D.(MDL:0.1)	N.D.(MDL:0.1)

\* ND: Not Detected, MDL: Minimum Detection Limit

**Ground Water Characteristic**

**2) Ground water samples in November 2017**

S. No.	Parameters	Unit	Location, Date of Sample collected & Monitoring Results		
			Suva	Dahej	Lakhigam
			24.11.2017	24.11.2017	24.11.2017
1	pH @ 25 ° C		8.21	7.52	8.01
2	Colour [Hazen	oC	5	5	5
3	Taste	Pt-CO	N.A	N.A	N.A
4	Odour	Mg/L	Unobjectionable	Unobjectionable	Unobjectionable
5	Turbidity(NTU)		N.D.(MDL:0.1)	N.D.(MDL:0.1)	N.D.(MDL:0.1)
6	Temperature	-	28	28	28
7	Total Dissolved	Mg/L	2144	2912	2616
8	Total Alkalinity	Mg/L	510	850	950
9	Chloride (as Cl) –	Mg/L	881	1223	1125
10	Sulphate (as SO4-	Mg/L	269	359	290
11	Nitrate (as NO3)	Mg/L	3.83	3	49.99
12	Calcium (as Ca)	Mg/L	28	36	50
13	Magnesium (as Mg)	Mg/L	53	49	69
14	Fluoride (as F)	Mg/L	0.46	1.52	0.91
15	Iron (as Fe)	Mg/L	0.08	0.10	0.15
16	Zinc (as Zn)	NTU	0.05	0.09	0.26
17	Phenolic Compound	Mg/L	N.D.(MDL:0.02)	N.D.(MDL:0.02)	N.D.(MDL:0.02)
18	Residual Chlorine	Mg/L	N.D.(MDL:0.1)	N.D.(MDL:0.1)	N.D.(MDL:0.1)

\* ND: Not Detected, MDL: Minimum Detection Limit

**3) Ground water samples in December 2017**

S. No.	Parameters	Unit	Location, Date of Sample collected & Monitoring Results		
			Jageshwer	Luvara	Ambetha
			29.12.2017	29.12.2017	23.06.2017
1	pH @ 25 ° C		7.54	7.88	7.94
2	Colour [Hazen	oC	5	5	5
3	Taste	Pt-CO	N.A	N.A	N.A
4	Odour	Mg/L	Unobjectionable	Unobjectionable	Unobjectionable
5	Turbidity(NTU)		N.D.(MDL:0.1)	N.D.(MDL:0.1)	N.D.(MDL:0.1)
6	Temperature	-	27	27	27
7	Total Dissolved Solids	Mg/L	4016	1896	1696
8	Total Alkalinity	Mg/L	1050	610	700
9	Chloride (as Cl)	Mg/L	1761	881	587
10	Sulphate	Mg/L	465	131	343
11	Nitrate (as NO <sub>3</sub> )	Mg/L	43.05	11.65	26.99
12	Calcium (as Ca)	Mg/L	71	50	71
13	Magnesium (as Mg)	Mg/L	45	23	44
14	Fluoride (as F)	Mg/L	0.98	1.42	0.46
15	Iron (as Fe)	Mg/L	0.15	0.09	0.16
16	Zinc (as Zn)	NTU	0.10	0.16	0.20
17	Phenolic Compound		N.D.(MDL:0.02)	N.D.(MDL:0.02)	N.D.(MDL:0.02)
18	Residual Chlorine		N.D.(MDL:0.1)	N.D.(MDL:0.1)	N.D.(MDL:0.1)

\* ND: Not Detected, MDL: Minimum Detection Limit



**4) Ground water samples in January 2018**

S. No.	Parameters	Unit	Location, Date of Sample collected & Monitoring Results		
			Suva	Dahej	LakhiGaam
			25.01.2018	25.01.2018	25.01.2018
1	pH @ 25 ° C		8.04	7.69	8.34
2	Colour [Hazen	oC	5	5	5
3	Taste	Pt-CO	N.A	N.A	N.A
4	Odour	Mg/L	Unobjectionable	Unobjectionable	Unobjectionable
5	Turbidity(NTU)		N.D.(MDL:0.1)	N.D.(MDL:0.1)	N.D.(MDL:0.1)
6	Temperature	-	28	28	28
7	Total Dissolved Solids	Mg/L	1912	2844	2560
8	Total Alkalinity	Mg/L	490	830	910
9	Chloride (as Cl)	Mg/L	868	1003	1094
10	Sulphate	Mg/L	214	366	254
11	Nitrate (as NO <sub>3</sub> )	Mg/L	3.75	23.70	39.37
12	Calcium (as Ca)	Mg/L	53	33	48
13	Magnesium (as Mg)	Mg/L	55	43	51
14	Fluoride (as F)	Mg/L	0.50	1.34	1.01
15	Iron (as Fe)	Mg/L	0.10	0.12	0.11
16	Zinc (as Zn)	NTU	0.09	0.07	0.20
17	Phenolic Compound		N.D.(MDL:0.02)	N.D.(MDL:0.02)	N.D.(MDL:0.02)
18	Residual Chlorine		N.D.(MDL:0.1)	N.D.(MDL:0.1)	N.D.(MDL:0.1)

\* ND: Not Detected, MDL: Minimum Detection Limit

**5) Ground water samples in February 2018**

S. No.	Parameters	Unit	Location, Date of Sample collected & Monitoring Results		
			Dahej	Suva	Lakhigam
			17.02.2018	17.02.2018	17.02.2018
1	pH @ 25 ° C		7.68	8.01	7.88
2	Colour [Hazen Unit(APHA)]	oC	5	5	5
3	Taste	Pt-	N.A	N.A	N.A
4	Odour	Mg/L	Unobjectionable	Unobjectionable	Unobjectionable
5	Turbidity(NTU)		N.D.(MDL:0.1)	N.D.(MDL:0.1)	N.D.(MDL:0.1)
6	Temperature	-	28	28	28
7	Total Dissolved Solids	Mg/L	2348	2160	2588
8	Total Alkalinity	Mg/L	780	480	930
9	Chloride (as Cl) –	Mg/L	1114	752	1085
10	Sulphate (as SO <sub>4</sub> -2)	Mg/L	237	302	241
11	Nitrate (as NO <sub>3</sub> )	Mg/L	36.22	2.95	41.85
12	Calcium (as Ca)	Mg/L	44	31	43
13	Magnesium (as Mg)	Mg/L	68	20	32
14	Fluoride (as F)	Mg/L	1.29	0.97	1.20
15	Iron (as Fe)	Mg/L	0.14	0.10	0.12
16	Zinc (as Zn)	NTU	0.10	0.09	0.15
17	Phenolic Compound as	Mg/L	N.D.(MDL:0.02)	N.D.(MDL:0.02)	N.D.(MDL:0.02)
18	Residual Chlorine	Mg/L	N.D.(MDL:0.1)	N.D.(MDL:0.1)	N.D.(MDL:0.1)

\* ND: Not Detected, MDL: Minimum Detection Limit

**6) Ground water samples March 2018**

S. No.	Parameters	Unit	Location, Date of Sample collected & Monitoring Results	
			Luvara	Ambetha
			26.03.2018	26.03.2018
1	pH @ 25 ° C		7.74	7.55
2	Colour [Hazen Unit(APHA)]	oC	5	5
3	Taste	Pt-CO	N.A	N.A
4	Odour	Mg/L	Unobjectionable	Unobjectionable
5	Turbidity(NTU)		N.D.(MDL:0.1)	N.D.(MDL:0.1)
6	Temperature	-	29	29
7	Total Dissolved Solids	Mg/L	1732	1640
8	Total Alkalinity	Mg/L	680	750
9	Chloride (as Cl) –	Mg/L	781	506
10	Sulphate (as SO4-2)	Mg/L	142	367
11	Nitrate (as NO3)	Mg/L	10.18	17.74
12	Calcium (as Ca)	Mg/L	46	71
13	Magnesium (as Mg)	Mg/L	28	35
14	Fluoride (as F)	Mg/L	1.47	0.50
15	Iron (as Fe)	Mg/L	0.15	0.11
16	Zinc (as Zn)	NTU	0.22	0.13
17	Phenolic Compound as (C6H5OH)	Mg/L	N.D.(MDL:0.02)	N.D.(MDL:0.02)
18	Residual Chlorine	Mg/L	N.D.(MDL:0.1)	N.D.(MDL:0.1)

\* ND: Not Detected, MDL: Minimum Detection Limit

**Annexure 5: Waste water Characteristics****1) October 2017**

S. No	Parameter s	Unit	Location, Date of Sample collected & Monitoring Results													
			Indofill	Meghamani Industries	Sum Pharma	Meghamani Organic	Sigachi Outlet	Ramdev	Aries Colour Outlet	Firmenich	Meghamani LLP Outlet	Waste Water Rook wool	Shiva Pharma	Rallis India ETP	Fermanta Bio ETP Outlet	D Pumping
			16.10.2017	16.10.2017	17.10.2017	17.10.2018	17.10.2017	17.10.2017	17.10.2017	17.10.2017	17.10.2017	17.10.2017	10.10.2017	25.10.2017	25.10.2017	25.10.2017
1	pH		7.56	7.44	8.10	8.25	7.64	7.35	8.10	7.56	6.94	7.77	7.35	7.50	7.34	7.27
2	Total	Mg/	28576	10308	8320	7068	1152	5208	37764	6264	1256	2152	13644	3416	2184	2580
3	Suspended	Mg/	28	19	21	29	44	26	47	67	32	27	43	59	69	49
4	COD	Mg/	109	490	231	186	117	36	32	291	259	12	170	202	126	200
5	BOD (3 days	Mg/	33	147	69	56	35	11	10	87	78	4	51	61	38	60
6	Oil & Grease	Mg/	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
7	Chloride	Mg/	3423	4098	3375	2218	521	2845	8485	1977	497	1109	6123	1225	689	1003
8	Sulphate	Mg/	10201	1977	1227	1547	74	35	12019	1470	191	74	1121	663	468	415
9	Nitrate	Mg/	0.69	11.65	40.25	11.65	<0.2	9.28	28.29	<.0.2	40.17	22.08	31.59	8.59	<0.2	<0.2
10	Dissolve	Mg/	N.D.(MDL:0.2	N.D.(MDL:0.2	N.D.(MDL:0.2	N.D.(MDL:0.2	N.D.(MDL:0.2	N.D.(MDL:0.2	N.D.(MDL:0.2	N.D.(MDL:0.2	N.D.(MDL:0.2	N.D.(MDL:0.2	N.D.(MDL:0.2	N.D.(MDL:0.2	N.D.(MDL:0.2	N.D.(MDL:0.2

\* ND: Not Detected, MDL: Minimum Detection Limit

**2). Waste Water Collection in November 2017**

S. No.	Parameters	Unit	Location, Date of Sample collected & Monitoring Results										
			STP SEZ-1	D" Pumping	OPAL Final Outlet	Fermenta Bio ETP Outlet	Coromandel ETP Outlet	Torrent Pharma	Rallis India	Rock wool	C" Pumping	Shiva Pharma	Ramdev Ind
			1.11.2017	09.11.2017	9.11.2017	17.11.2017	17.11.2017	18.11.2017	18.11.2017	20.11.2017	20.11.2017	20.11.2017	22.11.2017
1	pH		6.95	7.26	7.80	7.45	5.29	7.06	7.24	7.59	7.91	7.49	7.30
2	Total Dissolve	Mg/L	2268	5256	6404	3424	4164	1420	2456	1548	24712	5336	7508
3	Suspended	Mg/L	28	44	33	53	21	39	48	20	50	35	21
4	COD	Mg/L	28	163	48	333	20	226	242	12	827	48	32
5	BOD (3 days at	Mg/L	8	49	14	100	6	68	73	4	248	15	10
6	Oil & Grease	Mg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
7	Chloride	Mg/L	1565	2201	2153	1125	440	734	783	929	4305	3131	4892
8	Sulphate	Mg/L	51	765	1655	1077	1860	67	560	44	15813	492	81
9	Nitrate	Mg/L	<0.02	18.17	29.67	<0.2	74.98	<0.2	<0.2	4.37	<0.2	<0.2	81.42
10	Dissolve Oxygen	Mg/L	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)

\* ND: Not Detected, MDL: Minimum Detection Limit

S. No.	Parameters	Unit	Location, Date of Sample collected & Monitoring Results										
			Aries Colour	Meghamani Organic	Sun Pharma	Meghamani Industries	Firmerich)	Accent Micro	Sigachi	Thermax Chemical	Raksh Pharma	Tatva Chintan	
			22.11.2017	27.11.2017	27.11.2017	27.11.2017	27.11.2017	27.11.2017	27.11.2017	29.11.2017	29.11.2017	29.11.2017	
1	pH		7.85	7.73	7.23	7.66	7.80	7.37	7.05	7.72	7.11	7.38	
2	Total Dissolve	Mg/L	40532	6752	8232	7924	4312	2204	664	9788	1952	5380	
3	Suspended	Mg/L	63	35	31	23	72	34	31	30	25	35	
4	COD	Mg/L	552	371	185	206	190	93	24	121	40	44	
5	BOD (3 days at	Mg/L	166	111	56	62	57	29	7	36	13	12	
6	Oil & Grease	Mg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
7	Chloride	Mg/L	11399	1761	2642	4403	1370	1027	294	3473	636	2495	
8	Sulphate	Mg/L	13923	1273	2063	465	1613	291	103	2123	760	546	
9	Nitrate	Mg/L	22.85	65.93	22.77	13.11	6.36	<0.02	7.28	<0.02	107.25	48.68	
10	Dissolve Oxygen	Mg/L	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	

**3). Waste Water Collection in December 2017**

S. No.	Parameters	Unit	Location, Date of Sample collected & Monitoring Results									
			Ramdev	Meghmani Industries	Indofil	Meghmani Organic	SUN Pharma	Aries Colour	Sigachi	Coromandal	Rallies ETP Outlet	Fermenta Biotech
			11.12.2017	11.12.2017	11.12.2017	13.12.2017	13.12.2017	13.12.2017	13.12.2017	15.12.2017	15.12.2017	15.12.2017
1	pH		6.98	7.01	7.35	5.16	7.68	7.96	6.48	6.22	7.62	7.24
2	Total Dissolve Solid	Mg/L	8176	15640	45032	8856	6980	41720	1228	4040	1256	1080
3	Suspended Solids	Mg/L	22	24	49	53	37	35	73	23	66	45
4	COD	Mg/L	49	470	162	231	336	421	89	49	231	134
5	BOD (3 days at 27 °C)	Mg/L	15	141	49	69	101	126	27	15	69	40
6	Oil & Grease	Mg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
7	Chloride	Mg/L	4468	8645	1943	2525	2914	11899	534	437	583	486
8	Sulphate	Mg/L	54	905	24872	2608	905	16393	163	2326	319	294
9	Nitrate	Mg/L	17.40	<0.02	10.04	40.33	74.83	70.61	1.07	68.92	<0.2	<0.2
10	Dissolve Oxygen	Mg/L	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)

\* ND: Not Detected, MDL: Minimum Detection Limit

S. No.	Parameters	Unit	Location, Date of Sample collected & Monitoring Results									
			Torrent Pharma	Tatva Chintan	D" Pumping	Shiva Pharma	Firmerich	C" Pumping	Raks Pharma	Hindustan MI	Tharmax	Rock Wool)
			19.12.2017	19.12.2017	19.12.2017	21.12.2017	22.12.2017	27.12.2017	22.12.2017	29.12.2017	29.12.2017	16.12.2017
1	pH		6.62	6.51	7.05	7.09	7.56	7.08	5.38	6.93	7.31	7.65
2	Total Dissolve Solid	Mg/L	2016	4636	7084	8264	4572	44992	2592	1524	10040	3120
3	Suspended Solids	Mg/L	35	33	55	33	48	76	24	22	24	21
4	COD	Mg/L	116	54	145	140	227	686	66	21	132	36
5	BOD (3 days at 27	Mg/L	35	15	43	42	68	206	20	6	40	10
6	Oil & Grease	Mg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
7	Chloride	Mg/L	1360	2671	2865	4517	2525	4905	1020	923	4080	1894
8	Sulphate	Mg/L	141	714	1978	808	532	19391	570	19	2268	44
9	Nitrate	Mg/L	32.05	39.41	21.77	<0.02	5.44	<0.02	70.53	65.40	36.65	<0.02
10	Dissolve Oxygen	Mg/L	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)

**4). Waste Water Collection in January 2018**

S. No.	Parameters	Unit	Location, Date of Sample collected & Monitoring Results										
			Aries Colour	Sun pharma	Sigachi	Rock Wool	Ramdev	Meghamani Organic	Shiva Pharma	Firmenich	Torrent Pharma	C" Pumping	Accent Microcell
			05.01.2018	05.01.2018	05.01.2018	06.01.2018	08.01.2018	08.01.2018	08.01.2018	09.01.2018	10.01.2018	18.01.2018	29.01.2018
1	pH		8.17	8.37	8.25	7.57	7.93	7.51	7.43	7.88	7.09	7.54	7.21
2	Total Dissolve Solid	Mg/L	40012	7464	320	3764	7696	6420	1176	3112	2512	30778	2272
3	Suspended Solids	Mg/L	48	32	24	22	17	87	30	52	68	58	45
4	COD	Mg/L	459	118	28	18	45	382	24	240	159	496	207
5	BOD (3 days at 27	Mg/L	138		8	5	14	119	7	75	48	144	63
6	Oil & Grease	Mg/L	<1	35	<1	<1	<1	<1	<1	<1	<1	<1	<1
7	Chloride	Mg/L	10927	2623	243	2040	4177	1748	680	874	917	3982	1263
8	Sulphate	Mg/L	16814	1276	29	46	84	1833	133	610	379	12219	69
9	Nitrate	Mg/L	48.14	48.47	<0.2	<0.2	16.40	21.09	<0.2	7.63	<0.2	<0.2	10.23
10	Dissolve Oxygen	Mg/L	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)

\* ND: Not Detected, MDL: Minimum Detection Limit

S. No.	Parameters	Unit	Location, Date of Sample collected & Monitoring Results										
			Indofil	Meghamani Industries	Fermenta Biotech	Coromandel	("D" Pumping	Rallis ETP	Tatva Chintan	Thermax	Hindusthan M-I	Raks Pharma	
			11.01.2018	11.01.2018	10.01.2018	10.01.2018	15.01.2018	15.01.2018	15.01.2018	15.01.2018	16.01.2018	16.01.2018	
1	pH		7.82	7.90	7.28	7.08	7.80	7.58	7.65	7.87	8.01	6.24	
2	Total Dissolve Solid	Mg/L	75684	12916	1664	2528	4464	6528	4412	14756	920	2308	
3	Suspended Solids	Mg/L	86	28	76	27	46	117	17	41	16	24	
4	COD	Mg/L	118	207	146	24	134	386	41	89	45	57	
5	BOD (3 days at 27	Mg/L	34	62	44	8	40	116	12	28	13	16	
6	Oil & Grease	Mg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
7	Chloride	Mg/L	3837	5342	631	340	1214	1554	1651	4517	389	631	
8	Sulphate	Mg/L	40870	599	446	1123	1156	1657	662	2443	133	632	
9	Nitrate	Mg/L	33.34	35.89	<0.2	51.95	25.11	<0.02	15.60	<0.02	51.42	51.55	
10	Dissolve Oxygen	Mg/L	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	

**5) Waste Water Collection in Februy 2018**

S. No.	Parameters	Unit	Location, Date of Sample collected & Monitoring Results										
			RAMDEV	Aries Colour	Sun Pharma	Indofil	Sigachi	Meghamani Industries	Meghamani Organic	C" Pumping	Rook Wool	Firemich	MeghamaniLLP
			02.02.2018	02.02.2018	02.02.2018	06.02.2018	06.02.2018	06.02.2018	08.02.2018	09.02.2018	14.02.2018	15.02.2018	15.02.2018
1	pH		7.25	8.30	7.95	8.39	1.45	7.69	6.60	7.50	7.85	8.08	6.65
2	Total Dissolve Solid	Mg/L	7948	40692	7676	58776	10700	5404	8020	31048	2172	5460	3564
3	Suspended Solids	Mg/L	14	27	33	24	22	47	23	47	16	38	58
4	COD	Mg/L	59	455	122	78	47	75	200	2980	20	161	141
5	BOD (3 days at 27	Mg/L	18	138	36	24	14	23	60	810	6	48	42
6	Oil & Grease	Mg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
7	Chloride	Mg/L	4857	8985	2671	4128	389	2623	389	8111	1311	2331	1651
8	Sulphate	Mg/L	196	17794	1862	28917	3963	543	2755	10999	50	800	155
9	Nitrate	Mg/L	27.72	106.12	84.56	36.09	<0.2	<0.2	7.57	<0.2	<0.2	<0.2	96.27
10	Dissolve Oxygen	Mg/L	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)

\* ND: Not Detected, MDL: Minimum Detection Limit

S. No.	Parameters	Unit	Location, Date of Sample collected & Monitoring Results										
			Accent Outlet	Thermax	Fermenta - Bio	Coromandel	("D" Pumping	Rallis India	Torrent Pharama	Glen Mark	Opal Final Outlet	Shiva Pharma)	TatvaChintan)
			15.02.2018	19.02.2018	19.02.2018	19.02.2018	19.02.2018	19.02.2018	19.02.2018	19.02.2018	19.02.2018	19.02.2018	19.02.2018
1	pH		7.36	6.77	7.35	6.86	6.97	8.53	8.14	7.49	6.62	7.48	7.96
2	Total Dissolve Solid	Mg/L	4132	2048	1228	1912	4932	3592	2932	1060	4378	9856	6312
3	Suspended Solids	Mg/L	53	26	38	23	65	22	18	66	28	44	12
4	COD	Mg/L	216	16	275	12	236	31	105	35	93	202	70
5	BOD (3 days at 27	Mg/L	65	5	80	4	71	10	33	10	28	60	21
6	Oil & Grease	Mg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
7	Chloride	Mg/L	2040	1068	631	826	2234	1943	1554	1068	2283	5391	3545
8	Sulphate	Mg/L	515	313	187	230	485	196	136	8	425	393	285
9	Nitrate	Mg/L	14.73	<0.2	<0.2	51.95	<0.2	4.22	<0.2	<0.2	20.89	<0.2	8.57
10	Dissolve Oxygen	Mg/L	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)



**5) Waste Water Collection in March 2018**

S. No.	Parameters	Unit	Location, Date of Sample collected & Monitoring Results											Torrent Pharma
			Aries Colour	("C" Pumping)	Sigachi	Shiva Pharma	Rockwool	Ramdev	(MeghmaniLLP)	Megnamani Organic	Firmenien	Indofil	Accent Microcell	
			06.03.2018	06.03.2018	06.03.2018	06.03.2018	06.03.2018	07.03.2018	09.03.2018	09.03.2018	12.03.2018	13.03.2018	13.03.2018	27.03.2018
1	pH		8.67	7.57	8.31	7.00	8.29	8.28	6.79	6.69	8.31	8.57	7.19	8.16
2	Total Dissolve Solid	Mg/L	16172	17352	536	8488	1676	5728	2968	10796	5476	70182	3008	2052
3	Suspended Solids	Mg/L	49	180	19	39	24	19	53	23	32	26	55	15
4	COD	Mg/L	101	1839	8	145	4	28	169	93	133	145	343	89
5	BOD (3 days at 27	Mg/L	30	554	3	44	2	9	51	28	40	44	103	27
6	Oil & Grease	Mg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
7	Chloride	Mg/L	5099	4274	389	4565	923	3303	1700	340	2477	3497	1797	971
8	Sulphate	Mg/L	988	5964	12	1023	19	22	20	7787	596	90520	25	107
9	Nitrate	Mg/L	75.65	<0.02	<0.02	<0.02	<0.2	22.78	80.88	10.58	<0.02	34.35	14.26	<0.02
10	Dissolve Oxygen	Mg/L	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)

\* ND: Not Detected, MDL: Minimum Detection Limit

S. No.	Parameters	Unit	Location, Date of Sample collected & Monitoring Results									
			Meghmani Industries	Sun Pharma	Fermenta - Bio	("D" Pumping	Raks Pharma	Coromandel	Tharmax	TatvaChintan	Hindusthan MI	Opal Final
			13.03.2018	14.03.2018	17.03.2018	17.03.2018	17.03.2018	17.03.2018	20.03.2018	20.03.2018	20.03.2018	27.03.2018
1	pH		7.98	8.21	7.55	6.41	7.04	7.41	6.59	7.50	7.29	6.95
2	Total Dissolve Solid	Mg/L	7156	6132	4424	7032	2056	2428	3272	4972	752	2844
3	Suspended Solids	Mg/L	31	22	47	63	25	21	23	14	15	23
4	COD	Mg/L	173	125	248	355	113	12	145	109	12	52
5	BOD (3 days at 27 °C)	Mg/L	52	38	77	106	34	4	44	33	4	16
6	Oil & Grease	Mg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
7	Chloride	Mg/L	3837	2865	1214	1943	680	437	1020	2331	340	1068
8	Sulphate	Mg/L	542	952	1302	2009	611	987	949	525	133	380
9	Nitrate	Mg/L	<0.02	73.85	<0.02	<0.02	46.40	44.79	<0.02	6.90	48.14	18.95
10	Dissolve Oxygen	Mg/L	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)	N.D.(MDL:0.2)

**Annexure 6: Soil Quality Monitoring Data****1) Sample 1**

S. No.	Parameters	Unit	Location, Date of Sample collected & Monitoring Results
			Infront of Indofil
			17.02.2018
1	Antimony as Sb	mg/kg	N.D.
2	Arsenic as As	mg/kg	N.D.
3	Beryllium as Be	mg/kg	N.D.
4	Cadmium as Cd	mg/kg	0.038
5	Chromium as Cr	mg/kg	0.325
6	Copper as Cu	mg/kg	0.185
7	Lead as Pb	mg/kg	N.D.
8	Nickel as Ni	mg/kg	0.16
9	Selenium as Se	mg/kg	N.D.
10	Silver as Ag	mg/kg	N.D.
11	Titanium as Ti	mg/kg	N.D.
12	Zinc as Zn	mg/kg	0.164
13	Mercury as Hg	mg/kg	N.D.
14	Volatile Organic Compound (VOC)	ppm	N.D.
15	Semi volatile organic compound	ppm	N.D.
16	Inclusive of polynuclear Aromatic	Ppb	N.D.
17	Total Polychlorinated biphenyl (PCB)	Ppb	N.D.
18	Total Petroleum Hydrocarbon (TPH)	Ppb	N.D.

\* ND: Not Detected