



AHPPL/MOEF&CC/2016-17/004

Date: 23/05/2016

To
✓ The Director (S),
Western Regional Office,
Ministry of Environment, Forest & Climate Change,
E-5, Arera Colony, Link Road-3,
Ravishankar Nagar, Bhopal-462016 (M.P.)
E-mail: rowz.bpl-mef@nic.in

Kind Attn.: Dr. A. Mehrotra

Dear Sir,

Sub.: Half yearly Compliance Report of conditions stipulated in Environment and CRZ clearance for the development of Multi Cargo Port with supporting utilities and infrastructure facilities at Hazira, Surat, Gujarat for the period **October, 2015 to March, 2016.**

- Ref.:** 1) Environmental and CRZ clearance issued by MoEF&CC, New Delhi vide letter No.: 11-150/2010-IA.III dated 03rd May, 2013.
2) CRZ Recommendation issued by Forest & Environment Department, Govt. of Gujarat to MoEF&CC, New Delhi vide letter No.: ENV-10-2012-30-E dated 11th May, 2012.
3) Amendment in CRZ/Environment Clearance issued by MoEF&CC, New Delhi vide letter No.: J-16011/11/2003-IA-III, dated 19th February, 2007.
4) CRZ Recommendation issued by Forest & Environment Department, Govt. of Gujarat to MoEF&CC, New Delhi vide letter No.: ENV-10-2006-128-P dated 05th Feb., 2007.
5) Amendment in CRZ Clearance issued by MoEF&CC, New Delhi vide letter No.: J-16011/11/2003-IA-III, dated 12th November, 2003.
6) CRZ Clearance issued by MoEF&CC, New Delhi vide letter No.: 160-11/11/2003-IA.III dated 26th June, 2003.

Please find enclosed herewith point wise Compliance Reports (Hard copy as well as in a CD) of conditions stipulated in the above referred letters.

Thank you,

For M/s. Adani Hazira Port Private Limited,

(Capt. A. K. Singh)
Chief Executive Officer

Encl.: As above

Copy to:

1. The Director (Monitoring - IA Division), Ministry of Environment, Forests & Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi-110 003.
2. The Director, Forests & Environment Department, Block - 14, 8th Floor, Sachivalaya, Gandhinagar, Gujarat - 382 010.
3. The Zonal Officer, Central Pollution Control Board, Zonal Office Vadodara, Parivesh Bhawan, Opp. VMC Ward Office No.:10, Subhanpura, Vadodra-390 023.
4. The Chairman, Gujarat Pollution Control Board, Parvayaran Bhawan, Sector - 10A, Gandhinagar-382 010 (Gujarat).
5. The Regional Officer, Gujarat Pollution Control Board, Belgium Square, Ring Road, Surat-395003, (Gujarat).

Hampal
23/5/16
केंद्रीय कार्यालय / OFFICE
पर्यावरण एवं वन मंत्रालय (केन्द्रीय)
Ministry of Environment & Forests (C)
क्षेत्रीय कार्यालय (पश्चिम क्षेत्र)
Regional Office (Western Region)
बोपाल (म.प्र.) - 462016

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Half Yearly Compliance Report for Environmental and CRZ Clearance issued by MoEF&CC, New Delhi vide letter No.: 11-150/2010-IA.III dated 03rd May, 2013 for the development of Multi Cargo Port with supporting utilities and infrastructure facilities at Hazira, Surat, Gujarat by M/s. Adani Hazira.

- A. Half Yearly Compliance Report for Environmental and CRZ Clearance issued by MoEF&CC, New Delhi vide letter **No.: 11-150/2010-IA.III dated 03rd May, 2013** for the development of Multi Cargo Port with supporting utilities and infrastructure facilities at Hazira, Surat, Gujarat by M/s. Adani Hazira

S. No.	Stipulated Conditions	Compliance Status												
6.	Specific Conditions													
i	"Consent for Establishment" shall be obtained from State Pollution Control Board under Air & Water Act and a copy shall be submitted to the Ministry before start of any construction work at site.	<p>AHPPL has obtained Consent to Establish (NOC) from Gujarat Pollution Control Board:</p> <table border="1"> <tr> <th>Consent No.</th><th>Issued on</th><th>Submitted to MoEF&CC on</th></tr> <tr> <td>CTE_49766</td><td>05/10/2012</td><td>19/11/2014</td></tr> <tr> <td>CTE-64900</td><td>26/09/2014</td><td>12/05/2015</td></tr> <tr> <td>CTE-74330</td><td>13/01/2016</td><td>Copy enclosed as Annexure-1</td></tr> </table>	Consent No.	Issued on	Submitted to MoEF&CC on	CTE_49766	05/10/2012	19/11/2014	CTE-64900	26/09/2014	12/05/2015	CTE-74330	13/01/2016	Copy enclosed as Annexure-1
Consent No.	Issued on	Submitted to MoEF&CC on												
CTE_49766	05/10/2012	19/11/2014												
CTE-64900	26/09/2014	12/05/2015												
CTE-74330	13/01/2016	Copy enclosed as Annexure-1												
ii	The action plan on the issues raised during public hearing shall be submitted to the Pollution Control Board. The action plan shall be implemented without fail. Report on compliance shall be submitted to the Regional Office, MOEF along with the Six monthly reports.	<p>Key points of the PH were:</p> <p>1) Preference to be given to the local people for employment and transport & other contracts. M/s. AHPPL is giving preference to the locals for contracts and skilled local candidates for employment as per suitable requirements.</p> <p>2) Villagers were anxious about their displacement due to port development. M/s. AHPPL is developing port on approx. 873.27 hectares which is uninhabited and there is no acquisition of private property.</p> <p>The action plan and compliance status on the issues raised during the public hearing is enclosed as Annexure-2.</p>												
iii	All the recommendations of SCZMA shall be complied with.	Compliance status of the conditions stipulated in GCZMA is enclosed as Appendix -1 .												
iv	Periodical study on shore line changes shall be conducted and mitigation carried out if necessary. The details shall be submitted along with six monthly monitoring reports.	NIO, Vizag has been engaged for shoreline changes study. They have done the first survey of the shoreline during October, 2014 for baseline and second survey has been done in November, 2015. Report awaited, mitigation measures (if any) will be decided after receiving the final report.												
v	Oil spills if any shall be properly collected and disposed as per Rules. Proper Oil contingency Management plan shall be put in the place.	Oil Spill Contingency Plan has been prepared and the same was approved/vetted by Indian Coast Guard (Letter No.: 7563, dated 09.01.2014).												
vi	The detailed plan with budgetary provisions for the CSR shall be submitted to the ministry.	<p>CSR activities are planned at group level by Adani Foundation in four verticals i.e. Education, Community health, Sustainable livelihood and Rural infrastructure development.</p> <p>Details of the CSR activities for the Financial Year: 2015-16 with number of beneficiaries and expenditure is enclosed as Annexure-3.</p>												

S. No.	Stipulated Conditions	Compliance Status
vii	All the recommendation of the EMP and DMP shall be complied within letter and spirit.	All the recommendations of the EMP and DMP are being taken care.
viii	Periodical monitoring of the sea water quality at the outlet shall be carried out to check the discharge is meeting the standard and not causing any impact to marine life.	AHPPL is monitoring the Sea Water Quality at three locations on monthly basis. Copy of the analysis reports for the period October, 2015 to March, 2016 is enclosed as Annexure-4 .
ix	Transport of cargo shall in closed system and dust control viz. water sprinkler, along conveyor and transfer points shall be provided.	Transportation of cargo from port to hinterland is being done through trucks covered with tarpaulin. Following dust control measures are in place at port to control fugitive dust: 1. Belt Conveyor with hood, 2. Water Sprinklers, 3. Spray Nozzles in conveyor system, 4. Water browsers and 5. Water Mist/Fog System.
x	Construction activity shall be carried out strictly as per the provisions of CRZ notification 2011. No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone.	Development of port is as per master plan submitted to MoEF&CC for which the EC and CRZ Clearance has been issued.
xi	The project shall be executed in such a manner that there shall not be any disturbance to the fishing activity.	The port development is in a stretch of 4 Kms. of coastline. No fishermen are displaced due to project activity of AHPPL. The surrounding areas are open for fishing and there is no disturbance to fishing activities. In addition, AHPPL is regularly provide support to fisherman by giving tools, nets etc.
xii	It shall be ensured that there is no displacement of people, houses or fishing activity as a result of the project.	Land requirement has been met through reclamation which is in line with the ECs granted in 2003, 2007 and 2013. There is no acquisition of private land and thus there is no displacement of people, houses or fishing activity due to port development.
xiii	The project proponent shall set up separate Environment Management Cell for effective implementation of the stipulated environmental safe guards under the supervision of a Senior Executive.	Environment Management Cell has been set up with qualified staff to ensure the effective implementation of environmental safe guards.
xiv	The funds earmarked for environment management plan shall be included in the budget and this shall not be diverted for any other purposes.	Details of budget & expenditure for Environment Management for the Financial Year: 2015-16 is enclosed as Annexure-5 . No funds are diverted for any other purposes.
7.	General Conditions	
i.	Appropriate measures must be taken while undertaking digging activities to avoid any degradation of water quality.	Digging is limited to the channel & reclaimed land, not at the edge of the sea coast and sea water quality monitoring through a MoEF&CC and NABL accredited laboratory shows that there is no impact

S. No.	Stipulated Conditions	Compliance Status
		on the sea water quality. Copy of the analysis reports for the period October, 2015 to March, 2016 is enclosed as Annexure- 4.
ii.	Full support shall be extended to the officers of this Ministry /Regional Office at Bhopal by the project proponent during inspection of the project for monitoring purposes, by furnishing full details and action plans including the action taken reports in respect of mitigation measures and other environmental protection activities.	Noted and being complied with. Last visit by Addl. PCCF, MoEF&CC - RO, Bhopal was on 10/02/2016 and full cooperation was extended.
iii.	A six-monthly monitoring report shall need to be submitted by the project proponents to the Regional Office of this Ministry at Bhopal regarding the implementation of the stipulated conditions.	Noted and complying with.
iv.	Ministry of Environment & Forests or any other competent authority may stipulate any additional conditions or modify the existing ones, if necessary subsequently, if deemed necessary for environmental protection, which shall be complied with.	Noted.
v.	The Ministry reserves the right to revoke this clearance, if any of the conditions stipulated are not complied with to the satisfaction of this Ministry.	Noted.
vi.	In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to Ministry of Environment and Forests.	Noted.
vii.	The project proponents shall inform the Regional Office 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 Land Development Work.	The required information provided to all concern. Financial Closure date is 29 th September, 2011. Approval from GMB to commence work was obtained on 09 th April, 2010 vide letter No.: GMB / N / PVT / 923 (10) / 42 / 458.
viii.	A copy of the clearance letter shall be marked to concerned Panchayat / Local NGO, if any from whom any suggestions / representations has been received while processing the proposal.	Copy of the clearance letter was sent to the concerned Panchayat and local NGO. Copy of the RPAD receipt is already submitted to MoEF&CC along with half yearly compliance report dated 27 th November, 2013.
ix.	State Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industries Center and Collector's Office/Tehsildar's Office for 30 days.	This condition does not belong to M/s. AHPPL.
8.	These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act 1986, the	AHPPL has obtained Public Liability Insurance vide Policy No.: 3133201064763101000 valid up to 31 st March, 2017. Copy of the same is enclosed as Annexure - 6.

S. No.	Stipulated Conditions	Compliance Status
	Public Liability (Insurance) Act 1991 and EIA notification 1994, including the amendments and rules thereafter.	
9.	All other statutory clearance such as the approvals for storage of diesel from Chief Controller of Explosive, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponent from the respective competent authorities.	<p>All applicable clearances from respective authorities have been obtained i.e.:</p> <ol style="list-style-type: none"> 1. PESO License from Chief Controller of Explosive, Nagpur vides Order No.: P/HQ/GJ/15/5294 (P270337), Renewed on 31.12.2015 valid till 31.12.2018. Copy of the same is enclosed as Annexure-7. 2. License to work a Factory (Liquid Terminal) from Director of Industrial Safety and Health, Govt. of Gujarat their vide Registration No.: 3502 / 51410 / 2013 and License No.: 18757, Renewed on 09-02-2015, valid till 31.12.2016. PESO Approval obtained on 18th December, 2015, valid up to 31st December, 2018. Copy of the same is enclosed as Annexure - 8. 3. Civil Aviation: Not Applicable, 4. Forest Clearance: Not Applicable, and 5. Wildlife Conservation: Not Applicable.
10.	The project proponent shall advertise in at least two local newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environment and CRZ clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen at Website of the Ministry of Environment & Forests at http://www.envfor.nic.in . The advertisement should be made within 10 days from the date of issue of the clearance letter and a copy of the same should be forwarded to the Regional Office of this Ministry at Bhopal.	Advertisement were published in Gujarat News Paper "Gujarat Mitra" and English News Paper "The Times Of India" on 13/05/2013 and copy of the same is already submitted to MoEF&CC, New Delhi and other authorities along with the half yearly compliance report dated 27 th November, 2013.
11.	This clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No.: 460 of 2004 as may be applicable to this project.	Noted.
12.	Status of Compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.	The compliance report of conditions stipulated in Environmental and CRZ clearance is available on the company website i.e.: http://www.adaniports.com/ports-downloads
13.	Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted.
14.	A copy of the clearance letter shall be	Copy of the clearance letter was sent to

S. No.	Stipulated Conditions	Compliance Status
	sent to concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban Local Body and the Local NGO, if any from whom suggestions/ representations if any, were received while processing the proposal. The Clearance letter shall also be put on the website of the company by the proponent.	the concerned Panchayat and local NGO. Copy of the RPAD receipt is already submitted to MoEF&CC along with half yearly compliance report dated 27 th November, 2013.
15.	The Proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB.	The half yearly compliance report is being uploaded on the company website at http://www.adaniports.com/ports-downloads and submitted to: 1. RO - MoEF&CC, Bhopal, 2. MoEF&CC -New Delhi, 3. CPCB, Zonal Office - Vadodara, 4. Head Office GPCB- Gandhinagar 5. RO, GPCB - Surat and 6. DoEF, Gandhinagar
16.	The Environmental Statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules 1986, as amended subsequently, shall also be put on the website of the company along with status of compliance of EC Conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	The Environment Statement in Form-V for the Financial Year: 2014-15 is submitted to GPCB vide letter dated 04 th September, 2015 & also uploaded on company website at http://www.adaniports.com/ports-downloads Form-V for FY: 2014-15 has been sent to Regional Office of MoEF&CC by email to rowz.bpl-mef@nic.in on 09 th October, 2015.

Half Yearly Compliance Report for CRZ Clearance issued by MoEF&CC, New Delhi vide letter No.: 16O-11/11/2003-IA.III dated 26th June, 2003 for the development of Multi Cargo Port with supporting utilities and infrastructure facilities at Hazira, Surat, Gujarat.

- B. Half Yearly Compliance Report for CRZ Clearance issued by MoEF&CC, New Delhi vide letter No.: **160-11/11/2003-IA.III dated 26th June, 2003** for the development of Multi Cargo Port with supporting utilities and infrastructure facilities at Hazira, Surat, Gujarat

S. No.	Stipulated Conditions	Compliance Status
A.	SPECIFIC CONDITIONS	
i	All the conditions stipulated by the Gujarat Pollution Control Board vide their letter No.: PC NOC-SRT/1241/8995, dated 24 th March, 2003 shall be effectively implemented.	All the conditions stipulated by GPCB in consent to establish issued time to time are being complied.
ii	All conditions stipulated by the Forest and Environment Department, Government of Gujarat vide their letter No.: ENV.10.2003-29-P1, dated 10 th April, 2003 and letter No.: ENV-10-2003-29-P1, dated 29 th May, 2003 shall be effectively implemented.	Complying with.
iii	All the conditions stipulated by Gujarat Maritime Board vide their No.: GMB/N/Pvt/190(10)/9041, dated 31.12.2002 shall be effectively implemented.	Complying with.
iv	The proposals for infrastructure corridor (37km of rail line, 10 km of road, 3 km of underground conveyor system and 22 MW CCGT for connectivity) are deferred for lack of adequate details. The proponents are requested to submit a separate, fresh proposal embodying various components of the infrastructure corridor with requisite details. However, the desalination facilities can be taken up. Brine concentrates produced as a result of desalination works should not be disposed of in the sea. Instead, their techno-commercial viability should be explored for optimal utilization.	Noted and will be complied with as and when applicable.
v	No groundwater should be tapped.	No groundwater is being tapped for port operation purpose.
vi	The area of 22 ha. of the mangrove patch and 8 ha. of buffer area along the mangrove patch should be protected during construction and operation phase of the project. As an additional measure, the 50 ha. of land identified at Kadia Bet located in the vicinity of the project site should be taken up for afforestation and no developmental activity should be taken up in the above mangrove areas. A detailed plan for the afforestation of mangroves at Kadia Bet should be prepared within 3 months and submitted to this Ministry.	This condition is amended by MoEF&CC vide letter dated 19 th February, 2007 bearing No.: J-16011/11/2003-IA-III. Compliance of the amended condition is enclosed as Appendix - 2 .
vii	Dumping of dredged spoils should be done in the locations approved earlier.	Modified as per communication from MoEF&CC dated 12 th November, 2003 bearing letter no.: J-16011/11/2003-IA-III revised conditions states "dumping of dredged spoils should be dumped at the sites A & C as per the following coordinates:

S. No.	Stipulated Conditions	Compliance Status
		(A) 21" 03' to 21" 05' N & 72" 28' to 72" 30' E (C) 21" 03' to 21" 05' N & 72" 30' to 72" 32' E Noted & will be complied during dredging.
viii	Environmental Management Plan (EMP) with detailed break-up of item-wise budget as contained in your letter dated 18 th June, 2003 shall be strictly implemented. The amount earmarked for EMP should be kept separate and should not be diverted for any other extraneous purpose.	Details of budget & expenditure for Environment Management for the Financial Year: 2015-16 is enclosed as Annexure-5 . No funds are diverted for any other purposes.
ix	Method of disposal of solid wastes and the sites of such disposal shall be intimated to Ministry of Environment & Forests.	Hazardous waste generated is being disposed to the GPCB authorized TSDF sites i.e.: M/s. SEPPL, Bhachau, Kutch (Gujarat) and M/s. BEIL, Ankleshwar, Bharuch (Gujarat).
x	The project proponents should find ways to reuse the treated sewage for greenery or any other purpose rather than discharging these into the coastal waters.	Treated sewage water is being utilized for horticulture purpose.
xi	Proper navigational aids and leading lights should be provided.	Proper navigational aids and leading lights have been provided.
xii	Air pollution due to handling of fertilizer, coal should be monitored and kept within permissible limits.	Ambient air quality monitoring is being carried out through a MoEF&CC and NABL accredited laboratory within port premises and during current monitoring period all the pollutants are found under the limit. Copy of the same for the period October, 2015 to March, 2016 is enclosed as Annexure - 4 .
xiii	Forest clearances, as applicable, be obtained.	Noted and will be complied with.
xiv	Construction labour camps should be located outside Coastal Regulation Zone areas and should be provided with adequate cooking and sanitation facilities,	Labour camps are outside the Coastal Regulation Zone areas.
xv	The developer shall provide pollution control facilities for dust separation while handling bulk coal, iron ore and sulphur. Spill boards shall be provided in the berth to prevent cargo spillage into the sea.	Transportation of cargo from port to hinterland is being done through trucks covered with tarpaulin. Following dust control measures are in place at port to control fugitive dust: 1. Belt Conveyor with hood, 2. Water Sprinklers, 3. Spray Nozzles in conveyor system, 4. Water browsers and 5. Water Mist/Fog System.
xvi	The project proponent should ensure that the surface run-off from the stockyard is not let out into the sea/open area causing seawater/groundwater pollution.	Run off from stockyard is being collected into dump ponds. Quality monitoring of the Sea water, ground water and dump pond water is being done through MoEF&CC and NABL accredited laboratory. Copy of the

S. No.	Stipulated Conditions	Compliance Status
		same for the period October, 2015 to March, 2016 is enclosed as Annexure - 4.
xvii	All pollution control facilities for handling ballast water and bilge as required under MARPOL convention for servicing ships shall be provided.	AHPPL is not taking any ballast water and bilge. However, ballast water and bilge generated from our own tugs is being collected into barrels/drums in secure manner and disposed of through GPCB registered vendors.
xviii	A specific oil spill response plan shall be prepared and submitted to the State Authority with a copy to Ministry of Environment & Forests, before commissioning the project.	Oil Spill Contingency Plan has been prepared and the same was approved/vetted by Indian Coast Guard (Letter No.: 7563, dated 09.01.2014).
xix	The stacking height of sulphur shall not in any case exceed 5 m.	Complying with.
xx	Adequate fire-fighting facilities as per National Fire Protection Code shall be provided in the port area and in the buildings.	All the fire-fighting facilities are at place according to the National Fire Protection Code.
xxi	All dredging operations should be restricted to bare minimum extent, the dredge material should be used for reclamation instead of dumping off-shore.	Modified as per communication from MoEF&CC dated 12 th November, 2003 bearing letter no.: J-16011/11/2003-IA-III revised conditions states "all dredging operations should be restricted to bare minimum extent, the maximum dredged material suitable for reclamation should be used for the said purpose and the remaining material may be used for dumping at the recommended sites mentioned in Para (vii), complying with.
xxii	The dredging operations shall be carried out in a controlled manner such that there is no increase in turbidity levels outside the port area.	We are not doing capital dredging in the sea area.
xxiii	A comprehensive water supply and management plan for the multi cargo port without tapping groundwater shall be prepared, in consultation with State Government/ Irrigation Department with a view to make water available for ships calling at the Hazira Port.	Comprehensive water supply and management plan is in place and we do not tap ground water for multi-cargo port operations. Agreement has been made with KRIBHCO for procurement of industrial water.
xxiv	During reclamation, setting ponds shall be provided to control silt discharge into the sea.	During project development phase bunds/setting ponds were provided to control the dumped soil materials which ensure no discharge of silt in to the sea.
xxv	A Regional Disaster Management Plan for the Hazira Peninsula, covering all major industries and the port shall be prepared in consultation with District Authorities and implemented.	Regional DMP for the Hazira Peninsula, covering all major industries and the port has been prepared in consultation with District Authorities and same is being implemented.
xxvi	The tugs shall be equipped with fire-fighting	All tugs have been well equipped

S. No.	Stipulated Conditions	Compliance Status
	facilities and booms to control oil spill in the port area.	with fire-fighting facilities and booms to control oil spill in the port area.
xxvii	A comprehensive Environmental Impact Assessment report for the entire gamut of activities of the multi cargo port at Hazira shall be prepared and submitted within one year from date of receipt of this clearance letter. Any additional environmental safeguards brought out by this comprehensive Environmental Impact Assessment report shall be duly implemented.	Complied with. Comprehensive EIA study report prepared by NEERI has been submitted to the Ministry of Environment and Forests, Gol on 19 th July, 2004.
xxviii	The project proponent shall engage National Institute of Oceanography, Goa for monitoring the biological parameters of the mangrove areas located within the project site and the additional area 50 ha identified at Kadia Bet for mangrove afforestation. For the purpose of monitoring the water quality and to study the siltation pattern, National Environmental Engineering Research, Nagpur shall be engaged.	Being complied with in line with the substituted conditions 6(a) & 6(b) from MoEF&CC, dated 19 th February, 2007.
xxix	The project proponent shall ensure that NIO and NEERI undertake monitoring as above once in thirty days during construction period. The monitoring schedule should be once is three months during the operational phase of the project. The monitoring reports furnished by NIO and NEERI shall be submitted to the Regional Office of Ministry of Environment & Forests, Bhopal and to Ministry of Environment & Forests, New Delhi.	Being complied with in line with the substituted conditions 6(a) & 6(b) from MoEF&CC, dated 19 th February, 2007.
B.	GENERAL CONDITIONS	
i	Construction of the proposed structure should be undertaken meticulously conforming to the existing Central/local rules and regulations including Coastal Regulation Zone Notification, 1991 and its amendments. All the construction designs/drawings relating to the proposed construction activities must have approvals of the concerned State Government Department / Agencies.	Noted and being complied with.
ii	The proponent shall ensure that as a result of the proposed constructions, ingress of the saline water into the groundwater does not take place. Piezometers shall be installed for regular monitoring for this purpose at appropriate locations on the project site.	Proper care is being taken during construction activity to avoid any degradation of water quality. However, M/s. AHPPL is monitoring the Ground Water Quality at one location on monthly basis. Copy of the Ground Water Analysis Reports for the period October, 2015 to March, 2016 is enclosed as Annexure- 4.

S. No.	Stipulated Conditions	Compliance Status
iii	Handling, manufacturing, storage and transportation of all hazardous chemicals should be carried out in accordance with MSIHC rules, 1989 and subsequent amendments. All approvals from State and Central nodal agencies including OISD, Chief Controller of Explosives, Chief Inspectorate of Factories must be obtained. A comprehensive contingency plan in collaboration with the concerned authorities must be formulated before commissioning of the project to meet any eventuality in case of an accident.	Complying with and all required statutory approvals has been obtained from the concerned authorities i.e.: 1. PESO License from Chief Controller of Explosive, Nagpur vide Order No.: P/HQ/GJ/15/5294 (P270337). Renewed on 31.12.2015 valid till 31.12.2018. 2. License to work a Factory (Liquid Terminal) from Director of Industrial Safety and Health, Govt. of Gujarat their vide Registration No.: 3502/51410/2013 and License No.: 18757, Renewed on 09-02-2015, valid till 31.12.2016.
iv	A well-equipped laboratory with suitable instruments to monitor the quality of air and water shall be set up as to ensure that the quality of ambient air and water conforms to the prescribed standards. The laboratory will also be equipped with qualified manpower including a marine biologist so that the marine water quality is regularly monitored in order to ensure that the marine life is not adversely affected as a result of implementation of the said project. The quality of ambient air and water shall be monitored periodically in all the seasons and the results should be properly maintained for inspection of the concerned pollution control agencies. The periodic monitoring reports at least once in 6 months must be send to this Ministry (Regional Office at Bhopal) and State Pollution Control Board.	Complying with, the environmental quality monitoring is being done by MoEF&CC & NABL accredited laboratory. Kindly refer to Annexure-4 for the environmental monitoring report for the period October, 2015 to March, 2016.
v	Adequate provisions for infrastructure facilities such as water supply, fuel for cooking, sanitation etc. must be provided for the laborers during the construction period in order to avoid damage to the environment. Colonies for the laborers should not be located in Coastal Regulation Zone area. It should also be ensured that the construction workers do not cut trees including mangroves for fuel wood purpose.	All the labour colonies are located outside the CRZ area.
vi	To prevent discharge of sewage and other liquid wastes into the water bodies, adequate system for collection and treatment of the wastes must be provided. No sewage and other liquid wastes without treatment should be allowed to enter into the water bodies.	Adequate system for collection and treatment of sewage and liquid wastes are in place. Treated sewage water is being utilized for horticulture purpose.
vii	Appropriate facility should be created for the collection of solid and liquid wastes generated by the barges/vessels and their safe treatment and disposal should be ensured to avoid possible contamination of the water bodies.	AHPPL is not taking any solid and liquid wastes from vessels. However, solid and liquid wastes generated from our own tugs is being collected in secure manner and disposed of through GPCB registered / approved

S. No.	Stipulated Conditions	Compliance Status
		vendors.
viii	Necessary navigational aids such as channel markers should be provided to prevent accidents. Internationally recognized safety standards shall be applied in case of barge/vessel movements.	Proper navigational aids and leading lights have been provided. Internationally recognized safety standards are being followed during vessel movement.
ix	The project authorities should take appropriate community development and welfare measures for villagers in the vicinity of the project site, including drinking water facilities. A separate fund should be allocated for this purpose.	CSR activities are planned at group level by Adani Foundation in four verticals i.e. Education, Community Health, Sustainable Livelihood and Rural Infrastructure Development. Details of the CSR activities for the Financial Year: 2015-16 with number of beneficiaries and expenditure is enclosed as Annexure-3 .
x	The quarrying material required for the construction purpose shall be obtained only from the approved quarries/borrow areas. Adequate safeguard measures shall be taken to ensure that the overburden and rocks at the quarry site do not find their way into water bodies.	All quarrying material is being obtained from approved quarries.
xi	The dredging operations to be undertaken with the prior approval of this Ministry, shall be executed with appropriate safeguard measures to prevent turbidity conditions in consultation with the expert agencies such CWPRS/NIO.	Deleted as per communication from MoEF&CC dated 12 th November, 2003 bearing letter No.: J-16011/11/2003-IA-III.
xii	For employing unskilled, semi-skilled and skilled workers for the project, preference shall be given to local people.	M/s. AHPPL is giving preference to the locals for contracts and skilled local candidates for employment as per suitable requirements.
xiii	The recommendations made in the Environmental Management Plan and Disaster Management Plan, as contained in the Environmental Impact Assessment and Risk Analysis Reports of the project shall be effectively implemented.	Complying with.
xiv	A separate Environmental Management Cell with suitable 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.	Environment Management Cell has been set up with qualified staff to ensure the effective implementation of environmental safe guards.
xv	The project-affected people, of any should be properly compensated and rehabilitated.	Land requirement has been met through reclamation which is in line with the ECs granted in 2003, 2007 and 2013. There is no acquisition of private land and thus there is no displacement of people, houses or fishing activity due to port development.
xvi	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.	Details of budget & expenditure for Environment Management for the Financial Year: 2015-16 is enclosed as Annexure-5 . No funds are

S. No.	Stipulated Conditions	Compliance Status
	A year-wise expenditure on environmental safeguards should be reported to this Ministry.	diverted for any other purposes.
xvii	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 Boards by the project proponent during this inspection for monitoring purposes, by furnishing full details and action plans including the action plans including the action taken reports in respect if mitigative measures and other environmental protection activities.	Noted and being complied with. Last visit by Addl. PCCE, MoEF&CC - RO, Bhopal was on 10/02/2016 and full cooperation was extended.
xviii	In case of deviation or alternation 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 ones for ensuring environmental protection. The project proponents should be responsible for implementing the suggested safeguard measures.	Complied with.
xix	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.	Noted.
xx	This Ministry or any other competent authority may stipulate any additional conditions subsequently, if deemed necessary for environmental protection, which shall be complied with.	Noted.
xxi	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 State Pollution Control Board and may also be seen at Website of the Ministry of Environment & Forests at http://www.envforin.in . The advertisement should be made within 7 days from the date of issue of the clearance letter and a copy of the same should be forwarded to the Regional Office of this Ministry at Bangalore.	Advertisements were published in Gujarati News Paper "Gujarat Samachar" on 12/07/2003 and English News Paper "The Times Of India" on 10/07/2003.
xxii	The project proponents should inform the Regional Office 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 Land Development Work.	The required information provided to all concern. Financial Closure date is 29 th September, 2011. Approval from GMB to commence work was obtained on 09 th April, 2010 vide letter No.: GMB / N / PVT / 923 (10) / 42 / 458.

APPENDIX - 1

Appendix -1: Compliance to the conditions stipulated in CRZ recommendation issued by Forest & Environment Department, Govt. of Gujarat to MoEF&CC, New Delhi vide letter no.: ENV-10-2012-30-E dated 11th May, 2012

S. No.	Conditions	Compliance Status
A.	Specific Condition	
1	The provision of CRZ Notification 2011 shall be strictly adhered by M/s. AHPPL. No activity in contradiction to the provision of CRZ Notification shall be carried out by M/s. AHPPL.	All the activities is being carried is in line with the approval received under CRZ Notification 2011.
2.1	M/s. AHPPL shall not construct any storage facilities for material / chemicals in the CRZ area except for those permissible as per Annexure - II of CRZ Notification 2011.	Noted. Only permissible activities being carried out in CRZ area.
2.2	Also for other hazardous chemicals, outside CRZ Areas, the AHPPL shall consult SDMA for Disaster Management Plan.	Complied, Disaster Management Plan has been submitted to GSDMA vide letter dated 20.10.2012. Comments vide GSDMA letter No.: GSDMA / SM / Ind. Safety / 770560 dated 03.12.2012. The Revised Plan was submitted to GSDMA on 23.05.2014.
3	All necessary permissions from different Government Departments / agencies shall be obtained by M/s. AHPPL before commencing the activities.	All the statutory permissions from the concerned statutory authorities are obtained i.e.: 1. Environment and CRZ Clearance from MoEF&CC, GOI vide order No.: F.No.:11-150/2010-IA-III dated 03.05.2013. 2. PESO License from Chief Controller of Explosive, Nagpur vides Order No.: P/HQ/GJ/15/5294 (P270337), Renewed on 31.12.2015 valid till 31.12.2018. 3. License to work a Factory (Liquid Terminal) from Director of Industrial Safety and Health, Govt. of Gujarat their vide Registration No.: 3502/51410/2013 and License No.: 18757, Renewed on 09-02-2015, valid till 31.12.2016.
4	The AHPPL shall ensure that there shall be no damage to the existing mangrove patches near the site and also ensure the free flow of water to avoid damage to the mangrove.	Noted and complied with. There are no adverse impacts on mangrove as well as flow of water with respect to development activities.
5	No dredging, reclamation or any other project related activities shall be carried out in CRZ area categorized as CRZ-I (A) and it shall have to be ensured that the mangrove habitats and other ecologically important and significant areas, if any in the region are not affected due to any of the project activities.	All activities will be carried out as per CRZ clearance. No mangrove habitats and other ecologically important and significant areas are present within port limit.
6	The dredging material shall be disposed of at the location already approved by the Ministry of Environment and Forests, Government of	Dredging material is being utilized for level raising, reclamation and apart from the above activity, if any excess material

S. No.	Conditions	Compliance Status
	India.	generated will be disposed of at the location already approved by the MoEF&CC.
7	All the recommendations and suggestions given by M/s. NIO and Chola mandalam MS Risk Services Ltd, Chennai in their EIA reports for conservation / protection and betterment of environment shall be implemented strictly by M/s. AHPPL.	All the recommendations and suggestions for conservation / protection and betterment of environment are being implemented strictly.
8	The construction and operational activities shall be carried out in such a way that there is no negative impact on mangroves, if any and other important coastal / marine / habitats. The construction activities shall be carried out only under the guidance / supervision of reputed institute / organization.	There are no other important coastal / marine / habitats presents within the port limit. The Port development work is supervised by Gujarat Maritime Board (GMB) and the progress report of Port development activities are regularly submitted to GMB.
9	M/s. AHPPL shall strictly ensure that no creeks or rivers are blocked due to any activity at Shipyard.	All the activities are carried out as per EC & CRZ clearance and no creeks are blocked due to development activities. Shipyard is not envisaged in our proposal.
10	The construction debris and / or any other type of waste shall not be disposed of into the sea, creek or in CRZ areas. The debris shall be removed from construction site immediately after the construction is over.	Noted and complied.
11	The construction camps shall be located outside the CRZ area and the construction labour shall be provided with the necessary amenities, including sanitation, water supply and fuel and it shall be ensured that the environmental conditions are not deteriorated by construction labours.	Labour camps are located outside the Coastal Regulation Zone areas.
12	M/s. AHPPL shall prepare and regularly update their Local Oil Spill Contingency and Disaster Management Plan in consonance with National Oil Spill and Disaster Contingency Plan and shall submit the same to this department after having it vetted through Indian Coast Guard.	Oil Spill Contingency Plan has been prepared and the same was approved/vetted by Indian Coast Guard (Letter No.: 7563, dated 09.01.2014). Disaster Management Plan has been submitted to GSDMA vide letter dated 20.10.2012. Comments vide GSDMA letter No.: GSDMA / SM / Ind. Safety / 770560 dated 03.12.2012. The Revised Plan was submitted to GSDMA on 23.05.2014.
13	M/s. AHPPL shall bear the cost of external agency that may be appointed by this department for supervision / monitoring of proposed activities and the environment impact of the proposed activities.	Noted.
14	The jetty and most of the approach would be supported on piles allowing adequate flow of water without significant obstruction.	Jetty approach is supported by piles allowing adequate flow of water.
15	The ground water shall not be tapped within	No Ground water is tapped within in CRZ

S. No.	Conditions	Compliance Status
	the CRZ areas by the AHPPL to meet with the water requirements in any case.	area.
16	M/s. AHPPL shall take up massive greenbelt development activities in consultation with Forest Dept. / GEER Foundation / Gujarat Ecology Commission. A comprehensive plan for this purpose has to be submitted to the Forests and Environment Department.	Company has set up dedicated greenbelt area for plantation at periphery / avenue plantation / landscaping etc.
17	Mangrove plantation in 200 Ha. shall be carried out in consultation with Gujarat Ecology Commission / Forest Dept. by M/s. AHPPL with in a period of two years from the issuance of CRZ clearance by MoEF, Gol and an action plan in this regard shall be submitted to this Department along with satellite images and GPS readings with Latitudes and Longitudes.	Company has carried out mangrove afforestation in an area of 200 hectares i.e.: 50 hectares in Kantiyajal and 150 hectares in Village Nada-Devla of District - Bharuch and same is completed.
18	The AHPPL shall have to take up bio-shielding development programme as part of CSR in consultation with Forest Department / PCCF and action plan in this regard shall have to be submitted to the MoEF - Gol and this Department.	Communication has been initiated with PCCF, Forest Dept., GoG vide our letter 29 th May, 2012 and District Forest Officer, Surat Forest Range vide our letter dated 05 th May, 2014. Proposal has now been discussed with local NGO and LOA has been issued. Further feasibility assessment for site identification is under progress.
19	M/s. AHPPL shall have to contribute financially for taking up the socio-economic upliftment activities in this region in consultation with Forest and Environment Dept. and the District Collector / District Development Officer.	CSR activities are planned at group level by Adani Foundation in four verticals i.e.: Education, community health, sustainable livelihood and rural infrastructure development. Appropriate financial contribution is being made. Schemes promoted by District Authorities and Forest & Environment Department, GoG are also included.
20	A separate budget shall be earmarked for environment management and socio-economic activities including green belt development / mangrove plantation and details thereof shall be furnished to this Department as well as the MoEF, Gol. The details with respect to the expenditure from this budget head shall also be furnished along with the compliance report.	<ul style="list-style-type: none"> • Environmental Management Plan is in place and the funds earmarked are being utilized for effective implementation of environmental safeguards and environment monitoring. Key components are Environment monitoring, Mangrove plantation, environmental studies etc. • Details of budget & expenditure for Environment Management for the Financial Year: 2015-16 is enclosed as Annexure-5. • CSR activities are planned at group level by Adani Foundation in four verticals i.e.: Education, community health, sustainable livelihood and rural infrastructure development. • Details of the CSR activities for the Financial Year: 2015-2016 with number of beneficiaries and

S. No.	Conditions	Compliance Status
		expenditure is enclosed herewith as <u>Annexure-3.</u>
21	A separate Environment Management Cell with qualified personnel shall be created for environmental monitoring and management during construction and operational phases of the project.	Environment Management Cell has been set up with qualified staff to ensure the effective implementation of environmental safe guards.
22	Environment Audit Report including the changes, if any, with respect to baseline environmental quality in the coastal and marine environment shall be submitted every year by M/s. AHPPL to this Department as well as MoEF, Gol.	Regular environment monitoring is being done by MoEF&CC and NABL accredited laboratory and reports are submitted to MoEF&CC, Gol along with half yearly compliance report. No significant changes observed with respect to baseline.
23	A six monthly report on compliance of the conditions mentioned in this letter shall have to be furnished by M/s. AHPPL on a regular basis to this Department as well as MoEF, Gol.	Noted and complied with.
24	Any other condition that may be stipulated by this Department / MoEF, Gol from time to time for environment protection / management purpose shall have to be complied with by M/s. AHPPL.	Noted.

APPENDIX - 2

Appendix - 2: Compliance to the conditions stipulated in letter dated 19th February, 2007 for amendment in certain conditions of CRZ/Environmental Clearance issued on 03rd May, 2003

S. No.	Stipulated Conditions	Compliance Status
A.	SPECIFIC CONDITIONS	
6(a)	M/s. HPPL should undertake compensatory mangrove plantation in 200 ha. While 250 ha fresh mangrove plantation should be done by M/s Niko Resources Limited. The mangrove afforestation programme of 450 ha by the HPPL and Niko resources will be monitored by the sub-Committee constituted by the NCZMA and report to the Chairman periodically.	Till date HPPL has carried out Mangrove afforestation in an area of 1371 hectares in Hazira peninsula with support of local communities. Out of which 300 hectares in Karanj area is being managed by Gujarat Ecology Commission (GEC).
6(b)	The yearly monitoring of the afforestation programme of mangrove will be also be carried out through time series satellite imagery in 1:25,000 scale by the respective units and submit a monitoring report to the NCZMA.	Latest report on mangrove afforestation monitoring by using remote sensing techniques from November to December, 2015 satellite data images was submitted to Principal Secretary, Forest and Environment Department, Gandhinagar vide letter No.: HLPL/HSE/ECR/Port/ 2016/1 dated 11 th March, 2016.

ANNEXURE - 1

Annexure - 1: Copy of Consent to Establish issued by GPCB dated 13/01/2016

GUJARAT POLLUTION CONTROL BOARD
PARYAVARAN BHAVAN
Sector-10-A, Gandhinagar-382 010
Phone : (079) 23226295
Fax : (079) 23232156
Website : www.gpcb.gov.in
BY R.P.A.D.
**"Consent to Establish"
(CTE-74330)**
NO: GPCB/CCA-SRT-1314(6)/ID_35352/341517
**To,
M/s. Adani hazira Port Pvt. Ltd.
Near Hazira LNG Pvt. Ltd.,
Hazira:- 394270,
Tal:- Chorasi, Dist:- Surat.**
**Sub : Consent to Establish (NOC) Amendment under Section 25 of Water Act 1974
and Section 21 of Air Act 1981**
Ref: 1) Your application no. 96645 received Dated . 01/08/2015

Without prejudice to the powers of this Board under the Water (Prevention and Control of Pollution) Act-1974, the Air Act-1981 and the 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-Amendment** for setting up of an industrial plant/activities at **Near Hazira LNG Pvt. Ltd., Hazira:- 394270, Tal:- Chorasi, Dist:- Surat.** for the manufacturing of the following items. -

Sr. No.	Type Of Cargo	Existing Quantity (MMTPA)	Additional Quantity (MMTPA)	Total Quantity (MMTPA)
1.	Containers	1.5	12.9	14.40
2.	Coal	10.4	0	10.4
3.	Steel	6.2	0	6.2
4.	Other Dry Bulk			
5.	Automobiles	0.1	0	0.1
6.	Liquid	1.95	3.05	5
7.	Total	20.15	15.95	36.1

SUBJECT TO THE FOLLOWING CONDITIONS: -

1. The validity of this order will be up to five years i.e. 22/11/2020.

CONDITIONS UNDER WATER ACT 1974:

1. The quantity of the industrial effluent to be generated and discharge from the manufacturing process and other ancillary industrial operations shall not exceed **125 KL/Day.**
2. The quantity of domestic waste water shall not exceed **950 KL/Day.**
3. The quantity of water to be used for Process and other ancillary industrial operation shall not exceed **1975 KL/Day.**

THE CONDITIONS UNDER AIR ACT 1981 shall be read as:

4. The following shall be used as fuel only in D.G. Set (Stand By).

Sr.No.	Fuel	Total Quantity
1	FO/HSD	46 Lit/hr
2	Diesel	7176/Day

M/s. Adani hazira Port Pvt. Ltd. ID_35352

Clean Gujarat Green Gujarat
ISO - 9001 - 2008 & ISO - 14001 - 2004 Certified Organisation

5. The applicant shall install & operate a comprehensive adequate air pollution control system in order to achieve prescribed norms.
6. The flue gas emission through Proposed D.G. Sets stack shall conform to the following standards:

Stack No.	Stack attached to	Stack height in Meter	Parameters	Permissible Limit
1.	2 Nos. HAG (4,00,000 Kcal/hr)	30	PM SO ₂ NO _x	150 mg/NM ³ 100 ppm 50 ppm
1.	D.G. Set - 3No. (Stand By) (625 KVA, 380 KVA, 200 KVA)	11 (each)	PM SO ₂ NO _x	150 mg/NM ³ 100 ppm 51 ppm

7. 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.
8. Ambient air quality within and outside the premises of the unit shall conform National Ambient Air Quality standards notified by MOEF vide notification dated 16/11/2009 and mainly to the following standards:-

Sr. No.	Pollutant	Time Weighted Average	Concentration in Ambient air
1.	Sulphur Dioxide (SO ₂), µg/M ³	Annual 24 Hours	50 80
2.	Nitrogen Dioxide (NO ₂), µg/M ³	Annual 24 Hours	40 80
3.	Particulate Matter (Size less than 10 µm) OR PM ₁₀ µg/M ³	Annual 24 Hours	60 100
4.	Particulate Matter (Size less than 2.5 µm) OR PM _{2.5} µg/M ³	Annual 24 Hours	40 60

9. The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75dB(a) during day time and 70 dB (A) during night time. Daytime is reckoned in between 6a.m. and 10 p.m. and nighttime is reckoned between 10 p.m. and 6 a.m.
10. The applicant shall provide proper ventilation and exhaust facilities so as to maintain healthy working atmosphere within the factory premises.

CONDITIONS UNDER HAZARDOUS WASTE :

11. Applicant shall have to comply with provisions of Hazardous Waste (Management & Handling & trans boundary Movement) Rules-2008 as amended from time to time.
- 11.1 The applicant shall obtain membership of common TSDF site for disposal of Haz. Waste as categorized in Hazardous Waste (Management & Handling & trans boundary Movement) Rules-2008 as amended from time to time.
- 11.2 The applicant shall obtain membership of common Haz. Waste incinerator for disposal of incinerable waste.

M/s. Adani hazira Port Pvt. Ltd. ID_35352



- 11.3 The applicant shall provide temporary storage facilities for each type of Haz. Waste as per Hazardous Waste (Management & Handling & trans boundary Movement) Rules-2008 as amended from time to time

GENERAL CONDITION :

12. Adequate plantation shall be carried out all along the periphery of the industrial premises in such a way that the density of plantation is atleast 1000 trees per acre of land and a green belt of 3 meters width is developed.
13. 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.
14. 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.
15. 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.
16. The applicant also comply with the General conditions as per Annexure - I attached herewith (No.1 to 38) (whichever applicable).
17. 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)
18. Applicant is required to comply with the manufacturing, Storage and Import of Hazardous Chemicals Rules-1989 framed under the Environment (Protection) Act-1986.
19. 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**


**(K.C.Mistry)
Senior Environmental Scientist**

COPY TO: 1. Unit II

M/s. Adani hazira Port Pvt. Ltd. ID_35352

ANNEXURE - 2

Annexure-2: Action plan and compliance status on the issues raised during the public hearing

S. No.	Details of Representation	Response from M/s. AHPPL	Compliance Status
1	On behalf of Hazira village, I welcome the expansion project of M/s. Adani Hazira Port Pvt. Ltd. at Hazira. Priority will be given to thousands of people of Hazira and surrounding villages for transport, business and employment opportunities. Company has provided training to the people of Hazira and surrounding villages for crane operation at Mundra and given employment as crane operator at Hazira Port.	Rohitbhai, we are happy to note that on behalf of Hazira gram panchayat you have given warm welcome for this project. We whole heartedly thank you for this gesture. We assure you that our conduct and approach in managing activities would be in reciprocation to your welcome.	Closed.
	I believe that company will install latest technology for pollution control. Proposed project will surely care for human life. Due to proposed port Hazira people will surely get water, health and education facilities. I request that company would take required precautions for accident prevention and safety. Adani Foundation has provided required support as and when needed by Hazira village. I request that fishermen's concerns be taken care.	Port Business consists of handling of cargo and port business is a service industry not any process industry as there is no processing involved in port activities. We will ensure the pollution levels are within limit. As part of Adani Foundation CSR Activities are already in place and to provide support to fisher folks. Adani foundation intends to improve their livelihood and propose the following steps: 1). Fishermen Equipment Aid Scheme, 2). Equipment's worth Rs. 15 lacks for support programme, 3). Education and awareness through Video shows, 4). Exposure Visit Safety measures for workman ship is also already in place and implementation of the same is being driven by Health & Safety Department.	There is no adverse effect on Environment observed and the pollution levels are within limit. The results of Environmental Monitoring conducted by MoEF recognized agency are regularly submitted to concerned authorities. Adani foundation is taking care of CSR activities in and around surrounding area. Details are submitted along with compliance report. Please refer the Annexure - 3 .
	I welcome this port as we are getting transport related business opportunities and we hope that same would be continued in future.	Adani will continue to give priority to locals for transportation business.	Preference is given to local transporters.
	Please clarify how much priority will be given to people from Hazira and surrounding areas for employment.	First preference will be given to Hazira and surrounding areas villagers for employment provided candidates satisfy qualification and medium of	AHPPL has always given employment priority to local qualified persons and in future the same will be

S. No.	Details of Representation	Response from M/s. AHPPL	Compliance Status
		experience requirements.	continued.
	Forest land is also requested for development of port at Hazira. So kindly clarify for compensation/afforestation.	As part of State CRZ recommendation competent authority has advised us to do mangrove plantation to the tune of 200 ha. on obtaining Environment Clearance (EC). We will comply the same on obtaining EC.	M/s. AHPPL has developed mangrove plantation on 200 ha. area i.e.: 50 ha. in Kantiyajal and 150 ha. in Village Nada-Devla of District - Bharuch.
	Please clarify what arrangements have been made by company if calamities like Tsunami, Earthquake or Flood arise after implementation of the proposed project.	In the context of natural calamities, we have done modeling studies to understand the risk of oil spillage. We have also prepared Disaster Management Plan. This plan is being presented to the District Collector. After his approval it will go to State Disaster Management Authority at Gandhinagar for necessary approval and guidance. During natural calamities all local industrial units and government organizations work together to mitigate impacts of natural calamities. In that situation we would work under the guidance of District Collector and police authorities to do the needful. Disaster Management Plan is structured in such a way.	Disaster Management Plan has been submitted to District & State Authorities vide letter dated 20.10.2012. Suggestions / comments received from authority vide letter No.: GSDMA/ SM/ Ind. Safety/ 770560 dated 03.12.2012. Suggestions are incorporated and revised plan has been submitted to GSDMA on 23.05.2014. GSDMA has also prepared a comprehensive Disaster Management Plan for entire Hazira Region.
2	We welcome this public hearing. It is good that you are giving preference to local affected people and hearing them during public hearing. We don't have any objection against the development of Adani Group along with other industrial development in Hazira leading to development of Gujarat and the Nation. Adani company is complying with the environmental laws promulgated by the State and Union Government. In fact, it is duty of Adani Port to do so. Under their CSR activities Adani Group should provide	Thanks for welcoming our project. CSR Activities are already in place by Adani Foundation. We also ensure that priority will be given for employment to local's people and provide business opportunities to small & big local transporters. For affected Fisherman Youth Adequate training will be given and based on performance during training, employment preference will be given. National Highway - 6 is being widened. On completion of widening the	AHPPL has always given employment priority to local qualified persons and in future the same will be continued. No fishing activity has been affected by the port. However, we are always ready to give required training to fishermen or any other persons as per their needs. Adani Foundation is taking care of

S. No.	Details of Representation	Response from M/s. AHPPL	Compliance Status
	support for development of Hazira village and employment to unemployed people. All transport businesses should be given to small & big local transporters of Hazira only. Youth from families of affected fishermen should be provided required training and employment. New transport route should be proposed as the present route to take containers is very narrow.	constriction and congestion that we see today will be behind us. As mentioned in the EIA in the first 5 years of the multi cargo port maximum number of 1200 trucks is expected to ply in the national highway connecting the port. After the railway line is developed and the trains start plying 60% of the transportation load will be conveyed through rail transport only 40% will come on the national highway. That is a moderate load.	training programs under our CSR activities. The Hazira bypass Road is now taken over by NHAI and upgraded to four lanes. Additionally, AHPPL is planning to transport cargo through dedicated Rail Route. The development work of Rail corridor is under process in consultation with Govt. Agencies.
	We thank Adani Group for giving support for the construction of classrooms for standard 11 & 12 in Navchetan school.		Closed.
	I thank you for making me successful in providing compensation to the affected fishermen.		Closed.
	I request for employment to locals people and transport contract to local transporters only. We support the development of Adani Port in our area. We don't have any objection to the project in this public hearing.		AHPPL has always given employment priority to local qualified persons and in future the same will be continued.
3	As this is biggest port in the South Gujarat and as there is no government land left, we wish that there will not be resettlement of the Junagam village due to this proposed expansion project of Adani Port. There is a fear in the people of the village that they will have to vacate the village in future. So we request collector to give us guarantee in writing that we will be able to live with peace where we are today.	We want to assure you that we do not intend to take any private land of farmers or any house site land. If you carefully see the development plan we have just presented, the map will alleviate your uncalled fears. There would not be any question of rehabilitation of any village. Moreover, we will take care that your property, your assets and convenience are not jeopardized by our action.	There is no R&R factors involve for development of Port. The entire port is being developed on reclaimed land allotted by Government.
	Berths will be developed through dredging up to -15 meters. We are getting ground water from the depth of 20 to	Dredging activity is carried out in marine area i.e. sub tidal area and not in terrestrial part. Dredging is	Ground water quality in vicinity of the project is being monitored by

S. No.	Details of Representation	Response from M/s. AHPPL	Compliance Status
	65 ft in some of the areas, which we are using for drinking purpose. What will be the impact on the ground water due to dredging up to -15 meters?	limited to turning circle and basin area. Due to this ground water is not going to be polluted in any way.	MoEF&CC and NABL accredited laboratory. There is no adverse impact observed on ground water quality.
	After construction of liquid berth No.: 3 which will handle & store 1.95 Million Tones by 2017-18, what emergency steps would be required to save the human life incase just like Bhopal if there will be gas leakage due to Tsunami, Earthquake or terrorist activities.	In the context of natural calamities, we have done modeling studies to understand the risk of oil spillage. We have also prepared Disaster Management Plan. This plan is being presented to the District Collector. After his approval it will go to State Disaster Management Authority at Gandhinagar for necessary approval and guidance. During natural calamities all local industrial units and government organizations work together to mitigate impacts of natural calamities. In that situation we would work under the guidance of District Collector and police authorities to do the needful. Disaster Management Plan is structured in such a way.	Disaster Management Plan has been submitted to District & State Authorities vide letter dated 20.10.2012. Suggestions / comments received from authority vide letter No.: GSDMA/ SM/ Ind. Safety/ 770560 dated 03.12.2012. Suggestions are incorporated and revised plan has been submitted to GSDMA on 23.05.2014. GSDMA has also prepared a comprehensive Disaster Management Plan for entire Hazira Region.
	We welcome Adani Port & they require land for the container and coal storage. However, all industries located in the Hazira area have acquired government land and another 2000 acre land is allotted to tourism department. Sir therefore, I request you to declare remaining land of Junagam, Suvali, Damka & Batlai as residential area or agricultural zone. This is to ensure that in future we will not be displaced. As the port is to be constructed at the coast line, there are chances of spillage of liquid into sea and impact of solid hazardous waste. In this condition explain plan to mitigate impact on fisher man community.	Thanks for welcoming our project and as we mentioned above we are not going to acquire any land apart from our port layout area mentioned in EIA report. So far as declaring rest of Govt. land as residential and agricultural zone is concerned authorities may take a call on it, which is not in our control. Our Oil Spill Response Plan and Disaster Management plan is addressed to above questions and fisherman community our CSR activities are addressed in response to Rohitbhai Jayantibhai Patel, Sarpanch, Hazira.	Closed.

S. No.	Details of Representation	Response from M/s. AHPPL	Compliance Status
	Secondly there is a question of unemployment of the youth of the Hazira area. As told by the company 700 people will be employed, youth from local families presently engaged in farming, animal husbandry and fisheries should be trained. Due to development of the port people from different states of India will come and therefore, there are chances of crime such as gang rape, hooliganism and terrorist attack. Is there any plan to control these potential evils? Training to unemployed women and employment is being planned. In future we and Adani Port would like to work together with full cooperation. On behalf of Junagam village and villagers, I welcome the expansion of the terminal.	The port has opportunities for both technical and non-technical employment. Moreover indirect employment in transport and other services will also be there. All these opportunities may be taken by local residents. To facilitate them to take this opportunity we will provide necessary training to enhance their competence, so that they may not only get employment in Adani port but else were also. Some of you have expressed concern about terrorist activity creating great risk to our chemical terminals with attendant adverse consequences in our neighborhood. We are going to be ISPS compliant; as a result of this discipline only authorized persons and material can enter into the port. More over district administration and police also take precautionary measures to intercept terrorist activities. Coast guards contribute to this effort. In a sense the entire nation is collectively fighting against terrorism.	Port has obtained ISPS, NSPC and other clearances from concerned authorities. Port authority is closely coordinating with Marine Police Station to maintain law and order. No serious increase in law and order issues so far.
4	Plantation of the mangroves has been carried out between well numbers 4 to 7. This plantation has been destroyed by dredging and area is filled up.	As per Environment Clearance 2003 there were mangroves of 22 ha and it was informed to protect the same vide specific condition (vi). But an amendment was issued on 19 th Feb., 2007 for deleting the specific condition and instruction was given to HPPL to do compensatory mangrove plantation to the tune of 200 ha. AHPPL has not destroyed any mangrove directly or indirectly.	M/s. AHPPL has developed mangrove plantation on 200 hectares area i.e.: 50 hectares in Kantiyajal and 150 hectares in Village Nada-Devla of District - Bharuch.
	In this area fisherman used to catch prawns, crabs and sustain their livelihood. Through dredging company has	As above	Closed

S. No.	Details of Representation	Response from M/s. AHPPL	Compliance Status
	destroyed Mangroves.		
	There are approximately 2500 fishermen, belonging to, Halpathi and Koli Patel communities living in the village. These people will be unemployed as fishing activity will be stopped due to dredging up to 20 meter by the company. Is it development or destruction?	M/s. AHPPL had provided compensation to affected fisherman by identifying effected fisher man with the help of the Sarpanch, Hazira.	M/s. AHPPL had provided monetary help to needy fishermen who were affected by reduced catch in this area well before arrival of AHPPL by identifying effected fishermen and women with the help of the Sarpanch, Hazira. No fishing activities have been affected by dredging which is strictly as per EC.
	If fishermen get sand from the river by the boat in the Magdalla area, they have to pay royalty for the same. But why companies are given permission for dredging without royalty? What about approximately 2500 fishermen?	In regard to impact on fisherman, I want to point out the real situation that we are not in the river mouth, but just outside of it. The port development is only in a stretch of 4 km of coast line. We have not displaced any fisherman. The surrounding areas are open for fishing, Nevertheless we have compensated fisherman who were identified by the Grampanchayat to be active in the areas where we are now operating. As Sushmaben mentioned we will support fisherman by giving them tools, nets etc. and be help full to them. A charge on sand procured from riverbanks is a subject of Govt. Policy. Dredging may be treated differently because without dredging no port can be created. Moreover, reclaimed land remains under ownership of Government.	No further action required by AHPPL.
5	As our friends have already given suggestion for safety and employment, it is not required to repeat the same. Foundation should provide employment opportunity to the land looser, fisherman, individual engaged in animal husbandry who are	The port has opportunities for both technical and non-technical employment. Moreover indirect employment in transport and other services will also be there. All these opportunities may be taken	AHPPL has always given employment priority to local qualified persons and in future the same will be continued.

S. No.	Details of Representation	Response from M/s. AHPPL	Compliance Status
	above 50 years and uneducated.	by local residents. To facilitate them to take this opportunity we will provide necessary training to enhance their competence, so that they may not only get employment in Adani port but else were also.	
	Unemployed youth of this area should be provided training and given opportunity for the employment. Company should control the pollution arising due to transportation of chemical or coal. Earlier Shell company used to avoid overloading. So Adani Port should also not do the overloading to prevent the accidents. There is no medical facility available for treatment in case of emergency. As there is drought this year, company should consider providing drinking water in surrounding area.	This port will have focus on container cargo. Container cargo comes in boxes and is clean by nature. So the question of fugitive dust emission on the road is not expected to be severe for this port. The coal handling will be done taking care that all the trucks are properly covered so that there is no dust emitted on the road. As you know practically all our transporters are from this area. It is their responsibility to take care of overloading. If transporters do not overload there would not be any spillage on the roads. It is not only responsibility of GPCB or the company but we all have to collectively work together for spillage free coal transportation. We have taken note of your needs. In CSR activities we would include public health related measures.	AHPPL is following best practices of port operation to reduce pollution and prevent accidents. Port is maintaining an Occupational Health Centre with qualified officers, ambulance and proper antidotes for all types of chemicals being handled in port. Tie-up with reputed hospitals in the city exists to cater to more serious cases.
6	(During the representation of the Shri. Divyeshbhai there was an aggressive representation of Shri Jayesh Patel resident of village Dihen that he wants to present his questions. Honourable Collector replied that resident or stakeholders from affected villages should represent first. During this time Shri Jayesh Patel and his henchmen created disturbance which was controlled by Panel and then representation from Mr. Divyeshbhai continued.)		No further action required by AHPPL
	Why this public hearing is kept at Junagam even it is of Hazira Village? Now we will talk about	Public Hearing is conducted at Junagam as this location is central for all the	Closed.

S. No.	Details of Representation	Response from M/s. AHPPL	Compliance Status
	<p>the pollution. Lots of dust is observed in the houses of the hazira village during the night hours. As per information particles of dust have been found in the lungs of the woman. If this information proves to be true we will file a petition in the High Court. During the widening of the National Highway No. 6 land in the surroundings villages will be taken. As National Highway is not passing through Hazira, the villagers need to travel 8 Kilometers extra. Why it is not extended straight? Fishermen are being told that there is no fish in the sea but slabs are cast in the corners of the sea due to which some fish die. Dolphin is also found at present in the Hazira area. We welcome the project if the port company is ready to give written assurance regarding employment.</p>	<p>stakeholders and keeping in view of the convenience of all the stakeholders this site was decided duly taking an opinion of GPCB. You have informed that lots of dust is observed in the houses of Hazira. As you are aware there is a very big processing industry behind the residential area of Hazira village. Ours is a service industry which will not contribute significantly to pollution levels and our project is exactly on the sea front not very near village settlements. National Highway exists as it used to be before we started our project. We have not created any disturbance in the road network. Marine EIA does not reveal that there are Dolphins in the area. Method of our jetty construction keeps the fish out of harm's way and we have not observed any fish fatality in the jetty construction area.</p>	
7	<p>I raise my objections against proposed expansion project of AHPPL for which public hearing is organized and I request that my objections should be included.</p> <p>M/s. Shell India has got environment clearance in 2003 in which clearance was given for development of three berths. These berths are constructed at places other than shown earlier. So I request collector to remove these three berths.</p> <p>Out of proposed 7 berths for container and 4 for bulk terminal 3 have been already constructed and port is functional. In this situation I request to include in this public hearing what actions have been taken by collector against Adani for functioning of port &</p>	<p>M/s. Shell got approval for construction of 11 berths and the berths have been constructed at approved location only.</p> <p>As on date totally 5 berths are developed and this public hearing is only for one additional berth i.e. liquid terminal. Further, coal is stored in dedicated area with proper windshield arrangement to avoid blowing of coal. To avoid fine dust emission fire hydrants were arranged for regular sprinkling and to avoid fire accident two fire tenders have been arranged on permanent basis.</p>	Closed

S. No.	Details of Representation	Response from M/s. AHPPL	Compliance Status
	disposal of coal in Hazira and what actions have been taken by GPCB against company for disposal of coal in open.		
	This project is being developed on the mouth of river Tapi therefore it is my feeling and request that it should not be given Environment Clearance.	I want to point out the real situation that we are not in the river mouth, but just outside of it.	No further action required by AHPPL.
	EIA study does not include the objections of the report of Sugnaben Commission which was set up by Gujarat Government in 2006 in the aftermath of Surat flood.	The report objects only to construction that may potentially obstruct seaward flow in Tapi River. Our port is so located that it cannot have any such effect.	No further action required by AHPPL.
	Hazira is located on the mouth of Vindhola & Tapi river. As per ICMAM report of Tapi river, erosion effect had spread up to Dumas because of filling of Tapi river due to Industrialization in this area. Erosion of shore is up to 2500 m towards Dumas. ICMAM report is not studied. There is no clarity on what steps are required to control the erosion of shore near Dumas, so it is my request that it should not be given Environment Clearance.	We have done modeling of all activities in marine area. There is not even any remote chance of this port construction leading to erosion in Dumas. These are disjoint or unconnected matters.	No further action required by AHPPL.
	This area is declared reserved for vultures. As per survey there are about 150 vultures in the forest area. This report does not include what would happen to vultures, where they would go and what would be impact on Environment. So it is my request that it should not be given Environment Clearance.	The figures are exaggerated beyond proportion. Forest department survey vulture population periodically. This area is not identified by forest department to be eco-sensitive from that prospective.	No further action required by AHPPL.
	There are approximately 2500-3000 fishermen families. There will be crisis for their livelihood. There is no clarity for rehabilitation and resettlement from Adani. So it is my feeling and request that it should not be given Environment Clearance.	In regard to impact on fisherman, I want to point out the real situation that we are not in the river mouth, but just outside of it. The port development is only in a stretch of 4 km of coast line. We have not displaced any fisherman. The surrounding areas are open for fishing. Nevertheless we have compensated fisherman who were identified by the	AHPPL has supported fishermen by providing them tools and net.

S. No.	Details of Representation	Response from M/s. AHPPL	Compliance Status
		Gram Panchayat to be active in the areas where we are now operating. As Sushmaben mentioned we will support fisherman by giving them tools, nets etc. and be help full to them	
	Routes to sea are almost closed specifically for Pagadia fishermen who do fishing on foot. There is a big problem of their livelihood. Due to loss of fishing activities now they will not get thousands of crores of rupees which they were supposed to get due to fishing activities. Rs. 15 lacs are not sufficient compensation for that.	The compensation is appropriate because nobody deprived of livelihood & fishing can be continued. Fish catch in the area used to be scanty. Mudskippers do not fetch good market price. Your claims are factually incorrect.	No further action required by AHPPL.
	This area comes under CRZ-IA. Specific fish called "Levta" grows in the mudflat and fishermen catch that fish in this mud and earn their livelihood. Due to excavation and reclamation there will be damage to biological mud and destruction of marine ecology. EIA report does not have clarity on what actions are required. So it is my feeling and request that it should be clarified in EIA report or not be given Environment Clearance.		No further action required by AHPPL.
	Before Adani came there was mangrove forest in the area of 40 ha. As per survey today mangroves survive in the area of 15 ha only. Due to destruction of mangrove there will be damage to environment and coastal erosion. This study in not covered in EIA so it is my feeling and request that it should not be given Environment Clearance.	It is clearly shows that whatever allegation made against project is with half knowledge or due to vested interest. There are no mangroves within the port limit. There used to be a mangrove patch of 22ha and the same was reclaimed by M/s. HPPL with due permission of MoEF dated 19 th Feb.' 2007. When Adani took position of the site there was not even single mangrove tree available within port limit.	No further action required by AHPPL.
	Five ports from 15 different companies and two big ports within 5 Km is coming in this area. The cumulative impact on road & rail transport due to	There are no five ports in the area, though there are isolated captive jetties in the Tapi River. We are outside river mouth. In fact	No further action required by AHPPL

S. No.	Details of Representation	Response from M/s. AHPPL	Compliance Status
	operation of both ports i.e. Adani & Essar is not studied while preparing the impacts on land environment. Six-lane-road is also not going to be sufficient for this. So I request that Environment clearance should be given only after doing cumulative study.	there are only two ports Magdalla & Hazira.	
	As reported levels of SS & PHC is high as compared to desired levels in water. Levels of pollution in the areas of water, air and land is already high as compared to other locations in the country. EIA report does not have clarity on what steps will be taken to bring down the pollution. So it is my feeling and request that it should not be given Environment Clearance. (It is to be noted that Mr. Jayshbhai Patel belongs to Dihen village which is approx. 18 Km away from the port)	In Marine EIA & Terrestrial EIA reports, it is clearly mentioned the baseline date, Pollution levels are within the limit, except AAQ recorded high in Hazira village that is due to other industrial activities.	Closed.
8	Employment is given to 30-35 people in the form of contract but we insist that it should be permanent in nature.	Though employment was given on contract basis, his/her performance will be rated based on the performance decision would be taken.	Closed.
	For this liquid cargo transport, it will be storage of chemicals or processing of chemicals? If it is processing then hazards will increase so I request to provide information on what measures Adani will take for health and safety?	There is no processing envisaged in the project. It's a commercial port and we are entitled to only handle the commodities. However Oil spill response plan and Disaster Management Plan is in place. Please refer to earlier responses given to other stakeholders.	Closed.
	Please provide information if this project has got any clearance from Central Government like what they have got from State Government.	M/s. HPPL received Environment Clearance in 2003 and further amendment in 2007. The same is transferred to AHPPL. Further our project received Consent to Operate for based on 2003 EC from GPCB. Also received GCZMA recommendations.	Closed.
	Adani has declared only 4-5 villages as affected. Will there	EIA shows and we believe there would be no	Closed.

S. No.	Details of Representation	Response from M/s. AHPPL	Compliance Status
	not be any impact on Mora, Kawas or Interior of Ichhapur while trucks pass through them?	significant impact in Mora, Kawas and Ichhapur.	
	There are 10-12 big companies in this area and they have developed residential township with all facilities for their employees. Is it not possible that each company will take one village from 10-12 villages and also provide them same facilities?	This suggestion you might like to address to Hazira Area Development Authority.	No further action required by AHPPL.
	For this MOU is necessary and matters related to self-employment & development of village should be mentioned. We will be benefited in future only if there will be MOU. (It is to be noted that Mr. Dhansukhbhai Patel belongs to Kawas Village which does not fall within 10 Km. radius of the study area)	This matter should be addressed by Hazira Industrial Development Authority. Who alone can bring all the developers & Industrial units into a common platform	No further action required by AHPPL.
9	I welcome the expansion project of Adani company. Due to proposed port priority would be given to Hazira and surrounding area for employment and business. I request that fishermen's concerned would be taken care by this project. Adani Foundation of Adani Company has given commitment for the various activities for the development of village. So I welcome the project and declare my support for the Port of Adani Company at Hazira.	Thanks for your support all the concerns raised by you are responded by us in above raised queries. Hope no need to repeat the same.	Closed.
10	(Collector informed Mohanbhai to raise those issues only which were not raised earlier) Adani Company has told that 700 people will be employed. Please clarify whether it will be permanent or contractual basis? Thousands of people are working on contractual basis in the surrounding companies but nobody gets permanent employment.	This number includes both permanent and contractual employees. Part of staff workers requirement is of temporary nature. Our recruitment would be need based.	
	Then Regional Officer, GPCB again informed the concerned persons to raise other issues if	Our port is a commercial port and it is not envisaged or allowed it for captive	Status unchanged no agriculture land or private land is

S. No.	Details of Representation	Response from M/s. AHPPL	Compliance Status
	any. The employment issue will be addressed by the company. As per survey carried out by NIO out of 1600 km. of Gujarat coast nearly 25% is already filled due to construction of ports at other places. As a consequence of this, there will be huge damage to agriculture in the surrounding area and there would also be ingress of sea water in the area.	operations. This port water front area covers hardly 4 Km. stretch.	required for port development nor affected by same.
	Adani Company has decided to pay compensation of Rs. 15 Lacs to 40 fishermen but what arrangement company will make for the 4000 fishermen in the surrounding villages?	Company is talking about the fisherman's who were active in our port premises area and AHPPL is not responsible for entire fisher folks in 10 Km radius. AHPPL is not stopping them do fishing in other areas.	There are no R&R activities required on account Port Project. Adani Foundation is working at reskilling of marginal fishermen as CSR activities. Fishing is not affected due to port project.
	Adani Company is developing their project on 31428 ha of land. Is this land private or government? If it is on private land then whole Junagam village would be vacated. Survey numbers are also not shown for this land. (It is to be noted that Mr. Mohanbhai Patel belongs to Vaswa village which does not fall within 10 Km radius of the study area)	Please see our port layout in EIA report which clearly indicates total area required for development is 873.27 Hectors and not even single private property is falling within the port development area.	Closed.
11	You all will go away after this public hearing but whom should we contact regarding pollution in our area? Then Collector informed him that regarding pollution he may contact GPCB. Regional Officer, GPCB also informed him that regarding pollution he can submit in writing.	Assurances that we give today would be lasting and not fickle.	Closed.

ANNEXURE - 3

Annexure - 3: Details of CSR Activities

Adani Foundation is working as a CSR wing of Adani Groups in the four major areas; they are Education, Health, Sustainable Livelihood and Rural Infrastructure Development. Following activities has been taken-up during the FY: 2015-16.

S. No.	Contents	Domain	Beneficiaries
1.	Praveshotsav (Strengthening Pragna Project)	Education	1586
2.	Aanganwadi Support Program	Education	2841
3.	Material Support to Needy Children	Education	303
4.	BaLA Project	Education	358
5.	De-Addiction Rehabilitation Support	Community Health	11
6.	Special Medical Camp for Malnourished Children	Community Health	189
7.	SHG Support Activity (Diwali-Kit)	Sustainable Livelihood Development	10
8.	SHG Support Activity (Essar Stall)	Sustainable Livelihood Development	10
9.	SHG Support Activity (SARAS Mela)	Sustainable Livelihood Development	10
10.	SHG Support (Rajagiri Stall)	Sustainable Livelihood Development	5
11.	SHG Training on Financial Literacy	Sustainable Livelihood Development	39
12.	Frisbee Team Support	Sustainable Livelihood Development	14
13.	Water Facility at Hazira Site School	Rural Infrastructure Development	325
14.	Rajagiri Awas	Rural Infrastructure Development	30
15.	Sunvali Awas	Rural Infrastructure Development	35
16.	Vansawa Awas	Rural Infrastructure Development	50
17.	Gram Panchayat Building - Hazira	Rural Infrastructure Development	16726
18.	Gram Panchayat Building – Junagam	Rural Infrastructure Development	4825
19.	Multi-Purpose Hall - Tena	Rural Infrastructure Development	1976

Details of the Budget and Expenditure for the FY: 2015-16 is given in table below:

S. No.	Activity	Budget FY 15-16 (INR in Lakh)	Expenditure (INR in Lakh)
1	Education	49.00	35.25
2	Community Health	6.00	0.91
3	Sustainable Livelihood Development	59.50	0.52
4	Rural Infrastructure Development	207.00	153.91
5	Admin and other Expenses	14.91	15.60
Total Amount (INR In Lakhs)		336.41	206.19

ANNEXURE - 4

Annexure - 4: Environmental Monitoring Report For The Period October, 2015 To March, 2016

A. AMBIENT AIR QUALITY MONITORING: -

Table No.: 1.1 - Ambient Air Quality Monitoring Results For PM₁₀ (µg/m³):

Date Of Sampling	Near Port Gate No. - 2	Near STP	Central Water Pump House	Container Terminal	Hazira Village
	N 21° 05.426' E 72° 37.739'	N 21° 05.211' E 72° 38.605'	N 21° 04.697' E 72° 38.420'	N 21° 05.187' E 72° 37.774'	N 21° 05.44' E 72° 38.44'
01.10.2015	78.52	84.51	72.39	68.30	90.99
02.10.2015	84.37	90.29	65.13	59.80	78.40
08.10.2015	92.28	71.52	79.43	84.32	96.51
09.10.2015	86.71	69.42	56.40	70.49	79.51
15.10.2015	70.50	86.52	78.21	69.31	92.42
16.10.2015	87.38	91.39	64.20	57.22	82.40
22.10.2015	68.41	83.73	58.63	90.52	76.39
23.10.2015	77.51	94.10	61.51	72.52	86.77
29.10.2015	89.52	78.59	56.49	84.52	93.38
30.10.2015	76.51	69.39	60.51	54.43	85.43
05.11.2015	72.49	90.80	62.72	95.49	83.58
06.11.2015	67.50	73.38	88.47	61.24	75.28
09.11.2015	85.58	91.22	78.14	72.95	93.39
10.11.2015	95.39	79.31	60.16	83.55	88.59
19.11.2015	76.51	96.21	67.71	62.68	80.43
20.11.2015	82.49	70.63	76.55	58.38	94.13
26.11.2015	91.21	86.51	59.22	68.58	85.41
27.11.2015	74.01	93.59	84.41	73.32	89.61
03.12.2015	94.40	71.09	57.77	75.19	83.72
04.12.2015	82.41	87.79	75.60	58.60	95.29
10.12.2015	75.32	90.80	81.60	68.51	85.92
11.12.2015	88.43	70.60	64.76	52.62	94.19
17.12.2015	95.47	82.60	53.58	74.19	88.72
18.12.2015	77.60	58.49	67.42	82.49	91.40
24.12.2015	90.59	73.52	78.42	64.47	82.57

Date Of Sampling	Near Port Gate No. - 2	Near STP	Central Water Pump House	Container Terminal	Hazira Village
	N 21° 05.426' E 72° 37.739'	N 21° 05.211' E 72° 38.605'	N 21° 04.697' E 72° 38.420'	N 21° 05.187' E 72° 37.774'	N 21° 05.44' E 72° 38.44'
25.12.2015	79.63	95.62	67.73	56.18	90.41
31.12.2015	68.68	88.71	61.26	81.59	74.63
01.01.2016	90.81	68.49	82.23	76.49	96.41
07.01.2016	80.68	73.49	56.85	65.36	89.92
08.01.2016	77.49	86.51	60.38	56.77	70.58
14.01.2016	86.51	90.72	76.44	69.54	95.28
15.01.2016	94.49	71.42	63.42	54.61	78.49
21.01.2016	76.51	65.52	55.21	71.18	83.52
22.01.2016	83.41	92.62	64.33	58.58	71.49
28.01.2016	91.51	74.47	88.44	62.53	55.72
29.01.2016	60.48	89.47	92.38	75.70	67.47
04.02.2016	88.43	82.61	76.56	70.62	63.68
05.02.2016	79.47	85.38	68.51	56.28	74.19
11.02.2016	72.82	59.27	51.30	69.19	82.29
12.02.2016	68.50	88.60	73.91	58.62	78.62
18.02.2016	75.02	68.40	86.52	71.49	80.31
19.02.2016	87.47	62.41	78.57	68.39	72.38
25.02.2016	74.52	86.81	67.52	54.19	81.40
26.02.2016	85.48	76.42	82.32	65.62	70.80
03.03.2016	90.48	65.27	72.44	55.63	85.41
04.03.2016	72.62	58.39	50.51	66.65	79.51
10.03.2016	65.38	81.11	73.63	52.52	89.51
11.03.2016	78.62	55.81	68.65	60.37	74.50
17.03.2016	92.42	85.48	79.41	58.47	81.51
18.03.2016	82.38	90.60	56.79	62.59	95.60
24.03.2016	70.50	76.53	62.51	50.27	68.50
25.03.2016	62.50	82.30	55.76	76.49	88.58
31.03.2016	84.19	79.61	71.50	65.56	92.50

Table No.: 1.2 - Ambient Air Quality Monitoring Results For PM_{2.5} (µg/m³):

Date Of Sampling	Near Port Gate No. - 2	Near STP	Central Water Pump House	Container Terminal	Hazira Village
	N 21° 05.426' E 72° 37.739'	N 21° 05.211' E 72° 38.605'	N 21° 04.697' E 72° 38.420'	N 21° 05.187' E 72° 37.774'	N 21° 05.44' E 72° 38.44'
01.10.2015	40.49	47.56	26.61	36.54	52.56
02.10.2015	47.58	52.56	30.48	22.77	43.59
08.10.2015	50.50	36.71	23.41	40.32	53.42
09.10.2015	37.56	30.45	20.44	34.44	45.73
15.10.2015	29.34	40.47	33.64	27.72	35.47
16.10.2015	38.40	46.31	24.43	30.66	42.31
22.10.2015	26.29	38.38	29.60	42.60	30.77
23.10.2015	42.57	50.48	35.78	31.50	48.29
29.10.2015	45.49	35.46	28.36	41.58	50.43
30.10.2015	35.48	29.20	24.74	20.58	39.74
05.11.2015	29.63	55.48	38.39	52.50	46.58
06.11.2015	23.37	31.70	45.50	27.41	40.60
09.11.2015	47.58	51.73	40.64	44.52	55.56
10.11.2015	57.60	45.47	37.47	40.32	50.43
19.11.2015	39.40	49.64	34.49	30.66	42.74
20.11.2015	34.64	30.45	41.45	28.56	53.42
26.11.2015	46.33	41.72	28.71	33.74	49.57
27.11.2015	36.31	52.56	44.62	38.64	45.73
03.12.2015	50.50	43.39	32.72	35.70	48.29
04.12.2015	31.72	46.72	35.34	18.56	45.73
10.12.2015	40.49	49.64	49.48	39.48	51.71
11.12.2015	49.67	42.55	36.62	24.36	56.41
17.12.2015	46.52	37.55	25.55	34.44	41.45
18.12.2015	36.73	25.45	31.41	37.38	44.44
24.12.2015	48.42	33.37	37.55	26.57	40.60
25.12.2015	38.40	55.48	30.48	23.52	52.56
31.12.2015	30.47	40.47	26.61	44.52	35.47
01.01.2016	56.76	35.46	46.68	40.74	50.43
07.01.2016	38.40	31.70	22.53	29.52	44.44

Date Of Sampling	Near Port Gate No. - 2	Near STP	Central Water Pump House	Container Terminal	Hazira Village
	N 21° 05.426' E 72° 37.739'	N 21° 05.211' E 72° 38.605'	N 21° 04.697' E 72° 38.420'	N 21° 05.187' E 72° 37.774'	N 21° 05.44' E 72° 38.44'
08.01.2016	40.49	47.56	31.36	23.52	36.75
14.01.2016	45.49	51.73	39.60	32.76	54.70
15.01.2016	51.55	33.37	27.68	24.36	39.74
21.01.2016	39.65	30.45	25.74	38.64	46.58
22.01.2016	37.56	46.72	29.60	21.51	33.76
28.01.2016	49.67	37.55	44.62	33.60	26.50
29.01.2016	26.71	52.56	47.56	39.48	31.62
04.02.2016	42.57	34.62	37.52	22.68	29.49
05.02.2016	22.54	38.38	29.60	33.74	46.58
11.02.2016	39.65	30.45	21.65	26.46	35.47
12.02.2016	28.38	36.71	31.51	23.52	39.74
18.02.2016	38.56	25.45	42.58	32.76	28.63
19.02.2016	48.42	35.46	23.56	39.48	31.62
25.02.2016	31.30	43.39	28.71	21.51	36.75
26.02.2016	36.73	31.70	40.56	25.62	27.35
03.03.2016	49.67	30.45	39.70	29.40	46.58
04.03.2016	39.65	22.53	26.51	33.32	41.45
10.03.2016	33.39	46.72	32.69	26.46	50.43
11.03.2016	42.57	29.62	38.32	35.70	33.33
17.03.2016	50.72	45.47	33.64	23.52	48.72
18.03.2016	47.58	51.73	22.69	28.56	44.44
24.03.2016	37.56	43.39	34.46	25.73	29.49
25.03.2016	29.63	48.39	25.62	42.42	52.56
31.03.2016	44.66	32.54	29.67	24.36	47.44

Table No.: 1.3 - Ambient Air Quality Monitoring Results for Lead as Pb ($\mu\text{g}/\text{m}^3$):

Date Of Sampling	Near Port Gate No. - 2	Near STP	Central Water Pump House	Container Terminal	Hazira Village
	N 21° 05.426' E 72° 37.739'	N 21° 05.211' E 72° 38.605'	N 21° 04.697' E 72° 38.420'	N 21° 05.187' E 72° 37.774'	N 21° 05.44' E 72° 38.44'
01.10.2015	BDL*	BDL*	BDL*	BDL*	0.53
02.10.2015	BDL*	0.57	BDL*	BDL*	BDL*
08.10.2015	0.50	BDL*	BDL*	0.52	BDL*
09.10.2015	BDL*	BDL*	BDL*	BDL*	BDL*
15.10.2015	BDL*	BDL*	BDL*	BDL*	0.58
16.10.2015	BDL*	BDL*	BDL*	BDL*	BDL*
22.10.2015	0.51	BDL*	BDL*	0.54	BDL*
23.10.2015	BDL*	0.56	BDL*	BDL*	BDL*
29.10.2015	BDL*	BDL*	BDL*	BDL*	BDL*
30.10.2015	BDL*	BDL*	BDL*	BDL*	BDL*
05.11.2015	BDL*	0.62	BDL*	0.58	BDL*
06.11.2015	BDL*	BDL*	BDL*	BDL*	BDL*
09.11.2015	BDL*	0.51	BDL*	BDL*	0.64
10.11.2015	0.52	BDL*	BDL*	BDL*	BDL*
19.11.2015	BDL*	0.56	BDL*	BDL*	BDL*
20.11.2015	BDL*	BDL*	BDL*	BDL*	0.54
26.11.2015	0.56	BDL*	BDL*	BDL*	BDL*
27.11.2015	BDL*	0.59	BDL*	BDL*	0.51
03.12.2015	0.52	BDL*	BDL*	BDL*	BDL*
04.12.2015	BDL*	BDL*	BDL*	BDL*	0.54
10.12.2015	BDL*	0.56	BDL*	BDL*	BDL*
11.12.2015	BDL*	BDL*	BDL*	BDL*	0.58
17.12.2015	0.64	BDL*	BDL*	BDL*	BDL*
18.12.2015	BDL*	0.62	BDL*	BDL*	BDL*
24.12.2015	BDL*	BDL*	BDL*	BDL*	BDL*
25.12.2015	BDL*	0.55	BDL*	BDL*	BDL*
31.12.2015	BDL*	BDL*	BDL*	BDL*	BDL*
01.01.2016	0.58	BDL*	BDL*	0.52	0.62
07.01.2016	BDL*	BDL*	BDL*	BDL*	BDL*

Date Of Sampling	Near Port Gate No. - 2	Near STP	Central Water Pump House	Container Terminal	Hazira Village
	N 21° 05.426' E 72° 37.739'	N 21° 05.211' E 72° 38.605'	N 21° 04.697' E 72° 38.420'	N 21° 05.187' E 72° 37.774'	N 21° 05.44' E 72° 38.44'
08.01.2016	BDL*	BDL*	BDL*	BDL*	BDL*
14.01.2016	BDL*	0.62	BDL*	BDL*	0.65
15.01.2016	0.56	0.52	BDL*	BDL*	BDL*
21.01.2016	BDL*	BDL*	BDL*	BDL*	BDL*
22.01.2016	BDL*	0.64	BDL*	BDL*	BDL*
28.01.2016	0.56	BDL*	BDL*	BDL*	BDL*
29.01.2016	BDL*	BDL*	BDL*	BDL*	0.56
04.02.2016	BDL*	0.58	BDL*	BDL*	BDL*
05.02.2016	0.52	BDL*	BDL*	BDL*	BDL*
11.02.2016	BDL*	BDL*	BDL*	BDL*	0.55
12.02.2016	0.62	BDL*	BDL*	BDL*	BDL*
18.02.2016	BDL*	0.64	BDL*	BDL*	BDL*
19.02.2016	0.54	BDL*	BDL*	BDL*	0.60
25.02.2016	BDL*	0.53	BDL*	BDL*	BDL*
26.02.2016	BDL*	BDL*	BDL*	BDL*	0.54
03.03.2016	0.58	BDL*	BDL*	BDL*	0.52
04.03.2016	BDL*	BDL*	BDL*	BDL*	BDL*
10.03.2016	BDL*	0.62	BDL*	BDL*	0.59
11.03.2016	BDL*	BDL*	BDL*	BDL*	BDL*
17.03.2016	0.72	0.54	BDL*	BDL*	BDL*
18.03.2016	BDL*	0.68	BDL*	BDL*	0.76
24.03.2016	BDL*	BDL*	BDL*	BDL*	BDL*
25.03.2016	BDL*	0.57	BDL*	BDL*	BDL*
31.03.2016	BDL*	BDL*	BDL*	BDL*	0.60

BDL*: Below Detection Limit - Lead as Pb ($\mu\text{g}/\text{m}^3$): 0.5

Table No.: 1.4 - Ambient Air Quality Monitoring Results For Benzo (A) Pyrene (BAP) - Particulate Phase Only ($\mu\text{g}/\text{m}^3$):

Date Of Sampling	Near Port Gate No. - 2	Near STP	Central Water Pump House	Container Terminal	Hazira Village
	N 21° 05.426' E 72° 37.739'	N 21° 05.211' E 72° 38.605'	N 21° 04.697' E 72° 38.420'	N 21° 05.187' E 72° 37.774'	N 21° 05.44' E 72° 38.44'
01.10.2015	BDL*	BDL*	BDL*	BDL*	BDL*
02.10.2015	BDL*	BDL*	BDL*	BDL*	BDL*
08.10.2015	BDL*	BDL*	BDL*	BDL*	BDL*
09.10.2015	BDL*	BDL*	BDL*	BDL*	BDL*
15.10.2015	BDL*	BDL*	BDL*	BDL*	BDL*
16.10.2015	BDL*	BDL*	BDL*	BDL*	BDL*
22.10.2015	BDL*	BDL*	BDL*	BDL*	BDL*
23.10.2015	BDL*	BDL*	BDL*	BDL*	BDL*
29.10.2015	BDL*	BDL*	BDL*	BDL*	BDL*
30.10.2015	BDL*	BDL*	BDL*	BDL*	BDL*
05.11.2015	BDL*	BDL*	BDL*	BDL*	BDL*
06.11.2015	BDL*	BDL*	BDL*	BDL*	BDL*
09.11.2015	BDL*	BDL*	BDL*	BDL*	BDL*
10.11.2015	BDL*	BDL*	BDL*	BDL*	BDL*
19.11.2015	BDL*	BDL*	BDL*	BDL*	BDL*
20.11.2015	BDL*	BDL*	BDL*	BDL*	BDL*
26.11.2015	BDL*	BDL*	BDL*	BDL*	BDL*
27.11.2015	BDL*	BDL*	BDL*	BDL*	BDL*
03.12.2015	BDL*	BDL*	BDL*	BDL*	BDL*
04.12.2015	BDL*	BDL*	BDL*	BDL*	BDL*
10.12.2015	BDL*	BDL*	BDL*	BDL*	BDL*
11.12.2015	BDL*	BDL*	BDL*	BDL*	BDL*
17.12.2015	BDL*	BDL*	BDL*	BDL*	BDL*
18.12.2015	BDL*	BDL*	BDL*	BDL*	BDL*
24.12.2015	BDL*	BDL*	BDL*	BDL*	BDL*
25.12.2015	BDL*	BDL*	BDL*	BDL*	BDL*
31.12.2015	BDL*	BDL*	BDL*	BDL*	BDL*
01.01.2016	BDL*	BDL*	BDL*	BDL*	BDL*
07.01.2016	BDL*	BDL*	BDL*	BDL*	BDL*

Date Of Sampling	Near Port Gate No. - 2	Near STP	Central Water Pump House	Container Terminal	Hazira Village
	N 21° 05.426' E 72° 37.739'	N 21° 05.211' E 72° 38.605'	N 21° 04.697' E 72° 38.420'	N 21° 05.187' E 72° 37.774'	N 21° 05.44' E 72° 38.44'
08.01.2016	BDL*	BDL*	BDL*	BDL*	BDL*
14.01.2016	BDL*	BDL*	BDL*	BDL*	BDL*
15.01.2016	BDL*	BDL*	BDL*	BDL*	BDL*
21.01.2016	BDL*	BDL*	BDL*	BDL*	BDL*
22.01.2016	BDL*	BDL*	BDL*	BDL*	BDL*
28.01.2016	BDL*	BDL*	BDL*	BDL*	BDL*
29.01.2016	BDL*	BDL*	BDL*	BDL*	BDL*
04.02.2016	BDL*	BDL*	BDL*	BDL*	BDL*
05.02.2016	BDL*	BDL*	BDL*	BDL*	BDL*
11.02.2016	BDL*	BDL*	BDL*	BDL*	BDL*
12.02.2016	BDL*	BDL*	BDL*	BDL*	BDL*
18.02.2016	BDL*	BDL*	BDL*	BDL*	BDL*
19.02.2016	BDL*	BDL*	BDL*	BDL*	BDL*
25.02.2016	BDL*	BDL*	BDL*	BDL*	BDL*
26.02.2016	BDL*	BDL*	BDL*	BDL*	BDL*
03.03.2016	BDL*	BDL*	BDL*	BDL*	BDL*
04.03.2016	BDL*	BDL*	BDL*	BDL*	BDL*
10.03.2016	BDL*	BDL*	BDL*	BDL*	BDL*
11.03.2016	BDL*	BDL*	BDL*	BDL*	BDL*
17.03.2016	BDL*	BDL*	BDL*	BDL*	BDL*
18.03.2016	BDL*	BDL*	BDL*	BDL*	BDL*
24.03.2016	BDL*	BDL*	BDL*	BDL*	BDL*
25.03.2016	BDL*	BDL*	BDL*	BDL*	BDL*
31.03.2016	BDL*	BDL*	BDL*	BDL*	BDL*

BDL*: Below Detection Limit - Benzo (a) Pyrene (BaP) - Particulate Phase only (ng/m³): 0.5

Table No.: 1.5 - Ambient Air Quality Monitoring Results For Arsenic as As ($\mu\text{g}/\text{m}^3$):

Date Of Sampling	Near Port Gate No. - 2	Near STP	Central Water Pump House	Container Terminal	Hazira Village
	N 21° 05.426' E 72° 37.739'	N 21° 05.211' E 72° 38.605'	N 21° 04.697' E 72° 38.420'	N 21° 05.187' E 72° 37.774'	N 21° 05.44' E 72° 38.44'
01.10.2015	BDL*	BDL*	BDL*	BDL*	BDL*
02.10.2015	BDL*	BDL*	BDL*	BDL*	BDL*
08.10.2015	BDL*	BDL*	BDL*	BDL*	BDL*
09.10.2015	BDL*	BDL*	BDL*	BDL*	BDL*
15.10.2015	BDL*	BDL*	BDL*	BDL*	BDL*
16.10.2015	BDL*	BDL*	BDL*	BDL*	BDL*
22.10.2015	BDL*	BDL*	BDL*	BDL*	BDL*
23.10.2015	BDL*	BDL*	BDL*	BDL*	BDL*
29.10.2015	BDL*	BDL*	BDL*	BDL*	BDL*
30.10.2015	BDL*	BDL*	BDL*	BDL*	BDL*
05.11.2015	BDL*	BDL*	BDL*	BDL*	BDL*
06.11.2015	BDL*	BDL*	BDL*	BDL*	BDL*
09.11.2015	BDL*	BDL*	BDL*	BDL*	BDL*
10.11.2015	BDL*	BDL*	BDL*	BDL*	BDL*
19.11.2015	BDL*	BDL*	BDL*	BDL*	BDL*
20.11.2015	BDL*	BDL*	BDL*	BDL*	BDL*
26.11.2015	BDL*	BDL*	BDL*	BDL*	BDL*
27.11.2015	BDL*	BDL*	BDL*	BDL*	BDL*
03.12.2015	BDL*	BDL*	BDL*	BDL*	BDL*
04.12.2015	BDL*	BDL*	BDL*	BDL*	BDL*
10.12.2015	BDL*	BDL*	BDL*	BDL*	BDL*
11.12.2015	BDL*	BDL*	BDL*	BDL*	BDL*
17.12.2015	BDL*	BDL*	BDL*	BDL*	BDL*
18.12.2015	BDL*	BDL*	BDL*	BDL*	BDL*
24.12.2015	BDL*	BDL*	BDL*	BDL*	BDL*
25.12.2015	BDL*	BDL*	BDL*	BDL*	BDL*
31.12.2015	BDL*	BDL*	BDL*	BDL*	BDL*
01.01.2016	BDL*	BDL*	BDL*	BDL*	BDL*
07.01.2016	BDL*	BDL*	BDL*	BDL*	BDL*

Date Of Sampling	Near Port Gate No. - 2	Near STP	Central Water Pump House	Container Terminal	Hazira Village
	N 21° 05.426' E 72° 37.739'	N 21° 05.211' E 72° 38.605'	N 21° 04.697' E 72° 38.420'	N 21° 05.187' E 72° 37.774'	N 21° 05.44' E 72° 38.44'
08.01.2016	BDL*	BDL*	BDL*	BDL*	BDL*
14.01.2016	BDL*	BDL*	BDL*	BDL*	BDL*
15.01.2016	BDL*	BDL*	BDL*	BDL*	BDL*
21.01.2016	BDL*	BDL*	BDL*	BDL*	BDL*
22.01.2016	BDL*	BDL*	BDL*	BDL*	BDL*
28.01.2016	BDL*	BDL*	BDL*	BDL*	BDL*
29.01.2016	BDL*	BDL*	BDL*	BDL*	BDL*
04.02.2016	BDL*	BDL*	BDL*	BDL*	BDL*
05.02.2016	BDL*	BDL*	BDL*	BDL*	BDL*
11.02.2016	BDL*	BDL*	BDL*	BDL*	BDL*
12.02.2016	BDL*	BDL*	BDL*	BDL*	BDL*
18.02.2016	BDL*	BDL*	BDL*	BDL*	BDL*
19.02.2016	BDL*	BDL*	BDL*	BDL*	BDL*
25.02.2016	BDL*	BDL*	BDL*	BDL*	BDL*
26.02.2016	BDL*	BDL*	BDL*	BDL*	BDL*
03.03.2016	BDL*	BDL*	BDL*	BDL*	BDL*
04.03.2016	BDL*	BDL*	BDL*	BDL*	BDL*
10.03.2016	BDL*	BDL*	BDL*	BDL*	BDL*
11.03.2016	BDL*	BDL*	BDL*	BDL*	BDL*
17.03.2016	BDL*	BDL*	BDL*	BDL*	BDL*
18.03.2016	BDL*	BDL*	BDL*	BDL*	BDL*
24.03.2016	BDL*	BDL*	BDL*	BDL*	BDL*
25.03.2016	BDL*	BDL*	BDL*	BDL*	BDL*
31.03.2016	BDL*	BDL*	BDL*	BDL*	BDL*

BDL*: Below Detection Limit - Arsenic as As (ng/m³): 2

Table No.: 1.6 - Ambient Air Quality Monitoring Results for Nickel as Ni (ng/m³):

Date Of Sampling	Near Port Gate No. - 2	Near STP	Central Water Pump House	Container Terminal	Hazira Village
	N 21° 05.426' E 72° 37.739'	N 21° 05.211' E 72° 38.605'	N 21° 04.697' E 72° 38.420'	N 21° 05.187' E 72° 37.774'	N 21° 05.44' E 72° 38.44'
01.10.2015	BDL*	BDL*	BDL*	BDL*	10.25
02.10.2015	BDL*	10.31	BDL*	BDL*	BDL*
08.10.2015	10.20	BDL*	BDL*	10.35	BDL*
09.10.2015	BDL*	BDL*	BDL*	BDL*	BDL*
15.10.2015	BDL*	BDL*	BDL*	BDL*	10.05
16.10.2015	BDL*	BDL*	BDL*	BDL*	BDL*
22.10.2015	BDL*	10.04	BDL*	10.20	BDL*
23.10.2015	BDL*	10.40	BDL*	BDL*	BDL*
29.10.2015	BDL*	BDL*	BDL*	BDL*	BDL*
30.10.2015	BDL*	BDL*	BDL*	BDL*	BDL*
05.11.2015	BDL*	10.31	BDL*	10.08	BDL*
06.11.2015	BDL*	BDL*	BDL*	BDL*	BDL*
09.11.2015	BDL*	10.35	BDL*	BDL*	10.08
10.11.2015	10.07	BDL*	BDL*	BDL*	BDL*
19.11.2015	BDL*	10.72	BDL*	BDL*	BDL*
20.11.2015	BDL*	BDL*	BDL*	BDL*	10.56
26.11.2015	10.28	BDL*	BDL*	BDL*	BDL*
27.11.2015	BDL*	10.55	BDL*	BDL*	10.21
03.12.2015	BDL*	BDL*	BDL*	BDL*	BDL*
04.12.2015	BDL*	BDL*	BDL*	BDL*	10.42
10.12.2015	BDL*	BDL*	BDL*	BDL*	BDL*
11.12.2015	BDL*	10.04	BDL*	BDL*	BDL*
17.12.2015	10.25	BDL*	BDL*	BDL*	BDL*
18.12.2015	BDL*	10.40	BDL*	BDL*	BDL*
24.12.2015	BDL*	BDL*	BDL*	BDL*	BDL*
25.12.2015	BDL*	10.25	BDL*	BDL*	BDL*
31.12.2015	BDL*	BDL*	BDL*	BDL*	BDL*
01.01.2016	10.57	BDL*	BDL*	BDL*	10.90
07.01.2016	BDL*	BDL*	BDL*	BDL*	BDL*

08.01.2016	BDL*	BDL*	BDL*	BDL*	BDL*
14.01.2016	BDL*	10.57	BDL*	BDL*	11.25
15.01.2016	10.61	BDL*	BDL*	BDL*	BDL*
21.01.2016	BDL*	BDL*	BDL*	BDL*	BDL*
22.01.2016	BDL*	10.41	BDL*	BDL*	BDL*
28.01.2016	10.28	BDL*	BDL*	BDL*	BDL*
29.01.2016	BDL*	BDL*	BDL*	BDL*	BDL*
04.02.2016	BDL*	10.62	BDL*	BDL*	BDL*
05.02.2016	10.52	BDL*	BDL*	BDL*	BDL*
11.02.2016	BDL*	BDL*	BDL*	BDL*	BDL*
12.02.2016	10.24	BDL*	BDL*	BDL*	BDL*
18.02.2016	BDL*	10.35	BDL*	BDL*	BDL*
19.02.2016	BDL*	BDL*	BDL*	BDL*	10.70
25.02.2016	BDL*	BDL*	BDL*	BDL*	BDL*
26.02.2016	BDL*	BDL*	BDL*	BDL*	10.30
03.03.2016	10.24	BDL*	BDL*	BDL*	BDL*
04.03.2016	BDL*	BDL*	BDL*	BDL*	BDL*
10.03.2016	BDL*	10.72	BDL*	BDL*	10.54
11.03.2016	BDL*	BDL*	BDL*	BDL*	BDL*
17.03.2016	10.40	BDL*	BDL*	BDL*	BDL*
18.03.2016	BDL*	10.51	BDL*	BDL*	10.83
24.03.2016	BDL*	BDL*	BDL*	BDL*	BDL*
25.03.2016	BDL*	10.31	BDL*	BDL*	10.11
31.03.2016	BDL*	BDL*	BDL*	BDL*	10.73

BDL*: Below Detection Limit - Nickel as Ni (ng/m³): 10

Table No.: 1. 7 - Ambient Air Quality Monitoring Results for Carbon Monoxide (CO) (mg/m³):

Date Of Sampling	Near Port Gate No. - 2	Near STP	Central Water Pump House	Container Terminal	Hazira Village
	N 21° 05.426' E 72° 37.739'	N 21° 05.211' E 72° 38.605'	N 21° 04.697' E 72° 38.420'	N 21° 05.187' E 72° 37.774'	N 21° 05.44' E 72° 38.44'
01.10.2015	0.63	0.42	0.29	0.25	0.34
02.10.2015	0.70	0.53	0.24	0.32	0.77
08.10.2015	0.50	0.44	0.22	0.27	0.33
09.10.2015	0.76	0.87	0.30	0.41	0.60
15.10.2015	0.61	0.56	0.37	0.17	0.45
16.10.2015	0.57	0.74	0.16	0.13	0.82
22.10.2015	0.23	0.58	0.11	0.18	0.38
23.10.2015	0.39	0.54	0.47	0.31	0.64
29.10.2015	0.55	0.71	0.26	0.46	0.40
30.10.2015	0.69	0.62	0.48	0.36	0.80
05.11.2015	0.30	0.76	0.15	0.23	0.60
06.11.2015	0.84	0.73	0.57	0.38	0.94
09.11.2015	0.63	0.55	0.37	0.29	0.45
10.11.2015	0.79	0.85	0.32	0.54	0.48
19.11.2015	0.89	0.66	0.31	0.44	0.96
20.11.2015	0.49	0.69	0.62	0.40	0.71
26.11.2015	0.95	1.12	0.39	0.53	0.77
27.11.2015	0.78	0.71	0.52	0.34	0.58
03.12.2015	0.96	0.76	0.38	0.52	0.76
04.12.2015	0.80	0.89	0.60	0.32	0.44
10.12.2015	0.77	0.72	0.48	0.22	0.57
11.12.2015	0.50	0.68	0.56	0.40	0.84
17.12.2015	0.70	0.93	0.33	0.58	0.53
18.12.2015	0.90	0.66	0.31	0.54	0.97
24.12.2015	0.88	0.78	0.61	0.41	1.04
25.12.2015	0.74	0.94	0.21	0.16	1.08
31.12.2015	0.98	0.73	0.15	0.23	0.49
01.01.2016	0.48	0.37	0.22	0.29	0.62
07.01.2016	0.66	0.61	0.47	0.40	0.80

Date Of Sampling	Near Port Gate No. - 2	Near STP	Central Water Pump House	Container Terminal	Hazira Village
	N 21° 05.426' E 72° 37.739'	N 21° 05.211' E 72° 38.605'	N 21° 04.697' E 72° 38.420'	N 21° 05.187' E 72° 37.774'	N 21° 05.44' E 72° 38.44'
08.01.2016	0.71	0.50	0.30	0.33	0.79
14.01.2016	0.63	0.44	0.21	0.26	0.34
15.01.2016	0.82	0.57	0.45	0.18	0.53
21.01.2016	0.54	0.69	0.25	0.49	0.41
22.01.2016	0.38	0.52	0.15	0.32	0.64
28.01.2016	0.73	0.85	0.27	0.42	0.65
29.01.2016	0.58	0.55	0.36	0.24	0.46
04.02.2016	0.87	0.73	0.33	0.23	0.48
05.02.2016	0.70	0.81	0.25	0.38	0.64
11.02.2016	0.71	0.61	0.52	0.30	0.39
12.02.2016	0.62	0.41	0.19	0.24	0.32
18.02.2016	0.66	0.47	0.27	0.31	0.74
19.02.2016	0.45	0.34	0.21	0.26	0.57
25.02.2016	0.53	0.86	0.56	0.36	0.80
26.02.2016	0.42	0.49	0.14	0.29	0.60
03.03.2016	0.38	0.44	0.13	0.27	0.55
04.03.2016	0.73	0.87	0.36	0.32	0.47
10.03.2016	0.60	0.50	0.39	0.45	0.76
11.03.2016	0.41	0.64	0.18	0.24	0.53
17.03.2016	0.82	0.77	0.30	0.57	0.42
18.03.2016	0.72	0.88	0.22	0.31	0.56
24.03.2016	0.94	1.05	0.48	0.40	0.84
25.03.2016	1.08	0.98	0.86	0.61	0.71
31.03.2016	0.89	0.81	0.74	0.37	0.63

BDL*: Below Detection Limit - Carbon Monoxide as CO (mg/m³): 0.01

Table No.: 1.8 - Ambient Air Quality Monitoring Results for Benzene as C₆H₆ (µg/m³):

Date Of Sampling	Near Port Gate No. - 2	Near STP	Central Water Pump House	Container Terminal	Hazira Village
	N 21° 05.426' E 72° 37.739'	N 21° 05.211' E 72° 38.605'	N 21° 04.697' E 72° 38.420'	N 21° 05.187' E 72° 37.774'	N 21° 05.44' E 72° 38.44'
01.10.2015	BDL*	BDL*	BDL*	BDL*	BDL*
02.10.2015	BDL*	BDL*	BDL*	BDL*	BDL*
08.10.2015	BDL*	BDL*	BDL*	BDL*	BDL*
09.10.2015	BDL*	BDL*	BDL*	BDL*	BDL*
15.10.2015	BDL*	BDL*	BDL*	BDL*	BDL*
16.10.2015	BDL*	BDL*	BDL*	BDL*	BDL*
22.10.2015	BDL*	BDL*	BDL*	BDL*	BDL*
23.10.2015	BDL*	BDL*	BDL*	BDL*	BDL*
29.10.2015	BDL*	BDL*	BDL*	BDL*	BDL*
30.10.2015	BDL*	BDL*	BDL*	BDL*	BDL*
05.11.2015	BDL*	BDL*	BDL*	BDL*	BDL*
06.11.2015	BDL*	BDL*	BDL*	BDL*	BDL*
09.11.2015	BDL*	BDL*	BDL*	BDL*	BDL*
10.11.2015	BDL*	BDL*	BDL*	BDL*	BDL*
19.11.2015	BDL*	BDL*	BDL*	BDL*	BDL*
20.11.2015	BDL*	BDL*	BDL*	BDL*	BDL*
26.11.2015	BDL*	BDL*	BDL*	BDL*	BDL*
27.11.2015	BDL*	BDL*	BDL*	BDL*	BDL*
03.12.2015	BDL*	BDL*	BDL*	BDL*	BDL*
04.12.2015	BDL*	BDL*	BDL*	BDL*	BDL*
10.12.2015	BDL*	BDL*	BDL*	BDL*	BDL*
11.12.2015	BDL*	BDL*	BDL*	BDL*	BDL*
17.12.2015	BDL*	BDL*	BDL*	BDL*	BDL*
18.12.2015	BDL*	BDL*	BDL*	BDL*	BDL*
24.12.2015	BDL*	BDL*	BDL*	BDL*	BDL*
25.12.2015	BDL*	BDL*	BDL*	BDL*	BDL*
31.12.2015	BDL*	BDL*	BDL*	BDL*	BDL*
01.01.2016	BDL*	BDL*	BDL*	BDL*	BDL*
07.01.2016	BDL*	BDL*	BDL*	BDL*	BDL*

Date Of Sampling	Near Port Gate No. - 2	Near STP	Central Water Pump House	Container Terminal	Hazira Village
	N 21° 05.426' E 72° 37.739'	N 21° 05.211' E 72° 38.605'	N 21° 04.697' E 72° 38.420'	N 21° 05.187' E 72° 37.774'	N 21° 05.44' E 72° 38.44'
08.01.2016	BDL*	BDL*	BDL*	BDL*	BDL*
14.01.2016	BDL*	BDL*	BDL*	BDL*	BDL*
15.01.2016	BDL*	BDL*	BDL*	BDL*	BDL*
21.01.2016	BDL*	BDL*	BDL*	BDL*	BDL*
22.01.2016	BDL*	BDL*	BDL*	BDL*	BDL*
28.01.2016	BDL*	BDL*	BDL*	BDL*	BDL*
29.01.2016	BDL*	BDL*	BDL*	BDL*	BDL*
04.02.2016	BDL*	BDL*	BDL*	BDL*	BDL*
05.02.2016	BDL*	BDL*	BDL*	BDL*	BDL*
11.02.2016	BDL*	BDL*	BDL*	BDL*	BDL*
12.02.2016	BDL*	BDL*	BDL*	BDL*	BDL*
18.02.2016	BDL*	BDL*	BDL*	BDL*	BDL*
19.02.2016	BDL*	BDL*	BDL*	BDL*	BDL*
25.02.2016	BDL*	BDL*	BDL*	BDL*	BDL*
26.02.2016	BDL*	BDL*	BDL*	BDL*	BDL*
03.03.2016	BDL*	BDL*	BDL*	BDL*	BDL*
04.03.2016	BDL*	BDL*	BDL*	BDL*	BDL*
10.03.2016	BDL*	BDL*	BDL*	BDL*	BDL*
11.03.2016	BDL*	BDL*	BDL*	BDL*	BDL*
17.03.2016	BDL*	BDL*	BDL*	BDL*	BDL*
18.03.2016	BDL*	BDL*	BDL*	BDL*	BDL*
24.03.2016	BDL*	BDL*	BDL*	BDL*	BDL*
25.03.2016	BDL*	BDL*	BDL*	BDL*	BDL*
31.03.2016	BDL*	BDL*	BDL*	BDL*	BDL*

BDL*: Below Detection Limit - Benzene as C₆H₆ (µg/m³): 2

Table No.: 1.9: Ambient Air Quality Monitoring Results For Ammonia (NH₃):

Date Of Sampling	Near Port Gate No. - 2	Near STP	Central Water Pump House	Container Terminal	Hazira Village
	N 21° 05.426' E 72° 37.739'	N 21° 05.211' E 72° 38.605'	N 21° 04.697' E 72° 38.420'	N 21° 05.187' E 72° 37.774'	N 21° 05.44' E 72° 38.44'
01.10.2015	42.37	32.25	25.53	18.57	58.55
02.10.2015	38.69	52.09	32.29	24.96	45.37
08.10.2015	30.40	45.58	37.21	23.13	39.24
09.10.2015	45.44	55.50	30.14	36.52	48.74
15.10.2015	32.55	26.04	21.22	44.43	52.72
16.10.2015	58.95	39.38	17.53	15.52	64.37
22.10.2015	48.51	62.94	26.14	32.57	54.56
23.10.2015	20.27	44.34	15.68	11.87	34.64
29.10.2015	52.51	38.45	22.45	32.26	58.55
30.10.2015	45.75	22.32	36.60	27.39	40.16
05.11.2015	54.04	70.69	30.45	37.13	62.23
06.11.2015	47.90	23.56	38.44	25.57	42.30
09.11.2015	42.68	36.90	28.91	20.70	67.44
10.11.2015	55.27	41.55	23.37	34.09	29.43
19.11.2015	43.29	58.60	37.21	28.30	58.55
20.11.2015	22.72	46.51	29.52	13.70	39.24
26.11.2015	50.66	61.70	34.44	52.65	56.71
27.11.2015	37.15	29.14	24.60	49.30	60.69
03.12.2015	22.63	63.68	35.36	41.58	57.24
04.12.2015	48.28	37.17	30.53	21.24	63.86
10.12.2015	36.81	30.17	23.57	50.55	58.44
11.12.2015	23.24	68.56	17.53	13.46	39.46
17.12.2015	60.35	44.18	26.60	36.19	74.71
18.12.2015	44.96	60.33	37.18	29.31	52.72
24.12.2015	51.60	26.20	42.31	31.11	47.30
25.12.2015	66.73	45.80	19.79	42.47	75.61
31.12.2015	56.11	40.61	29.53	37.39	62.66
01.01.2016	23.95	35.66	13.53	19.17	28.51
07.01.2016	44.52	52.40	30.75	22.52	35.56

Date Of Sampling	Near Port Gate No. - 2	Near STP	Central Water Pump House	Container Terminal	Hazira Village
	N 21° 05.426' E 72° 37.739'	N 21° 05.211' E 72° 38.605'	N 21° 04.697' E 72° 38.420'	N 21° 05.187' E 72° 37.774'	N 21° 05.44' E 72° 38.44'
08.01.2016	31.63	40.62	26.45	46.57	59.47
14.01.2016	54.66	62.32	35.37	15.52	44.45
15.01.2016	39.61	49.30	21.22	27.39	33.41
21.01.2016	42.68	30.70	18.45	23.43	49.66
22.01.2016	15.35	37.52	12.30	10.65	27.59
28.01.2016	64.48	42.79	25.22	29.52	55.79
29.01.2016	26.41	54.57	42.44	36.52	63.45
04.02.2016	20.88	43.41	32.91	38.35	51.19
05.02.2016	52.51	35.35	18.45	23.74	45.37
11.02.2016	32.85	25.73	13.22	18.57	39.24
12.02.2016	43.91	62.63	28.60	21.61	56.40
18.02.2016	25.49	32.56	21.53	40.17	47.51
19.02.2016	18.12	28.83	10.15	15.52	23.60
25.02.2016	34.70	22.32	29.52	10.35	48.74
26.02.2016	48.51	58.60	22.14	28.30	34.64
03.03.2016	40.53	52.40	20.61	24.35	32.49
04.03.2016	25.49	31.63	15.38	19.48	43.53
10.03.2016	35.62	46.51	28.29	18.87	30.65
11.03.2016	15.35	23.87	9.53	12.17	19.31
17.03.2016	18.73	37.52	29.52	32.57	44.14
18.03.2016	46.67	30.39	16.30	21.61	37.70
24.03.2016	38.69	58.60	24.60	30.43	50.58
25.03.2016	30.71	36.59	19.38	8.52	42.30
31.03.2016	28.56	45.58	11.69	26.48	33.72

BDL*: Below Detection Limit - Ammonia NH₃ (µg/m³): 10

Table No.: 1.10 - Ambient Air Quality Monitoring Results for Ammonia (NH₃) (µg/m³):

Date Of Sampling	Near Port Gate No. - 2	Near STP	Central Water Pump House	Container Terminal	Hazira Village
	N 21° 05.426' E 72° 37.739'	N 21° 05.211' E 72° 38.605'	N 21° 04.697' E 72° 38.420'	N 21° 05.187' E 72° 37.774'	N 21° 05.44' E 72° 38.44'
01.10.2015	21.78	23.60	9.54	11.38	17.77
02.10.2015	18.74	20.47	15.37	14.34	24.56
08.10.2015	14.76	17.29	12.52	7.37	21.41
09.10.2015	22.62	25.68	16.69	13.40	19.44
15.10.2015	11.59	19.70	13.59	9.56	14.48
16.10.2015	19.52	15.49	8.68	6.44	11.64
22.10.2015	23.30	18.44	14.49	10.63	20.53
23.10.2015	15.65	21.67	10.44	8.57	25.46
29.10.2015	20.57	16.37	13.61	11.47	18.48
30.10.2015	19.51	24.62	11.59	15.44	22.57
05.11.2015	11.71	14.64	16.54	9.51	18.74
06.11.2015	23.53	26.75	10.46	15.63	28.38
09.11.2015	19.37	21.34	8.76	10.43	16.58
10.11.2015	21.53	17.60	15.48	12.53	22.75
19.11.2015	16.31	18.47	13.64	6.99	19.52
20.11.2015	13.35	19.69	9.53	11.46	25.76
26.11.2015	15.72	23.36	6.63	17.71	17.46
27.11.2015	10.39	16.68	12.38	19.54	14.38
03.12.2015	8.69	25.41	15.68	12.40	28.44
04.12.2015	24.60	18.69	8.75	10.41	16.68
10.12.2015	10.49	23.54	5.37	8.74	12.73
11.12.2015	14.52	21.63	9.70	7.75	23.65
17.12.2015	18.51	9.61	16.54	11.49	25.55
18.12.2015	16.70	24.58	6.62	18.50	22.33
24.12.2015	25.51	22.44	10.41	13.48	20.35
25.12.2015	17.57	14.76	7.47	5.69	10.37
31.12.2015	20.33	16.52	13.70	9.50	18.61
01.01.2016	20.51	13.49	8.68	5.74	16.62
07.01.2016	13.55	20.68	5.85	11.53	18.42

Date Of Sampling	Near Port Gate No. - 2	Near STP	Central Water Pump House	Container Terminal	Hazira Village
	N 21° 05.426' E 72° 37.739'	N 21° 05.211' E 72° 38.605'	N 21° 04.697' E 72° 38.420'	N 21° 05.187' E 72° 37.774'	N 21° 05.44' E 72° 38.44'
08.01.2016	19.63	14.66	11.40	6.57	25.61
14.01.2016	16.70	18.40	7.46	9.40	13.58
15.01.2016	17.37	21.52	15.64	13.57	26.66
21.01.2016	23.53	17.47	12.34	10.67	20.37
22.01.2016	18.60	24.56	9.59	7.74	15.61
28.01.2016	21.71	19.51	14.49	12.62	17.43
29.01.2016	11.61	15.57	6.65	18.61	24.68
04.02.2016	9.62	12.73	7.51	15.56	20.62
05.02.2016	18.49	16.72	12.57	10.47	25.69
11.02.2016	20.66	24.49	10.59	8.60	17.43
12.02.2016	14.56	19.36	6.58	12.64	26.72
18.02.2016	16.57	13.35	9.62	5.72	21.72
19.02.2016	12.65	22.56	16.70	19.68	14.53
25.02.2016	21.76	11.38	13.56	9.47	16.61
26.02.2016	19.43	21.68	8.38	6.58	12.60
03.03.2016	16.61	19.40	7.47	5.65	21.43
04.03.2016	12.71	9.70	14.53	10.46	18.66
10.03.2016	18.37	16.66	11.36	7.36	13.59
11.03.2016	10.48	21.48	13.48	16.49	19.58
17.03.2016	8.73	11.64	6.61	13.49	17.34
18.03.2016	15.62	13.34	10.57	8.66	22.46
24.03.2016	13.56	17.61	5.72	11.58	15.70
25.03.2016	19.62	10.50	15.44	6.56	12.76
31.03.2016	17.35	20.55	9.65	14.71	23.66

Table No.: 1.11 - Ambient Air Quality Monitoring Results for Oxides of Nitrogen as NO₂ (µg/m³):

Date Of Sampling	Near Port Gate No. - 2	Near STP	Central Water Pump House	Container Terminal	Hazira Village
	N 21° 05.426' E 72° 37.739'	N 21° 05.211' E 72° 38.605'	N 21° 04.697' E 72° 38.420'	N 21° 05.187' E 72° 37.774'	N 21° 05.44' E 72° 38.44'
01.10.2015	25.84	27.62	20.49	22.63	34.61
02.10.2015	28.64	35.44	25.45	19.53	32.45
08.10.2015	38.41	42.46	32.46	24.45	28.91
09.10.2015	33.41	29.46	24.48	16.22	37.51
15.10.2015	39.55	33.38	21.57	26.57	42.66
16.10.2015	35.23	39.36	26.31	21.34	30.63
22.10.2015	22.40	36.53	31.49	25.35	39.45
23.10.2015	32.62	40.23	35.29	29.35	44.07
29.10.2015	37.47	33.51	29.44	24.45	40.50
30.10.2015	41.45	36.72	27.55	32.44	39.45
05.11.2015	20.38	31.84	28.46	24.58	35.76
06.11.2015	43.76	37.27	32.32	28.39	42.19
09.11.2015	23.21	40.47	18.71	20.54	30.63
10.11.2015	39.17	35.63	31.15	25.73	29.50
19.11.2015	34.21	30.52	24.28	17.86	39.45
20.11.2015	29.21	34.66	30.28	26.58	41.54
26.11.2015	35.44	26.32	21.66	29.74	32.55
27.11.2015	26.38	29.46	19.73	23.60	38.65
03.12.2015	38.37	41.57	23.52	29.35	33.58
04.12.2015	23.65	39.64	18.75	35.65	30.58
10.12.2015	37.55	30.82	27.61	21.59	39.41
11.12.2015	30.86	33.54	38.43	28.34	42.59
17.12.2015	35.36	40.21	29.82	22.59	37.83
18.12.2015	26.43	37.55	22.50	18.32	29.61
24.12.2015	39.37	43.41	25.45	30.36	34.66
25.12.2015	31.54	36.65	21.75	19.28	28.43
31.12.2015	21.21	31.46	28.84	25.64	36.47
01.01.2016	34.72	38.31	28.53	18.55	23.56
07.01.2016	38.59	32.56	22.61	26.53	35.45

Date Of Sampling	Near Port Gate No. - 2	Near STP	Central Water Pump House	Container Terminal	Hazira Village
	N 21° 05.426' E 72° 37.739'	N 21° 05.211' E 72° 38.605'	N 21° 04.697' E 72° 38.420'	N 21° 05.187' E 72° 37.774'	N 21° 05.44' E 72° 38.44'
08.01.2016	24.51	28.44	20.56	15.66	31.55
14.01.2016	26.55	30.47	15.50	19.50	39.53
15.01.2016	39.25	41.59	26.27	23.50	36.36
21.01.2016	33.47	37.55	19.43	27.55	30.26
22.01.2016	28.70	31.50	34.54	20.45	42.49
28.01.2016	32.45	24.53	38.52	21.59	37.49
29.01.2016	36.65	39.40	21.59	33.67	29.61
04.02.2016	42.50	36.82	19.23	29.50	25.35
05.02.2016	30.44	22.59	33.22	17.56	37.53
11.02.2016	37.60	33.49	16.49	25.49	29.37
12.02.2016	24.32	29.55	20.59	32.42	35.56
18.02.2016	35.55	26.49	23.50	19.36	39.23
19.02.2016	31.64	35.20	28.44	15.47	21.16
25.02.2016	29.30	32.46	24.36	21.76	36.17
26.02.2016	23.40	28.56	30.72	18.24	40.18
03.03.2016	20.54	25.58	30.46	16.92	35.63
04.03.2016	34.46	22.59	26.35	29.85	39.41
10.03.2016	31.53	37.65	19.54	25.32	28.29
11.03.2016	25.44	30.30	21.56	19.40	36.54
17.03.2016	37.18	33.37	24.48	28.55	41.58
18.03.2016	26.51	19.32	29.31	21.44	33.34
24.03.2016	35.33	28.85	23.41	30.60	38.26
25.03.2016	29.38	36.22	20.34	27.58	32.65
31.03.2016	33.16	29.09	15.57	24.34	27.49

Table No.: 1.12 - Ambient Air Quality Monitoring Results for Ozone as O₃ (µg/m³):

Date Of Sampling	Near Port Gate No. - 2	Near STP	Central Water Pump House	Container Terminal	Hazira Village
	N 21° 05.426' E 72° 37.739'	N 21° 05.211' E 72° 38.605'	N 21° 04.697' E 72° 38.420'	N 21° 05.187' E 72° 37.774'	N 21° 05.44' E 72° 38.44'
01.10.2015	21.40	26.53	18.42	25.57	28.70
02.10.2015	26.45	29.45	23.51	18.47	20.50
08.10.2015	24.20	19.57	22.60	16.52	26.28
09.10.2015	19.41	30.30	27.46	22.67	24.56
15.10.2015	27.50	24.18	19.35	21.33	29.55
16.10.2015	25.41	18.56	24.19	20.38	30.28
22.10.2015	20.62	27.35	21.33	17.62	22.66
23.10.2015	28.31	25.49	20.16	24.50	18.42
29.10.2015	30.19	28.33	25.45	26.72	21.53
30.10.2015	23.70	22.36	28.45	23.20	25.10
05.11.2015	18.20	24.26	28.30	26.62	20.78
06.11.2015	27.78	30.63	23.47	21.47	28.56
09.11.2015	19.36	27.61	16.69	23.41	25.90
10.11.2015	30.19	29.66	25.52	27.55	23.76
19.11.2015	24.47	25.09	21.83	17.42	19.79
20.11.2015	28.31	23.58	18.50	22.55	21.12
26.11.2015	17.51	26.41	24.75	20.89	30.38
27.11.2015	25.07	21.29	29.41	18.37	27.42
03.12.2015	30.48	28.24	24.36	20.29	22.40
04.12.2015	17.75	24.14	30.29	22.34	26.50
10.12.2015	23.47	21.64	28.25	19.35	27.23
11.12.2015	26.07	23.58	20.26	21.45	29.34
17.12.2015	28.30	19.30	23.20	25.18	20.00
18.12.2015	24.40	26.29	17.91	28.35	18.67
24.12.2015	21.43	20.71	26.27	16.37	28.65
25.12.2015	29.33	30.31	21.65	27.61	24.97
31.12.2015	25.45	22.25	19.65	24.39	21.27
01.01.2016	22.34	26.22	24.51	20.49	28.90
07.01.2016	21.42	19.62	26.49	16.76	22.69

Date Of Sampling	Near Port Gate No. - 2	Near STP	Central Water Pump House	Container Terminal	Hazira Village
	N 21° 05.426' E 72° 37.739'	N 21° 05.211' E 72° 38.605'	N 21° 04.697' E 72° 38.420'	N 21° 05.187' E 72° 37.774'	N 21° 05.44' E 72° 38.44'
08.01.2016	30.27	27.50	18.59	22.91	20.80
14.01.2016	19.60	24.31	21.98	23.51	29.66
15.01.2016	23.44	28.29	30.62	26.52	19.49
21.01.2016	27.83	25.63	22.81	24.58	23.43
22.01.2016	29.31	23.71	16.32	21.78	30.32
28.01.2016	18.65	29.55	23.58	19.66	21.60
29.01.2016	24.59	22.30	19.57	28.59	26.70
04.02.2016	26.45	30.39	21.77	18.29	23.87
05.02.2016	22.49	27.56	18.47	25.41	29.18
11.02.2016	27.56	23.49	25.45	29.21	20.69
12.02.2016	29.67	21.52	23.39	26.81	27.18
18.02.2016	23.54	29.28	27.67	21.57	18.86
19.02.2016	20.37	24.79	19.56	27.35	30.24
25.02.2016	25.59	18.57	22.59	20.31	24.32
26.02.2016	19.41	25.28	29.89	30.54	22.20
03.03.2016	19.30	24.50	26.76	29.17	21.42
04.03.2016	27.50	29.40	23.63	19.42	25.28
10.03.2016	20.22	25.65	18.50	22.62	29.66
11.03.2016	28.35	30.14	27.27	25.38	26.37
17.03.2016	22.46	18.11	25.90	21.31	30.46
18.03.2016	25.79	28.38	30.30	23.59	27.30
24.03.2016	29.37	26.30	19.59	20.42	24.24
25.03.2016	26.39	19.51	21.33	30.30	28.69
31.03.2016	21.59	27.28	29.70	24.53	22.66

BDL*: Below Detection Limit: Ozone as O₃ (µg/m³): 10

B. GROUND WATER QUALITY MONITORING: -

Table No.: 2.1 - Ground Water Quality Analysis Results:

S. NO.	TEST PARAMETERS	UNIT	GROUND WATER OPEN WELL (HAZIRA VILLAGE)					
			Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
			29/10/15	28/11/15	17/12/15	30/01/16	25/02/16	26/03/16
1	Colour	Hazen	2	2	2	3	2	2
2	Odour	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3	Taste	--	Not Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	0.56	10.88	0.91	4.40	4.20	3.10
5	pH Value	--	7.92	7.46	7.70	7.56	7.42	7.52
6	Total Hardness as CaCO ₃	mg/l	298	226	350	236	226	208
7	Iron as Fe	mg/l	0.016	0.013	0.016	0.016	0.015	0.012
8	Chloride as Cl	mg/l	66.97	58.48	68.97	60.9	58.98	54.9
9	Residual Free Chlorine	mg/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
10	Fluoride as F	mg/l	0.54	0.33	0.28	0.28	0.26	0.32
11	Total Dissolved Solids	mg/l	578	452	661	474	466	440
12	Calcium as Ca	mg/l	74.76	54.4	82.0	60.0	54.4	52.4
13	Magnesium as Mg	mg/l	28.8	21.6	34.8	19.2	21.6	18.48
14	Copper as Cu	mg/l	0.046	0.022	0.020	0.018	0.017	0.016
15	Manganese as Mn	mg/l	0.24	BDL*	BDL*	BDL*	BDL*	BDL*
16	Sulphate as SO ₄	mg/l	34.88	20.36	26.33	28.6	26.11	18.4
17	Nitrate Nitrogen as NO ₃	mg/l	0.26	BDL*	BDL*	BDL*	BDL*	BDL*
18	Phenolic compounds as C ₆ H ₅ OH	mg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
19	Mercury as Hg	mg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
20	Cadmium as Cd	mg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
21	Selenium as Se	mg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
22	Arsenic as As	mg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
23	Cyanide as CN	mg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
24	Lead as Pb	mg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
25	Zinc as Zn	mg/l	0.018	0.04	0.038	0.024	0.022	0.026
26	Anionic Detergents as MBAS	mg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
27	Chromium as Cr ⁺⁶	mg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
28	Mineral Oil	mg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
29	Alkalinity	mg/l	360	210	416	218	206	214
30	Aluminum as Al	mg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
31	Boron as B	mg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
32	Pesticides							
32.1	Alachor	µg/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
32.2	Atrazine	µg/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
32.3	Aldrin/Dieldrine	µg/l	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
32.4	Alpha HCH	µg/l	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
32.5	Beta HCH	µg/l	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
32.6	Butachlor	µg/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

S. NO.	TEST PARAMETERS	UNIT	GROUND WATER OPEN WELL (HAZIRA VILLAGE)					
			Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
			29/10/15	28/11/15	17/12/15	30/01/16	25/02/16	26/03/16
32.7	Chlorpyrifos	µg/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
32.8	Delta HCH	µg/l	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
32.9	2,4- Dichloro phenoxyacetic acid	µg/l	< 15	< 15	< 15	< 15	< 15	< 15
32.10	DDT (o,p & p,p-Isomers of DDT, DDE & DDD	µg/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
32.11	Endosulfan (alpha, beta, and sulphate)	µg/l	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
32.12	Ethion	µg/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
32.13	Gamma – HCH (Lindane)	µg/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
32.14	Isoproturon	µg/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
32.15	Malathion	µg/l	< 95	< 95	< 95	< 95	< 95	< 95
32.16	Methyl Parathion	µg/l	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
32.17	Monocrotophos	µg/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
32.18	Phorate	µg/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
33	Coliform	/100 ml	Absent	Absent	Absent	Absent	Absent	Absent
34	E-Coli	/100 ml	Absent	Absent	Absent	Absent	Absent	Absent

*Below detection limit

C. SOIL QUALITY MONITROING: -

Table No.: 3.1 - Soil Quality Testing Results:

S. NO.	PARAMETERS	UNIT	27/11/2015	27/11/2015
			NEAR LT CANTEEN PARKING	NEAR PORT GATE NO.: 2
1	Type	--	Clay	Clay
Grain Size Analysis				
2	Gravel	%	4	7
3	Coarse Sand	%	7	6
4	Medium Sand	%	11	10
5	Fine Sand	%	59	53
6	Total Sand	%	16	20
7	Silt + Clay	%	84	85
8	pH (1:5)	--	9.4	9.76
9	Electricity Conductivity	µmho/cm	1680	1788
10	Alkali matter	mg/kg	668	706
11	Cation Exchange Capacity	meq/100 gm	50	56
12	Sodium Absorption Ratio	--	13.58	15.44
13	Organic Matter	mg/kg	0.58	0.63
14	Available Nitrogen	meq/100 gm	0.042	0.050
15	Available Potassium	mg/kg	2010	2278
16	Available Phosphorus	mg/kg	0.48	0.36
17	Available Sodium	mg/kg	0.88	1.02
18	Permeability	cm/sec	3.6 X 10 ⁻⁵	4.0 X 10 ⁻⁵

*Below detection limit

Table No.: 3.2 - Soil Quality Testing Results:

S. NO.	PARAMETERS	UNIT	28/02/2016	28/02/2016
			NEAR LT CANTEEN PARKING	NEAR PORT GATE NO.- 2
1	Type	--	Clay	Clay
Grain Size Analysis				
2	Gravel	%	5	6.0
3	Coarse Sand	%	6	7.0
4	Medium Sand	%	10	11
5	Fine Sand	%	60	52
6	Total Sand	%	18	14
7	Silt + Clay	%	82	86
8	pH (1:5)	--	9.38	9.55
9	Electricity Conductivity	µmho/cm	1596	1646
10	Alkali matter	mg/kg	652	688
11	Cation Exchange Capacity	meq/100 gm	52	54
12	Sodium Absorption Ratio	--	12.88	14.62
13	Organic Matter	mg/kg	0.64	0.54
14	Available Nitrogen	meq/100 gm	0.04	0.052
15	Available Potassium	mg/kg	2020	2290
16	Available Phosphorus	mg/kg	0.46	0.40
17	Available Sodium	mg/kg	0.9	0.96
18	Permeability	cm/sec	3.4 X 10 ⁻⁵	3.8 X 10 ⁻⁵

*Below detection limit

D. SEA WATER QUALITY MONITORING: -

Table No.: 4.1 - Sea Water Quality Analysis Results of CB2 South End Towards Landside from the Sea Basin:

S. No.	Test Parameters	Unit	RESULT OF THE SEA WATER											
			Oct-15		Nov-15		Dec-15		Jan-16		Feb-16		March-16	
			24/10/2015		21/11/2015		18/12/2015		28/01/2016		11/02/2016		26/03/2016	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	7.72	7.71	7.94	7.95	7.63	7.87	7.80	8.02	7.64	7.80	7.66	7.92
2	Temperature	°C	29	30	28	29	28	29	28	29	29	30	29	30
3	Total Suspended Solids	mg/l	300	340	240	330	260	320	280	360	258	318	220	290
4	BOD (3 Days @ 27°C)	mg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
5	Dissolved Oxygen	mg/l	5.4	4.8	5.6	4.4	5.8	4.6	5.2	4.6	5.8	4.6	5.4	4.8
6	Salinity	ppt	35.44	36.08	35.20	36.30	36.20	36.90	35.63	36.71	36.24	36.98	35.18	35.96
7	Oil & Grease	mg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
8	Nitrate as NO ₃	mg/l	0.030	0.045	0.056	0.080	0.046	0.059	0.046	0.076	0.045	0.061	0.030	0.075
9	Nitrite as NO ₂	mg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
10	Ammonical Nitrogen as NH ₃	mg/l	1.72	3.86	2.6	4.8	2.02	3.86	2.1	3.72	2.04	3.88	1.92	2.94
11	Phosphates as PO ₄	mg/l	2.12	3.73	0.42	0.45	3.56	4.1	0.64	0.70	3.54	4.13	0.72	0.81
12	Total Nitrogen	mg/l	1.76	3.9	2.66	4.88	2.06	3.91	2.14	3.79	2.08	3.94	1.95	3.015
13	Petroleum Hydrocarbon	µg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
14	Total Dissolved Solids	mg/l	45080	46390	31464	30894	42830	43218	38440	38250	43020	43810	39860	40570
15	COD	mg/l	24	28	30	32	24	28	26	16	24	28	24	19
16	Oxidisable Particular Organic Carbon	%	1.3	0.7	0.8	0.3	1.33	0.66	0.92	0.44	1.34	0.67	1.6	0.92
A	Flora and Fauna													
17.1	Primary Productivity	mgC/l/day	2.138	0.788	1.91	0.67	2.58	0.67	1.76	0.55	2.50	0.788	2.81	0.585
B	Phytoplankton													
18.1	Chlorophyll	mg/m ³	1.62	0.801	1.762	0.828	2.61	0.48	1.7	0.64	3.55	0.561	3.23	0.481
18.2	Phaeophytin	mg/m ³	0.259	1.049	0.256	0.817	BDL*	0.99	0.202	1.01	BDL*	1.7	BDL*	1.66
18.3	Cell Count	Unit x 10 ⁻³ /l	316	66	370	88	201	69	270	78	296	76	228	64
18.4	Name of Group Number and name of group species of each group	--	Bacillariophyceae Asterionella sp. Fragillaria sp. Pleurosigma sp. Rhizosolenia sp. Gomphonema sp. Skeletonema sp. Green algae Chlorella sp. Pandorina sp. Scenedesmus sp.	Bacillariophyceae Nitzschia sp. Navicula sp. Biddulphia sp. Cyanophyceae Spirulina sp. Oscillatoria sp. Lyngbya sp. Desmids Cosmarium sp. -- -- --	Bacillariophyceae Pinnularia sp. Rhizosolenia sp. Fragillaria sp. Synedra sp. Melosira sp. -- -- -- Gomphonema sp. Cyanophyceae	Bacillariophyceae Cyanophyceae Gyrosigma sp. Gomphonema sp. Biddulphia sp. Navicula sp. Pinnularia sp. Microcystis sp. Oscillatoria sp. Ankistrodesmus sp. Green Algae Chlorella sp. Pediastrum sp.	Bacillariophyceae Gyrosigma sp. Pinnularia sp. Thallasionema sp. Pleurosigma sp. Coscinodiscus sp. Asterionella sp. Biddulphia sp. Cyanophyceae Oscillatoria sp. Green Algae Chlorella sp. Scenedesmus sp. Spirulina sp. Green Algae	Bacillariophyceae Fragillaria sp. Melosira sp. Synedra sp. Pinnularia sp. Skeletonema sp. Asterionella sp. Cymbella sp. Cyanophyceae Oscillatoria sp. Green Algae Chlorella sp. Scenedesmus sp. -- -- --	Bacillariophyceae Fragillaria sp. Synedra sp. Biddulphia sp. Gyrosigma sp. Pinnularia sp. Skeletonema sp. Asterionella sp. Gomphonema sp. Cyanophyceae Green Algae Chlorella sp. Pediastrum sp. -- -- --	Bacillariophyceae Nitzschia sp. Synedra sp. Coscinodiscus sp. Thallasiosira sp. Pinnularia sp. Skeletonema sp. Chlorella sp. Gyrosigma sp. Cyanophyceae Green Algae Chlorella sp. Pandorina sp. Scenedesmus sp.	Bacillariophyceae Fragillaria sp. Navicula sp. Synedra sp. Pleurosigma sp. Cyanophyceae Chlorella sp. Pediastrum sp. Oscillatoria sp. Green Algae Oscillatoria sp.	Bacillariophyceae Asterionella sp. Cheatoceros sp. Cocconeis sp. Cyclotella sp. Synedra sp. Pinnularia sp. Skeletonema sp. Cyanophyceae Microcystis sp. Oscillatoria sp. Nostoc sp. Green Algae Hydrodictyon sp.	Bacillariophyceae Navicula sp. Nitzschia sp. Fragillaria sp. Pinnularia sp. Coscinodiscus sp. Gomphonema sp. Cyanophyceae Spirulina sp. Oscillatoria sp. Green Algae	

S. No.	Test Parameters	Unit	RESULT OF THE SEA WATER											
			Oct-15		Nov-15		Dec-15		Jan-16		Feb-16		March-16	
			24/10/2015		21/11/2015		18/12/2015		28/01/2016		11/02/2016		26/03/2016	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
			Cyanophyceae Anabaena sp. Spirulina sp.		Oscillatoria sp. Green Algae Pandorina sp.	-- -- -- --	Chlorella sp. Pandorina sp. Pediastrum sp. Ulothrix sp.	-- -- -- --	Ankistrodesmus sp. Pandorina sp. Scenedesmus sp.	-- -- --	Green Algae Oscillatoria sp. Nostoc sp.	-- -- --		Chlorella sp. -- -- --
C	Zooplanktons													
19.1	Abundance (Population)	No./m ²	250	75	220	60	375	125	300	110	317	50	240	40
19.2	Name of Group Number and name of group species of each group	--	Echinoderms Copepods Polychaete worms Krill Isopods Nematodes Decapods	Copepods Rotifers Nematodes -- -- -- --	Chaetognaths Decapods Copepods Krill Cyclops	Ctenophora Copepods Rotifers -- --	Nauplius larvae Cyclops Decapods Isopods Nematodes	Decapods Rotifers Copepods -- --	Chaetognaths Copepods Crustaceans Krill Cyclops Decapods	Ctenophora Ostracods Copepods -- -- --	Polychaete worms Isopods Decapods Mysids Echinoderms Gastropods	Nematodes Echinoderms -- -- -- --	Copepods Decapods Gastropods Echinoderms Snail	Gastropods Echinoderms -- -- --
19.3	Total Biomass	ml/ 100 m ³	72	5.5	82.5	4.7	103	5.28	88	8.6	103	16.3	112	12.1
D	Microbiological Parameters													
20.1	Total Bacterial Count	CFU/ml	1780	1560	1620	1480	1340	1260	1680	1460	1310	1240	1960	1620
20.2	Total Coliform	/ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
20.3	E.coli	/ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
20.4	Enterococcus species	/ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
20.5	Salmonella species	/ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
20.6	Shigella species	/ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
20.7	Vibrio species	/ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent

Table No.: 4.2 - Sea Water Quality Analysis Results of MP1 West End Towards Channel from the Sea Basin:

S. No.	Test Parameters	Unit	RESULT OF THE SEA WATER											
			Oct-15		Nov-15		Dec-15		Jan-16		Feb-16		March-16	
			24/10/2015		21/11/2015		18/12/2015		28/01/2016		11/02/2016		26/03/2016	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	7.79	7.73	7.94	7.84	7.71	7.91	7.83	8.03	8.11	8.23	8.01	8.2
2	Temperature	°C	28	29	29	30	29	30	29	30	29	30	29	30
3	Total Suspended Solids	mg/l	260	310	250	300	244	330	270	320	242	326	246	306
4	BOD (3 Days @ 27 °C)	mg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
5	Dissolved Oxygen	mg/l	5.6	4.8	5.2	4.6	4.6	4.4	5	4.4	4.6	4.2	5.2	4.4
6	Salinity	ppt	35.02	35.47	35.5	36	34.88	35.8	34.96	35.6	34.8	35.7	34.88	35.46
7	Oil & Grease	mg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
8	Nitrate as NO ₃	mg/l	0.045	0.061	0.052	0.063	0.042	0.07	0.042	0.058	0.061	0.076	0.045	0.06
9	Nitrite as NO ₂	mg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
10	Ammonical Nitrogen as NH ₃	mg/l	2.14	2.77	1.7	4.0	4.8	3.0	2.3	3.2	5.06	3.24	2.61	3.6
11	Phosphates as PO ₄	mg/l	2.84	4	0.384	0.288	3.6	2.6	0.444	0.376	3.86	2.86	0.455	0.318
12	Total Nitrogen	mg/l	2.18	2.83	1.75	4.06	4.84	3.07	1.98	3.64	5.12	3.31	2.65	3.66
13	Petroleum Hydrocarbon	µg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
14	Total Dissolved Solids	mg/l	44420	45120	30894	32547	43280	44020	35720	37340	43650	43750	44440	45260
15	COD	mg/l	19	14	20	24	20	16	16	22	19	14	24	28
16	Oxidisable Particular Organic Carbon	%	0.76	0.53	1.10	0.56	0.80	0.60	0.66	0.98	0.80	0.60	0.70	0.90
A	Flora and Fauna													
17.1	Primary Productivity	mgC/l/day	1.91	0.563	2.02	1.46	1.70	0.44	1.76	0.148	2.47	0.45	1.68	0.428
B	Phytoplankton													
18.1	Chlorophyll	mg/m ³	1.84	0.854	1.816	0.748	2.60	0.56	1.76	0.64	2.43	0.881	2.083	0.454
18.2	Phaeophytin	mg/m ³	0.214	0.809	0.446	0.729	BDL*	1.44	0.11	1.14	0.206	1.96	0.123	1.88
18.3	Cell Count	Unit x 10 ³ /l	328	76	356	98	196	52	280	80	201	62	254	78
18.4	Name of Group Number and name of group species of each group	--	Bacillariophyceae Amphora sp. Synedra sp. Cheatocerous sp. Gomphonema sp. Pinnularia sp. Rhizosolenia sp. Green Algae Ankistrodesmus sp. Chlorella sp. Ulothrix sp. Cyanophyceae Microcystis	Bacillariophyceae Asterionella sp. Pinnularia sp. Thallasionea sp. Gyrosigma sp. Green Algae Volvox sp. Chlorella sp. Ulothrix sp. Cyanophyceae Oscillatoria sp. Spirulina sp. Nostoc sp.	Bacillariophyceae Achnanthes sp. Biddulphia sp. Cocconeis sp. Gomphonema sp. Synedra sp. Green Algae Cyanophyceae Anabaena sp. Oscillatoria sp. Spirulina sp. Chlorella sp. Hydrodictyon sp.	Bacillariophyceae Pleurosigma sp. Rhizosolenia sp. Coscinodiscus sp. Microcystis sp. Cyanophyceae Oscillatoria sp. Spirulina sp. Anabaena sp. Fragillaria sp. Green Algae -- --	Bacillariophyceae Coscinodiscus sp. Pinnularia sp. Biddulphia sp. Cocconeis sp. Navicula sp. Nitzschia sp. Cyanophyceae Anabaena sp. Oscillatoria sp. Green Algae Chlorella sp. Spirogyra sp. Hydrodictyon	Bacillariophyceae Fragillaria sp. Achnanthes sp. Nitzschia sp. Thallasionea sp. Cymbella sp. Pleurosigma sp. Rhizosolenia sp. Anabaena sp. Green Algae Chlorella sp. Pandorina sp. Scenedesmus sp.	Bacillariophyceae Fragillaria sp. Pleurosigma sp. Pinnularia sp. Coscinodiscus sp. Cocconeis sp. Gomphonema sp. Fragillaria sp. Thallasiosira sp. Cyanophyceae Microcystis sp. Oscillatoria sp. Spirulina sp. Anabaena sp. Oscillatoria sp. Spirulina sp.	Bacillariophyceae Fragillaria sp. Pleurosigma sp. Pinnularia sp. Coscinodiscus sp. Thallasiosira sp. Cyanophyceae Asterionella sp. Fragillaria sp. Gyrosigma sp. Cymbella sp. Cyanophyceae Microcystis sp. Green Algae Nostoc sp.	Bacillariophyceae Fragillaria sp. Synedra sp. Coscinodiscus sp. Thallasiosira sp. Synedra sp. Thallasionea sp. Cyanophyceae Asterionella sp. Fragillaria sp. Oscillatoria sp. Cymbella sp. Cyanophyceae Microcystis sp. Green Algae Chlorella sp.	Bacillariophyceae Asterionella sp. Navicula sp. Coscinodiscus sp. Coscinodiscus sp. Synedra sp. Fragillaria sp. Melosira sp. Rhizosolenia sp. Biddulphia sp. Cyanophyceae Microcystis sp. Oscillatoria sp. Green Algae Hydrodictyon sp.	Bacillariophyceae Navicula sp. Fragillaria sp. Thallasionea sp. Cheatocerosus sp. Rhizosolenia sp. Cyanophyceae Oscillatoria sp. Spirulina sp. Green Algae Ankistrodesmus sp.	

S. No.	Test Parameters	Unit	RESULT OF THE SEA WATER											
			Oct-15		Nov-15		Dec-15		Jan-16		Feb-16		March-16	
			24/10/2015		21/11/2015		18/12/2015		28/01/2016		11/02/2016		26/03/2016	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
			sp. Oscillatoria sp.	--	--	--	sp. Desmids Cosmarium sp.	-- -- --	Green Algae Chlorella sp. Pandorina sp. Scenedesmus sp.	-- -- -- --	Green Algae Chlorella sp. Pandorina sp. Pediastrum sp.	-- -- -- --	Pediastrum sp. Ulothrix sp.	Pediastrum sp. Pandorina sp. sp. --
C	Zooplanktons													
19.1	Abundance (Population)	No./m ²	225	50	240	80	226	48	250	40	217	33	190	30
19.2	Name of Group Number and name of group species of each group	--	Nematodes Decapods Mysids Polychaete Chaetognath es Krill Isopods	Nematodes Polychaete worms -- -- -- -- --	Copepods Ostracods Mysids Chaetognath s Nematodes	Copepods Polychaete worms Ostracods -- -- -- --	Copepods Decapods Polychaete worms Ostracods Rotifers Krill	Ostracods Polychaete worms -- -- -- --	Copepods Decapods Crustaceans Ostracods Chaetognath s Krill	Copepods Polychaete worms Gastropods -- -- -- --	Isopods Decapods Gastropods Echinoderms Nematodes	Molluscs Foraminifera ns -- -- -- --	Copepods Gastropods Echinoderms Mysids Bivalves Krill	Polychaetes Worms Gastropods -- -- -- --
19.3	Total Biomass	ml/ 100 m ³	90	8.5	92.5	7.89	90.6	3.28	88.3	6.52	112	12.4	106	9.68
D	Microbiological Parameters													
20.1	Total Bacterial Count	CFU/ml	1760	1580	1820	1490	1850	1630	1520	1350	1880	1640	1810	1360
20.2	Total Coliform	/ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
20.3	E.coli	/ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
20.4	Enterococcus species	/ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
20.5	Salmonella species	/ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
20.6	Shigella species	/ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
20.7	Vibrio species	/ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent

Table No.: 4.3 - Sea Water Quality Analysis Results of CB1 End Towards Channel From Sea Basin:

S. No.	Test Parameters	Unit	RESULT OF THE SEA WATER											
			Oct-15		Nov-15		Dec-15		Jan-16		Feb-16		March-16	
			24/10/2015		21/11/2015		18/12/2015		28/01/2016		11/02/2016		26/03/2016	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	7.72	7.76	7.97	7.94	7.55	7.62	7.66	8.03	8.22	8.30	7.46	8.04
2	Temperature	°C	28	29	28	29	28	29	29	30	28	30	29	30
3	Total Suspended Solids	mg/l	460	666	320	370	354	472	280	520	360	480	340	730
4	BOD (3 Days @ 27 °C)	mg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
5	Dissolved Oxygen	mg/l	5.8	4.6	5.3	4.8	5.6	4.6	5.2	4.4	5.6	4.4	5.2	4.6
6	Salinity	ppt	33.8	34.4	35.3	36.4	33.3	34.3	34.76	36.52	33.28	34.3	35.84	36.18
7	Oil & Grease	mg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
8	Nitrate as NO ₃	mg/l	0.084	0.076	0.093	0.106	0.06	0.075	0.088	0.074	0.061	0.076	0.075	0.09
9	Nitrite as NO ₂	mg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
10	Ammonical Nitrogen as NH ₃	mg/l	2.18	2.6	2.2	2.7	2.2	2.72	2.4	2.53	2.24	2.9	2.08	2.48
11	Phosphates as PO ₄	mg/l	2.84	2.02	0.391	0.432	2.66	2.82	0.588	0.684	2.70	2.95	0.637	0.728
12	Total Nitrogen	mg/l	2.27	2.67	2.293	2.806	2.26	2.79	2.48	3	2.03	2.97	2.15	2.57
13	Petroleum Hydrocarbon	µg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
14	Total Dissolved Solids	mg/l	41760	42980	31350	32262	41260	42890	40010	42010	41620	42530	41140	42080
15	COD	mg/l	24	19	26	22	20	14	22	18	19	24	28	19
16	Oxidisable Particular Organic Carbon	%	0.58	0.42	0.83	0.51	0.58	0.38	0.73	0.5	0.64	0.44	0.84	0.56
A	Flora and Fauna													
17.1	Primary Productivity	mgC/l/day	2.58	0.675	2.13	0.563	2.26	0.54	1.86	0.44	1.57	0.225	2.13	0.54
B	Phytoplankton													
18.1	Chlorophyll	mg/m ³	1.78	0.668	1.255	0.854	2.14	0.68	1.38	0.44	1.76	0.107	2.189	0.481
18.2	Phaeophytin	mg/m ³	0.099	1.108	1.007	1.2	BDL*	1.28	0.902	1.13	0.817	2.472	0.091	1.781
18.3	Cell Count	Unit x 10 ³ /l	320	80	304	76	208	60	286	70	234	85	224	59
18.4	Name of Group Number and name of group species of each group	--	Bacillariophyceae Coscinodiscus sp. Cymbella sp. Biddulphia sp. Synedra sp. Skeletonema sp. Asterionella sp. Gyrosigma sp. Pinnularia sp. Green Algae Ankistrodesmus sp.	Bacillariophyceae Amphora sp. Biddulphia sp. Coscinodiscus sp. Pleurosigma sp. Cyanophyceae Microcystis sp. Nostoc sp. Green Algae Ankistrodesmus sp.	Bacillariophyceae Navicula sp. Fragillaria sp. Coscinodiscus sp. Anabaena sp. Gyrosigma sp. Skeletonema sp. Cyanophyceae Cheatoceros sp. Green Algae Oscillatoria	Bacillariophyceae Cheatoceros sp. Cymbella sp. Biddulphia sp. Gomphonema sp. Pinnularia sp. Green Algae Ulothrix sp. Tabellaria sp. -- --	Bacillariophyceae Asterionella sp. Coscinodiscus sp. Fragillaria sp. Synedra sp. Thalassiosira sp. Tabellaria sp. Pleurosigma sp. Cocconeis sp. Rhizosolenia sp. Cyanophyceae Chlorella	Bacillariophyceae Nitzschia sp. Navicula sp. Synedra sp. Biddulphia sp. Cheatoceros sp. Cyanophyceae Oscillatoria sp. Green Algae Algae Chlorella	Bacillariophyceae Cheatoceros sp. Cocconeis sp. Fragillaria sp. Synedra sp. Coscinodiscus sp. Gyrosigma sp. Pinnularia sp. Cyanophyceae Pinnularia sp. Cyanophyceae Microcystis sp. Green Algae Ulothrix sp. Chlorella	Bacillariophyceae Skeletonema sp. Navicula sp. Asterionella sp. Synedra sp. Nitzschia sp. Coscinodiscus sp. Pleurosigma sp. Cyanophyceae Cyanophyceae Oscillatoria sp. Nostoc sp. Green	Bacillariophyceae Fragillaria sp. Navicula sp. Nitzschia sp. Pinnularia sp. Skeletonema sp. Coscinodiscus sp. Cyanophyceae Tabellaria sp. Cyanophyceae Microcystis sp.	Bacillariophyceae Fragillaria sp. Gyrosigma sp. Nitzschia sp. Rhizosolenia sp. Thalassiosira sp. Skeletonema sp. Tabellaria sp. Cyanophyceae Microcystis sp.	Bacillariophyceae Navicula sp. Fragillaria sp. Pinnularia sp. Synedra sp. Melosira sp. Cyanophyceae Anabaena sp. Oscillatoria sp. Green	

S. No.	Test Parameters	Unit	RESULT OF THE SEA WATER											
			Oct-15		Nov-15		Dec-15		Jan-16		Feb-16		March-16	
			24/10/2015		21/11/2015		18/12/2015		28/01/2016		11/02/2016		26/03/2016	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
			Pandorina sp. Ulothrix sp. Oedogonium sp. Cyanophyceae Anabaena sp. Nostoc sp. Spirulina sp.	Pandorina sp. Volvox sp. Spirogyra sp. -- -- -- --	sp. Spirulina sp. Chlorella sp. --	-- -- --	ae Oscillatoria sp. Microcystis sp. Phormidium sp. Green Algae Chlorella sp. Pediastrum sp. Ankistrodesmus sp.	sp. Desmids Cosmarium sp. -- -- -- --	sp. Oscillatoria sp. Spirulina sp. Green Algae Ankistrodesmus sp. Chlorella sp. Scenedesmus sp.	-- -- -- --	Algae Chlorella sp. Pediastrum sp. Ulothrix sp.	Scenedesmus sp. -- -- --	Oscillatoria sp. Nostoc sp. Green Algae Ankistrodesmus sp. Chlorella sp. Pediastrum sp.	Algae Pandorina sp. Pediastrum sp. Chlorella sp. -- -- --
C	Zooplanktons													
19.1	Abundance (Population)	No./m ²	225	25	200	50	270	90	248	75	267	17	210	20
19.2	Name of Group Number and name of group species of each group	--	Copepods Decapods Nematodes Echinoderms Isopods Bivalves Mysids	Copepods -- -- -- -- -- --	Copepods Ostracods Echinoderm s Crustacean s --	Decapods Crustaceans -- -- -- --	Copepods Gastropods Decapods Crustaceans Ostracods Rotifera Polychaete worms	Foraminifera Polychaete worms Cyclops -- -- --	Copepods Gastropods Ctenophore s Crustacean s Ostracods Cyclops	Decapods Crustacean s -- -- --	Polychaete worms Gastropods Nematodes Echinoderms	Nematode s -- -- --	Copepods Mysids Echinoderms Molluscs Ostracods	Nematodes Snail -- -- --
19.3	Total Biomass	ml/ 100 m ³	82	3.2	89	6.8	82.5	1.28	80	7.4	82.5	1.32	110	8.9
D	Microbiological Parameters													
20.1	Total Bacterial Count	CFU/ml	1820	1760	1660	1450	1620	1320	1620	1380	1700	1430	1470	1220
20.2	Total Coliform	/ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
20.3	E.coli	/ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
20.4	Enterococcus species	/ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
20.5	Salmonella species	/ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
20.6	Shigella species	/ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
20.7	Vibrio species	/ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent

E: SEA SEDIMENT QUALITY MONITORING: -

Table No.: 5.1 - Sea Sediment Quality Results of CB2 South End Towards Landside:

S. NO.	PARAMETERS	UNIT	CB2 SOUTH END TOWARDS LANDSIDE FROM SEA BASIN (N - 21° 05.163' E - 72° 37.408')					
			Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
			24/10/15	21/11/15	18/12/15	28/01/16	11/02/16	26/03/16
1	Organic Matter	%	0.565	0.68	0.7	0.69	0.753	0.72
2	Phosphorus as P	mg/kg	200	170	192	233	195	250
3	Texture	--	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt
4	Petroleum Hydrocarbon	mg/kg	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
5	Heavy Metals							
5.1	Aluminum as Al	%	5.38	5.8	5.47	5.47	5.47	5.38
5.2	Total Chromium as Cr ⁺³	mg/kg	108	96	117	136	118	122
5.3	Manganese as Mn	mg/kg	490	690	596	491	594	505
5.4	Iron as Fe	%	2.84	2.08	1.86	2.67	1.86	2.71
5.5	Nickel as Ni	mg/kg	80	72	70	66.27	72.7	59.3
5.6	Copper as Cu	mg/kg	52	52	52	58.28	54.34	86.37
5.7	Zinc as Zn	mg/kg	194	200	218	195	218	184
5.8	Lead as Pb	mg/kg	1.5	1.38	1.09	1.38	1.092	1.39
5.9	Mercury as Hg	mg/kg	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
6	Benthic Organisms							
6.1	Macrobenthos (No and name of groups present, No and name of species of each group present)	--	Polychaete worms Echinoderms Isopods Decapods	Polychaete worms Echinoderms Amphipods Decapods	Polychaete worms Echinoderms Mysids Decapods	Polychaete worms Echinoderms Amphipods Decapods	Polychaete worms Decapods Mysids	Crabs Echinoderms Polychaete worms Mysids
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	--	Nematodes Foraminiferans	Nematodes Foraminiferans	Nematodes Copepods	Nematodes Foraminiferans	Nematodes Foraminiferans	Nematodes
6.3	Population	No./m ²	387	440	337	320	385	314

Table No.: 5.2 - Sea Sediment Quality Results of MP1 West End Towards Channel of Sea Basin:

S. NO.	PARAMETERS	UNIT	MP1 WEST END TOWARDS CHANNEL OF SEA BASIN (N - 21° 05.032' E - 72° 37.943')					
			Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
			24/10/15	21/11/15	18/12/15	28/01/16	11/02/16	26/03/16
1	Organic Matter	%	0.76	0.66	0.58	0.56	0.611	0.585
2	Phosphorus as P	mg/kg	254	250	244	242	240	221
3	Texture	--	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt
4	Petroleum Hydrocarbon	mg/kg	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
5	Heavy Metals							
5.1	Aluminum as Al	%	5.41	5.4	5.22	5.28	5.17	5.24
5.2	Total Chromium as Cr ⁺³	mg/kg	119	140	130	130	136	123
5.3	Manganese as Mn	mg/kg	680	720	590	660	592	582
5.4	Iron as Fe	%	2.45	2.88	2.22	2.58	2.24	2.75
5.5	Nickel as Ni	mg/kg	76	65	68	74	68.6	80.46
5.6	Copper as Cu	mg/kg	52	42	54	48	54.4	66.26
5.7	Zinc as Zn	mg/kg	153	148	156	104	158	152
5.8	Lead as Pb	mg/kg	1.45	1.76	1.41	1.66	1.42	1.56
5.9	Mercury as Hg	mg/kg	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
6	Benthic Organisms							
6.1	Macrobenthos (No and name of groups present, No and name of species of each group present)	--	Echinoderms Isopods Decapods Nematodes Hydrozoa	Echinoderms Isopods Decapods	Echinoderms Polychaete worms Isopods Mysids	Echinoderms Isopods Decapods	Polychaete worms Decapods Echinoderms Mysids	Polychaete worms Chaetognaths Mysids
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	--		Gastropods Bryozoans Foraminiferans		Gastropods Bryozoans Foraminiferans	Foraminiferans	Foraminiferans
6.3	Population	No./m ²	288	377	314	366	337	252

Table No.: 5.3 - Sea Sediment Quality Results of CB1 End Towards Channel:

S. NO.	PARAMETERS	UNIT	CB1 END TOWARDS CHANNEL					
			Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
			24/10/15	21/11/15	18/12/15	28/01/16	11/02/16	26/03/16
1	Organic Matter	%	0.77	0.78	0.62	0.623	0.724	0.689
2	Phosphorus as P	mg/kg	246	242	240	184	291	236
3	Texture	--	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt
4	Petroleum Hydrocarbon	mg/kg	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
5	Heavy Metals							
5.1	Aluminum as Al	%	5.52	5.6	5.08	5.4	5.49	5.84
5.2	Total Chromium as Cr ⁺³	mg/kg	164	148	136	116	137	160
5.3	Manganese as Mn	mg/kg	520	521	420	630	496	423
5.4	Iron as Fe	%	4.22	2.24	4.48	2.64	4.88	3.66
5.5	Nickel as Ni	mg/kg	52	60	58	74	60.12	67.64
5.6	Copper as Cu	mg/kg	63.33	54	50	56	50.24	54.42
5.7	Zinc as Zn	mg/kg	189	181	172	180	220	171
5.8	Lead as Pb	mg/kg	1.7	1.7	1.46	1.26	1.42	1.59
5.9	Mercury as Hg	mg/kg	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
6	Benthic Organisms							
6.1	Macrobenthos (No and name of groups present, No and name of species of each group present)	--	Polychaete worms Mysids Crabs	Polychaete worms Echinoderms Amphipods	Polychaete worms Isopods Decapods	Polychaete worms Echinoderms Amphipods	Polychaete worms Echinoderms Decapods Isopods	Polychaete worms Echinoderms Isopods
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	--	Hydrozoa Nematodes	Copepods Bryozoans Hydrozoa	Foraminiferans Bryozoans Hydrozoa	Copepods Bryozoans Hydrozoa	Nematodes	Nematodes Copepods
6.3	Population	No./m2	240	385	288	360	240	385

F. AMBIENT NOISE LEVEL MONITORING: -

Table No.: 6.1 - Ambient Noise Level Monitoring Results During Day Time In Leq. dB(A):

Sampling Location	1 - Near Port Gate No.: 2					
Longitude Latitude	N 21° 05.426' E 72°37.739'					
Date of Monitoring	16/10/15	10/11/15	18/12/15	12/01/16	04/02/16	03/03/16
6:00-7:00	53.8	49.6	47.7	49.2	47.9	46.4
7:00-8:00	53.4	57.6	59.6	61.7	61.7	61.6
8:00-9:00	60.1	57	58.1	54.8	53.1	54
9:00-10:00	62.1	57.1	58.1	55.9	54.7	57.4
10:00-11:00	62.3	65.8	66.1	65	62.9	60.2
11:00-12:00	60.6	56	58.2	56.7	58	59.5
12:00-13:00	60.8	64.6	67.1	69.3	67.7	70.6
13:00-14:00	60.5	55.9	55.9	53.5	52.3	52.8
14:00-15:00	65.4	66.5	68.5	71	68.4	66.4
15:00-16:00	68.9	68.9	67.1	65.9	66.1	66.2
16:00-17:00	66.4	71.3	69.2	69.4	67.5	70.1
17:00-18:00	57.2	58.2	56.9	57.9	60	60.9
18:00-19:00	66.8	66.4	65.4	66.9	69	66.4
19:00-20:00	65	67.1	69.1	66.2	65	66.3
20:00-21:00	60.4	60.5	58.6	55.3	54.6	53.4
21:00-22:00	59.6	56	57.1	57.3	58.7	59.3
*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.						
Day time shall mean from 6.00 a.m. to 10.00 p.m. Night time shall mean from 10.00 p.m. to 06.00 a.m.						

Table No.: 6.2 - Noise Level Monitoring Results During Night Time In Leq. dB(A):

Sampling Location	1 - Near Port Gate No.: 2					
Longitude Latitude	N 21° 05.426' E 72°37.739'					
Date of Monitoring	16/10/15 & 17/10/15	10/11/15 & 11/11/15	18/12/15 & 19/12/15	12/01/16 & 13/01/16	05/02/16 & 06/02/16	03/03/16 & 04/03/16
22:00-23:00	63.3	67.1	67.7	68.6	69.7	67.0
23:00-00:00	59.4	61.9	62.9	65.4	62.4	59.8
00:00-01:00	57.4	61.9	61.1	62.7	61.6	64.9
01:00-02:00	56.3	52.1	50.2	52.8	50.3	50.8
02:00-03:00	48.6	47.0	49.0	51.9	52.0	53.6
03:00-04:00	49.6	45.1	47.4	48.6	50.0	47.8
04:00-05:00	49.2	45.0	46.0	47.2	45.7	45.0
05:00-06:00	49.4	46.9	47.0	44.0	42.8	45.3
*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.						
Day time shall mean from 6.00 a.m. to 10.00 p.m. Night time shall mean from 10.00 p.m. to 06.00 a.m.						

Table No.: 6.3 - Ambient Noise Level Monitoring Results During Day Time In Leq. dB(A):

Sampling Location	2 - Near STP					
Longitude Latitude	N 21° 05.211' E 72° 38.605'					
Date of Monitoring	23/10/15	19/11/15	24/12/15	08/01/16	11/02/16	18/03/16
6:00-7:00	64.0	60.3	60.8	58.9	57.0	55.8
7:00-8:00	64.3	67.3	68.3	70.4	70.7	70.3
8:00-9:00	67.5	62.8	63.0	64.4	64.2	64.4
9:00-10:00	65.7	60.9	60.8	61.5	59.8	61.6
10:00-11:00	69.3	73.8	74.3	73.6	72.3	72.6
11:00-12:00	64.5	64.4	62.4	60.2	61.9	64.0
12:00-13:00	68.1	64.8	64.7	62.9	61.1	59.4
13:00-14:00	69.9	70.6	70.7	69.5	71.2	70.6
14:00-15:00	69.4	66.7	65.8	67.8	68.4	70.3
15:00-16:00	72.6	68.1	68.3	65.3	62.6	60.9
16:00-17:00	71.1	69.7	71.3	69.5	67.4	70.3
17:00-18:00	69.5	68.7	67.3	67.5	66.1	67.3
18:00-19:00	71.6	69.2	71.4	69.5	71.2	68.6
19:00-20:00	64.8	61.5	62.4	65.3	67.8	67.4
20:00-21:00	60.7	62.0	61.1	58.7	57.6	58.8
21:00-22:00	67.6	64.1	65.1	66.4	65.4	67.0
*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.						
Day time shall mean from 6.00 a.m. to 10.00 p.m. Night time shall mean from 10.00 p.m. to 06.00 a.m.						

Table No.: 6.4 - Noise Level Monitoring Results During Night Time In Leq. dB(A):

Sampling Location	2 - Near STP					
Longitude Latitude	N 21° 05.211' E 72° 38.605'					
Date of Monitoring	23/10/15 & 24/10/15	19/11/15 & 20/11/15	24/12/15 & 25/12/15	08/01/16 & 09/01/16	11/02/16 & 12/02/16	18/03/16 & 19/03/16
22:00-23:00	66.3	67.1	66.7	67.4	68.5	65.5
23:00-00:00	69.1	69.9	65.3	68	68.4	68.4
00:00-01:00	60.1	55.6	54.3	56.4	54.4	53.4
01:00-02:00	67.8	63.3	62.3	61.9	59.4	61.3
02:00-03:00	68.2	66	64.6	65	65.4	68.8
03:00-04:00	65.4	68.9	68.6	67.6	68.5	69
04:00-05:00	66.3	67.8	67.7	68.3	69.7	68.2
05:00-06:00	64.5	60.1	60.6	57.7	60.9	63.5
*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.						
Day time shall mean from 6.00 a.m. to 10.00 p.m. Night time shall mean from 10.00 p.m. to 06.00 a.m.						

Table No.: 6.5 - Ambient Noise Level Monitoring Results During Day Time In Leq. dB(A):

Sampling Location	3 - Central Water Pump House					
Longitude Latitude	N 21° 04.697' E 72° 38.420'					
Date of Monitoring	15/10/15	05/11/15	04/12/15	01/01/16	11/02/16	11/03/16
6:00-7:00	64.5	62.2	63.7	60.7	63.6	61.8
7:00-8:00	66.6	66.4	68.4	67.3	65.7	67.3
8:00-9:00	64.4	68.1	70.3	70.7	73.9	71.6
9:00-10:00	69	68.4	68.6	66.7	66.8	70.3
10:00-11:00	69.9	74.7	73.2	70	70.5	72.8
11:00-12:00	71.1	71	69.1	70.9	68.2	65.3
12:00-13:00	74.1	74.8	73.3	73.6	74.1	74.3
13:00-14:00	74.4	73.8	73.7	73.1	71.5	72.1
14:00-15:00	73	71.3	71.8	68.5	69.1	67.9
15:00-16:00	70.3	66	64.4	65.2	66.9	68.5
16:00-17:00	69.2	70.2	71.7	68.5	67.9	71.3
17:00-18:00	71	72.5	71.5	71.1	70	68.9
18:00-19:00	71.9	71.5	71.2	71	73.3	74
19:00-20:00	74.5	73.1	73.6	74.7	73.8	74.5
20:00-21:00	63.3	62.5	60.4	58.9	59.2	58.7
21:00-22:00	67.8	64.6	62.4	65.1	62.8	65.4
*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.						
Day time shall mean from 6.00 a.m. to 10.00 p.m. Night time shall mean from 10.00 p.m. to 06.00 a.m.						

Table No.: 6.6 - Noise Level Monitoring Results During Night Time In Leq. dB(A):

Sampling Location	3 - Central Water Pump House					
Longitude Latitude	N 21° 04.697' E 72° 38.420'					
Date of Monitoring	15/10/15 & 16/10/15	05/11/15 & 06/11/15	04/12/15 & 05/12/15	01/01/16 & 02/01/16	12/02/16 & 13/02/16	11/03/16 & 12/03/16
22:00-23:00	61.7	58.9	61.1	59.6	60.7	63.4
23:00-00:00	64.8	65.8	64.0	62.0	61.5	61.9
00:00-01:00	65.4	68.9	65.1	66.2	66.7	64.3
01:00-02:00	64.4	67.9	66.0	67.8	68.6	69.2
02:00-03:00	57.4	54.1	56.0	56.8	59.8	58.3
03:00-04:00	59.8	60.6	59.6	57.7	60.4	62.0
04:00-05:00	63.4	67.9	69.6	67.3	67.5	66.7
05:00-06:00	56.5	57.7	57.9	60.1	61.2	60.7
*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.						
Day time shall mean from 6.00 a.m. to 10.00 p.m. Night time shall mean from 10.00 p.m. to 06.00 a.m.						

Table No.: 6.7 - Noise Level Monitoring Results During Day Time In Leq. dB(A):

Sampling Location	4 - Container Terminal					
Longitude Latitude	N 21° 05.187' E 72° 37.774'					
Date of Monitoring	22/10/15	26/11/15	10/12/15	09/01/16	12/02/16	05/03/16
6:00-7:00	58.5	57.1	57.8	58.2	60.6	60.9
7:00-8:00	58.4	54.4	53.4	55.1	52.9	51.9
8:00-9:00	62.6	58.1	59.2	59.8	58.5	55.9
9:00-10:00	61.7	61.2	59.2	55.9	53.6	56.0
10:00-11:00	65.2	61.9	63.4	64.3	66.1	65.8
11:00-12:00	58.9	59.9	60.5	58.4	55.9	58.7
12:00-13:00	57.7	57.2	58.1	58.7	59.0	61.6
13:00-14:00	61.5	64.4	64.6	66.9	64.0	61.1
14:00-15:00	67.4	63.1	63.9	64.3	66.5	68.7
15:00-16:00	66.1	69.6	67.1	66.4	69.1	69.9
16:00-17:00	66.9	71.9	70.4	67.2	68.2	71.6
17:00-18:00	64.9	67.7	70.1	72.5	71.0	71.1
18:00-19:00	58.9	62.4	63.5	60.2	58.1	56.2
19:00-20:00	62.5	65.2	65.3	66.9	66.7	68.3
20:00-21:00	57.5	53.3	55.4	56.2	54.6	52.7
21:00-22:00	60.1	60.5	60.0	58.5	58.7	59.0
*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.						
Day time shall mean from 6.00 a.m. to 10.00 p.m. Night time shall mean from 10.00 p.m. to 06.00 a.m.						

Table No.: 6.8 - Noise Level Monitoring Results During Night Time In Leq. dB(A):

Sampling Location	4 - Container Terminal					
Longitude Latitude	N 21° 05.187' E 72° 37.774'					
Date of Monitoring	22/10/15 & 23/10/15	26/11/15 & 27/11/15	10/12/15 & 11/12/15	09/01/16 & 10/01/16	12/02/16 & 13/02/16	05/03/16 & 06/03/16
22:00-23:00	61.1	62.2	61.4	61.6	63.2	62.6
23:00-00:00	61.5	65.1	66.0	63.2	63.3	66.6
00:00-01:00	63.5	67.2	69.4	66.2	65.8	63.5
01:00-02:00	59.0	61.8	64.2	62.0	61.4	62.9
02:00-03:00	63.6	59.7	57.6	54.1	53.2	52.2
03:00-04:00	58.3	61.9	62.0	60.4	59.0	56.2
04:00-05:00	64.0	59.9	57.9	54.4	52.8	53.0
05:00-06:00	58.2	53.4	52.2	54.1	54.7	56.4
*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.						
Day time shall mean from 6.00 a.m. to 10.00 p.m. Night time shall mean from 10.00 p.m. to 06.00 a.m.						

Table No.: 6.9 - Noise Level Monitoring Results During Day Time In Leq. dB(A):

Sampling Location	5 - Hazira Village					
Longitude Latitude	N 21° 05.44' E 72° 38.44'					
Date of Monitoring	29/10/15	28/11/15	31/12/15	28/01/16	19/02/16	19/03/16
6:00-7:00	66.2	66.4	67.8	69.3	68.4	67.4
7:00-8:00	69.6	70.8	68.5	71.5	74.8	74.7
8:00-9:00	68.1	69.1	69.9	69	71.9	70.8
9:00-10:00	73.5	74.1	70.6	71.6	69.4	69.7
10:00-11:00	74.6	73.2	72.9	70.4	70.7	70.6
11:00-12:00	74.4	72.6	71.9	70.1	67.1	65.4
12:00-13:00	73.9	74.1	72.4	69.1	66.8	68.8
13:00-14:00	73.5	74.1	73.4	72	73	70.1
14:00-15:00	74.8	70.2	71.4	72.1	69.5	70
15:00-16:00	70.4	65.5	67.1	63.7	67.2	70.4
16:00-17:00	68.9	70.6	69.5	67.5	69.2	69.4
17:00-18:00	69.8	66.4	67.2	63.8	66.4	64.8
18:00-19:00	73.9	70.5	71.3	72.1	73.3	73.1
19:00-20:00	66.3	70.8	70.2	72.6	73	73.6
20:00-21:00	67.9	64.8	66.2	64.2	66.4	68.3
21:00-22:00	69.3	66.6	64.5	62.2	64	67.2
*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.						
Day time shall mean from 6.00 a.m. to 10.00 p.m. Night time shall mean from 10.00 p.m. to 06.00 a.m.						

Table No.: 6.10 - Noise Level Monitoring Results During Night Time In Leq. dB(A):

Sampling Location	5 - Hazira Village					
Longitude Latitude	N 21° 05.44' E 72° 38.44'					
Date of Monitoring	29/10/15 & 30/10/15	28/11/15 & 29/11/15	31/12/15 & 01/01/16	28/01/16 & 29/01/16	19/02/16 & 20/02/16	19/03/16 & 20/03/16
22:00-23:00	58.6	54.6	55.7	56.8	58.4	61
23:00-00:00	58.6	58.7	57.7	54.3	53.6	53.3
00:00-01:00	66.3	61.3	63.2	62.3	60.8	57.9
01:00-02:00	64.6	67.6	67.7	69.3	68.2	69.6
02:00-03:00	67.2	64.3	62.3	59.4	57.4	60.4
03:00-04:00	61.3	60.9	59.6	58.9	58.9	60.6
04:00-05:00	66.8	66.7	64.8	64.4	63.3	63.3
05:00-06:00	63.3	67.3	67.1	63.6	61	63.4
*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.						
Day time shall mean from 6.00 a.m. to 10.00 p.m. Night time shall mean from 10.00 p.m. to 06.00 a.m.						

G. DG SETS STACK EMISSION MONITORING: -

Table No.: 7.1 - DG Set Stack Emission Monitoring Results:

S. No.	Parameters	Unit	06/11/2015			Limit
			DG Set TOYO DENKI -1	DG Set TOYO DENKI -2	DG Set TOYO DENKI -3	
1	Particulate Matter	mg/Nm ³	22.75	18.27	25.56	150
2	Sulphur Dioxide	ppm	5.74	6.56	4.50	100
3	Oxide of Nitrogen	ppm	37.84	34.34	32.74	50
4	Carbon Monoxide (CO)	mg/m ³	7.93	4.82	6.13	Not Specified
5	Non Methyl Hydro Carbon (NMHC)	mg/m ³	BDL*	BDL*	BDL*	Not Specified

Table No.: 7.2 - DG Set Stack Emission Monitoring Results:

S. No.	Parameters	Unit	26/03/2016			Limit
			DG Set TOYO DENKI -1	DG Set TOYO DENKI -2	DG Set TOYO DENKI -3	
1	Particulate Matter	mg/Nm ³	14.55	12.40	19.52	150
2	Sulphur Dioxide	ppm	4.64	5.88	7.10	100
3	Oxide of Nitrogen	ppm	35.78	32.30	39.10	50
4	Carbon Monoxide (CO)	mg/m ³	5.29	8.38	6.54	Not Specified
5	Non Methyl Hydro Carbon (NMHC)	mg/m ³	BDL*	BDL*	BDL*	Not Specified

H. DG SETS NOISE LEVEL MONITORING: -

Table No.: 8.1 - DG Sets Noise Level Monitoring Results:

S. No.	Sampling Date	06/11/2015	
	Sampling Location	Average Noise Level In Leq. dB(A)	
		At 1 m from the enclose (S)	At 1 m from the enclose (N)
1.	DG SET TOYO DENKI -1	72.4	69.4
2.	DG SET TOYO DENKI -2	71.6	68.8
3.	DG SET TOYO DENKI -3	72.9	69.7

Table No.: 8.2 - DG Sets Noise Level Monitoring Results:

S. No.	Sampling Date	26/03/2016	
	Sampling Location	Average Noise Level In Leq. dB(A)	
		At 1 m from the enclose (S)	At 1 m from the enclose (N)
1.	DG SET TOYO DENKI -1	73.6	69.5
2.	DG SET TOYO DENKI -2	72.5	69.2
3.	DG SET TOYO DENKI -3	72.2	68.4

I. DUMP POND WATER QUALITY MONITORING: -

Table No.: 9.1 - Dump Pond Water Quality Monitoring Results:

S. No.	Parameters	Unit	28/01/2016
			Result
1	pH	--	8.4
2	Total Dissolved Solids	mg/l	210
3	Total Suspended Solids	mg/l	114
4	Turbidity	NTU	12.2
5	BOD (3 Days @ 27 °C)	mg/l	BDL*
6	Dissolved Oxygen	mg/l	6
7	COD	mg/l	32
8	Salinity	ppt	0.072
9	Oil & Grease	mg/l	BDL*
10	Total Hardness as CaCO ₃	mg/l	56
11	Fluoride as F	mg/l	BDL*
12	Chloride as Cl	mg/l	40.9
13	Zinc as Zn	mg/l	0.016
14	Cadmium as Cd	mg/l	BDL*
15	Lead as Pb	mg/l	BDL*
16	Mercury as Hg	mg/l	BDL*

J. SURFACE WATER QUALITY MONITORING: -

Table No.: 10.1 - Surface Water Quality Monitoring Results:

S. No.	Parameters	Unit	Results (Mora Village)					
			Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
			29/10/15	28/11/15	17/12/15	31/01/16	25/02/16	26/03/16
1	Odour	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
2	Colour	Hazen	2	2	2	4	5	4
3	Taste	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	pH Value	--	8..43	8.12	8.42	8.35	8.08	7.96
5	Turbidity	NTU	0.96	0.86	0.23	0.98	0.83	0.88
6	Total Dissolved Solids	mg/l	472	416	470	456	498	490
7	Total Hardness as CaCO ₃	mg/l	198	144	90	168	172	170
8	Chloride as Cl	mg/l	48.98	98.99	110	110	126	122
9	Fluoride as F	mg/l	0.78	0.42	0.44	0.52	0.48	0.44
10	Iron as Fe	mg/l	0.22	0.63	0.28	0.48	0.53	0. 24
11	Coliform	/100 ml	Absent	Absent	Absent	Absent	Absent	Absent
12	E-Coli	/100 ml	Absent	Absent	Absent	Absent	Absent	Absent


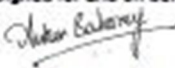
ANNEXURE - 5

Annexure - 5: Environment Budget and Expenditure During The FY: 2015-16

S. No.	Activity/ Category	Budget (INR)	Expenditure (INR)
1	Environmental Study / Audit and Consultancy	10,41,570	10,46,000
2	Legal & Statutory Expenses	3,00,000	3,36,270
3	Environmental Monitoring Services	33,93,200	14,09,150
4	Mangrove Afforestation/Plantation	69,26,000	24,60,800
5	Hazardous Waste Management & Disposal	7,00,000	9,28,693
6	Greenbelt Development and Plantation	1,50,90,000	1,93,83,000
7	O&M of Sewage Treatment and Effluent Treatment Plants	55,76,600	17,93,724
8	Environment Day Celebration	1,00,000	1,99,665
9	Treatment and Disposal of Bio-Medical Waste	1,00,000	44,000
Total Amount (INR)		3,32,27,370	2,76,01,302

ANNEXURE - 6

Annexure - 6: Public Liability Insurance Policy

HDFC ERGO General Insurance Company Limited			
Public Liability Insurance Policy (UNDER PUBLIC LIABILITY INSURANCE ACT 1991)			
SCHEDULE			
Policy No: 3133201064763101000			
Item 1. Insured	:	Adani Hazira Port Private Limited	
Item 2. Producer	:	Ace Insurance Brokers Private Limited	
Item 3. Financial Interest	:	Not Applicable	
Item 4. Mailing address of the Insured	:	At & PO Hazira, Choryasi, Surat, Gujarat - 394270	
Item 5. Business	:	Port and Cargo Handling, Operations and Stevedoring storage and Warehousing	
Item 6. Policy Period	:	From 00:01 hours : 01 April 2016 To (Midnight) : 31 March 2017	
Item 7. Premium	:	Rs. 48,381.00	
Item 8. Premium & Coverage Statement	:	Refer to Page 2	
8.1 Premium Computation			
8.2 Insurance Limits & Excess			
Item 9. Clauses, Conditions & Warranties	:		
Form Number	Form Name	Effective Date	Date Issued
PL-02-0032	Policy Schedule	01 April 2016	19 April 2016
PL-02-0009	Limitation to Designated Premises or Projects	01 April 2016	19 April 2016
PL-02-0031	Insurance Contract	01 April 2016	19 April 2016
Subject otherwise to terms and conditions of Public Liability Insurance Policy.			
Signed for and on behalf of HDFC ERGO General Insurance Company Limited, on 19 April 2016			
			
Authorised Signatory			
Service Tax Registration No: AABCH0738EST004			
The contract will be cancelled ab initio in case, the consideration under the policy is not realized.			
The stamp duty of Rs. 0.50/- (Fifty Paise only) paid by Demand Draft, vide Receipt/Challan no. 4032771201516 Date: 29/03/2016 as prescribed in Government Notification Revenue and Forest Department No Mudrak 2004/4125/C.R. 690/M-1, dated 31/12/2004			
Note: Where the proposal form is not received, information obtained from insured, whether orally or otherwise, is captured in the policy document. Discrepancies, if any, in the information contained in the policy document may be pointed out by an insured within 15 days from the policy issue date after which information contained in the policy document shall be deemed to have been accepted as correct.			
Intermediary Name	:	Ace Insurance Brokers Private Limited	
Intermediary Code	:	201805422660	
3133201064763101000		Page 1 of 10	

HDFC ERGO General Insurance Company Limited

Premium & Coverage Statement

(Item. 8 of Schedule, Attached to and forming part of Policy No: 3133201064763101000)

8.1 Premium Computation

Particulars	Amount (Rs.)
Net Premium w/o Terrorism	22,560.00
Add: Service Tax (incl. of Education Cess)	3,271.00
Add: Contribution to Environment Relief Fund	22,560.00
TOTAL	48,391.00

8.2 Insurance Limits & Excess
Insurance Limits

Details	Amount (Rs.)
Each Accident Insurance Limit	50,000,000.00
Aggregate Insurance Limit	150,000,000.00

Excess

Compulsory Excess	Not Applicable
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HDFC ERGO General Insurance Company Limited


Liability Insurance

Endorsement PL-02-0009

Policy Period	01 April 2016 to 31 March 2017
Effective Date	01 April 2016
Policy Number	3133201064763101000
Insured	Adani Hazira Port Private Limited
Name of Company	HDFC ERGO General Insurance Company Limited
Date issued	19 April 2016

The following provision is added to this policy.

Limitation To Designated Premises Or Project

This insurance only applies to injury or damage (to which this insurance applies), resulting from the ownership, maintenance or use of the Premises or Project shown in the Schedule, including property thereon and operations on such Premises or Project that are necessary and incidental to the ownership, maintenance or use of the Premises or Project.

Designated Premises or Project:

At & PO Hazira, Choryasi, Surat , Gujarat – 394270.

All other terms and conditions remain unchanged



Authorized Representative

ANNEXURE - 7

Annexure - 7: PESO License from Chief Controller of Explosive, Nagpur

फॉर्म XV
(प्रथम अनुसूची का अनुसूचक 6 संशोधन)
FORM XV
(see Article 6 of the First Schedule)

अधिकांश में पेट्रोलियम के अन्वेषण और संग्रहण के लिए अनुमति
LICENCE TO IMPORT AND STORE PETROLEUM IN AN INSTALLATION

अनुमति सं. (Licence No.) : P/HQ/GJ/15/5294(P270337)

फीस वार (Fee Rs.) 15000/- per year

M/s. Adani Hazira Port Private Limited, At & Post Hazira, Taluka: Choriyasi, District: SURAT, State: Gujarat, PIN: 394270 को केवल इसमें बताई गई मात्रा में पेट्रोलियम 379900.00 KL अन्वेषण करने के लिए और संग्रहण, सीधे बरतित और अनुमति प्राप्त योजना P/HQ/GJ/15/5294(P270337) तारीख 31/10/2013 को कि इससे उपर्युक्त है, में विचार पर स्थल पर पेट्रोलियम अधिनियम, 1934 के उपबंधों या उनके अधीन बनाए गए सिद्धांतों तथा इस अनुमति की अधिकार शर्तों के अधीन रहते हुए, यह अनुमति अनुमति की जाती है।

Licence is hereby granted to M/s. Adani Hazira Port Private Limited, At & Post Hazira, Taluka: Choriyasi, District: SURAT, State: Gujarat, PIN: 394270 valid only for the importation and storage of 379900.00 KL Petroleum of the class and quantities as herein specified and storage thereof in the place described below and shown on the approved plan No P/HQ/GJ/15/5294(P270337) dated 31/10/2013 attached hereto subject to the provisions of the Petroleum Act, 1934 and the rule made thereunder and to the further conditions of this Licence.

यह अनुमति 31st day of December 2015 तक प्रवृत्त रहेगी।
The Licence shall remain in force till the 31st day of December 2015

पेट्रोलियम का विवरण /Description of Petroleum	अनुमति मात्रा (किग्रा/लीटर में) /Quantity licenced in KL
कॉल का प्रथम पेट्रोलियम /Petroleum Class A in bulk	379900.00 KL
कॉल का प्रथम पेट्रोलियम से भिन्न /Petroleum Class A, otherwise than in bulk	NIL
कॉल का प्रथम पेट्रोलियम /Petroleum Class B in bulk	NIL
कॉल का प्रथम पेट्रोलियम से भिन्न /Petroleum Class B, otherwise than in bulk	NIL
कॉल का प्रथम पेट्रोलियम /Petroleum Class C in bulk	NIL
कॉल का प्रथम पेट्रोलियम से भिन्न /Petroleum Class C, otherwise than in bulk	NIL
कुल क्षमता /Total Capacity	379900.00 KL

October 31, 2013

1). Amendment dated - 14/11/2013
2). Amendment dated - 24/01/2014
3). Amendment dated - 03/07/2014
4). Amendment dated - 16/09/2014
5). Amendment dated - 02/11/2015
6). Amendment dated - 11/12/2015


Chief Controller of Explosives


DESCRIPTION AND LOCATION OF THE LICENSED PREMISES

अनुमति प्राप्त स्थल का विवरण और अन्वेषण : Plot No: -, Hazira Port, Hazira, Taluka: Choriyasi, District: SURAT, State: Gujarat, PIN: 394270 स्थल पर अन्वेषण है तथा उसमें निम्नलिखित 148 Above Ground tank(s) for CLASS A, सम्मिलित है।

The licensed premises, the layout, boundaries and other particulars of which are shown in the attached approved plan are situated at Plot No: -, Hazira Port, Hazira, Taluka: Choriyasi, District: SURAT, State: Gujarat, PIN: 394270 and consists of 148 Above Ground tank(s) for CLASS A, together with connected facilities.

नवीनीकृत 31/12/2018 तक

उप मुख्य विस्फोटक नियंत्रक, बड़ोदा.

पृष्ठ सं. 2

अनुमति संख्या-(Licence No.) PIHQ/GJ/15/5294 (P270337)

समीक्षा के लिए स्थान
SPACE FOR ENDORSEMENT OF RENEWALS

पेट्रोलियम अधिनियम, 1934 के उपबन्धों या उसके अधीन बनाए गए नियमों या इस अनुमति की शर्तों का उल्लंघन न होने की दशा में यह अनुमति द्वादश वर्षों के लिए निरंतर रूप से नवीकरणीय होगी।

This licence shall be renewable without any concession in fee for ten years in the absence of contravention of any provisions of the Petroleum Act, 1934 or of the rules framed thereunder or of any of the conditions of this licence.

नवीकरण की तारीख
Date of
Renewal

समाप्ति की तारीख
Date of
Expiry of license





अनुमति प्रधिकारी के हस्ताक्षर और मुद्रा
Signature and office stamp of the licensing
authority.

यदि अनुमति प्राप्त करने वाले स्थान और शर्तों के अनुसार नहीं पाए जाते हैं और फिर नियमों और शर्तों के अधीन यह अनुमति नवीकरणीय नहीं है। यदि इनमें से किसी का उल्लंघन होने की दशा में यह अनुमति रद्द की जा सकती है और अनुमतिप्राप्त करने वाले के लिए सजाया जा सकता है, जो एक मास तक हो सकता है, या जुर्माना है, जो एक हजार रुपये तक हो सकता है, या दोनों हैं, और प्रत्येक पश्चात्तत्ती अपराध के लिए सजाया जा सकता है जो दो बार तक हो सकता है, या जुर्माना है, जो पांच हजार रुपये तक हो सकता है, या दोनों हैं, उपर्युक्त होना।

This licence is liable to be cancelled if the licensed premises are not found conforming to the description given on the approved plan attached hereto and contravention of any of the rules and conditions under which this licence is granted and the holder of this licence is also punishable for the first offence with simple imprisonment which may be extend to one month, or with fine which may extend to one thousand rupees, or with both and for every subsequent offence with simple imprisonment which may extend to three months, or with fine which may extend to five thousand rupees or with both.

ANNEXURE - 8

Annexure - 8: License to work a Factory (Liquid Terminal) from Director of Industrial Safety and Health, Govt. of Gujarat

 Directorate Industrial Safety & Health Gujarat State FORM NO. 4 (Prescribed under Rule 5) License to work a factory	
Registration No. 3502/51410/2013 FIN. S19015746A	License No. 18757 D.A. 23-Dec-2013
License is hereby granted to Mr. Capt. Anil Kishore Singh + 5 Directors For the premises known as ADANI HAZIRA PORT PVT. LTD - (LIQUID TERMINAL) situated at AT&PO. HAZIRA Ta.: Chorsai Dist.: Surat for use as a factory within the limits specified in the plan approved by the Director Industrial Safety & Health, Gujarat State vide No. 1955 Date 18-Dec-2013 subject to provisions of the Factories Act, 1948 and the Rules made thereunder.	
The license is issued for: <ul style="list-style-type: none"> Maximum Number of workers to be employed on any day during the Year : **250** Maximum installed power in B.H.P. on any day during the year : **Above 5000** 	
The license is valid up to 31st December 2016, Fees paid Rs. 66,500.00 Fees due Rs. 66,050.00 Excess Rs. 450.00 Place : Surat Date : 09-Feb-2015	
 <div style="display: inline-block; vertical-align: middle; text-align: right;">  Joint Director Industrial Safety and Health Surat Region </div>	
	
124852	