



## Dahej SEZ Limited

Block No.14, 3rd Floor, Udyog Bhavan,  
Sector-11, Gandhinagar-382017, Gujarat, India  
Phone : +91-79-23241590, 29750838  
Fax : (079) 23241736  
e-mail : ceo@dahejsez.com, info@dahejsez.com  
website : www.dahejsez.com  
CIN : U45209GJ2004PLC044779  
GSTIN : 24AACCD8098E3ZJ

Ref.: DSL/Environment/Agency/2019/1223/2179

Date: 29/05/2019

To,  
The Director (S)  
Ministry of Environment and Forests,  
Regional Office (Western Region),  
"Kendriya Paryavaran Bhavan"  
Link Road no.3E-5, Ravi Shankar Nagar  
Bhopal – 462 016 (M.P.)

**Sub:** Submission of Half Yearly (Period – October-2018 to March-2019) EC compliance report for the Granted Environmental Clearance and CRZ clearance for Development of Dahej SEZ Ltd. (SPV of GIDC & ONGC) at. Tal. Vagra, Bharuch District (Gujarat).

**Ref.:** 1. Environmental Clearance No. 21-1084/2007-IA.III Dated 17th March 2010  
2. CRZ clearance F.No. 11-50/2011-IA. II Dated 19th September 2014.

Dear Sir,

With reference to above Environmental Clearance and CRZ Clearance were granted to Dahej SEZ Ltd., at. Taluka Vagra, Bharuch District, Gujarat. Under section 9 of The EIA Notification – 2006 - S.O. 1533 dated 14th September 2006 and the Coastal Regulation Zone Notification 2011 at respectively.

Half Yearly report (Period – October-2018 to March-2019) for EC compliance report along with environmental monitoring reports and other required details for Environmental Clearance and CRZ Clearance for our Development of Dahej SEZ Ltd., Village: Ambheta, Tal. Vagra, Bharuch District (Gujarat) is enclosed for your kind consideration.

We hope that our submission is in line with the EC and CEZ compliance.

Thanking You,  
Yours Faithfully,

*S N Patil*  
S N Patil

Chief Executive Officer

Encl: As above

पर्यावरण एवं वन मंत्रालय  
Ministry of Environment & forest  
क्षेत्रीय कार्यालय (पश्चिम क्षेत्र)  
Regional Office (Western Regional)

"केन्द्रीय पर्यावरण भवन"  
"Kendriya Paryavaran Bhavan"  
लिंक रोड नं. 3E-5, रविशंकर नगर  
Link Road No.3  
Ravishankar Nagar

बhopal-462016

*Received on 31/05/2019*  
*S N Patil*  
31/05/19



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CIN : U45209GJ2004PLC044779  
GSTIN : 24AACCD8098E3ZJ

Ref.: DSL/Environment/Agency/2018/1223/2180

Date: 29/05/2019

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

**Sub:** Submission of Half Yearly (Period – October-2018 to March-2019) EC compliance report for the Granted Environmental Clearance and CRZ clearance for Development of Dahej SEZ Ltd. (SPV of GIDC & ONGC) at. Tal. Vagra, Bharuch District (Gujarat).

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Yours Faithfully,

*S N Patil*  
S N Patil

Chief Executive Officer

Encl: As above

केन्द्रीय प्रदूषण नियंत्रण बोर्ड  
(पर्यावरण, वन एवं ज.प. मंत्रालय, भारत सरकार)  
क्षेत्रीय निदेशालय (पश्चिम), "परिवेश भवन,  
वार्ड कार्यालय नं.10 के पास, सुभानपुरा,  
वडोदरा-390 023.

*[Signature]*  
31-5-19



## Dahej SEZ Limited

Block No.14, 3rd Floor, Udyog Bhavan,  
Sector-11, Gandhinagar-382017, Gujarat, India  
Phone : +91-79-23241590, 29750838  
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website : www.dahejsez.com  
CIN : U45209GJ2004PLC044779  
GSTIN : 24AACCD8098E3ZJ

Ref.: DSL/Environment/Agency/2018/1223/2178

Date: 29/05/2019

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

**Sub:** Submission of Half Yearly (Period – October-2018 to March-2019) EC compliance report for the Granted Environmental Clearance and CRZ clearance for Development of Dahej SEZ Ltd. (SPV of GIDC & ONGC) at. Tal. Vagra, Bharuch District (Gujarat).

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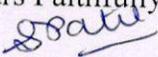
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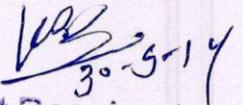
We hope that our submission is in line with the EC and CEZ compliance.

Thanking You,  
Yours Faithfully,

  
S N Patil

Chief Executive Officer

Encl: As above

  
30-5-19  
Post Received  
Gujarat Pollution Control Board  
BHARUCH.

# **COMPLIANCE REPORT OF ENVIRONMENTAL CLEARANCE**

**For**

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

**(E.C. Letter No. F.No.21-1084/2007-IA.III Dated 17-03-2010)  
(Period: to October' 2018 to March'2019)**

**Of**

**M/s. Dahej SEZ Ltd.  
(Joint Venture of GIDC & ONGC)**

**Located At:**

**Village-Dahej, Taluka - Vagra District-Bharuch,**

**Registered Office:**

**Dahej SEZ Ltd.  
Block no. 14<sup>th</sup>, 3<sup>rd</sup> Floor, Udyog Bhavan,  
Gandhinagar-382017, Gujarat**

**M/s. DAHEJ SEZ LTD.**

**EC Compliance report: Period (October' 2018 to March' 2019)**

SR. NO.	PART-A SPECIFIC CONDITION	COMPLIANCE STATUS
<b>I. Construction Phase</b>		
I.	“Consent for establishment” shall be obtained from Gujarat Pollution Control Board under Air and Water Act and a copy shall be submitted to the ministry before start of any construction work at the site.	Dahej SEZ Ltd. has obtained the Consent to established (GPCB/BRCH/NOC/3633/27240, Dated: 22/09/2008) and same is enclosed as <b>Annexure – I</b> . And Also Clearance of CC&A(Consolidated consent & Authorization) of Dahej SEZ .(GPCB/BRCH-B-CCA-125-25308/304986 Dated: 23/02/2015)
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 provisions of CRZ Notification, 1991 as amended from time by Govt. of India prior to any development / construction activity at site.	DSL has kept the area open falling under CRZ and no activity shall be carried out.  Also separate CRZ clearance was obtained vide letter no. 11-50/2011-IA.III dated 19/09/2014 and the copy off the same is enclosed <b>Annexure - III</b> .
III.	All the commitments made during the meeting held on 25th – 28 <sup>th</sup> February 2008, 16th – 18th July, 2008, 29th – 30th September, 2008 23rd – 24th November, 2009 and 27th – 29th 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, 20.01.2010, 28.01.2010 and 30.01.2010 shall be strictly complied with.	DSL is complying with the commitments made during the said meetings.
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 them without obtaining prior CRZ / Environmental Clearance.	DSL has excluded the portion of plot area allotted to units which falls under the CRZ area and no activities are permitted without obtaining CRZ clearance.
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.	The fresh demarcation of HTL / LTL lines and CRZ area was carried by Institute of Remote Sensing, Anna University, Chennai.
VI.	Separate CRZ Clearance shall be obtained by M/s. Dahej SEZ Ltd. For the area falling under CRZ.	M/s. Dahej SEZ Ltd. has obtained separate CRZ clearance vide letter no. 11-50/2011-IA.III dated 19/09/2014 for the area falling under CRZ and the same is enclosed as <b>Annexure-III</b> .

**M/s. DAHEJ SEZ LTD.**

**EC Compliance report: Period (October' 2018 to March' 2019)**

<b>SR. NO.</b>	<b>PART-A SPECIFIC CONDITION</b>	<b>COMPLIANCE STATUS</b>
VII.	M/s. Dahej SEZ Ltd. Shall issue directions to all the allottees, whose plots are affected partly under CRZ Notification to obtain necessary clearance after getting the recommendation from the state coastal Zone management Authority.	DSL has issued directions to all the allottees, whose plots are affected partly under CRZ Notification to obtain necessary clearance after getting the recommendation from the state coastal zone management authority. And the list of allottees whose plots are affected partly under CRZ Notification and obtained CRZ clearance is enclosed as <b>Annexure-III &amp; IV.</b>
VIII.	Necessary permission / NOC shall be obtained from competent authority for the disposal of treated effluent into deep sea.	DSL has obtained necessary permission/NOC from GPCB for disposal of treated effluent discharge into Vilayat- Dahej Pipeline developed by GIDC Authority. NOC vide letter no. GPCB/BRCH/NOC-3633/27240 dated 22/09/2008 is enclosed as <b>Annexure-I.</b>
IX.	Treated waste water shall be used for flushing of toilets, horticulture and HVAC purposes, in that order.	DSL treats the sewage in sewage treatment plant as per GPCB standards and will use the treated waste water for flushing of toilets, horticulture and HVAC purposes, in that order.
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 construction labours are hired from the nearby villages; hence housing is not required. But for them 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.	First Aid Room was provided during the construction of the project & operation phase. Two medical centres are in vicinity of Dahej SEZ area i.e. Dahej Health & Welfare Society Hospital and Birla Copper Plant @ Dahej.
XII.	All the topsoil excavated during construction activities should be stored for use in horticulture / landscape development within the project site.	Topsoil excavated during construction activities is used in horticulture / landscape development within the project site only.
XIII.	Disposal of muck during construction phase should not create any adverse effect on the neighbouring 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.	DSL has taken note of the same and complied with this condition.

## EC Compliance report: Period (October' 2018 to March' 2019)

SR. NO.	PART-A SPECIFIC CONDITION	COMPLIANCE STATUS
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.	Ground water samples are collected and analysis to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants. The test reports of Ground water quality are enclosed as <b>Annexure-V</b> .
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 into the ground water.	DSL has used the construction spoils or waste for levelling the site. DSL does not generate any bituminous material and other hazardous materials.
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.	There is no any hazardous waste generated during construction phase, hence this condition is not applicable.
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.	DSL has used only low sulphur diesel type to run diesel generator sets during construction phase to follow the Environment (Protection) rules prescribed for air and noise emission standards.
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.	DSL procure diesel as and when required and hence this conditions will not be applicable.
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.	Only vehicles in good condition with pollution check certificate and conforming to applicable air and noise emission standards will be allowed to bring the construction materials to the site during non-peak hours only.
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.	An ambient noise level conforms to residential standards both during day and night. Ambient air and noise quality are monitored during construction phase for checking incremental pollution load. And adequate measures are made to reduce ambient air and noise level during construction phase to conform to the stipulated standards by CPCB/ GPCB.

**M/s. DAHEJ SEZ LTD.**

**EC Compliance report: Period (October' 2018 to March' 2019)**

<b>SR. NO.</b>	<b>PART-A SPECIFIC CONDITION</b>	<b>COMPLIANCE STATUS</b>
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 27th August, 2003. (The above condition is applicable only if the project site is located within the 100 Km of Thermal Power Stations).	As no thermal power station is located within the 100 km from Dahej SEZ Ltd. Hence, this condition is not applicable.
XXII.	Ready mixed concrete must be used in building construction.	DSL is using only the ready mix concrete for its building construction.
XXIII.	Storm water control and its re-use as per CGWB and BIS standards for various applications.	DSL has taken note of this condition and shall comply with conditions.
XXIV.	Water demand during construction should be reduced by use of premixed Concrete, curing agents and other best practices referred.	As DSL is using only the ready mix concrete and curing agents and other latest technologies for its building construction, thus, water demanded during construction is greatly reduced.
XXV.	Permission to draw ground water shall be obtained from the competent Authority prior to construction / operation of the project.	Ground water extraction is not permitted within the DSL area; the entire water requirement is met with GIDC supply water. Hence there is no requirement to obtain permission for ground water extraction from competent authority.
XXVI.	Separation of grey and black water should be done by the use of dual Plumbing line for separation of grey and black water.	DSL used dual plumbing line for separation of gray water and black water in administration buildings in Dahej SEZ.
XXVII.	Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.	DSL asked all the member units to provide fixtures for showers, toilet flushing and drinking of low flow by using aerators or pressure reducing devices or sensor based control to conserve water.
XXVIII.	Use of glass may be reduced by up to 40% to reduce the electricity consumption and load on air-conditioning. If necessary, use high quality double glass with special reflective coating in windows.	DSL has taken note of this condition and asked member units to reduce electricity by implementation of high quality double glass with special reflective coating in windows.
XXIX.	Roof should meet prescriptive requirement as per energy conservation building code by using appropriate thermal insulation material to fulfil requirement.	The design of the building will be done as per energy conservation building code by using appropriate thermal insulation material to fulfil requirement
XXX.	Opaque wall should meet prescriptive requirement as per energy conservation building code which is proposed to be mandatory for all air-conditioned spaces	DSL will construct Opaque wall as per the energy conserving building construction code to conservation of energy also Use of light colors to reduce the UV absorption and minimize the

EC Compliance report: Period (October' 2018 to March' 2019)

SR. NO.	PART-A SPECIFIC CONDITION	COMPLIANCE STATUS
	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 fulfil Requirement.	associated cooling requirement will be used for the walls and ceiling.  Thermal insulation will be provided on roofs to conserve energy.
XXXI.	The approval of the competent authority shall be obtained for structural safety of the buildings due to earthquake, adequacy of firefighting equipment, etc. as per National building code including protection measures from lightening etc.	The approval of the competent authority are obtained for structural safety of the buildings due to earthquake, adequacy of fire fighting equipment, etc. as per National building code including protection measures from lightening etc.
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.	Regular supervision of the above and other measures for monitoring are in placed all through the construction phase, so as to avoid Disturbance to the surroundings.
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.	Taken note of this condition and complied.
<b>II- 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 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.	DSL has installed STP as per requirement and reuses / recycled sewage water for plantation.
II.	Necessary permission / NOC shall be obtained from competent authority for the disposal of treated effluent into deep sea.	DSL was obtained necessary permission/NOC from GPCB for disposal of treated effluent discharge into Vilayat- Dahej Pipeline developed by GIDC Authority. NOC vide letter no. GPCB/BRCH/NOC-3633/27240 dated 22/09/2008 is enclosed as <b>Annexure-I</b> .

## EC Compliance report: Period (October' 2018 to March' 2019)

SR. NO.	PART-A SPECIFIC CONDITION	COMPLIANCE STATUS
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 in the SEZ area have to obtained membership of nearby Authorized TSDF site for disposal of their hazardous wastes.
IV.	Diesel power generating sets proposed as source of backup power for elevators and common area illumination during operation phase should be of 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.	DSL will use D.G. Sets as a source of backup power during operation phase. The height of stack of DG sets is calculated and established to the height needed for the combined capacity of all proposed DG sets. DSL has used only low sulphur diesel type to run diesel generator sets during Operation phase to follow the Environment (Protection) rules prescribed for air and noise emission standards.
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.	It is ensured that ambient Noise level will not exceed the prescribed standards and 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. Half yearly comprehensive Ambient noise quality monitoring reports (October' 2018 to March ' 2019) are enclosed as <b>Annexure-V</b> .
VI.	The green belt of the adequate width and density preferably with local species along the periphery of the plot shall be raised so as to provide protection against particulates and noise.	Green belt (Approx 65000 no. Of Plants) with adequate width and density comprising of preferably local species is planted in the periphery of the plot to protect against particulate pollutant and sink noise level.
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.	DSL has left Weep holes in the compound walls so that, rain water naturally drains out to the catchment area during the monsoon Period.
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	DSL has implemented rain water harvesting for roof run-off and surface run-off. The surface runoff will be pre-treatment to remove suspended matter oil and grease before recharge

M/s. DAHEJ SEZ LTD.

EC Compliance report: Period (October' 2018 to March' 2019)

SR. NO.	PART-A SPECIFIC CONDITION	COMPLIANCE STATUS
	to remove suspended matter oil and grease. The bore well for rainwater recharging should be kept at least 5 mts. above the highest ground water table.	and the bore well for rainwater recharge is kept at about 5mts. above the highest ground water table.
IX.	The ground water level and its quantity should be monitored regularly in consultation with Central ground Water Authority.	DSL monitoring Ground water quality regularly and Ground water quality reports are enclosed as <b>Annexure-V.</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.	DSL has made arrangements to avoid Traffic congestion near the entry and exit points from the roads adjoining the proposed project site.
XI.	A Report on the 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.	DSL has taken note of this condition and shall comply with this condition.
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.	DSL has installed CFL lighting fixtures in the common areas, roof-top thermal insulation, light colors to reduce the UV absorption, automatic switching system for common building and street lighting.
XIII.	Adequate measures should be taken to prevent odour problem from solid waste processing plant and STP.	DSL will take adequate measures to prevent odour problem from STP. There is not solid waste processing plant in Dahej SEZ.
XIV.	The building should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.	DSL is following prevailing GDCR 2007 for SEZ and adequate distance is maintained to comply the condition.

EC Compliance report: Period (October' 2018 to March' 2019)

SR. NO.	PART- B GENERAL CONDITIONS	COMPLAINE STATUS
I.	The environmental safeguards contained in the EIA report should be Implemented in letter and spirit.	DSL has taken note of this condition and shall comply with this condition.
II.	The project proponent shall also submit six monthly reports on the Status of compliance of the 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.	<p>DSL is regularly submitting half yearly EC compliance report for the period of April to September and October to March, to the Ministry's Regional office at Bhopal, the respective Zonal office of CPCB at Vadodara and GPCB R.O. at Bharuch well within the stipulated time.</p> <p>The Six Monthly EC compliance submission dates for the last year are as under:</p> <p>1. Period April-2018 to September-2018, Date: 04.12.2018</p> <p>The last six monthly EC compliance report submission Ack copy Provided as fig.no.1, 2 and 3.</p>
	<p><u>Fig.No.1:EC Compliance Submission Acknowledge copy</u></p> 	<p><u>Fig.No.2:EC Compliance Submission Acknowledge copy</u></p> 
	<p><u>Fig.No.1:EC Compliance Submission Acknowledge copy</u></p> 	

For DSL SEZ Ltd.

S. N. Patil  
(Chief Executive Officer)

**M/s. DAHEJ SEZ LTD.**

**EC Compliance report: Period (October' 2018 to March' 2019)**

• **List of Annexure**

<b>Sr. No.</b>	<b>Annexure</b>
I.	Copy of Consent to established of proposed project
II.	Copy of CRZ area map
III.	Copy of CRZ clearance for the area falling under CRZ with its compliance.
IV.	List of Allottees with CRZ clearance
V.	Copy of Comprehensive Monitoring report of (October'18 to March'19)
VI.	Copy of Environmental Clearance for dispose the treated effluent into deep sea from MoEF&CC.
VII.	Copy of Consent to Operate of proposed project with its compliance

# **Annexure-I**

- Copy Of Consent To Established Of Proposed Project



# GUJARAT POLLUTION CONTROL BOARD

Paryavaran Bhavan

Sector-10-A, Gandhinagar - 382 010.  
Phone : 23222756, 23222095, 23222096  
Gram : CLEANWATER Fax : (079) 23232156  
Website : www.gpcb.gov.in

## "Consent to Establish" (NOC)

(ID NO-30594 upto 2.3.2013)

NO: GPCB/BRCH/NOC-3633/

27240

22 SEP 2008

TO:

M/s. DAHEJ SEZ LTD.  
GUJARAT INDUSTRIAL DEVELOPMENT CORPORATION (GIDC)  
1<sup>ST</sup> FLOOR, NARMADA CHEMICAL COMPLEX  
MAHATMA GANDHI ROAD,  
PANCHBATTI,  
BHARUCH-392001

SUB: **Consent to Establish (NOC)** under Section 25 of Water Act 1974 and Section 21 of Air Act 1981

REF:

1. Your NOC application No. Nil dated 03/03/2008.
2. GPCB letter dated 16/05/2008 & 01/06/2008.
3. MoEF letter dated 13/03/2008, 28/07/2008.
4. EC issued by MoEF for Dahej, Vilayat Pipeline for disposal at effluent dated 29/04/2005.
5. Ministry of commerce dated 20/12/2006, notifying survey area of Village-Dahej, Ambheta, Lakhigam suva, lavara Jageshwar
6. Your letter dated 18/06/2008
7. Minutes of the 63<sup>rd</sup> Meeting of expert Appraisal committee conducted on 16/07/2008.

Sir,

Without prejudice to the powers of this Board under the water (Prevention and Control of Pollution) Act-1974, Air Act-1981 and Environment (Protection) Act-1986 and without reducing your responsibilities under the said acts in any way, this is to inform you that this Board grants Consent to Establish (NOC) for setting up of a Special Economic Zone (SEZ) for the infrastructure Development by GIDC-Dahej SEZ Ltd, Village-Dahej, Ta- Vagra, Dist. Bharuch. The infrastructure facility includes plotting of land, area grading & development, horticulture & development of Gardens, Chain Link Fencing, Entrance Plaza with Bus and Truck Terminal, Common facility Centre and other administrative amenities building, Internal roads with street lights, storm water drainage system, corridors for power, telephones, water, gas and other utilities grid lines, Electrical sub-station & power supply network, Raw water storage, filtration and supply system, Under ground drainage cum collection system and conveyance of effluent into deep sea for its ultimate disposal.

The proposed categories of industries will be Petrochemicals and downstream petrochemical industries, Engineering industries (industrial equipment/ Machineries / vessels manufacturers / fabricators), Synthetic organic chemical manufacturers, industrial gas manufacturers, Packaging Industries/ fabrication units/ power generation units.

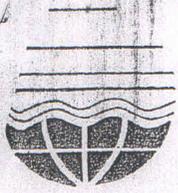
The plot area will be of 1740 hectares and total cost of the project shall be of Rs.294.04 Crores. The Validity period of order will be Five years (ID NO-30594 upto 2.3.2013).

### SUBJECT TO THE FOLLOWING SPECIFIC CONDITIONS: -

1. SEZ shall strictly abide with the various conditions as stipulated in permission letter of Ministry of commerce & industries, Government of India, dated 21/09/2005.

2017

o/c



# GUJARAT POLLUTION CONTROL BOARD

## Paryavaran Bhavan

Sector-10-A, Gandhinagar - 382 010.  
 Phone : 23222756, 23222095, 23222096  
 Gram : CLEANWATER Fax : (079) 23232156  
 Website : www.gpcb.gov.in

Temperature	40° C
Colour (pt. co. scale) in units	100 units
Suspended Solids	100 mg/l
Oil and Grease	10 mg/l
Phenolic Compounds	1 mg/l
Cyanides	0.2 mg/l
Fluorides	1.5 mg/l
Sulphides	2 mg/l
Ammoniacal Nitrogen	50 mg/l
Arsenic	0.2 mg/l
Total Chromium	2.0 mg/l
Hexavalent Chromium	0.1 mg/l
Copper	3 mg/l
Lead	0.1 mg/l
Mercury	0.01 mg/l
Nickel	3 mg/l
Zinc	5 mg/l
BOD ( 3 days at 27° C)	100 mg/l
COD	250 mg/l
Chlorides	600 mg/l
Sulphates	1000 mg/l
Total dissolved solids	5000 mg/ltr.
Insecticides / Pesticides	Absent
Bio-assay test	90 % Survival of fish after 96 hours in 100 % effluent

The treated effluent conforming to above standards shall be discharged in to Vilayat Dahej Pipeline developed by GIDC authority, having effluent conveyance capacity of 90 MLD.

28. All individual industries to be come-up in SEZ shall have to take the adequate measures under the provisions of Water Act, Air Act and Hazardous waste Rules.
29. Sewage shall be treated in Sewage-treatment plan (STP) to conform to the following standards and shall be utilized on land for irrigation / plantation in the area SEZ area.

BOD ( 3 days at 27° C)	Less than	20	mg/l
Suspended Solids	Less than	30	mg/l
Residual Chlorine	Minimum	0.5	ppm

30. SEZ developer shall be fully responsible for collection, conveyance and disposal of treated effluent into the inlet of Vilayat Dahej Pipeline.
31. SEZ developer shall instruct & make sure that every member unit shall make storage facilities to store the effluent for at least 24 hours with an impervious acid proof brick lining tank / HDPE tank.
32. SEZ developer shall provide online pH meter with recorder & magnetic flow meters for flow measurement of treated waste water discharged in to vilayat Dahej disposal pipeline.
33. SEZ developer shall constitute a monitoring committee for monitoring of the effluent discharged by its members leading to Guard ponds.



# GUJARAT POLLUTION CONTROL BOARD

Paryavaran Bhavan

Sector-10-A, Gandhinagar - 382 010.  
Phone : 23222756, 23222095, 23222096  
Gram : CLEANWATER Fax : (079) 23232156  
Website : www.gpcb.gov.in

## CONDITIONS UNDER HAZARDOUS WASTE :

47. SEZ developer and all the member industrial units shall have to comply with provisions of Hazardous Waste (Management & Handling) Rule-1989 as amended from time to time.

## GENERAL CONDITION:

48. SEZ authority shall however, not without the prior consent of the Board bring into use any new or altered outlet for the discharge of effluent or gaseous emission or sewage waste from the proposed industrial plant. The applicant is required to make applications to this Board for this purpose in the prescribed forms under the provisions of the Water Act-1974, the Air Act-1981 and the Environment (Protection) Act-1986.
48. Unit shall develop green belt within premises as per the CPCB guidelines. However, if the adequate land is not available within premises, unit shall tie up with local agencies like gram panchayat, school, social forestry office etc. for the plantation at suitable open land in nearby locality and submit an action plan of plantation for next three years to GPCB. Plantation should be started along with constitution activity. For plantations within the premises, a spacing of at least 4m x 4m shall be kept i.e. to say 250 plants per acre shall be plantation. For plantations outside the premises a spacing of 2m x 2m will be kept i.e. to say 1000 plants per acre.
49. The applicant shall have to submit the returns in prescribed form regarding water consumption and shall have to make payment of water cess to the Board under the Water Cess Act- 1977.
50. In case of change of ownership/management the name and address of the new owners/partners/directors/proprietor should immediately be intimated to the Board.
51. The applicant shall however, not without the prior consent of the Board bring into use any new or altered outlet for the discharge of effluent or gaseous emission or sewage waste or hazardous waste from the proposed industrial plant. The applicant is required to make applications to this Board for this purpose in the prescribed forms under the provisions of the Water Act-1974, the Air Act-1981 and the Environment (Protection) Act-1986 60 days before commencing the production.
52. The applicant shall also comply with the General conditions as per Annexure - I attached herewith (No.1 to 38), whichever are applicable.
53. The overall noise level in and around the plant area shall be kept well within the standards by providing noise control measures including engineering control like acoustic insulation hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall conform to the standards prescribed under The Environment (Protection) Act, 1986 & Rules.
54. The applicant shall have to submit the returns in prescribed form regarding water consumption and shall have to make payment of water cess to the Board under the Water Cess Act- 1977.
55. In case of change of ownership / management the name and address of the new owners / partners / directors / proprietor should immediately be intimated to the Board.
56. The concentration of Noise in ambient air within the premises of industrial unit shall not exceed following levels:  
Between 6 A.M. and 10 P.M.: 75 dB (A)  
Between 10 P.M. and 6 A.M.: 70 dB (A)

2. SEZ shall provide final guard pond with adequate holding capacity for 48 hours before discharging to Dahej-Vilayat GIDC effluent disposal pipeline and shall ensure that the waste water being disposed is conforming to GPCB standards.
3. SEZ shall be responsible for collection and conveyance of treated waste water of individual unit within SEZ, up to final guard pond, for further disposal to deep sea.
4. Individual coming unit shall be responsible to obtain CTE / EC from the competent authority.
5. SEZ shall be responsible to take adequate measures to maintain environmental standards during construction / development phase of SEZ, for proposed infrastructure.
6. Ground water shall not be extracted at any stage.
7. Storm water drainage must be constructed separately.
8. Individual chemical industries, shall have to obtain EC from concerned – authorities (if applicable) under EIAN-2006.
9. SEZ shall work as nodal agency for encouraging waste minimization / waste Exchange program & opportunity for recovery / reuse among the member units.
10. SEZ shall explore biogas generation alternatives from canteen as well as decomposable waste & its captive hrs.
11. Carpeted / RCC Road of 7 to 14 meter as required with central divider, shall be provided, within SEZ – area & nearby SEZ area.
12. Under ground surface line only covered with inter locking footpath with sandy based along with tree-plantation, shall be provided by SEZ – developers.
13. You shall have to comply with the suggestions / recommendations of the minutes of the environmental Public Consultation Committee held on 17/08/2008 at Bharuch and Environmental Management Plan and compliance report be sent to head office at Gandhinagar & Regional Office regularly.
14. Units to come up within SEZ area shall have to obtain CTE (NOC) from Gujarat Pollution Control Board and other clearances from the concerned authorities.
15. Rain water harvesting system shall be installed and operated adequately.
16. SEZ developer shall obtain all approval from various statutory authorities, under relevant laws & regulation of Government of India & State Government & from local bodies.
17. Adequate provision for rehabilitation of the displaced persons shall be made by the developer.
18. Ambient air monitoring shall be carried out as per EIA report .
19. Adequate measures shall be taken to control odour problem from STP/ other ancillaries operations.
20. You shall comply with SEZ Acts, rules & notifications, as applicable.
21. SEZ developer shall take adequate mitigation measures to control pollution (Air + Water + Hazardous) during construction / development stage.

#### CONDITIONS UNDER WATER ACT 1974:

22. Total Water consumption for entire SEZ shall not exceed **85 MLD**.
23. The industrial effluent generated from the industries shall not exceed **45 MLD** & Domestic waste water shall not exceed **40 MLD**.
24. You shall have to provide magnetic flow meter at final outlet of final guard pond from where the industrial waste water is finally pumped into the inlet of Vilayat Dahej Pipeline & maintain effluent disposal records for further disposal into deep sea. SEZ developer shall also explore the possibility of reuse or recycle of treated effluent in the system.
25. The quality of treated industrial effluent shall conform to following standards, so that quality of the proposed fresh water reservoir of Kalpsar project does not get applied.

PARAMETERS	NORMS
pH	6.5 to 8.5

34. SEZ shall provide a final guard pond before discharging treated effluent into Vilayat – Dahej pipeling with holding capacity of treated effluent for at least 2 days (48 hours), having pucca & improrvius layer.
35. In case of power failure standby DG Sets, having power generation capacity equivalent to the requirement of power to discharge treated waste water in to disposal pipeline shall be provided in case of power failure to avoid of un even situation.
36. SEZ developer shall provide with online monitoring instruments along with SCADA system & pH actuated valve at the final guard sump.
37. You shall maintain strict control over effluent management from units.
38. In order to enable the Board to perform its functions of ascertaining the standards of effluent laid down by it for the discharge of the effluent under the condition of this order, are complied with by the Company while causing discharge of effluent, the applicant shall have to submit every month the analysis report of the samples of effluent got collected and analyzed by one of the laboratories recognized by the State Board. You shall keep accurate record of the member units in respect of quantity of each product manufactured, quantity of water consumption, quantity of effluent supplied to disposal pipeline and consumption of Electricity on day to day basis and required to submit the compiled record for one month to GPCB on or before seventh day of the succeeding month.
39. You shall inform immediately to the Gujarat Pollution Control Board, regarding the termination/suspension of the membership of the member unit.
40. If the products/process falls in SCHEDULE-I or II of the Environmental Audit Scheme, as specified in the order dated 13/3/97 of Hon. High Court in MCA NO.326/97 in SCA No.770/95, respective unit shall also abide by the said scheme.
41. SEZ developer has to register the unit for the coming up units under the provisions of the Factories Act-1948 and shall obtain the necessary factory license, as applicable.
42. You shall have to obtain P.L.I. Policy as per P.L.I. Act, 1991 and submit the copy of the same to the G.P.C.B.

**CONDITIONS UNDER AIR ACT 1981:**

43. The gaseous emissions (SO<sub>2</sub>, NO<sub>x</sub>, and HC) and Particulate matter along with RSPM levels from various process units shall conform to the standards prescribes by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards.
44. Necessary Air pollution control measures for odour control shall be implemented.
45. Stack monitoring facilities like port hole, platform/ladder etc, shall be provided with stacks/vents chimney in order to facilitate sampling of gases being emitted into the atmosphere:
46. Ambient air quality within the premises of the SEZ shall conform to the following standards:

PARAMETERS	PERMISSIBLE LIMIT
Suspended Particulate Matter	500 Microgram/M <sup>3</sup>
RSPM	150 Microgram/M <sup>3</sup>
SO <sub>2</sub>	120 Microgram/M <sup>3</sup>
NO <sub>x</sub>	120 Microgram/M <sup>3</sup>
HCL	200 Microgram/M <sup>3</sup>
CL <sub>2</sub>	100 Microgram/M <sup>3</sup>
Ammonia	850 Microgram/M <sup>3</sup>
Hydrocarbon	160 Microgram/M <sup>3</sup>
H <sub>2</sub> S	500 Microgram/M <sup>3</sup>
HF	60 Microgram/M <sup>3</sup>
CO	5000 Microgram/M <sup>3</sup>
CS <sub>2</sub>	2000 Microgram/M <sup>3</sup>

57. Applicant is required to comply with the manufacturing, Storage and Import of Hazardous Chemicals Rules-1989 framed under the Environment (Protection) Act-1986.
58. If it is established by any competent authority that the damage is caused due to their industrial activities to any person or his property .in that case they are obliged to pay the compensation as determined by the competent authority.

For and on behalf of  
GUJARAT POLLUTION CONTROL BOARD

  
(A.A. Dotti)  
ENVIRONMENTAL ENGINEER

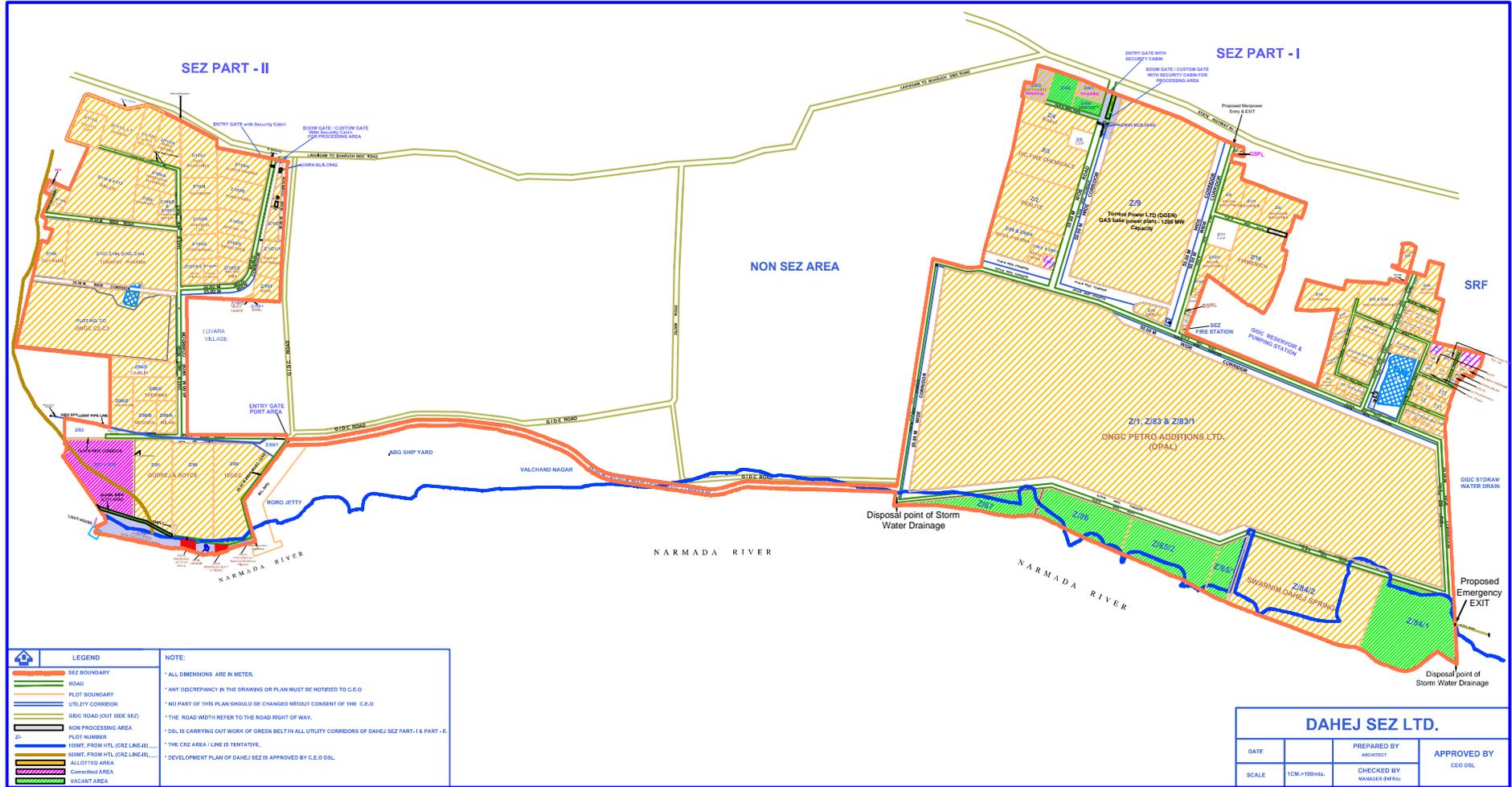
# Annexure-II

➤ DSL CRZ MAP

# DAHEJ SEZ DEVELOPMENT PLAN

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



# **Annexure-V**

- **Copy Of Comprehensive Monitoring Report Of  
(October.'2018 To March.'2019)**

# ENVIRONMENTAL MONITORING REPORT

Period: October-2018 to March-2019

FOR



Dahej SEZ Ltd.

**M/s. Dahej SEZ Ltd. (SEZ Developer)**



**At**

**Dahej SEZ Part - I**

**At & Post: Dahej, Taluka - Vagra,  
Dist. Bharuch - 392 140, Gujarat**

**Monitoring Organization**



White House,  
Near G.I.D.C. Office, Char Rasta,  
Vapi-396 195, Gujarat, India.  
Phone : +91 260 2433966 / 2425610  
Email : [response@uerl.in](mailto:response@uerl.in) Website : [www.uerl.in](http://www.uerl.in)

MoEF&CC (GOI) Recognized Environmental  
Laboratory under the EPA-1986(12.01.2015 to 11.01.2020)

QCI-NABET Accredited EIA  
Consultant Organization

GPCB Recognized Environmental  
Auditor (Schedule-II)

OHSAS18001:2007  
Certified Company

ISO 9001:2015  
Certified Company

# INDEX

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	Wind Rose Diagram-November-2018	4
	Wind Rose Diagram-December -2018	6
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	Wind Rose Diagram-February -2019	10
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# 1.0 METEOROLOGICAL MONITORING REPORT



**Period: October-2018 to March-2019**

**FOR**



**Dahej SEZ Ltd.**

**M/s. Dahej SEZ Ltd. (SEZ Developer)**

**Dahej SEZ Part - I  
At & Post: Dahej, Taluka - Vagra,  
Dist. Bharuch - 392 140, Gujarat**

**Monitoring Organization**



White House,  
Near G.I.D.C. Office, Char Rasta,  
Vapi-396 195, Gujarat, India.  
Phone : +91 260 2433966 / 2425610  
Email : [response@uerl.in](mailto:response@uerl.in) Website : [www.uerl.in](http://www.uerl.in)

MoEF&CC (GOI) Recognized Environmental Laboratory under the EPA-1986(12.01.2015 to 11.01.2020)

QCI-NABET Accredited EIA Consultant Organization

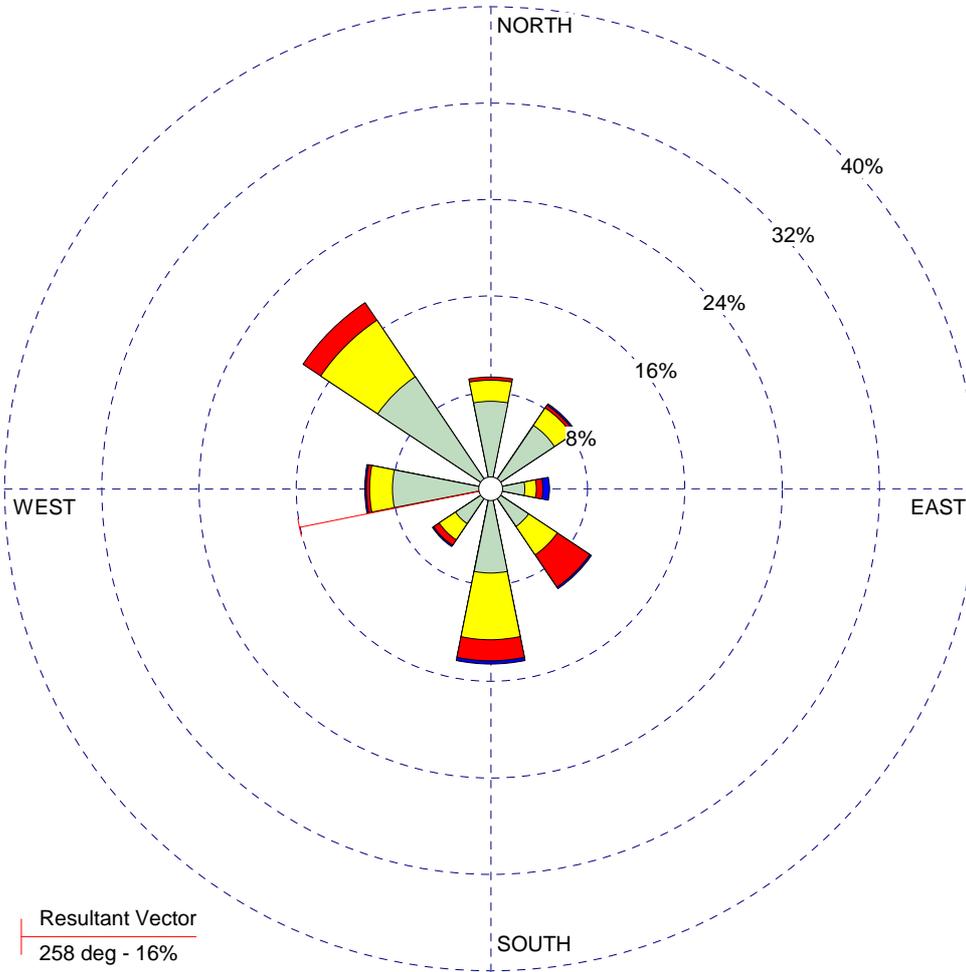
GPCB Recognized Environmental Auditor (Schedule-II)

OHSAS18001:2007 Certified Company

ISO 9001:2015 Certified Company

WIND ROSE PLOT:  
**October'18**

DISPLAY:  
**Wind Speed  
Direction (blowing from)**



Resultant Vector  
258 deg - 16%

WIND SPEED  
(m/s)

- >= 11.10
- 8.80 - 11.10
- 5.70 - 8.80
- 3.60 - 5.70
- 2.10 - 3.60
- 0.50 - 2.10

Calms: 18.28%

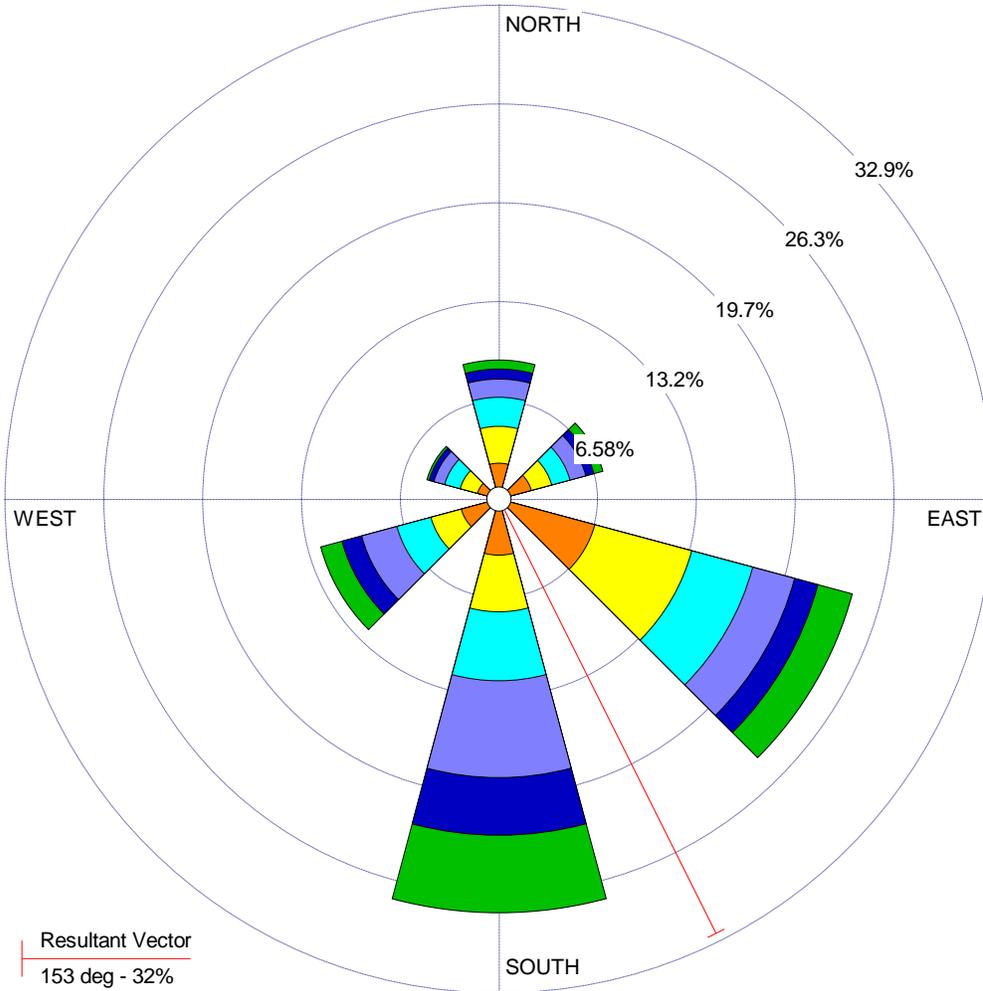
COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	Start Date: 01-10-2018 - 00:00 End Date: 31-10-2018 - 23:00	<b>M/s. Dahej Sez Limited</b>	
	CALM WINDS:	MODELER:	
	<b>18.28%</b>	<b>Unistar Environment &amp; Research Labs Pvt. Ltd.</b>	
AVG. WIND SPEED:	TOTAL COUNT:	PROJECT NO.:	
<b>1.70 m/s</b>	<b>744 hrs.</b>	<b>Dahej/October 18</b>	

WIND ROSE PLOT:

**WIND ROSE**

DISPLAY:

**Wind Speed  
Flow Vector (blowing to)**



Resultant Vector  
153 deg - 32%

WIND SPEED (m/s)

- >= 11.10
- 8.80 - 11.10
- 5.70 - 8.80
- 3.60 - 5.70
- 2.10 - 3.60
- 0.50 - 2.10

Calms: 14.51%

COMMENTS:

DATA PERIOD:

Start Date: 01/10/2018 - 00:00  
End Date: 31/03/2019 - 23:00

COMPANY NAME:

**M/s. Dahej Sez Limited**

MODELER:  
**UNISTAR ENVIRONMENT  
AND RESEARCH LABS**

CALM WINDS:

14.51%

TOTAL COUNT:

4367 hrs.

AVG. WIND SPEED:

4.81 m/s

DATE:

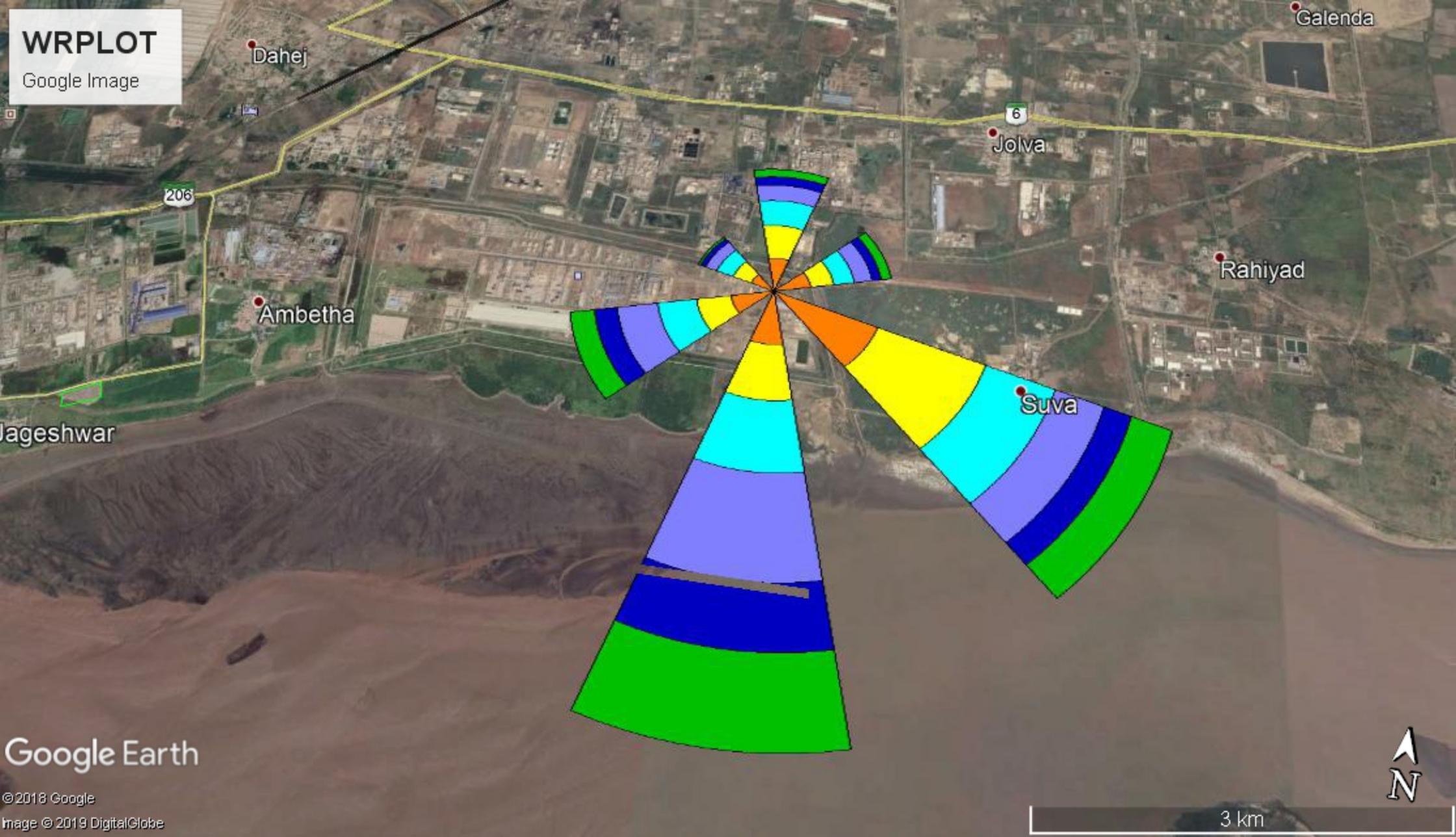
16/04/2019

PROJECT NO.:

**Dahej/ Oct18-Mar19**

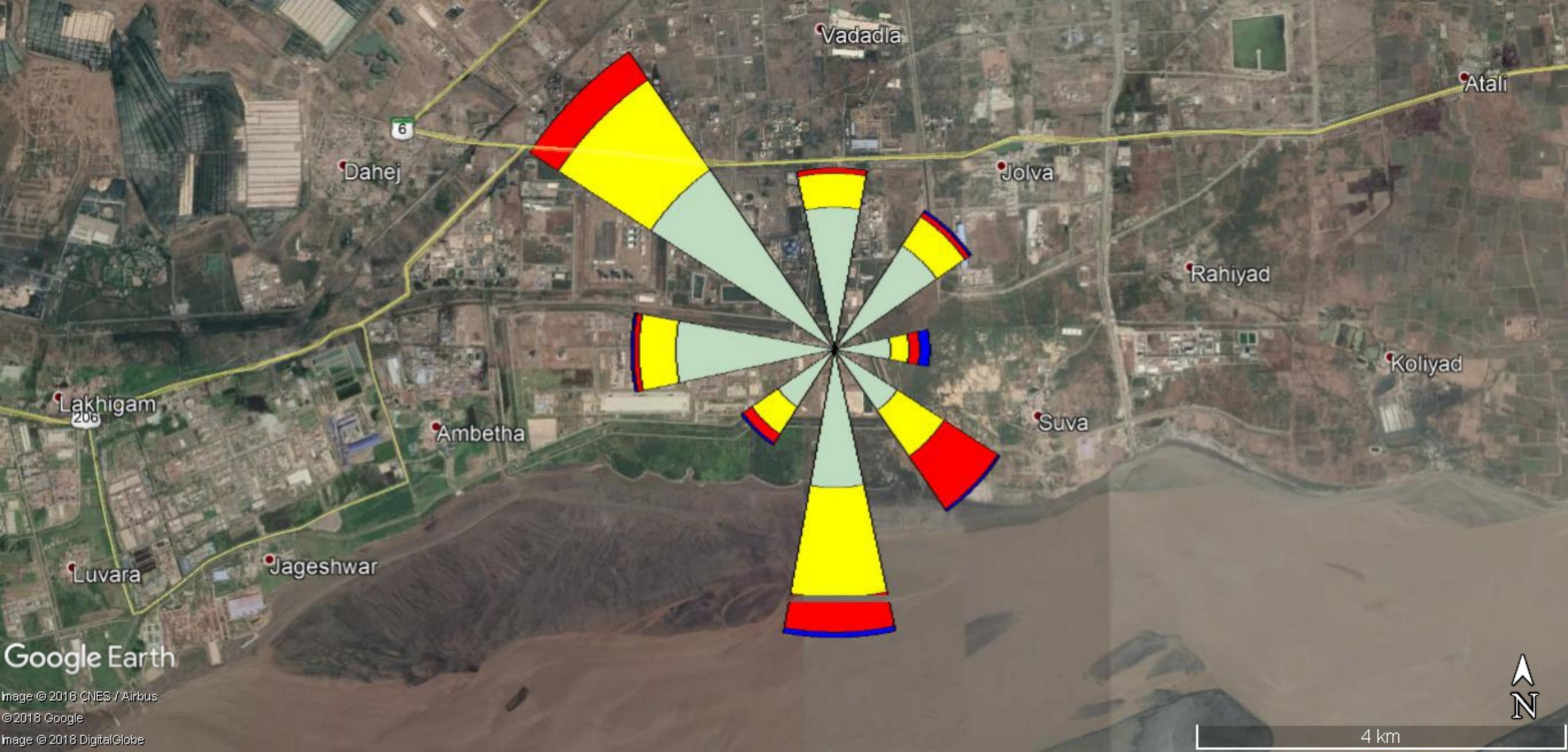
# WRPLOT

Google Image



Google Earth





Google Earth

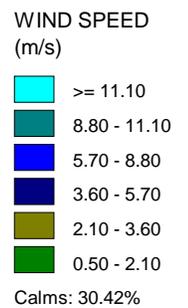
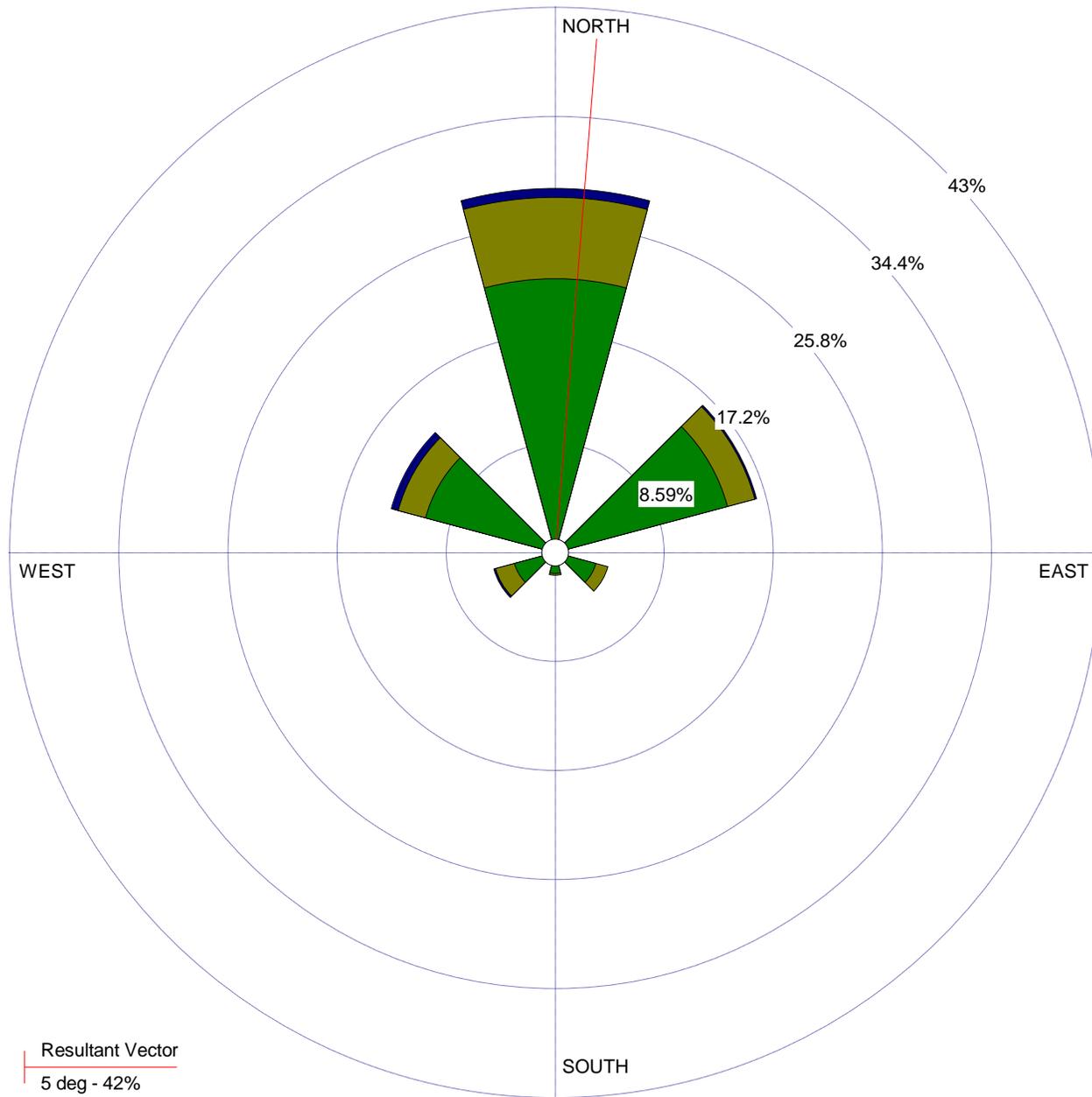
Image © 2018 CNES / Airbus

© 2018 Google

Image © 2018 DigitalGlobe

4 km





Resultant Vector  
 5 deg - 42%

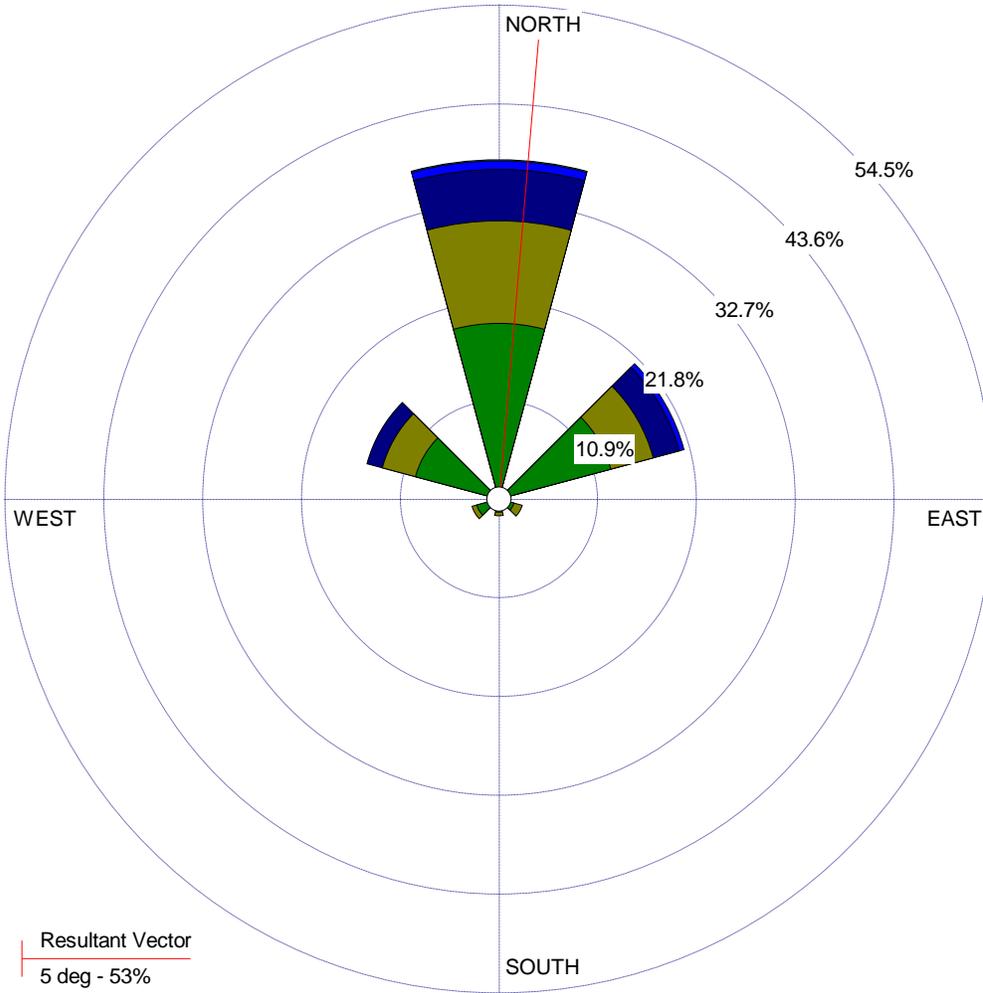
COMMENTS: Nov- 18	DATA PERIOD: <b>Start Date: 01/11/2018 - 00:00</b> <b>End Date: 30/11/2018 - 23:00</b>	COMPANY NAME: <b>M/s. Dahej Sez Limited</b>	
		MODELER: <b>UNISTAR ENVIRONMENT AND RESEARCH LABS</b>	
	CALM WINDS: <b>30.42%</b>	TOTAL COUNT: <b>719 hrs.</b>	
	AVG. WIND SPEED: <b>1.07 m/s</b>	DATE: <b>07/12/2018</b>	PROJECT NO.:

WIND ROSE PLOT:

**WIND ROSE**

DISPLAY:

**Wind Speed**  
**Direction (blowing from)**



WIND SPEED  
(m/s)

- >= 11.10
- 8.80 - 11.10
- 5.70 - 8.80
- 3.60 - 5.70
- 2.10 - 3.60
- 0.50 - 2.10

Calms: 18.82%

COMMENTS:

DATA PERIOD:

**Start Date: 01/12/2018 - 00:00**  
**End Date: 31/12/2018 - 23:00**

COMPANY NAME:

**M/s. Dahej Sez Limited**

MODELER:  
**UNISTAR ENVIRONMENT  
AND RESEARCH LABS**

CALM WINDS:

**18.82%**

TOTAL COUNT:

**744 hrs.**

AVG. WIND SPEED:

**1.71 m/s**

DATE:

**04/01/2019**

PROJECT NO.:

**Dahej/December 18**

# WRPLOT

Google Image- Dec 18



Google Earth

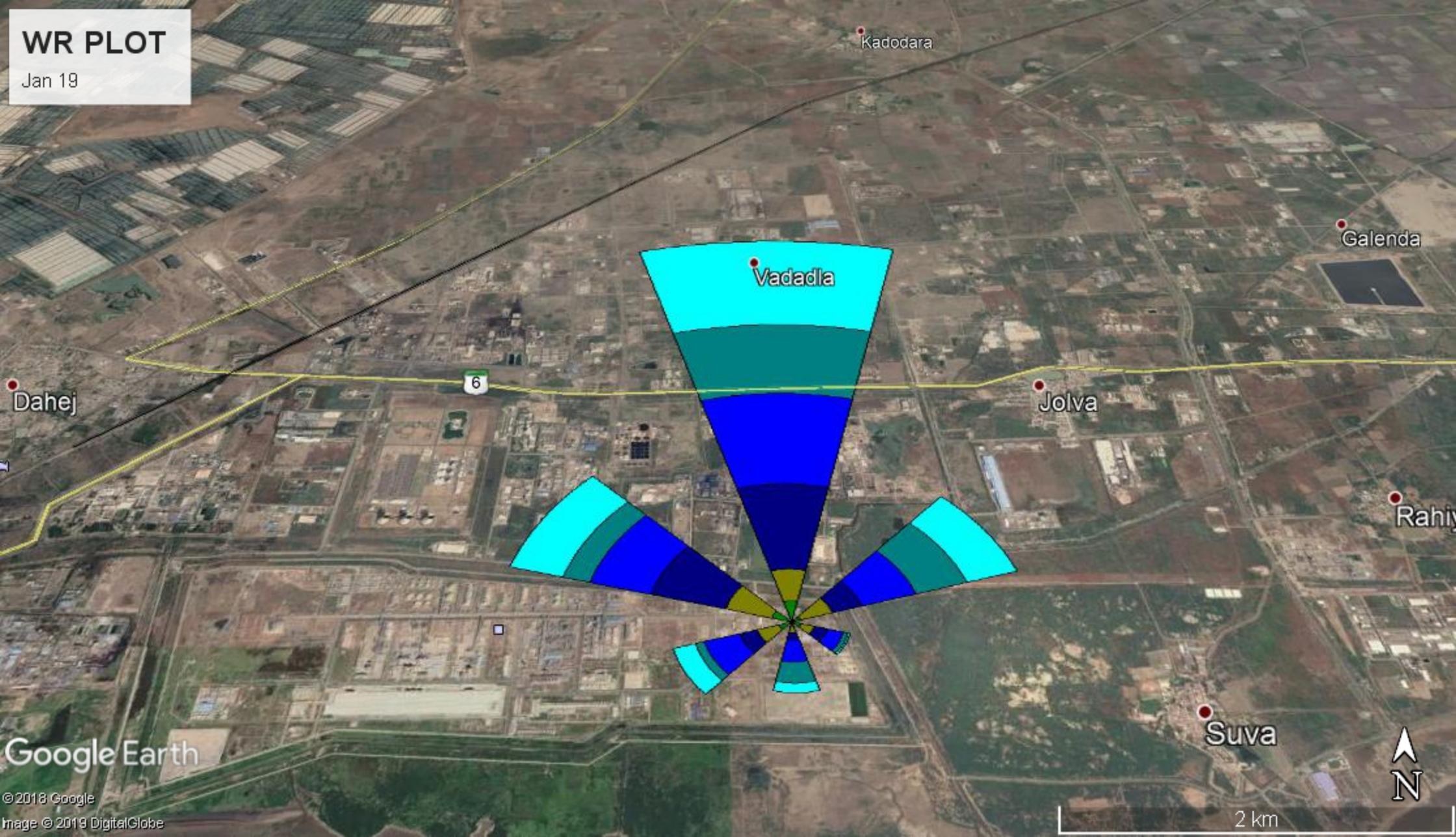
Image © 2018 CNES / Airbus  
© 2018 Google  
Image © 2018 DigitalGlobe

4 km



# WR PLOT

Jan 19



Google Earth

© 2018 Google  
Image © 2019 DigitalGlobe

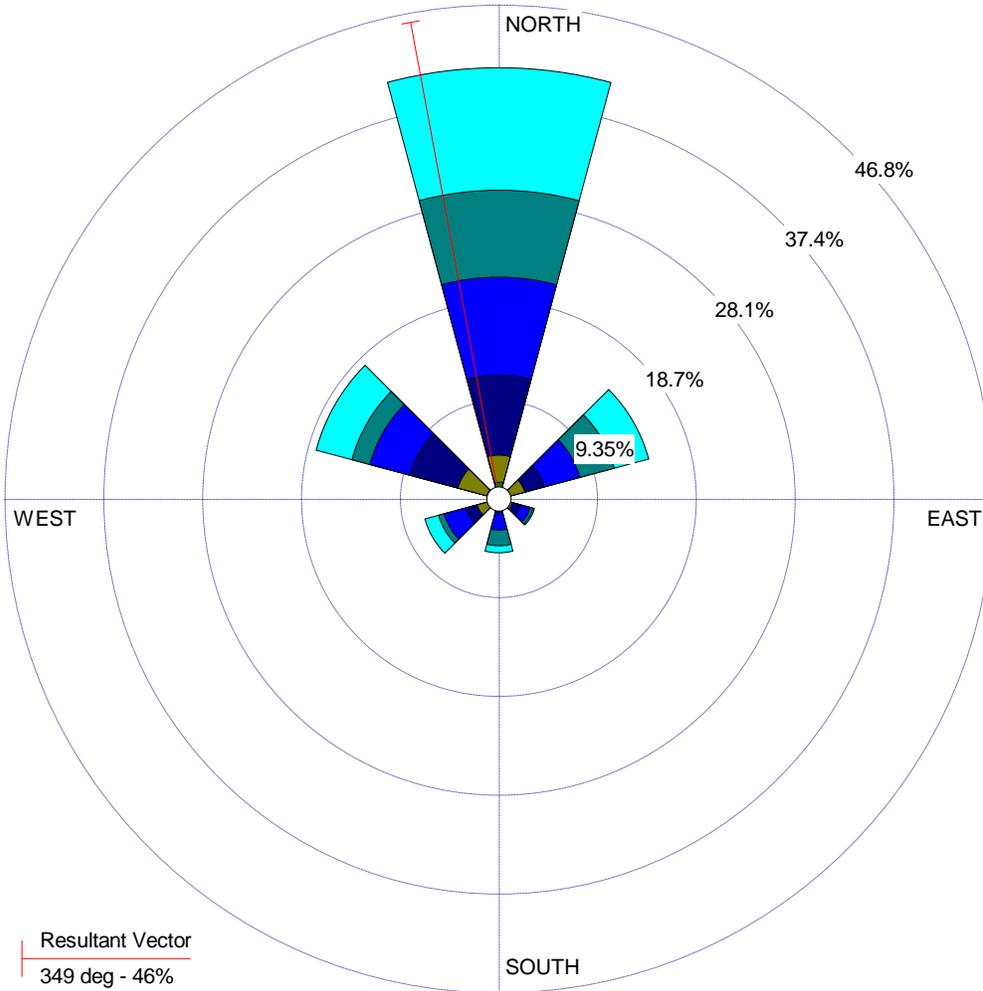
2 km

WIND ROSE PLOT:

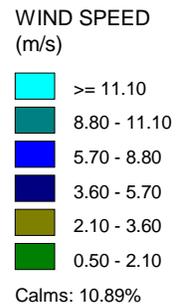
**WIND ROSE**

DISPLAY:

**Wind Speed**  
**Direction (blowing from)**



Resultant Vector  
349 deg - 46%



COMMENTS:

DATA PERIOD:

Start Date: 01/01/2019 - 00:00  
End Date: 31/01/2019 - 23:00

COMPANY NAME:

**M/s. Dahej Sez Limited**

MODELER:  
**UNISTAR ENVIRONMENT  
AND RESEARCH LABS**

CALM WINDS:

**10.89%**

TOTAL COUNT:

**744 hrs.**

AVG. WIND SPEED:

**7.22 m/s**

DATE:

**05/02/2019**

PROJECT NO.:

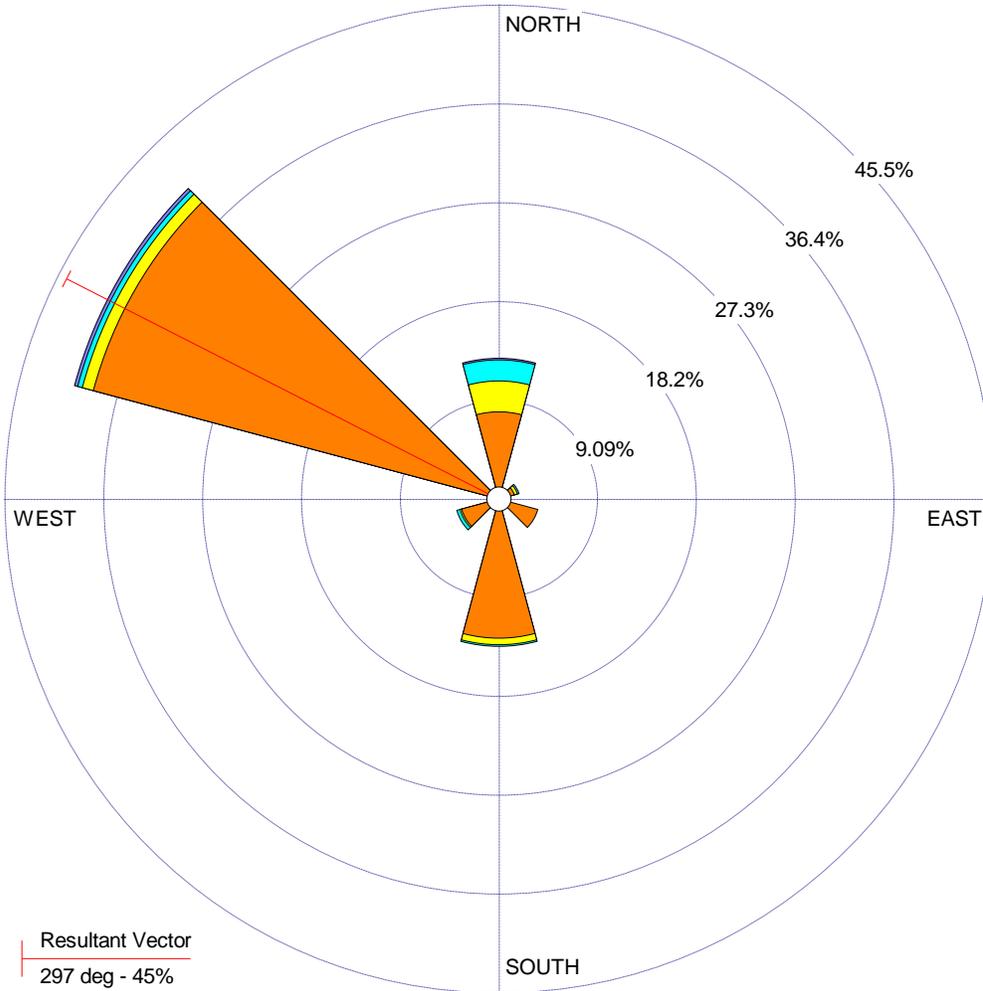
**Gandhinagar/Jan19**

WIND ROSE PLOT:

**WIND ROSE**

DISPLAY:

**Wind Speed**  
**Direction (blowing from)**



Resultant Vector  
297 deg - 45%

WIND SPEED (m/s)

- >= 11.10
- 8.80 - 11.10
- 5.70 - 8.80
- 3.60 - 5.70
- 2.10 - 3.60
- 0.50 - 2.10

Calms: 23.51%

COMMENTS:

DATA PERIOD:

Start Date: 01/01/2019 - 00:00  
End Date: 28/01/2019 - 23:00

COMPANY NAME:

**M/s. Dahej Sez Limited**

MODELER:  
**UNISTAR ENVIRONMENT  
AND RESEARCH LABS**

CALM WINDS:

**23.51%**

TOTAL COUNT:

**672 hrs.**

AVG. WIND SPEED:

**0.86 m/s**

DATE:

**07/03/2019**

PROJECT NO.:

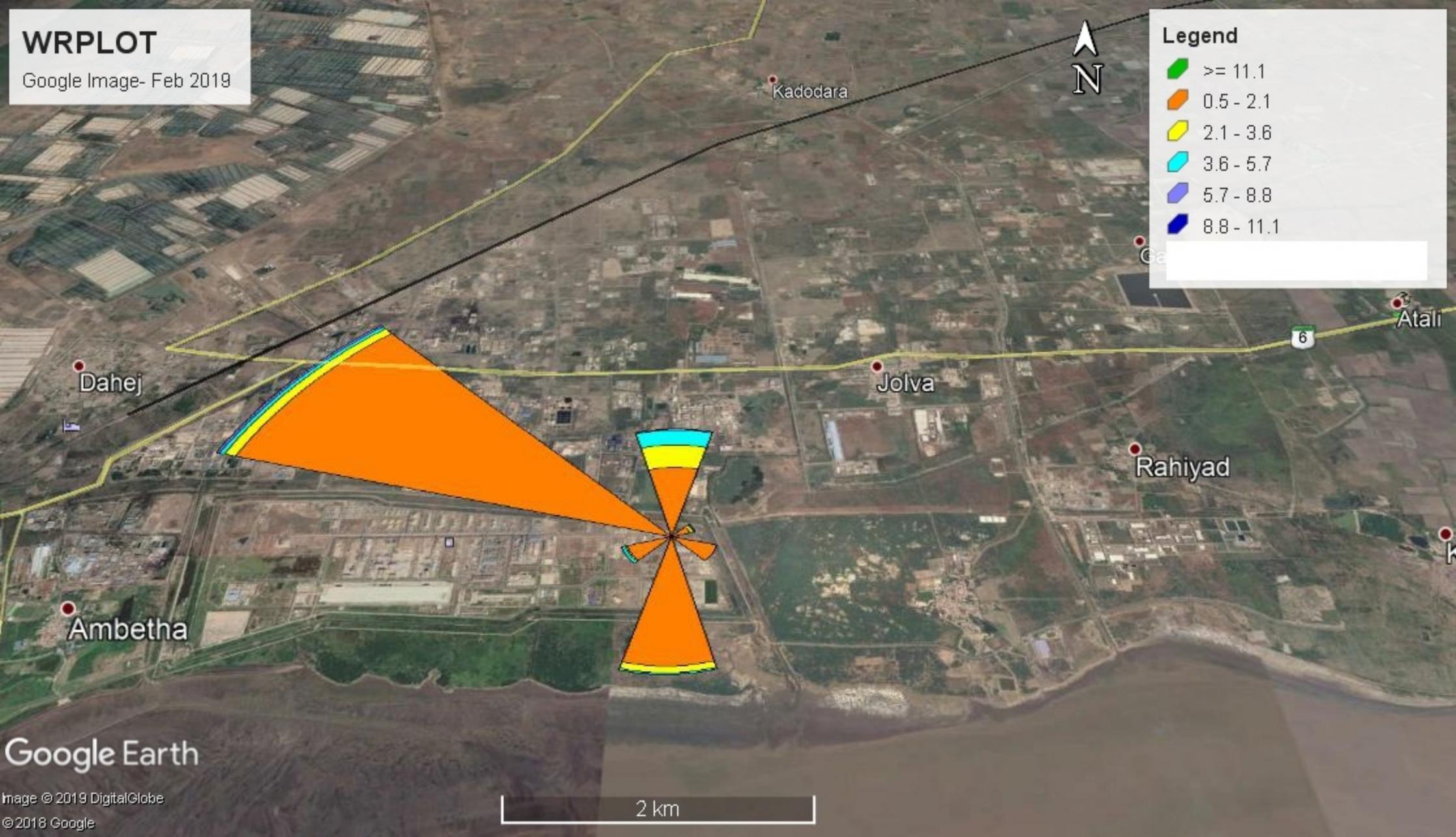
**Feb - 2019**

# WRPLOT

Google Image- Feb 2019

## Legend

-   $\geq 11.1$
-  0.5 - 2.1
-  2.1 - 3.6
-  3.6 - 5.7
-  5.7 - 8.8
-  8.8 - 11.1



Google Earth

Image © 2019 DigitalGlobe  
© 2018 Google

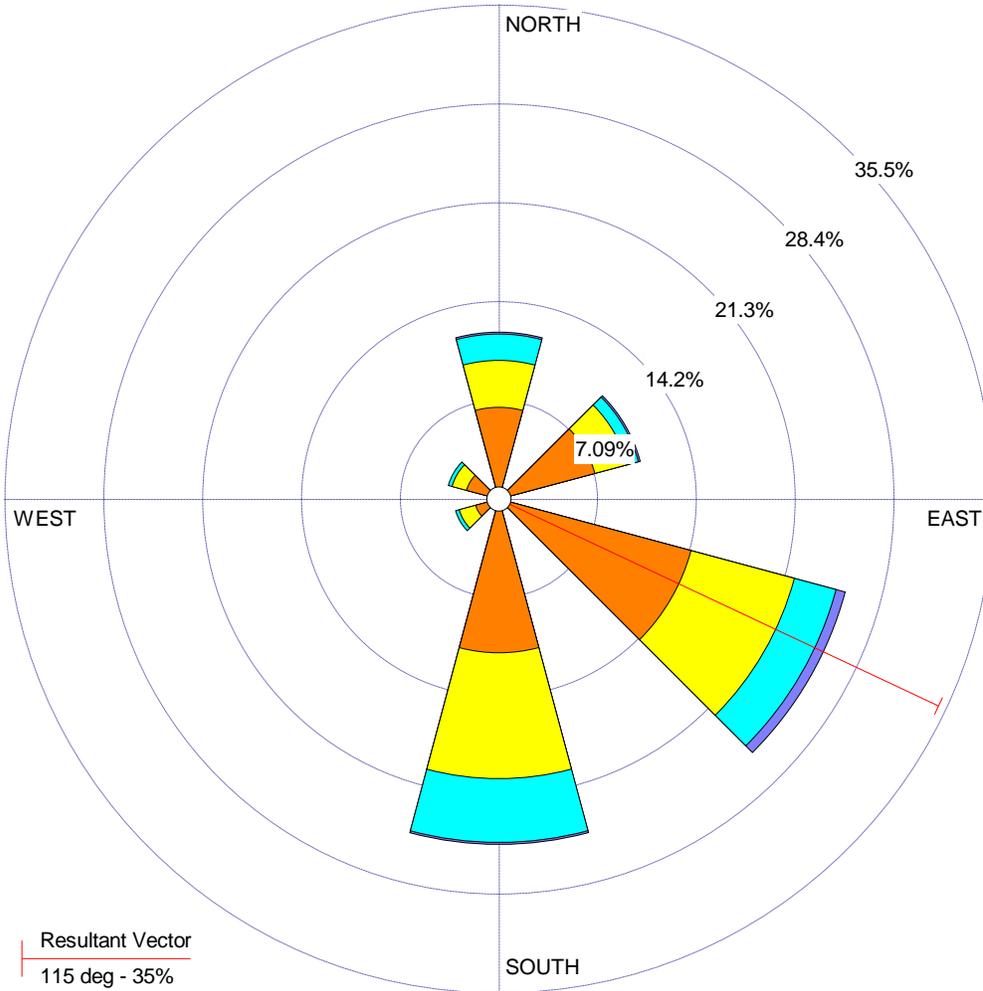
2 km

WIND ROSE PLOT:

**WIND ROSE**

DISPLAY:

**Wind Speed  
Flow Vector (blowing to)**



WIND SPEED (m/s)

- >= 11.10
- 8.80 - 11.10
- 5.70 - 8.80
- 3.60 - 5.70
- 2.10 - 3.60
- 0.50 - 2.10

Calms: 20.16%

COMMENTS:

DATA PERIOD:

**Start Date: 01/03/2019 - 00:00  
End Date: 31/03/2019 - 23:00**

COMPANY NAME:

**M/s. Dahej Sez Limited**

MODELER:

**UNISTAR ENVIRONMENT  
AND RESEARCH LABS**

CALM WINDS:

**20.16%**

TOTAL COUNT:

**744 hrs.**

AVG. WIND SPEED:

**1.75 m/s**

DATE:

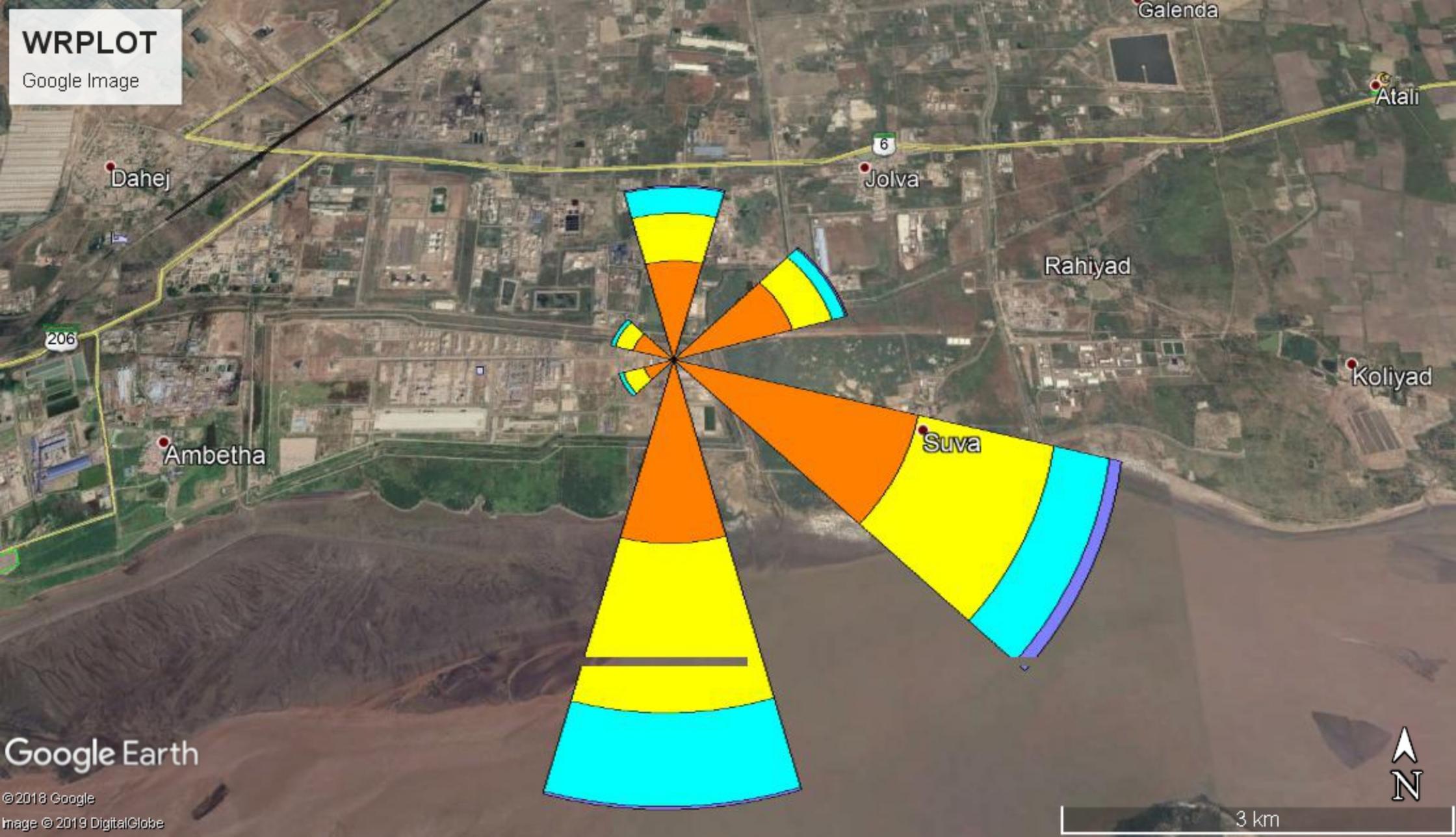
**05/04/2019**

PROJECT NO.:

**March-2019**

# WRPLOT

Google Image



Google Earth

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3 km

**Meteorological Monitoring Data**  
**For M/s. Dahej SEZ Ltd. (SEZ Developer)**  
**By – UniStar Environment and Research Labs Pvt. Ltd.**

Location : SEZ-1 Area (Lat. 21.6947° N, Long. 72.6347° E)			Period : October - 2018 to March - 2019			Instrument - Sr.No. 18410021		
Year	Month	Max / Min	Temp. [C]	Relative Humidity [%]	Pressure [mb]	Wind Direction [degrees]	Wind Speed [m/s]	Rain (mm)
2018	October	Max	35.5	97.0	1023.2	359	7.8	0.0
		Min	20.7	22.0	1010.0		0.0	0.0
2018	November	Max	36.8	92.0	1035.1	359	20.5	0.0
		Min	16.9	0.0	1019.6		0.0	0.0
2018	December	Max	31.7	89.0	1037.5	359	33.5	0.0
		Min	10.3	19.0	1025.9		0.0	0.0
2019	January	Max	33.6	91.0	1040.3	359	29.2	0.0
		Min	11.7	18.0	1026.3		0.0	0.0
2019	February	Max	36.1	94.4	1017.2	360	21.6	0.0
		Min	15.1	16.0	20.2		0.0	0.0
2019	March	Max	41.0	91.0	1034.5	359	26.6	0.0
		Min	12.3	17.0	1022.7		0.0	0.0
Max.			41.0	97.0	1040		33.5	0.0
Min.			10.3	0.0	20		0.0	0.0



**Jaivik Tandel**  
**(Rec. Analyst)**

# 2.0 AMBIENT AIR QUALITY MONITORING REPORT



Period: October-2018 to March-2019

FOR



Dahej SEZ Ltd.

**M/s. Dahej SEZ Ltd. (SEZ Developer)**

**Dahej SEZ Part - I  
At & Post: Dahej, Taluka - Vagra,  
Dist. Bharuch - 392 140, Gujarat**

**Monitoring Organization**



White House,  
Near G.I.D.C. Office, Char Rasta,  
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Consultant Organization

GPCB Recognized Environmental  
Auditor (Schedule-II)

OHSAS18001:2007  
Certified Company

ISO 9001:2015  
Certified Company

**Ambient Air Quality Monitoring Data**  
**For M/s. Dahej SEZ Ltd. (SEZ Developer)**  
 By – UniStar Environment and Research Labs Pvt. Ltd.

Location : AAQM-1 (SEZ -1 , At Fire Station) (Lat. 21. 4121 N, Long. 72.3672 E)			Period : October-2018 to March - 2019			Instrument - RDS APM 460 BL (Sr.No. 2905-DTJ-2015) & FPS APM 550 MINI (Sr.No. 346-DTF-2015)		
Year	Month	Max. / Min.	Parameter with Results					
			PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO mg/m <sup>3</sup>	VOC * ppm
2018	October	Max.	88	31	22	26	BDL	N.D.
		Min.	71	21	11	16	BDL	N.D.
2018	November	Max.	106	32	22	26	BDL	N.D.
		Min.	71	21	14	16	BDL	N.D.
2018	December	Max.	114	36	27	31	BDL	N.D.
		Min.	86	24	14	18	BDL	N.D.
2019	January	Max.	106	36	26	31	BDL	N.D.
		Min.	90	22	16	20	BDL	N.D.
2019	February	Max.	105	35	27	33	BDL	N.D.
		Min.	85	26	14	21	BDL	N.D.
2019	March	Max.	110	35	25	32	BDL	N.D.
		Min.	80	26	15	23	BDL	N.D.
<b>Max.</b>			<b>114</b>	<b>36</b>	<b>27.0</b>	<b>33.0</b>	<b>BDL</b>	<b>BDL</b>
<b>Min.</b>			<b>71</b>	<b>21</b>	<b>11.0</b>	<b>16.0</b>	<b>BDL</b>	<b>BDL</b>
<b>Specific Value as per NAAQMS/ GPCB/CTE</b>			<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>200</b>	<b>100</b>

**NOTE:** 1). Ambient Air Monitoring carried out for 24 hours time period , 2). NAAQMS: National Ambient Air Quality Monitoring Standard. 3). N.D. = Not Detected. 4) "The parameters marked \* are not accredited by NABL"



**Jaivik Tandel**  
**(Rec. Analyst)**

**Ambient Air Quality Monitoring Data**  
**For M/s. Dahej SEZ Ltd. (SEZ Developer)**  
**By – UniStar Environment and Research Labs Pvt. Ltd.**

Location : AAQM-2 (SEZ-1 Admin Building) (Lat. 21.69470 , Long. 72.63470)			Period : October-2018 to March - 2019			Instrument - RDS APM 460 BL (Sr.No. 2905-DTJ-2015) & FPS APM 550 MINI (Sr.No. 346-DTF-2015)		
Year	Month	Max. / Min.	Parameter with Results					
			PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO mg/m <sup>3</sup>	VOC * ppm
2018	October	Max.	112	36	24	26	BDL	N.D.
		Min.	81	24	15	18	BDL	N.D.
2018	November	Max.	114	36	24	27	BDL	N.D.
		Min.	84	21	14	16	BDL	N.D.
2018	December	Max.	110	34	26	31	BDL	N.D.
		Min.	84	22	16	18	BDL	N.D.
2019	January	Max.	110	38	28	36	BDL	N.D.
		Min.	94	30	18	20	BDL	N.D.
2019	February	Max.	105	36	30	34	BDL	N.D.
		Min.	88	27	19	25	BDL	N.D.
2019	March	Max.	108	35	28	32	BDL	N.D.
		Min.	90	28	20	25	BDL	N.D.
<b>Max.</b>			<b>114</b>	<b>38</b>	<b>30.0</b>	<b>36.0</b>	<b>BDL</b>	<b>BDL</b>
<b>Min.</b>			<b>81</b>	<b>21</b>	<b>14.0</b>	<b>16.0</b>	<b>BDL</b>	<b>BDL</b>
<b>Specific Value as per NAAQMS/ GPCB/CTE</b>			<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>200</b>	<b>100</b>

**NOTE:** 1). Ambient Air Monitoring carried out for 24 hours time period , 2). NAAQMS: National Ambient Air Quality Monitoring Standard. 3). N.D. = Not Detected. 4)  
 "The parameters marked \* are not accredited by NABL"



**Jaivik Tandel**  
**(Rec. Analyst)**

**Ambient Air Quality Monitoring Data**  
**For M/s. Dahej SEZ Ltd. (SEZ Developer)**  
**By – UniStar Environment and Research Labs Pvt. Ltd.**

Location : AAQM-3 (SEZ – II, Main Gate) (Lat. 21. 4121 N, Long. 72.3325 E)		Period : October-2018 to March - 2019			Instrument - RDS APM 460 BL (Sr.No. 2343-DTB-2012) & FPS APM 550 MINI (Sr.No. 271-DTE-2010)			
Year	Month	Max. / Min.	Parameter with Results					
			PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO mg/m <sup>3</sup>	VOC * ppm
2018	October	Max.	114	36	26	31	BDL	N.D.
		Min.	86	21	14	18	BDL	N.D.
2018	November	Max.	112	34	24	26	BDL	N.D.
		Min.	84	26	14	18	BDL	N.D.
2018	December	Max.	114	33	26	31	BDL	N.D.
		Min.	84	22	14	16	BDL	N.D.
2019	January	Max.	116	37	25	29	BDL	N.D.
		Min.	84	26	12	17	BDL	N.D.
2019	February	Max.	114	38	28	35	BDL	N.D.
		Min.	95	30	18	23	BDL	N.D.
2019	March	Max.	110	36	28	33	BDL	N.D.
		Min.	74	22	11	18	BDL	N.D.
<b>Max.</b>			<b>116</b>	<b>38</b>	<b>28.0</b>	<b>35.0</b>	<b>BDL</b>	<b>BDL</b>
<b>Min.</b>			<b>74</b>	<b>21</b>	<b>11.0</b>	<b>16.0</b>	<b>BDL</b>	<b>BDL</b>
<b>Specific Value as per NAAQMS/ GPCB/CTE</b>			<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>200</b>	<b>100</b>

**NOTE:** 1). Ambient Air Monitoring carried out for 24 hours time period , 2). NAAQMS: National Ambient Air Quality Monitoring Standard. 3). N.D. = Not Detected. 4) "The parameters marked \* are not accredited by NABL"

  
**Jaivik Tandel**  
**(Rec. Analyst)**

# 3.0 NOISE LEVEL MONITORING REPORT



**Period: October-2018 to March-2019**

**FOR**



**Dahej SEZ Ltd.**

**M/s. Dahej SEZ Ltd. (SEZ Developer)**

**Dahej SEZ Part - I  
At & Post: Dahej, Taluka - Vagra,  
Dist. Bharuch - 392 140, Gujarat**

**Monitoring Organization**



White House,  
Near G.I.D.C. Office, Char Rasta,  
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Consultant Organization

GPCB Recognized Environmental  
Auditor (Schedule-II)

OHSAS18001:2007  
Certified Company

ISO 9001:2015  
Certified Company

**Ambient Noise Monitoring Data**  
**For M/s. Dahej SEZ Ltd. (SEZ Developer)**  
**By – UniStar Environment and Research Labs Pvt. Ltd.**

**Period : October-2018 to March - 2019**

**Instrument-LUTRON**

Year	Month	Max. / Min.	Parameter with Results dB (LEQ)			
			Location-NM-1 (SEZ-1 Admin Building)	Location-NM-2 (SEZ - I, At Fire Station)	Location-NM-3 (SEZ – II,Pumping Station-D)	Location-NM-4 (SEZ – I,GIDC Pump House-C)
2018	October	Max.	77	74	76	77
		Min.	42	44	42	51
2018	November	Max.	77	74	73	77
		Min.	42	41	42	48
2018	December	Max.	76	77	74	74
		Min.	44	44	46	46
2019	January	Max.	72	74	72	74
		Min.	48	48	44	47
2019	February	Max.	72	73	72	73
		Min.	48	50	49	52
2019	March	Max.	77	77	72	77
		Min.	44	43	44	56
<b>Permissible Limit Day Time</b>			<b>&lt;75 (6:00 am to 10:00 pm)</b>			
<b>Permissible Limit Night Time</b>			<b>&lt;70 (10:00 pm to 6:00 am)</b>			



**Jaivik Tandel**  
**(Rec. Analyst)**

# 4.0 WATER QUALITY MONITORING REPORT



**Period: October-2018 to March-2019**

**FOR**



**Dahej SEZ Ltd.**

**M/s. Dahej SEZ Ltd. (SEZ Developer)**

**Dahej SEZ Part - I  
At & Post: Dahej, Taluka - Vagra,  
Dist. Bharuch - 392 140, Gujarat**

**Monitoring Organization**



White House,  
Near G.I.D.C. Office, Char Rasta,  
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Certified Company

ISO 9001:2015  
Certified Company

**Ground Water Quality Monitoring Data**  
**For M/s. Dahej SEZ Ltd. (SEZ Developer)**  
**By – UniStar Environment and Research Labs Pvt. Ltd.**

Ground water Sample		Month	Oct-18			Nov-18			Dec-18		
		Date of sampling	22/10/2018	22/10/2018	22/10/2018	14/11/2018	27/11/2018	23/05/2018	17/12/2018	20/12/2018	20/12/2018
Location			Ambheta	Dahej	Luwara	Dahej	Suva	Luwara	Suva	Ambheta	Dahej
Sr. No.	Test Parameters	Unit	Result								
1	pH @ 25 ° C	Unit	7.84	8.02	7.65	8.30	8.12	8.60	8.25	7.73	7.91
2	Colour	Hazen	10	80	10	10	10	60	10	10	10
3	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
5	Turbidity(NTU)	NTU	1	10	1	1	0.1	1	0.1	10	5
6	Temperature	°C	30	32	30	31	32	31	30	30	30
7	Total Dissolved	mg/lit.	3710	1500	4425	3650	548	4620	188	3665	985
8	Total Alkalinity	mg/lit.	1071	399	945	1097.2	149.2	970.6	135.1	1223.8	379.8
9	Chloride (as Cl) <sup>-</sup>	mg/lit.	635.9	591.3	2935.2	670.1	19.2	1576.8	39.7	942.9	268
10	Sulphate (as SO <sub>4</sub> <sup>-2</sup> )	mg/lit.	138.1	126.4	760.6	195.4	12.0	572.7	11.3	237	86.5
11	Nitrate (as NO <sub>3</sub> )	mg/lit.	48.5	4.2	46.0	46.5	0.7	49.5	0.9	2.5	3.9
12	Calcium (as Ca)	mg/lit.	28.0	32.0	12.0	28.0	26.7	28.0	27.2	131.5	67.3
13	Magnesium (as	mg/lit.	70.4	43.7	55.8	68.0	11.6	43.7	18.5	15.5	6.8
14	Fluoride (as F)	mg/lit.	1.07	0.78	1.24	0.97	0.55	2.7	0.61	1.05	0.73
15	Iron (as Fe)	mg/lit.	0.135	0.104	0.121	0.122	N.D	0.163	N.D	N.D.	N.D
16	Zinc (as Zn)	mg/lit.	0.091	0.062	0.097	0.080	N.D	0.114	N.D	0.103	0.069
17	Phenolic	mg/lit.	N.D								
18	Residual Chlorine	mg/lit.	N.D								

**Note:** N.D. = Not Detected, MDL = Minimum Detection Limit



**Jaivik Tandel**  
**(Rec. Analyst)**

**Ground Water Quality Monitoring Data**  
**For M/s. Dahej SEZ Ltd. (SEZ Developer)**  
**By – UniStar Environment and Research Labs Pvt. Ltd.**

Ground water Sample	Month	Jan-19			Feb-19			Mar-19			
	Date of sampling	24/01/2019	28/01/2019	28/01/2019	08/02/2019	08/02/2019	08/02/2019	08/03/2019	08/03/2019	08/03/2019	
Location		Village Suva	Luwara	Lakhigam	Ambheta	Dahej	Luwara	Ambheta	Dahej	Village Suva	
Sr. No.	Test Parameters	Unit	Result								
1	pH @ 25 ° C	Unit	6.94	7.77	7.84	8.45	8.26	8.10	7.41	7.11	7.02
2	Colour	Hazen	10	10	10	10	10	10	10	10	10
3	Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
5	Turbidity(NTU)	NTU	N.D	N.D	N.D	0.1	1	0.1	N.D	1	N.D
6	Temperature	°C	32	31	31	30	30	30	32	31	32
7	Total Dissolved	mg/lit.	4310	5315	5405	2240	2340	5210	308	1905	4505
8	Total Alkalinity	mg/lit.	1035.0	931.5	939.7	898.3	492.0	939.7	174.2	512.5	984
9	Chloride (as Cl) <sup>-</sup>	mg/lit.	1524.5	2199.3	2249.3	459.4	802.3	1225.1	88.6	689.9	1527.5
10	Sulphate (as SO <sub>4</sub> <sup>-2</sup> )	mg/lit.	117.0	679.5	734.0	149.6	167.5	396.6	5.4	78.9	377.5
11	Nitrate (as NO <sub>3</sub> )	mg/lit.	43.5	43.5	44	36.0	3.3	44.0	0.2	8.8	49.5
12	Calcium (as Ca)	mg/lit.	188.3	20.8	22.4	30.4	40.0	25.6	24.0	64.1	184.3
13	Magnesium (as	mg/lit.	194.4	60.2	58.3	52.4	38.8	63.1	21.8	36.4	216.2
14	Fluoride (as F)	mg/lit.	0.60	1.33	1.33	0.71	0.66	1.25	0.23	0.74	0.38
15	Iron (as Fe)	mg/lit.	N.D	N.D							
16	Zinc (as Zn)	mg/lit.	0.083	0.056	0.086	0.067	0.056	0.114	N.D	N.D	0.103
17	Phenolic	mg/lit.	N.D	N.D							
18	Residual Chlorine	mg/lit.	N.D	N.D							

**Note:** N.D. = Not Detected, MDL = Minimum Detection Limit



**Jaivik Tandel**  
**(Rec. Analyst)**

**Surface Water Quality Monitoring Data**  
**For M/s. Dahej SEZ Ltd. (SEZ Developer)**  
 By – UniStar Environment and Research Labs Pvt. Ltd.

Surface water Sample		Month	Oct-18			Nov-18			Dec-18		
		Date of sampling	11/10/2018	24/10/2018	30/10/2018	27/11/2018	27/11/2018	28/11/2018	17/12/2018	25/12/2018	27/06/2018
Location			Near Yashashvi	Near of Aries Colour	Near of M/s. DIC	Near M/s. Shiva Pharma	Near SEZ Fire Station	Near M/s. Milan Lab	Near SEZ – I Road No. 1	Near SEZ – I Road No. 5 Wall	Near M/s. Aries Colour
Sr. No.	Test Parameters	Unit	Result								
1	pH @ 25 ° C	Unit	8.36	7.89	7.68	6.55	7.59	7.18	7.74	7.67	7.19
2	Colour	Hazen Unit(APHA)	80	200	80	60	60	80	80	300	100
3	Taste	Agreeable	Non -Agreeable	Non -Agreeable	Agreeable	Non-Agreeable	Non -Agreeable	Non -Agreeable	Non -Agreeable	Non -Agreeable	Non -Agreeable
4	Odour	Agreeable	Non -Agreeable	Non -Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Non -Agreeable	Non -Agreeable
5	Turbidity(NTU)	NTU	50	0.1	10	10	0.1	5	0.1	1	50
6	Temperature	°C	33	30	32	30	30	30	31	31	31
7	Total Dissolved	mg/lit.	4190	11050	770	4650	6425	6685	249	2755	3065
8	Total Alkalinity	mg/lit.	1102.5	987	241.5	274.3	464.2	295.4	147.7	299.6	341.8
9	Chloride (as Cl) <sup>-</sup>	mg/lit.	919.7	5518.8	197.1	2956.3	788.4	2069.4	49.6	774.2	1836.3
10	Sulphate (as SO <sub>4</sub> <sup>-2</sup> )	mg/lit.	833	113.2	72.3	304.9	157.9	1087	22.2	467	233
11	Nitrate (as NO <sub>3</sub> )	mg/lit.	1.1	15.6	1.8	2.4	2.7	3.2	0.4	2.8	3.6
12	Calcium (as Ca)	mg/lit.	84.1	28.0	24.0	633.2	88.1	56.1	28.8	72.1	17.6
13	Magnesium (as	mg/lit.	111.7	53.4	19.4	63.1	34.0	199.2	15.5	27.2	39.8
14	Fluoride (as F)	mg/lit.	1.26	65.0	1.32	1.28	1.08	0.95	0.52	0.98	3.9
15	Iron (as Fe)	mg/lit.	0.223	0.365	0.103	0.186	0.153	0.227	0.114	0.144	0.177
16	Zinc (as Zn)	mg/lit.	0.112	0.127	0.086	0.085	0.078	0.109	0.065	0.102	0.056
17	Phenolic	mg/lit.	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
18	Residual Chlorine	mg/lit.	N.D	N.D	N.D	10.6	N.D	N.D	N.D	N.D	N.D

**Note:** N.D. = Not Detected, MDL = Minimum Detection Limit



**Jaivik Tandel**  
**(Rec. Analyst)**

**Surface Water Quality Monitoring Data**  
**For M/s. Dahej SEZ Ltd. (SEZ Developer)**  
**By – UniStar Environment and Research Labs Pvt. Ltd.**

Surface water Sample		Month	Jan-19			Feb-19			Mar-19		
		Date of sampling	12/01/2019	12/01/2019	31/01/2019	18/02/2019	28/02/2019	28/02/2019	05/03/2019	29/03/2019	30/03/2019
Location			Near M/s. Meghmani	Near M/s. Indofil	Near M/s. ARIES COLOR	Near M/s. Shiva Pharma	Near M/s. Ramdev	Near Fire Station	Near GIDC Pump C	Opposite Site of M/s. APPL	Near M/s. Meghmani
Sr. No.	Test Parameters	Unit	Result								
1	pH @ 25 ° C	Unit	7.47	7.31	7.86	7.62	6.98	7.17	7.81	8.02	8.44
2	Colour	Hazen	>500	>500	150	>500	150	100	250	300	200
3	Taste	Agreeable	Non -Agreeable	Non -Agreeable	Non -Agreeable	Non -Agreeable	Non -Agreeable	Non -Agreeable	Non -Agreeable	Non -Agreeable	Non -Agreeable
4	Odour	Agreeable	Non -Agreeable	Non -Agreeable	Non -Agreeable	Non -Agreeable	Non -Agreeable	Non -Agreeable	Non -Agreeable	Non -Agreeable	Non -Agreeable
5	Turbidity(NTU)	NTU	1	10	>100	1	50	10	10	50	1
6	Temperature	°C	33	32	31	31	30	31	32	33	32
7	Total Dissolved	mg/lit.	797	770	4790	3340	9910	6120	1705	5575	4915
8	Total Alkalinity	mg/lit.	489.5	88.6	828.0	358.7	1025	461.3	287	751.4	355.8
9	Chloride (as Cl) <sup>-</sup>	mg/lit.	154.2	205.6	1899.4	831.6	5381.3	244.6	635.5	1719.6	2010.4
10	Sulphate (as SO <sub>4</sub> <sup>-2</sup> )	mg/lit.	70.7	53.9	1348	1181.6	385.5	282.0	683.8	2840	1520.5
11	Nitrate (as NO <sub>3</sub> )	mg/lit.	5.2	6.6	4.8	2.2	9.7	2.2	1.4	2.4	1.2
12	Calcium (as Ca)	mg/lit.	40.1	38.5	200.4	136.2	10	100.2	76.1	164.3	240.4
13	Magnesium (as	mg/lit.	23.3	27.2	121.5	53.4	105.7	75.3	38.8	55.9	24.3
14	Fluoride (as F)	mg/lit.	0.69	0.85	0.85	0.88	22.8	2.45	0.95	1.31	1.09
15	Iron (as Fe)	mg/lit.	0.178	0.103	0.425	0.123	0.236	0.123	0.108	0.137	0.104
16	Zinc (as Zn)	mg/lit.	0.089	0.067	0.103	0.087	0.117	0.087	0.065	0.104	0.056
17	Phenolic	mg/lit.	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
18	Residual Chlorine	mg/lit.	N.D	N.D	N.D	N.D	0.50	0.20	N.D	N.D	N.D

**Note:** N.D. = Not Detected, MDL = Minimum Detection Limit



**Jaivik Tandel**  
**(Rec. Analyst)**

**Marine Water Quality Monitoring Data**  
**For M/s. Dahej SEZ Ltd. (SEZ Developer)**  
 By – UniStar Environment and Research Labs Pvt. Ltd.

Marine water Sample		Month	October-18		November-18		December-18		January-19	
		Date of sampling	29/10/2018	22/10/2018	24/11/2018	15/11/2018	21/12/2018	26/12/2018	19/01/2019	31/01/2019
Location			High Tide	Low Tide	High Tide	Low Tide	High Tide	Low Tide	High Tide	Low Tide
Sr. No.	Test Parameters	Unit	Result							
1	pH @ 25 ° C	--	7.65	7.23	7.77	7.52	8.08	7.71	7.93	8.31
2	Temperature ( OC )	OC	33	32	31	31	30	30	30	31
3	Turbidity (NTU)	NTU	50	50	10	50	10	10	50	50
4	Total Suspended Solids	mg/lit.	980	950	250	500	110	120	425	230
5	BOD	mg/lit.	12	34	31	14	71	4	42	46
6	Ammonical Nitrogen	mg/lit.	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
7	Salinity (ppt)	mg/lit.	26.7	24.9	19.0	34.4	32.2	23.3	35.7	22.5
8	Dissolved Oxygen	mg/lit.	5.2	5.1	5.3	5.4	5.5	5.4	4.8	3.9
9	Total Nitrogen	mg/lit.	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
10	Dissolved Phosphate	mg/lit.	0.84	0.82	0.81	0.74	0.74	0.65	0.60	0.66
11	Nitrate	mg/lit.	4.6	4.4	0.6	1.2	1.6	0.9	3.9	4.3
12	Nitrite	mg/lit.	N.D	N.D	0.24	0.17	N.D	N.D	N.D	N.D
13	Phenol	mg/lit.	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D
14	PHC	mg/lit.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

**Note:** N.D. = Not Detected, MDL = Minimum Detection Limit

  
**Jaivik Tandel**  
 (Rec. Analyst)

**Marine Water Quality Monitoring Data**  
**For M/s. Dahej SEZ Ltd. (SEZ Developer)**  
**By – UniStar Environment and Research Labs Pvt. Ltd.**

Marine water Sample		Month	February-19		March-19	
		Date of sampling	14/02/2019	08/02/2019	06/03/2019	25/03/2019
Location			High tide	Low tide	High tide	Low tide
Sr. No.	Test Parameters	Unit	Result			
1	pH @ 25 ° C	--	7.92	7.93	8.06	7.82
2	Temperature ( 0C )	0C	29	28	30	30
3	Turbidity (NTU)	NTU	>100	>100	>100	>100
4	Total Suspended Solids	mg/lit.	1055	445	1005	2070
5	BOD	mg/lit.	44	82	14	110
6	Ammonical Nitrogen	mg/lit.	N.D	N.D	N.D	N.D
7	Salinity (ppt)	mg/lit.	30.4	38.8	40.1	34.3
8	Dissolved Oxygen	mg/lit.	4.9	4.5	4.6	4.8
9	Total Nitrogen	mg/lit.	N.D	N.D	N.D	N.D
10	Dissolved Phosphate	mg/lit.	0.56	0.70	0.28	0.12
11	Nitrate	mg/lit.	2.5	1.8	5.5	1.8
12	Nitrite	mg/lit.	N.D	0.12	N.D	N.D
13	Phenol	mg/lit.	N.D	N.D	N.D	N.D
14	PHC	mg/lit.	N.D.	N.D.	N.D.	N.D.

**Note:** N.D. = Not Detected, MDL = Minimum Detection Limit



**Jaivik Tandel**  
**(Rec.Analyst)**

**Waste Water Quality Monitoring Data**  
**For M/s. Dahej SEZ Ltd. (SEZ Developer)**  
**By – UniStar Environment and Research Labs Pvt. Ltd.**

Waste water Sample	Month	October -2018										
	Date of sampling	11/10/18	11/10/18	11/10/18	11/10/18	11/10/18	11/10/18	11/10/18	27/10/18	27/10/18	27/10/18	27/10/18
Location		Tatva Chintan Pharma	Thermax Limited	Yashashvi Rasayan	Torrent Pharma	Hindustan Miswaco	GIDC Pump Station-D	Meghmani Unichem LLP	Aries Color	Sun Pharmaceu-Tical	Pumping Station-C	
Sr. No.	Test Parameters	Unit	Result									
1	pH @ 25 ° C	Unit	7.45	7.48	7.22	7.48	7.68	8.14	7.54	7.14	7.61	6.98
2	Total Dissolved Solids	mg/lit.	3985	7150	2200	1615	895	2290	3345	33190	5205	24540
3	Total Suspended Solids	mg/lit.	100	98	25	15	45	105	460	415	55	435
4	Chemical Oxygen Demand (COD)	mg/lit.	96.6	193.2	175.6	83.4	20.8	183.7	403.9	204.0	102.0	1439
5	Biochemical Oxygen Demand	mg/lit.	28	58	52	22	5	56	120	62	32	414
6	Oil & Grease	mg/lit.	<1	<1	<1	<1	<1	<1	5.0	3.0	<1	<1
7	Chloride (as Cl)	mg/lit.	1878.5	2299.2	352.2	518.5	489.2	538.1	985.5	7933.3	1773.9	4517
8	Sulphate (as SO <sub>4</sub> )	mg/lit.	158.4	2989.0	191.0	138.0	67.1	833.5	221.4	7698.0	883.0	723
9	Nitrate (as NO <sub>3</sub> )	mg/lit.	14.6	1.3	2.3	81.0	1.4	8.0	31.5	237.5	46.5	46.5
10	Dissolved Oxygen	mg/lit.	3.4	3.6	3.1	4.1	4.3	3.2	2.9	3.9	3.5	1.5

**Note:** N.D. = Not Detected, MDL = Minimum Detection Limit

  
**Jaivik Tandel**  
**(Rec.Analyst)**

**Waste Water Quality Monitoring Data**  
**For M/s. Dahej SEZ Ltd. (SEZ Developer)**  
**By – UniStar Environment and Research Labs Pvt. Ltd.**

Waste water Sample	Month	November -2018										
	Date of sampling	14/11/18	15/11/18	16/11/18	17/11/18	19/11/18	20/11/18	23/11/18	24/11/18	27/11/18	28/11/18	
Location		ONGC Petro Additions	Ramdev Chemical	Coromandel International	GIDC Pump Station-D	GIDC Pump Station-C	Sigachi Industries	Indofil Industries	Fermenta Biotech Ltd.	Glenmark Pharmaceutic	Torrent Pharma Ltd	
Sr. No.	Test Parameters	Unit	Result									
1	pH @ 25 ° C	Unit	7.42	7.55	6.94	7.01	7.20	7.20	8.01	7.32	7.21	7.25
2	Total Dissolved Solids	mg/lit.	3490	5315	1965	2130	33565	3385	19455	770	380	1790
3	Total Suspended Solids	mg/lit.	20	75	25	110	630	920	90	115	<4	60
4	Chemical Oxygen Demand (COD)	mg/lit.	46.8	89.3	12.7	171.6	2146.0	6.8	12.9	133.6	6.2	84.2
5	Biochemical Oxygen Demand	mg/lit.	12	26	3	54	712	<1	2	42	<1	24
6	Oil & Grease	mg/lit.	<1	<1	<1	<1	12.0	<1	<1	<1	<1	<1
7	Chloride (as Cl)	mg/lit.	817.9	2030.1	167.5	689.8	5617.4	295.6	266.0	133.0	19.7	246.2
8	Sulphate (as SO <sub>4</sub> )	mg/lit.	865.0	715.0	987.0	505.5	6530	35.6	5144	150.2	8.9	98.5
9	Nitrate (as NO <sub>3</sub> )	mg/lit.	4.1	10.4	40	3.0	46.3	0.6	2.1	0.3	1.8	2.0
10	Dissolved Oxygen	mg/lit.	3.2	2.9	3.2	2.6	1.4	3.5	2.9	3.3	3.4	3.1

**Note:** N.D. = Not Detected, MDL = Minimum Detection Limit

  
**Jaivik Tandel**  
**(Rec.Analyst)**

**Waste Water Quality Monitoring Data**  
**For M/s. Dahej SEZ Ltd. (SEZ Developer)**  
**By – UniStar Environment and Research Labs Pvt. Ltd.**

Waste water Sample		Month	DECEMBER-2018									
		Date of sampling	04/12/18	07/12/18	10/12/18	12/12/18	13/12/18	28/05/18	17/12/18	25/12/18	25/12/18	26/12/18
Location		Roxul-Rockwool Insulation	GIDC Pump Station-D	Accent Microcell Pvt.Ltd.	Rallis India Ltd.	Shiva Pharmache m Pvt. Ltd.	GIDC Pump Station-C	GIDC Pump Station - C	Meghmani Unichem Llp	Raks Pharma Pvt. Ltd.	Yashashvi Rasayan	
Sr. No.	Test Parameters	Unit	Result									
1	pH @ 25 ° C	Unit	7.35	6.90	7.76	6.85	7.17	7.05	6.54	6.54	6.17	7.07
2	Total Dissolved Solids	mg/lit.	815	2640	3440	112	4090	10395	3120	3120	2260	1640
3	Total Suspended Solids	mg/lit.	90	200	70	<4	45	85	35	35	10	10
4	Chemical Oxygen Demand (COD)	mg/lit.	51.3	617.2	89.0	63.4	244.6	980.8	2837.2	128.1	158.0	242.8
5	Biochemical Oxygen Demand	mg/lit.	16	206	28	18	82	324	990	39	54	78
6	Oil & Grease	mg/lit.	<2	6.0	<2	<2	5.0	10.0	110	4.0	<2	4.0
7	Chloride (as Cl)	mg/lit.	238.2	545.9	1290.3	29.7	2084.4	5409.6	7284.9	1290.3	456.5	524.3
8	Sulphate (as SO <sub>4</sub> )	mg/lit.	72.9	982.2	83.3	1.7	686.2	1994.0	652	152.7	208.7	145.6
9	Nitrate (as NO <sub>3</sub> )	mg/lit.	3.0	1.0	2.1	0.1	23.0	15.4	N.D	4.0	13.2	2.2
10	Dissolved Oxygen	mg/lit.	3.1	2.5	3.7	2.1	2.7	1.6	3.4	3.9	2.7	2.9

**Note:** N.D. = Not Detected, MDL = Minimum Detection Limit

  
**Jaivik Tandel**  
**(Rec.Analyst)**

**Waste Water Quality Monitoring Data**  
**For M/s. Dahej SEZ Ltd. (SEZ Developer)**  
**By – UniStar Environment and Research Labs Pvt. Ltd.**

Waste water Sample		Month	January -2019									
		Date of sampling	01/01/19	05/01/19	09/01/19	12/01/19	17/01/19	19/01/19	22/01/19	25/01/19	29/01/19	31/01/19
Location		Glenmark Pharmaceut	Meghmani Organics	Fermenta Biotech Ltd.	Indofil Industries	GIDC Pump Station-C	Tatva Chintan	Aries Color Chem Pvt.	GIDC Pump Station-D	Torrent Pharmaceutic	Meghmani Industries	
Sr. No.	Test Parameters	Unit	Result									
1	pH @ 25 ° C	Unit	7.63	6.42	7.27	7.16	7.34	7.86	9.75	6.62	6.93	7.88
2	Total Dissolved Solids	mg/lit.	985	10590	2065	101230	16130	3680	18730	6725	2220	1050
3	Total Suspended Solids	mg/lit.	45	5	140	100	80	5	55	45	35	35
4	Chemical Oxygen Demand (COD)	mg/lit.	134.9	109.3	430.7	96.5	1279.2	223.0	65.9	421.4	90.9	103.6
5	Biochemical Oxygen Demand	mg/lit.	40	32	146	28	436	66	20	144	28	31
6	Oil & Grease	mg/lit.	<2	<2	4.0	<2	9.0	<2	<2	5.0	<2	<2
7	Chloride (as Cl)	mg/lit.	359.8	1490.6	245.7	3289.6	5757.0	1953.2	7915.9	1999.3	949.7	409.8
8	Sulphate (as SO <sub>4</sub> )	mg/lit.	34.5	6974.0	543.2	78180	312.8	2977.0	13005.0	2272.0	58.0	149.5
9	Nitrate (as NO <sub>3</sub> )	mg/lit.	2.7	3.2	2.3	6.9	18.0	6.4	147.5	3.0	36.0	3.0
10	Dissolved Oxygen	mg/lit.	0.1	0.3	4.6	2.5	0.5	3.3	3.6	2.1	3.5	2.9

**Note:** N.D. = Not Detected, MDL = Minimum Detection Limit

  
**Jaivik Tandel**  
**(Rec.Analyst)**

**Waste Water Quality Monitoring Data**  
**For M/s. Dahej SEZ Ltd. (SEZ Developer)**  
 By – UniStar Environment and Research Labs Pvt. Ltd.

Waste water Sample		Month	February -2019									
		Date of sampling	07/02/19	09/02/19	12/02/19	13/02/19	19/02/19	20/02/19	21/02/19	22/02/19	28/02/19	26/02/19
Location		GIDC Pump Station-D	Yashashvi Rasayan	GIDC Pump Station-C	Hindustan M-I Swaco	Sun Pharmaceut	Rallis India Ltd.	Sigachi Industries	Thermax Limited	Firmenich Aromatics	Roxul-Rockwool	
Sr. No.	Test Parameters	Unit	Result									
1	pH @ 25 ° C	Unit	7.20	7.75	7.40	8.66	8.09	2.17	7.50	7.88	7.81	8.57
2	Total Dissolved Solids	mg/lit.	2100	425	14875	1580	4695	4875	6214	570	6290	485
3	Total Suspended Solids	mg/lit.	45	5	55	5	15	10	45	5	65	5
4	Chemical Oxygen Demand (COD)	mg/lit.	322.6	555.4	906.6	57.2	106.2	393.2	167.5	24.0	82.7	4.0
5	Biochemical Oxygen Demand	mg/lit.	104	180	298	18	32	128	52	6	24	<1
6	Oil & Grease	mg/lit.	4.0	6.0	8.0	<2	<2	4.0	<2	<2	<2	<2
7	Chloride (as Cl)	mg/lit.	439.0	30.6	3777.5	749.7	1712.2	249.9	2748.9	58.7	2054.6	293.5
8	Sulphate (as SO <sub>4</sub> )	mg/lit.	382.5	54.6	3809.0	104.2	597.5	2899.0	94.4	22.3	1418.0	15.7
9	Nitrate (as NO <sub>3</sub> )	mg/lit.	1.7	1.1	36.0	8.2	83.0	3.1	1.9	0.4	4.9	0.6
10	Dissolved Oxygen	mg/lit.	2.2	1.8	ND	3.5	2.7	1.9	3.6	3.9	2.9	4.1

**Note:** N.D. = Not Detected, MDL = Minimum Detection Limit

  
**Jaivik Tandel**  
 (Rec.Analyst)

**Waste Water Quality Monitoring Data**  
**For M/s. Dahej SEZ Ltd. (SEZ Developer)**  
**By – UniStar Environment and Research Labs Pvt. Ltd.**

Waste water Sample		Month	March-2019									
		Date of sampling	05/03/19	06/03/19	09/03/19	11/03/19	14/03/19	18/03/19	20/03/19	23/03/19	27/03/19	29/03/19
Location		Fermenta Biotech Ltd	GIDC Pump Station-D	GIDC Pump Station-C	Meghmani Industries	Accent Microcell Pvt.Ltd.	Meghmani Unichem LLP	Rallis India Ltd	Shiva Pharma Chem Pvt.	Trustin Tape Pvt. Ltd	Yashashvi Rasayan	
Sr. No.	Test Parameters	Unit	Result									
1	pH @ 25 ° C	Unit	7.58	8.09	7.44	7.92	7.50	6.43	9.00	7.41	8.39	7.76
2	Total Dissolved Solids	mg/lit.	2170	3820	15255	3840	4280	6415	4020	3770	2110	505
3	Total Suspended Solids	mg/lit.	70	115	235	50	435	<4	25	15	<4	10
4	Chemical Oxygen Demand (COD)	mg/lit.	653.5	345.4	1424.1	381.2	465.0	116.9	369.3	151.1	33.1	106.9
5	Biochemical Oxygen Demand	mg/lit.	222	116	490	130	160	36	126	46	10	32
6	Oil & Grease	mg/lit.	8.0	5.0	13.0	6.0	6.0	2.0	5.0	2.0	<2	<2
7	Chloride (as Cl)	mg/lit.	489.2	684.8	6208.7	1971.0	1675.3	1064.3	246.3	1478.1	570.0	42.7
8	Sulphate (as SO <sub>4</sub> )	mg/lit.	753.0	1264.0	2558.0	341.1	41.4	1877.0	1568.0	196.9	292.0	79.7
9	Nitrate (as NO <sub>3</sub> )	mg/lit.	3.2	3.4	5.8	3.4	4.2	29.0	2.1	4.3	35.0	3.2
10	Dissolved Oxygen	mg/lit.	2.2	1.9	1.1	2.5	3.1	3.9	3.3	1.8	4.3	4.5

**Note:** N.D. = Not Detected, MDL = Minimum Detection Limit

  
**Jaivik Tandel**  
**(Rec.Analyst)**

## **Annexure-VI**

- Copy of environmental clearance for dispose the treated effluent into deep sea from MoEF& CC.

No.J-16011/9/2003-IA-III

Government of India  
Ministry of Environment and Forests  
(IA-III Division)

Paryavaran Bhavan,  
CGO Complex, Lodhi Road,  
New Delhi - 110003.

3)

Dated the 29<sup>th</sup> April, 2005

**Sub: Environmental clearance under the CRZ Notification, 1991 - Laying of the effluent disposal pipeline for disposal of treated effluent from GIDC Industrial Estates at Vlayat and Dahej, District Bharuch, by the Gujarat Industrial Development Corporation - regarding.**

\*\*\*\*

Reference is invited to letter No.ENV-10.2002-994-P1, dated 29.1.2003, dated 9.4.2003 and dated 19.6.2003 forwarded by Forest & Environment Department, Government of Gujarat. Similarly, information furnished vide letters No.GIDC/EE/DVDC/BRH/PB/922, dated 2.7.2002, No.GIDC/EE/DVDC/BRH/1303, dated 27.9.2002, No.ENG/PH/1/629, dated 30.5.2003, No.GIDC/ENG/PH/813, dated 17.7.2003, No.GIDC/ENG/HQ, dated 13.1.2004, No.GIDC/ENG/PH/389, dated 24.3.2004, No.GIDC/ENG/SE/PH/1209, dated 4.10.2004, No.GIDC/ENG/CE:347, dated 17.11.2004, No.GIDC/ENG/CE:370, dated 17.12.2004, No.GIDC/ENG/Dy.C.E.32, dated 31.1.2005, No.GIDC/ENG/DY/CE/36, dated 1.2.2005 and letter No.GIDC/ENG/DY/CE/142, dated 15.2.2005, from Gujarat Industrial Development Corporation No Objection Certificate from Gujarat Pollution Control Board vide letter No.PC/NOC/BRCH-2430, dated 22.10.2002 on the above mentioned subject have been considered.

The project involves laying of the effluent disposal pipeline for conveyance of the treated effluent from the Vlayat and Dahej Industrial estates, district Bharuch to the sea in the Gulf of Khambhat off Dahej coast. The proposed scheme covers treatment of effluents by the respective industries totaling  $18 \times 10^3$  m<sup>3</sup>/day to meet the norms of the Gujarat Pollution Control Board before transferring to the combined collection system. The total length of the pipeline proposed for the project is 52.5 km which includes 4.5 km of the pipeline in the offshore area. The entire pipeline is laid below the ground level. Of the 52.5 km of pipeline, 4.5 km length pipeline will be buried in the inter-tidal zone and seabed in the Gulf of Cambay, 9 km is in the coastal area and 39 kms is in the onshore area. The effluent will be discharged at latitude 21°39'26"N and Longitude 72°29'50" E through a marine outfall point system with suitably designed diffuser to achieve a conservative dilution of 100 to 200 times.

Hand. Copy to SEC (CG)  
for compliance  
14/5/05  
ECS

2

4)

The proposal has been examined and environmental clearance to this project is hereby accorded subject to effective implementation of the following environmental safeguards and conditions:-

**A. SPECIFIC CONDITIONS:**

- i) All the conditions stipulated by Environment Department, Government of Gujarat as contained in their letter No.ENV-10.2002-994-PI, dated 29.1.2003 shall be effectively implemented. The project shall be implemented in such a manner that there is no damage whatsoever to the mangroves/other sensitive coastal ecosystems.. If any damage to mangroves is anticipated/envisaged as a result of project activities then the clearance now being accorded shall stand cancelled and the proponents may seek fresh approval from the Ministry.
- ii) All the conditions stipulated by Gujarat Pollution Control Board vide letter No.PC/NOC/BRCH-2430, dated 22.10.2002 should be effectively implemented.
- iii) It should be ensured that no activities are taken up in the forest area till necessary forest clearance is obtained and furnished to this Ministry. Adequate measures for compensatory afforestation must be taken accordingly.
- iv) It shall be ensured that there is no displacement of people, houses or fishing activity as a result of the project.
- v) It shall be ensured that due to the project, there is no adverse impact on the drainage of the area and recharge of groundwater. No groundwater should be tapped in the project area falling in Coastal Regulation Zone.
- vi) The project proponent must ensure that the effluents /liquid waste discharged are as per the standards laid down by the Gujarat Pollution Control Board.
- vii) The camps of labour shall be kept outside the Coastal Regulation Zone area. Proper arrangements for cooking fuel shall be made for the labour during construction phase so as to ensure that mangroves are not cut/destroyed for this purpose.
- viii) The entire stretch of the pipelines shall be buried underground except at the booster pumping station, which will be properly fenced and the station would be manned round the clock. The buried lines will be protected with anticorrosive coaltar based coating. The coating will be tested in accordance with prescribed standards.
- ix) Markers shall be installed at every 30 m to indicate the position of the line.
- x) Regular patrolling of the pipeline needs to be done. This will help in identifying any activity that have the potential to cause pipeline damage or to identify small leaks whose effects are too small to be detected by instrument.
- xi) There should be display boards at critical locations along the pipeline viz road/rail/river crossings giving emergency instructions as well as contact details of GIDC. This will ensure prompt information regarding location of accident during any emergency. Emergency Information board should contain emergency instructions in addition to contact details.

**B. GENERAL CONDITIONS:**

- (i) Construction of the proposed structures should be undertaken meticulously confirming to the existing Central/local rules and regulations. All the construction designs/drawings relating to the proposed construction activities

must have approvals of the concerned State Government Department/Agencies.

- (ii) The project authorities should take appropriate community development and welfare measures for the villagers in the vicinity of the project site, including drinking water facilities. A separate fund should be allocated for this purpose.
- (iii) To meet any emergency situation, appropriate fire-fighting system should be installed. Appropriate arrangements for uninterrupted power supply to the environment protection equipment and continuous water supply for the fire fighting system should be made.
- (iv) A separate Environment Management Cell with suitably qualified staff to carry out various environment related functions should be set up under the charge of a Senior Executive who will report directly to the Chief Executive of the Company.
- (v) The funds earmarked for environment protection measures should be maintained in a separate account and there should be no diversion of these funds for any other purpose. A year-wise expenditure on environmental safeguards should be reported to this Ministry's Regional Office at Bhopal.
- (vi) Full support should be extended to the officers of this Ministry's Regional Office at Bhopal and the officers of the Central and State Pollution Control Board by the project proponents during their inspection for monitoring purposes, by furnishing full details and action plans including the action taken reports in respect of mitigative measures and other environmental protection activities.
- (vii) In case of deviation or alteration in the project including the implementing agency, a fresh reference should be made to this Ministry for modification in the clearance conditions or imposition of new one for ensuring environmental protection. The project proponents should be responsible for implementing the suggested safeguard measures.
- (viii) This Ministry reserves the right to revoke this clearance, if any of the conditions stipulated are not complied with to the satisfaction of this Ministry.
- (ix) This Ministry or any other competent authority may stipulate any other additional conditions subsequently, if deemed necessary, for environmental protection, which shall be complied with.
- (x) A copy of the clearance letter shall be marked to the concerned Panchayat/local NGO, if any, from whom any suggestion/representation has been received while processing the proposal.
- (xi) State Pollution Control Board/Committee should display a copy of the clearance letter at the District Industries Center and Collector's Office/ Tehsildar's Office for 30 days.
- (xii) The project proponent should advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance and copies of clearance letters are available with the Gujarat State Pollution Control Board and may also be seen at website of the Ministry of Environment & Forests at <http://www.envfor.nic.in/>.
- (xiii) The project proponents should inform Regional Office Bhopal as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of work.

- (xiv) The project proponent will obtain the Forest clearance for the land passing through the Reserved Forest area before commencement of the project activities in forest area.
- (xv) So as to maintain ecological features and avoid damage to the ecosystem, movement of vehicles in the Inter Tidal Zone shall be restricted to the minimum.
- (xvi) Budgetary break up for Environmental Management Plan for the project to be mentioned.

The above mentioned stipulations will be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (protection) Act, 1986, the Hazardous Chemicals (Manufacture, Storage and Import) Rules, 1989, the Coastal Regulation Zone Notification, 1991 and its subsequent amendments and the Public Liability Insurance Act, 1991 and the Rules made thereunder from time to time. The project proponents should also ensure that the proposal complies with the provisions of the approved Coastal Zone Management Plan of Gujarat and the Supreme Court's order dated 18<sup>th</sup> April, 1996 in the Writ Petition No:664 of 1993 to the extent the same are applicable to this proposal.

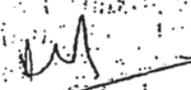
  
(A. Senthil Vel)  
Joint Director

To

Shri P. G. Vinod,  
Deputy Chief Engineer,  
M/s Gujarat Industrial Development Corporation,  
Udyog Bhavan, Block No.4,  
2<sup>nd</sup> Floor, Sector No.11,  
Gandhinagar - 382017.

Copy to:

1. Chief Conservator of Forests, Ministry of Environment and Forests, Regional Office (WZ), Kendriya Paryavaran Bhavan, Link Road No.3, Ravishankar Road, Bhopal - 462016.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 110032.
3. Shri J. K. Vyas, Director (Environment), Forests & Environment Department, Government of Gujarat, Block No.14, 8<sup>th</sup> Floor, Sachivalaya, Gandhinagar - 382010.
4. DIG (SU), Regional Office Cell, Ministry of Environment & Forests, New Delhi.
5. The Chairman, Gujarat State Pollution Control Board, Paryavaran Bhavan, Sector-10A, Gandhinagar-382 010.
6. Guard File.
7. Monitoring Cell
8. Director (EI), Ministry of Environment & Forests, New Delhi.

  
(A. Senthil Vel)  
Joint Director



# Water Pollution Control Board

San Bhavan, Sector-10 A, Gandhinagar-382010.  
 0222756, 3222095, 3222096 Gram CLEANWATER  
 079 3232156



Particulate size of suspended solids	(a) Floatable solids max., 3 mm (b) Settleable solids max., 850 microns
Oil and Grease	20 mg/l
Fluorides	15 mg/l
Sulphides	5 mg/l
Pesticides	Absent
Ammonical Nitrogen	50 mg/l
Total Kjeldahl nitrogen	100 mg/l
Free ammonia [as NH <sub>3</sub> ]	5 mg/l
Copper	3 mg/l
Zinc	15 mg/l
BOD (-5 days at 20 °C)	100 mg/l
COD	250 mg/l
Total residual chlorine	1.0 mg/l
Arsenic(as As)	0.2 mg/l
Mercury(as Hg)	0.01 mg/l
Lead (as Pb)	1 mg/l
Cadmium (as Cd)	2 mg/l
Hexavalent Chromium(Cr +6)	1 mg/l
Total Chromium(as Cr)	2 mg/l
Nickel	5 mg/l
Cyanide(as CN)	0.2 mg/l
Phenoic Compounds(as C <sub>6</sub> H <sub>5</sub> OH)	5 mg/l
Selenium [as Se]	0.05 mg/l
Manganese [as Mn]	2 mg/l
Iron [ as Fe ]	3 mg/l
Vanadium [ as V ]	0.2 mg/l
Nitrate Nitrogen	20 mg/l
Bio-assay test	90% Survival of fish after 96 hrs in 100% effluent.

8. In order to enable the Board to perform its functions of ascertaining the standards of effluent laid down by it for the discharge of the effluent by this order are complied with by the pipeline while causing discharge of effluent, the applicant shall have to submit every month the analysis report of the samples of effluent got collected and analysed by one of the laboratories recognised by the State Board.
9. GIDC shall be totally responsible for collection of treated effluent from the GIDC estates of Vilayat & Dahej & subsequent conveyance of the collected effluent upto the Marine outfall.
10. Collection of treated effluent from the GIDC estates of Vilayat & Dahej & subsequent conveyance of the collected effluent upto the final outlet shall be through closed pipeline.
11. Regular maintenance of the pipeline shall be carried out to avoid any spillage or leakage during conveyance of the effluent.

# Pollution Control Board

Plot No. Sector-10-A, Gandhinagar-382010.  
Ph. 3222095; 3222096 Gram CLEANWATER  
0156



12. GIDC shall keep accurate records of their member units in respect of quantity of each product manufactured, quantity of water consumption, quantity of effluent discharged to and consumption of electricity on day to day basis and shall be required to submit the compiled records for each month to GPCB on or before seventh day of the succeeding month. Separate logbooks shall be maintained for recording all the necessary data.
13. GIDC shall have to arrange for the staff to be provided with face shield gas mask, hand gloves, gum boots, Helmet of green colour having logo of GIDC and adequate training for operation of pipeline.
14. Magnetic flow meters shall be installed at the various stages of Inlet & outlet of pipeline to measure the quantity of effluent at each stage of conveyance.
15. GIDC shall instruct & make sure that every member shall make storage facilities to store the effluent for atleast 48 hours in an impervious acid proof brick lining tank / HDPE tank.
16. GIDC shall instruct & make sure that every member provides on-line pH meter with recorder & magnetic flow meters for flow measurement of treated waste water same shall be provided at the pipeline Inlet.
17. GIDC shall constitute a monitoring committee for monitoring of the effluent discharged by its members in the pipeline.
18. In case of power failure, stand-by D.G. set having power generation capacity equivalent to the requirement of power to run the pipeline conveyance system shall be installed, so that it shall always be operated round the clock even in case of power failure also.
19. The Final effluent treatment plant [ FETP ] shall be provided with on-line monitoring instruments alongwith SCADA system & pH actuated valve at the final sump. Furthermore a third party monitoring shall be conducted regularly.
20. GIDC shall provide Impervious tanks/ HDPE tanks /Impervious guard ponds to hold effluent for atleast 48 hours but shall never discharge any untreated effluent in to the environment. In the case of either maintenance of the FETP or process disturbances, effluent not complying with the marine disposal norms shall be stored & further reprocessed in the treatment plant before final discharge.
21. GIDC shall inform immediately to the GPCB regarding the termination/suspension of the membership of their member unit, if any.
22. GIDC shall have only one outlet for the discharge of its effluent and no effluent shall be discharged without requisite treatment and without meeting with the GPCB norms. Convenient easy approach shall be provided at the outlet for ease of sampling. The unit shall not keep any bypass line or system, or loose or flexible pipe for discharging effluent outside or even within the effluent treatment plant.

# Water Pollution Control Board

Man Bhavan, Sector-10-A, Gandhinagar-382010.  
3222756, 3222095, 3222026 Gram: CLEANWATER  
(079) 3222156



23. GIDC shall submit, to the GPCB, the site plan of the unit indicating the location of the effluent treatment plants, and also a separate plan indicating the channel through which water / effluent passes from different stages of effluent treatment process right upto the stage of its final outlet. Such plan shall also be displayed by the unit on a Board of adequate size within its compound and near its effluent treatment plant.
24. The ground water quality around the impervious guard ponds shall be monitored regularly & data shall be submitted to the Board once in six months and shall also comply with the instruction of GPCB in case of deterioration.
25. Handling, manufacturing, storage and transport of hazardous chemicals shall be in accordance with the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989.
26. Transportation of effluent, solid waste or any other goods pertaining to treatment activities, shall be carried out as per central Motor Vehicle Rule-1989.
27. The hazardous wastes shall be handled as per the Hazardous Waste (Management and Handling) Rules of the Environment (Protection) Act, 1986
28. On site and off site emergency plan as required under the Rules 13 & 14 of handling, manufacturing, storage and import of the Hazardous chemicals Rules, 1989 shall be prepared and approval from the Board shall be obtained.
30. Periodic medical checkup of the workers shall be done and records maintained as a measure to provide occupational health protection to the workers.
31. GIDC shall provide state of the art composite samplers & set up testing laboratory facilities for collection, analysis of samples under the supervision of competent technical personnel who shall report to the chief executive.
32. The Environmental Management Unit / Cell shall be setup to ensure implementation and monitoring of environmental safe guards and other conditions stipulated by statutory authorities. The Environmental Management Unit / Cell shall directly report to the Chief Executive of the organization and shall work as a focal point for internalizing environmental issues. These Cells / Units shall also coordinate the exercise of the environmental audit and preparation of the environmental statements.
33. The Environmental audit shall be carried out yearly and the environmental statements pertaining to the previous year shall be submitted to the GPCB latest by 30th September every year.
34. Storm water shall not be mixed with the industrial effluent. Disposal system for storm water shall be provided separately.

# Pollution Control Board

11th Floor, Sector-10 A, Connaught Place, New Delhi-110028

Phone: 3222095, 3222096 Fax: 3222097

Website: www.pcb.gov.in



35. Good house keeping shall be maintained within the premises. All pipes, valves and drains shall be leak proof. Floor water shall be admitted in to the effluent collection system for subsequent treatment and disposal.
36. GIDC shall intimate the occurrence of any accident, event resulting in discharge of poisonous, noxious or polluting matter or the likely hood of the same into a stream or well to the Regional Office under the intimation to the Member Secretary in accordance with the Section 31(1) of the Water Act.
37. The pipeline to be laid shall comply with all seismic design parameters based on the guidelines for the seismic design of pipelines systems. This must be complied in right perspective & true spirit.
38. The impact during the pipelaying phase (mainly trenching and sub sea pipelaying for a stretch of 11 km off Kanliajal) as well as the impact during the operational on the marine ecology of the Gulf shall be minimal.
39. The effluent release shall be through an adequately designed multiport submerged diffuser to achieve characteristic dilution of at least 70 times during spring low water and times during spring high water for quick dispersion for which diffuser having ports discharging at an angle of 45° with jet velocity shall be provided to minimise adverse impact on the Gulf ecology as per the NIO report.
40. The onshore pipeline shall be adequately buried to a safer depth after making a trench along the proposed route. The trench shall be back filled later.
41. The effluent pipeline shall be buried below the scour level in the intertidal area as well as at least upto the breaker zone in the subtidal segment as recommended by NIO.
42. The pipeline shall be buried in the intertidal area alongwith anchoring using concrete blocks in the subtidal zone. Entire pipelaying operation shall be confined to the narrow corridor of about 10 m width, with dredged spoil site cast at an adequate distance on either sides of the trench. The excavation and displacement of bed material over a 50 m width in the near-shore area shall be back filled later. The effluent pipelines shall be buried to a safe depth along the intertidal segment and the depth of burial shall be ascertained through reliable post-lay surveys to guarantee its safety. The anchoring system for the sub-sea pipeline shall be carefully evaluated considering probable scour likely to be caused due to strong tidal currents. Likewise factors like severe cyclones (wind speed 100-150 km/h) shall be taken into account while designing the pipeline.
43. The subtidal segment of the pipeline shall be laid on the seabed and the seabed contours shall be maintained after the pipeline is laid.
44. Considering strong currents and prevailing movement of the bed material, the pipeline anchoring system shall be carefully designed. Moreover, there being a distinct possibility of scouring under the pipeline leading to spanning and ultimate rupture adequate protection for the same shall be incorporated in the design.

# Gujarat Pollution Control Board

Chhatra Bhavan, Sector-10-A, Gandhinagar 382010.

Phone: 3222756, 3222095, 3222096 Fax: 3222096 Group: CLEANWATER

Telex: (079) 3232156



45. The sub-sea pipeline shall be designed in such a way so as to incur minimal damage in case of any unforeseen accidents like grounding of a ship, undetected corrosion, fatigue, instability of substratum, natural calamities like cyclone, earthquake etc. and intentional third party interference.
46. As nearshore current components being strong towards the shore, there being chances of effluent spreading along the shore and contaminating a large stretch of intertidal segments in the event of damage to the pipeline occurring within 10 m depth contour & subsequently contaminating stretch of the shoreline between Narmada and Kim River. Hence care shall be taken to ascertain that there is no damage to the pipeline & minimal impact on the nearshore marine ecology in the event of effluent disposal through the damaged pipeline.
47. Internationally accepted codes and practices shall be followed through proper inspection, frequent evaluation and intensive testing of all critical components of the pipeline system. Similarly, the vulnerable units such as flanges, couplings, joints etc. shall be rigorously tested and certified for their reliability and safety over the design life of the pipeline.
48. Due care shall be taken to minimise damage to marine ecology due to improper design, lack of maintenance, faulty operation and release into shallow waters due to unforeseen accidents.
49. The entire pipeline shall be protected from external corrosion.
50. Pretreatment to the pipes such as coating, concreting etc. and other fabrication jobs shall be undertaken in a yard on land located sufficiently away from the CRZ and the transfer of materials to the site shall be through a predecided corridor. Similarly, the movement of construction barges, machinery etc. shall be restricted to the predecided operational area. However, the region shall not be crowded with too many vessels and construction machinery to avoid accidents and subsequent spillages of materials and fuel.
51. Temporary colonies of the work force involved in the pipelaying phase shall be established sufficiently away from the CRZ and proper sanitation including toilets and bathrooms shall be provided to the inhabitants to prevent abuse of the intertidal area.
52. After completion of the job work, the intertidal and supratidal area shall be restored to their original contours after the pipe-laying activities are completed. General clean-up along the corridor, adjacent area and intertidal and subtidal regions shall be taken-up and extraneous materials such as drums, sacks, metal scrap, ropes, excess sediment, make shift huts and cabins shall have to be cleared from the site.
53. Training for work safety and efficiency shall be imparted to the operations personnel for day-to-day operations as well as handling emergency situations.

## Gujarat Pollution Control Board

Varan Bhavan, Sector-10-A, Gandhinagar-382010.

Phone: 3222756, 3222095, 3222096 Gram: CLEANWATER  
(079) 3232156



54. It shall be ensured that valves, pumps, sub-sea pipeline, MOF system etc. are periodically inspected for their integrity and to guarantee their proper functioning. Accurate records of all inspections, unusual findings, actions taken etc. shall be strictly maintained as a part of the overall record system.
55. As the region falls under the navigational route of the Gulf & may experience an increase in sea traffic in future, location of the diffuser (MOF) shall be prominently displayed by a suitably designed, lighted marker buoy to avoid chances of collisions / accidents.
56. A comprehensive marine and estuarine quality monitoring programme shall be implemented as recommended in the NIO report.
57. Pump station, seafloor stability, navigational aids, pipelines, diffusers, valves etc. shall be regularly inspected as per standard codes and practices. Records of all inspections, unusual findings, actions taken etc. shall be maintained properly.
58. The efficiency of the marine outfall [ diffuser ] shall be ascertained periodically through tracer studies. The efficiency of the diffuser shall be ascertained regularly alongwith cleaning of the diffusers & port openings for biofoulers and sediment that might settle inside.
59. For efficient operation of pipeline supervisory control and data acquisition (SCADA) shall be employed to facilitate instant data acquisition, visual display and remote control. These supervisory systems shall also facilitate continuous monitoring of various parameters like pressure, temperature leakage detection and automatic / remote shut down of the valves in case of emergency.
60. Control rooms equipped with SCADA, computers, wireless system, telephone system, emergency vehicle, shall be provided. The control room will be manned for 24 hours round the clock.
61. Isolation valves shall be provided on the pipeline for better monitoring and control of flow operation.
62. Necessary clearances for the adequacy & safety measures shall be obtained from the concerned authority.
63. GIDC shall comply with the provisions of all the laws of land including safety, disaster management.
64. GIDC shall submit regular progress reports to the Gujarat Pollution Control Board and other concerned authorities regarding the construction, progress, commissioning and operation of the pipeline.
65. Issuance of this certificate is subject to Coastal Regulation Zone [ CRZ ] clearance from Ministry of Environment & Forests, Government of India, New Delhi.

# Gujarat Pollution Control Board

Swarn Bhavan, Sector-10-A, Gandhinagar 382010.

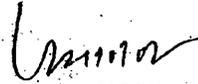
Phone : 3222756, 3222095, 3222096 Gram : CLEAN WATER

Fax : (079) 3232156



66. The applicant shall have to submit the returns in prescribed form regarding water consumption and shall have to make payment of water cess to the Board under the Water Cess Act- 1977.
67. In case of change of ownership/management the name and address of the new owners/partners/directors/proprietor shall immediately be intimated to the Board.
68. The applicant also comply with the General conditions as per Annexure - I attached herewith (No.1 to 38) (whichever applicable).
69. The applicant shall however, not without the prior consent of the Board bring into use any new or altered outlet for the discharge of effluent or gaseous emission or sewage waste from the proposed industrial plant. The applicant is required to make applications to this Board for this purpose in the prescribed forms under the provisions of the Water Act-1974, the Air Act-1981 and the Environment (Protection) Act-1986.

For and on behalf of  
**GUJARAT POLLUTION CONTROL BOARD**  
Yours faithfully,

  
(R.G. SHAH)  
ENVIRONMENTAL ENGINEER

NO:PC/NOC/BRCH-2430/ 32367

22 OCT 2002

ISSUED TO :

M/s. G.I.D.C., (DAHEJ VILAYAT DEVELOPMENT CELL),  
NARMADA COMMERCIAL COMPLEX, 1st FLOOR,  
STATION ROAD, PANCH BHATTI,  
BHARUCH : 392001.

## **Annexure-VII**

- Copy of Consolidated Consent and Authorization of proposed project with its compliance.



# GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN  
Sector-10-A, Gandhinagar-382 021.  
Website : [www.gpcb.gov.in](http://www.gpcb.gov.in)

Inward No. 7545  
Date : 27-2-2015  
Dahej SEZ Limited, Dahej

By R.P.A.D.

In exercise of the power conferred under section-25 of the Water (Prevention and Control of Pollution) Act-1974, under section-21 of the Air (Prevention and Control of Pollution) Act-1981 and Authorization under "Hazardous Waste (Management, Handling & Transboundary Movement) Rule-2008."

And whereas Board has received consolidated application dated: **05/08/2014** for the consolidated consent and authorization (CC & A) of this Board under the provisions / rules of the aforesaid Acts Consent & Authorization is hereby granted as under.

## **CONSENT AND AUTHORIZATION:**

(Under the provisions / rules of the aforesaid environmental acts)

To,  
**M/s. DAHEJ SEZ LTD**  
**GIDC DAHEJ,**  
**VILLAGE - DAHEJ,**  
**TAL: VAGRA,**  
**DIST. BHARUCH.**

1. **Consent Order No. : AW- 65736.**
2. The consent under Water Act -1974 shall be valid up to **04/08/2019**. The consent under Air Act -1981 and Authorization under Environment (Protection) Act, 1986 shall be valid up to **04/08/2019** for use of outlet for the discharge of treated sewage on land for Gardening/Horticulture purpose from Dahej SEZ Ltd at GIDC Dahej, Vill: Dahej-392130, Tal: Vagra, Dist: Bharuch.
3. **SPECIFIC CONDITIONS:-**
  - 3.1 Applicant shall strictly comply/ fulfill the given conditions of EC OF DAHEJ SEZ, issued vide NO - 21-1084 / 2007-1A.III DATED 17/03/2010.
  - 3.2 The applicant shall not produce any products as well as not carry out any activities for products/process listed in the EIA Notification dated 14/09/2006 as amended from time to time, requiring prior Environmental Clearance from competent authority.
  - 3.3 The unit shall affix of water meters as per Section 4(1) of the water (Prevention and Control of Pollution) Cess Act -1977 for the purpose of measuring and recording the quantity of water consumed at such places as may be required.
  - 3.4 The unit shall affix of water meters as per Section 4 (1) of the water (Prevention and Control of Pollution) Cess Act - 1977 for the purpose of measuring and recording the quantity of water consumed at such places as may be required, within 15 days and it shall be presumed that the quantity indicated by the meter has been consumed by the industry until the contrary is proved.
  - 3.5 Adequate measures shall be taken to control odour problem from STP/other ancillary operations.
  - 3.6 Applicant shall ensured & undertake on Rs. 100 stamp paper that it has no outlet in GIDC U/G drain.

Clean Gujarat Green Gujarat

ISO - 9001 - 2008 & ISO - 14001 - 2004 Certified Organisation



# GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN  
Sector-10-A, Gandhinagar-382 021.  
Website : [www.gpcb.gov.in](http://www.gpcb.gov.in)

- 3.7 Applicant shall strictly/fulfill the condition given in NOC (CTE) issued vide letter no: GPCB/BRCH/NOC- 3633/27240 dated: 22/09/2008.

## 4 CONDITIONS UNDER WATER ACT:

- 4.1 The domestic effluent generation from SEZ shall not exceed 80 KL/day.  
4.2 Sewage shall be treated in to the sewage treatment plant to conform the following standards shall be used for on land gardening/plantation purpose within SEZ area.

BOD(5 days at 20 <sup>0</sup> C)	Less than 20 mg/l
Suspended Solids	Less than 30 mg/l
Residual Chlorine	Minimum 0.5 ppm

## 5 CONDITIONS UNDER THE AIR ACT

- 5.1 The following shall be used as fuel in D.G.Set.

Sr. No.	Fuel	Quantity
1	Diesel	40 Lit/hr.

- 5.2 The flue gas emission through stack attached to D.G.Set shall conform to the following standards:-

Stack No	Stack attached to	Stack height in meter	Parameter	Permissible limit
1	DG Set (62.5 KVA)	11	PM SO <sub>2</sub> NO <sub>x</sub>	150 mg/Nm <sup>3</sup> 100 ppm 50 ppm

- 5.3 The applicant shall install and operate a comprehensive adequate air pollution control measures in order to achieve prescribed standards.  
5.4 There shall be no process emission from the manufacturing process as well as any other ancillary operation.  
5.5 Ambient air quality within the premises of the industry shall conform to the following standards:

PARAMETER	PERMISSIBLE LIMIT
Suspended Particulate Matter ( size less than 10um)or PM10 ug/m3**	100 microgram per cubic meter
Suspended Particulate Matter ( size less than 2.5 um)or PM2.5 ug/m3**	60 microgram per cubic meter
Oxides Of Sulphur**	80 microgram per cubic meter



# GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN  
Sector-10-A, Gandhinagar-382 021.  
Website : [www.gpcb.gov.in](http://www.gpcb.gov.in)

Oxides Of Nitrogen**	80 microgram per cubic meter
HCL	200 microgram per cubic meter
Cl <sub>2</sub>	100 microgram per cubic meter
H <sub>2</sub> S	500 microgram per cubic meter
HC	160 microgram per cubic meter
Ammonia	400 microgram per cubic meter
HF	60 microgram per cubic meter
CS <sub>2</sub>	2000 microgram per cubic meter
CO	5000 microgram per cubic meter

\*\* 24 Hourly or 08 hourly or 01 Hourly monitored values, as applicable, shall be complied with 98% of the time in a year, 2% of the time; they may exceed the limits but not on two consecutive days of monitoring.

**Note:** - Whenever and wherever monitoring results on two consecutive days of monitoring exceed the limits specified above for the respective category, it shall be considered adequate reason to Institute regular or continuous monitoring and further investigation.

- 5.6 The applicant shall operate industrial plant / air pollution control equipment very efficiently and continuously so that the gaseous emission always conforms to the given standards.
- 5.7 The consent to operate the industrial plant shall be liable for cancellation/ revoke if at any time the parameters of the gaseous emission are not within the tolerance limits specified in the condition
- 5.8 The applicant shall provide portholes, ladder, platform etc at chimney(s) for monitoring the air emissions and the same shall be open for inspection to/and for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-1, S-2, etc. and these shall be painted /displayed to facilitate identification.
- 5.9 All measure for the control of environment pollution shall be provided before commencing production.
- 5.10 The applicant shall install continuous /online monitoring system on the important place/ stacks for the parameters such as PM, SO<sub>2</sub>, NO<sub>x</sub>, CS<sub>2</sub>, Cl<sub>2</sub>, HCL, VOC.

## 6 GENERAL CONDITIONS:

- 6.1 Any change in personnel, equipment or working conditions as mentioned in the consents Form /order should immediately be intimated to this Board.
- 6.2 Applicant shall also comply with the general conditions given in annexure I.
- 6.3 The arrangement shall be made in each plant for drainage in such a way that all the quantity of effluent shall be taken to the central effluent treatment plant and no untreated waste water from any plant shall be discharged within the premises.
- 6.4 There shall be continuous flow recording devices for each plant to record the individual plant effluent going to the effluent treatment plant. There shall also be continuous flow recording devices at the inlet and outlet of the effluent treatment plant.
- 6.5 The Board reserves the right to review and /or revoke the consent and/ or make variations in the conditions which the Board deems fit at any later date taking into consideration the circumstances, in accordance with Section 27 of the Act.



# GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN  
Sector-10-A, Gandhinagar-382 021.  
Website : [www.gpcb.gov.in](http://www.gpcb.gov.in)

- 6.6 In case of change of management the name and address of the new Directors shall immediately be intimated to the GPCB.
- 6.7 The consent granted shall lapse at any time if any parameters or any condition of this consent order are not complied with.

**For and on behalf of  
Gujarat Pollution Control Board**

**(M.V.Patel)  
Environment Engineer**

NO.GPCB/BRCH-B-CCA- 125 / ID - 25308 / 304986 23/02/2015

**ISSUED TO:**

✓ M/s. DAHEJ SEZ LTD  
GIDC DAHEJ,  
VILLAGE - DAHEJ,  
TAL: VAGRA,  
DIST. BHARUCH

**M/s. DAHEL SEZ LTD.  
(GIDC DAHEJ (SPV of GIDC and ONGC) )**

**COMPLIANCE REPORT**

For conditions of **CONSENT AND AUTHORIZATION CERTIFICATE of Gujarat Pollution Control Board** for Water (Prevention and Control of Pollution) Act-1974, under section-21 Air (Prevention and Control of Pollution) Act-1981 and Authorization under "Hazardous Waste (Management Handling & Transboundary Movement) Rule-2008 at GIDC Dahej, District-Bharuch,  
(CC&A granted vide letter No. AW-65736 dated 27/02/2015 and Valid upto 04/08/19)

**GUJARAT POLLUTION CONTROL BOARD**

<b>SPECIFIC CONDITIONS</b>		
<b>Sr.No</b>	<b>Conditions</b>	<b>Comply</b>
3.1	Applicant shall strictly comply fulfill the given conditions of EC OF DAHEJ SEZ, issued vide NO-21-1084/2007-I A.III DATED 17/03/2010.	DSL is complied with the given conditions of EC of Dahej SEZ and regularly submitting the half yearly compliance report of EC OF DAHEJ SEZ, issued vide NO-21-1084/2007-I A.III DATED 17/03/2010.
3.2	The applicant shall not produce any products as well as not carry out any activities for products/process listed in the EIA Notification dated 14/09/2006 as amended from time to time, requiring prior Environmental Clearance from competent authority.	DSL is complied with the condition and will not carry out any activities for products/process listed in the EIA Notification dated 14/09/2006 as amended from time to time, without obtaining prior Environmental Clearance from competent authority.
3.3	The unit shall affix of water meters as per section 4 (I) of the water (Prevention and Control of Pollution) Cess Act-1977 for the purpose of measuring and recording the quantity of water consumed at such places as may be required.	DSL is complied with condition. DSL shall affix of water meters for the purpose of measuring and recording the quantity of water consumed at such places as may be required.
3.4	The unit shall affix of water meters as per section 4 (I) of the water (Prevention and Control of Pollution) Cess Act-1977 for the purpose of measuring and recording the quantity of water consumed at such places as may be required, within 15 days and it shall be presumed that the quantity indicated by the meter has been consumed by the industry untill the contrary is proved.	Complied with this condition.
3.5	Adequate measures shall be taken to control odour problem from STP/other ancillary operations.	Complied with this condition.
3.6	Applicant shall ensured & undertake on Rs.100 stamp paper that it has no outlet in GIDC U/G drain.	DSL has complied with condition.

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3.7	Applicant shall strictly/fulfill the condition given in NOC (CTE) issued vide letter no: GPCB/BRCH/NOC- 3633/27240 dated: 22/09/2008.	DSL shall strictly comply with condition given in NOC (CTE) issued vide letter no: GPCB/BRCH/NOC- 3633/27240 dated: 22/09/2008.
<b>CONDITIONS UNDER WATER ACT</b>		
4.1	The domestic effluent generation from SEZ shall not exceed 80 KL/day.	Complied with this condition.
4.2	Sewage shall be treated in to the sewage treatment plan to conform the following standards shall be used for on land gardening/plantation purpose within SEZ area.	DSL shall comply with this condition by treating the sewage in STP to meet the standard and shall be used for on land gardening/ plantation purpose within SEZ area.
<b>CONDITIONS UNDER THE AIR ACT</b>		
5.1	The following shall be used as fuel in D.G set.	Complied with this condition.
5.2	The flue gas emission through stack attached to D.G. set shall conform to the following standards.	The flue gas emission through stack attached to D.G. set conforms to the standards as mentioned in the consent.
5.3	The applicant shall install and operate a comprehensive adequate air pollution control measures in order to achieve prescribed standards.	Adequate height of stack is provided as air pollution control measures to the stack attached to DG sets. Regular monitoring is being done.
5.4	There shall be no process emission from the manufacturing process as well as any other ancillary operation.	There is no any process gas emission from the manufacturing process as well as other ancillary operation.
5.5	Ambient air quality within the premises of the industry shall conform to the following standards.	Regular Ambient Air Quality monitoring is being done and comply with the standards. Reports are enclosed as <b>Annexure-IV</b> of EC Compliance report of granted EC OF DAHEJ SEZ, issued vide NO-21-1084/2007-I A.III DATED 17/03/2010.
5.6	The applicant shall operate industrial plant/ air pollution control equipment very efficiently and continuously so that the gaseous emission always conforms to the given standards.	We shall comply with this condition and the gaseous emission will always confirm to the given standards.
5.7	The consent to operate the industrial plant shall be liable for cancellation/voke if at any time the parameters of the gaseous emission are not	We have taken note of the condition and we shall comply with the same.

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	within the tolerance limits specified in the condition.	
5.8	The applicant shall provide portholes, ladder, platform etc at chimney(s) for monitoring the air emissions and the same shall be open for inspection to/and for use of Board's staff. The chimney(s) vents attached to various source of emission shall be designed by numbers such as S-1, S-2, etc. and these shall be painted/displayed to facilitate identification.	We do comply with the condition.
5.9	All measure for the control of environment pollution shall be provided before commencing production.	We do comply with this condition.
5.10	The applicant shall install continuous/online monitoring system on the important place/stacks for the parameters such as PM, SO <sub>2</sub> , NO <sub>x</sub> , CS <sub>2</sub> , CL <sub>2</sub> , HCL, VOC.	We have taken note of the condition and we shall comply with the same.
<b>GENERAL CONDITIONS</b>		
6.1	Any change in personnel, equipment or working conditions as mentioned in the consents form/order should immediately be intimated to this Board.	We have taken note of the condition and we shall comply with the same.
6.2	Application shall also comply with the general conditions given in annexure I.	Application has also comply with the general conditions given in annexure I.
6.3	The arrangement shall be made in each plant for drainage in such a way that all the quantity of effluent shall be taken to the central effluent treatment plant and no untreated waste water from any plant shall be discharged within the premises.	We do comply with this condition.
6.4	There shall be continuous flow recording devices for each plant to record the individual plant effluent going to the effluent treatment plant. There shall also be continuous flow recording	Taken note of this condition and will be complied.

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	devices at the inlet and outlet of the effluent treatment plant.	
6.5	There Board reserves the right to review and/or revoke the consent and/or make variations in the conditions which the Board deems fit at any later date taking into consideration the circumstances in accordance with section 27 of the Act.	Taken note of this condition.
6.6	In case of change of management the name and address of the new Direction shall immediately be intimated to the GPCB.	Taken note of this condition and will be complied.
6.7	The consent granted shall lapse at any time if any parameters or any condition of this consent order are not complied with.	We agree with this condition.