



Adani Hazira Port Private Limited

**From : Apr., 2018
To : Sept., 2018**

**SIX MONTHLY COMPLIANCE REPORT
OF
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**

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LIST OF ANNEXURES

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- A.** Six Monthly 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 Sept, 2003 shall be effectively implemented.	<p>Complied, AHPPL has obtained amendment in the Consent to Establish (NOC) from Gujarat Pollution Control Board as per the details given below: -</p> <table border="1"> <thead> <tr> <th>Consent No.</th><th>Issued On</th><th>Submitted To MoEF & CC On</th></tr> </thead> <tbody> <tr> <td>CTE_49766</td><td>05.10.2012</td><td>Along with Six Monthly Compliance Report dated 19.11.2014 & 19.05.2017.</td></tr> <tr> <td>CTE-64900</td><td>26.09.2014</td><td>Along with Six Monthly Compliance Report dated 12.05.2015 & 19.05.2017.</td></tr> <tr> <td>CTE-74330</td><td>13.01.2016</td><td>Along with Six Monthly Compliance Report dated 23.05.2016 & 19.05.2017.</td></tr> <tr> <td>CTE-77767</td><td>16.04.2016</td><td>Along with Six Monthly Compliance Report dated 21.11.2016 & 19.05.2017.</td></tr> </tbody> </table> <p>All conditions mentioned in the above mentioned consents are being effectively implemented. Please refer the Annexure-7 for compliance status of the latest CTE.</p>	Consent No.	Issued On	Submitted To MoEF & CC On	CTE_49766	05.10.2012	Along with Six Monthly Compliance Report dated 19.11.2014 & 19.05.2017.	CTE-64900	26.09.2014	Along with Six Monthly Compliance Report dated 12.05.2015 & 19.05.2017.	CTE-74330	13.01.2016	Along with Six Monthly Compliance Report dated 23.05.2016 & 19.05.2017.	CTE-77767	16.04.2016	Along with Six Monthly Compliance Report dated 21.11.2016 & 19.05.2017.
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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.	<p>Complying with. Both the letter mentioned in the condition were sent by Forest and Environment Department to MoEF & CC. Conditions mentioned in these letters were communicated to HPPL vide a separate letter dated 09th July, 2003 letter bearing No.: ENV-10-2003-29-P1. All the stipulated conditions of the aforesaid letters issued by the Forest and Environment Department, Government of Gujarat are being complied. Compliance status of the same is enclosed at Appendix-1 (Part A and B).</p>															
iii.	All the conditions stipulated by Gujarat Septitime Board vide their No.: GMB/ N/Pvt/190(10)/9041, dated 31.12.2002 shall be effectively implemented.	<p>Complied. GMB granted the consent to construction through this letter. Port is being constructed as per the approvals received. Copy of the same is submitted to the MoEF & CC and other concerned authorities along with the six monthly compliance report dated 19.05.2017.</p>															
iv.	The proposals for infrastructure corridor (37 Km 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	<p>Closed, The infrastructure corridor was proposed initially is not pursued and there is no development in this regard.</p>															

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	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.	
v.	No groundwater should be tapped.	Complied with. Ground water is not being used for any purpose in the Port. The entire water requirement is being met through tanker water. 2000kl of treated waste water from M/s. KRIBHCO is used for industrial purposes.
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.	Complied. Condition is substituted with new conditions 6(a) and 6(b), as per communication from MoEF dated 19th February, 2007 bearing No.: J-16011/11/2003-IA-III. Compliance of the amended conditions is enclosed as Appendix-2 .
vii.	Dumping of dredged spoils should be done in the locations approved earlier.	Condition is modified as per communication from MoEF & CC dated 12th 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": - (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 No disposal has been done till date. All the dredged material is being utilized for level rising, reclamation and apart from the above activity, excess material (if any) generated will be disposed of at the location approved by the MoEF & CC.
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.	Complied. <ul style="list-style-type: none"> Separate Budget has been allocated to Environment Management department. Please refer the Annexure-6 for details of budget for Environment Management for the FY: 2018-19. Environment budget is not being diverted to any other purpose. Details of budget & expenditure for

S. No.	Stipulated Conditions	Compliance Status
		Environment Management for the FY: 18-19 is attached
ix.	Method of disposal of solid wastes and the sites of such disposal shall be intimated to Ministry of Environment & Forests.	<p>Complied.</p> <ul style="list-style-type: none"> All solid Non-hazardous wastes are being disposed off through a local vendor. Hazardous wastes is being disposed to the GPCB authorized CHWIF/TSDf sites i.e.: <ol style="list-style-type: none"> (1). M/s. Unity Petroleum, Ahmedabad (Gujarat) (2) M/s. J S Enterprise, Olpad Sayan Road (Gujarat) (3). M/s. RSPL, Panoli, Bharuch (Gujarat) (4). M/s. Jawrawala Petroleum, Ahmedabad(Gujarat) Total 41.4 MT Hazardous Waste disposed during Apr., 2018 to Sept., 2018. Out of which 7.69 MT Hazardous Waste is sent for Co-processing to M/s RSPL, Panoli, Bharuch (Gujarat) Out of which 29.62 MT Used oil is being recycled through registered recyclers and 4.09 MT is contaminated barrels/drums recycled through registered decontaminators during Apr., 2018 to Sept., 2018. Membership certificates of M/s. SEPPL & M/s. BEIL (CHWIF/TSDf sites) are submitted to the MoEF & CC and other concerned authorities along with the six monthly compliance report dated 19.05.2017. Disposal certificate of M/s. RSPL, Panoli is attached Annexure-9. CCA copies of M/s. Jawrawala, M/s. Unity Petroleum and M/s. J S Enterprise attached as Annexure-9
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.	<p>Complied.</p> <p>Domestic waste water is being treated in the STP's. Treated water confirming the GPCB standards is being used in the Horticulture purpose within the port premises.</p>
xi.	Proper navigational aids and leading lights should be provided.	<p>Complied.</p> <p>Proper navigational aids and leading lights have been provided.</p>
xii.	Air pollution due to handling of fertilizer, coal should be monitored and kept within permissible limits.	<p>Complied.</p> <p>Ambient air quality monitoring is being carried out through M/s. Pollucon Laboratories (a MoEF&CC recognized and NABL accredited laboratory) within port premises and during current monitoring period all the pollutants are found under the limit.</p> <p>Please refer the Annexure-4A for the Ambient air monitoring Reports for the period Apr., 2018 to Sept., 2018.</p>
xiii.	Forest clearances, as applicable, be obtained.	Not applicable under this approval.
xiv.	Construction labour camps should be	Complied.

S. No.	Stipulated Conditions	Compliance Status
	located outside Coastal Regulation Zone areas and should be provided with adequate cooking and sanitation facilities,	No labour camps are located in Coastal Regulation Zone area. Labours are managed through contractors and they are from surrounding villages and have been provided residential facilities in the surrounding villages.
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.	<p>Complied.</p> <p>Following control measures are in place and effectively working at port to control fugitive dust: -</p> <ol style="list-style-type: none"> 1. Spill boards are provided to prevent cargo spillage into the sea. 2. Transportation of coal from jetty to coal storage yard through 1.7 Km. long conveyor belt with hood. 3. Water sprinklers in to the coal yard, 4. Dust Suppression System / Spray Nozzles in Conveyor System and Discharge Chute, 5. Water spray through Water Browsers, 6. Water Mist Canon / Fog System, 7. Wind Brake Shield of 14 meters high and 1200 meters long, 8. Transportation of cargo from port to hinterland is being done through dumpers / trucks covered with tarpaulin, 9. Regular cleaning the roads through Road Sweeping Machines, and 10. Company has set up dedicated greenbelt area for plantation at periphery / avenue plantation / landscaping etc. Total greenbelt area developed so far is approx. 69.80 ha within the port premises.
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.	<p>Complied.</p> <ul style="list-style-type: none"> • Run off from stockyard is being collected into dump ponds and collected water is being reuse for dust suppression purpose in the coal yard. • Quality monitoring of the Sea Water, Ground Water and Dump Pond Water is being done through M/s. Pollucon Laboratories (MoEF & CC recognised and NABL accredited laboratory). No significant change is observed in the reports. • Please refer the Annexure-4B, 4D & 4E for the Ground, Sea and Dump pond water Quality Monitoring / Analysis Reports for the period Apr., 2018 to Sept, 2018.
xvii.	All pollution control facilities for handling ballast water and bilge as required under SEPTPOL convention for servicing ships shall be provided.	<p>Complied.</p> <ul style="list-style-type: none"> • AHPPL are providing the facility to collect the solid and liquid waste (ballast and bilge) from the vessel on call basis. • AHPPL arranges GPCB approved third party to collect the liquid waste from vessels on call basis and the agency collect the liquid

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		<p>waste from vessels and transport at their facility for further treatment and disposal purpose.</p> <ul style="list-style-type: none"> Detail of sludge / wastes collected & disposed off from Vessels through GPCB approved agencies during the Apr., 2018 to Sept., 2018 is enclosed as Annexure-8. Solid and liquid wastes generated from our own tugs is being collected in secure manner and disposed of in environmentally sound manner.
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.	<p>Complied.</p> <p>Oil Spill Contingency Plan has been prepared and the same was approved / vetted by Indian Coast Guard (Letter No.: 7563, dated 09.01.2014).</p>
xix.	The stacking height of sulphur shall not in any case exceed 5 m.	<p>Complied.</p> <p>Sulphur stacking height is being maintained less than 5 m.</p>
xx.	Adequate fire-fighting facilities as per National Fire Protection Code shall be provided in the port area and in the buildings.	<p>Complied.</p> <p>All the fire-fighting facilities are at place according to the National Fire Protection Code. List of fire-fighting equipment's available as on 30.09.2018 is enclosed as Annexure-1.</p>
xxi.	All dredging operations should be restricted to bare minimum extent; the dredge material should be used for reclamation instead of dumping off-shore.	<p>Condition modified as per communication from MoEF & CC dated 12th 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)"</p> <p>Complying with.</p> <p>No disposal has been done till date. All the dredging material is being utilized for level raising, reclamation and apart from the above activity, excess material (if any) generated will be disposed of at the location approved by the MoEF & CC.</p>
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.	<p>Complied.</p> <ul style="list-style-type: none"> Dredging whenever required is carried out within port limit and as per approved plan only. Marine, water quality is being monitored through M/s. Pollucon Laboratories, Surat (a MoEF&CC recognised and NABL accredited laboratory). Monitoring of turbidity is being done which shows no increase in the turbidity level. Please refer the Annexure-4D for the Sea Water Quality Monitoring / Analysis Reports for the period Apr., 18 to Sept., 18.
xxiii.	A comprehensive water supply and	Complying with.

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	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.	<ul style="list-style-type: none">Ground water is not being used for any purpose in the Port.The entire water requirement is being met through tanker water.An agreement with M/s. KRIBHCO is signed on 25.07.2014 to use treated waste water from M/s. KRIBHCO in to the port operation.Currently 2000KLD is being used for industrial purposes.		
xxiv.	During reclamation, setting ponds shall be provided to control silt discharge into the sea.	Complied. During project development phase bunds/ setting ponds were provided to control the dumped soil materials which ensure no discharge of silt into 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.	Complied. <ul style="list-style-type: none">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 implementedIn addition, AHPPL has developed and implemented ER & DMP. Regular mock drill to ensure the compliance and preparedness is being done. Last Mock Drill (On Site) was on : 11.09.2018 Last Update of ERP & DMP : 10.05.2018 Last submission to Directorate Industrial Safety & Health (DISH) on 31.07.2018		
xxvi.	The tugs shall be equipped with fire-fighting facilities and booms to control oil spill in the port area.	Complied. All tugs have been well equipped 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. Comprehensive EIA study report prepared by NEERI has been submitted to the Ministry of Environment and Forests & CC on 19 th July, 2004. EIA has been revised during the expansion of the project. Compliance of the recommendation given in the EIA report as EMP is enclosed as Annexure-3 .		
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,	Complied in line with the substituted conditions 6(a) & 6(b) from MoEF & CC, dated 19 th February, 2007. Please refer Appendix-2 for the status of compliances. <table><tr><td>M/s. HPPL should undertake compensatory mangrove plantation in 200ha. While 250ha fresh</td><td>Complied. Total 1371 ha of mangrove plantation has been achieved by HPPL in Hazira area with support of local</td></tr></table>	M/s. HPPL should undertake compensatory mangrove plantation in 200ha. While 250ha fresh	Complied. Total 1371 ha of mangrove plantation has been achieved by HPPL in Hazira area with support of local
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	Nagpur shall be engaged.	<p>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 chairman periodically.</p> <p>The yearly monitoring of the afforestation of programme of mangrove will be also carried out through time series satellite imagery in 1:25000 scale by the respective units and submit a monitoring report to NCZMA.</p>	<p>communities. A copy of verification report of DCF, Surat is made available in support of the same.</p> <p>Latest report on mangrove afforestation monitoring by using remote sensing techniques from November to December, 2016 satellite data images of Feb-2016 was submitted to Principal Secretary, Forest and Environment Department, Gandhinagar vide letter No.: HLPL/HSE/ECR/Port/2017/1 dated 10.02.2017</p>
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.	Complied in line with the substituted conditions 6(a) & 6(b) from MoEF & CC, dated 19 th February, 2007. Please refer Appendix-2 for the status of compliances.	
B.	GENERAL CONDITIONS		
i.	Construction of the proposed structure should be undertaken meticulously conforming to the existing Central/local rules and regulations including Coastal	Complied. Construction of the port is being done in compliance to the CRZ Notification, 1991 which was amended in 2011 and as per the approvals received.	

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	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.	<p>All the construction designs/drawings relating to the proposed construction activities have been approved by the concerned State Government Department / Agencies as given below:-</p> <ul style="list-style-type: none"> • Environmental and CRZ Clearance issued by MoEF & CC, New Delhi vide letter No.: 11-150/2010-IA.III dated 03rd May, 2013. • Amendment in CRZ/Environment Clearance issued by MoEF & CC, New Delhi vide letter No.: J-16011/11/2003-IA-III, dated 19th February, 2007. • Amendment in CRZ Clearance issued by MoEF & CC, New Delhi vide letter No.: J-16011/11/2003-IA-III, dated 12th Nov., 2003. • CRZ Clearance issued by MoEF & CC, New Delhi vide letter No.: J-16011/11/2003-IA.III dated 26th June, 2003. • Approval from GMB to commence work was obtained on 09th April, 2010 vide letter No.: GMB/N/PVT/923(10)/42 /458. • 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. • License to work a Factory Adani Hazira Port Pvt. Ltd. (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 21-01-2017, valid till 31st December, 2018.
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.	<p>Complied.</p> <ul style="list-style-type: none"> • Proper care is being taken during construction activity to avoid salinity ingress and any degradation of water quality. • M/s. AHPPL is monitoring the Ground Water Quality at one location on monthly basis. Results show no significant change in the quality. • Ground water quality is being monitored through M/s. Pollucon Laboratories, Surat (a MoEF&CC and NABL accredited laboratory). • Please refer the <u>Annexure-4B</u> for the Environmental Monitoring / Analysis Reports for the period Apr., 18 to Sept., 18.

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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 vides Order No.: P/HQ/GJ/15/5294 (P270337). Renewed on 31.12.2015 valid till 31.12.2018. 2. License to work a Factory Adani Hazira Port Pvt. Ltd. (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 21-01-2017, valid till 31 st December, 2018. Copy of the License to work a Factory is Submitted to the MoEF & CC and other concerned authorities along with the six monthly compliance report dated 19.05.2017.																														
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 Septine biologist so that the Septine water quality is regularly monitored in order to ensure that the Septine 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.	Complied. <ul style="list-style-type: none">• The environmental quality monitoring is being done by M/s. Pollucon Laboratories Pvt. Ltd., Surat a MoEF&CC (F. No. Q-15018/24/2014-CPW letter dated 19.10.2015 and NABL accredited laboratory (Accreditation No.: TC - 5945 (in lieu of T - 0820 & T - 0821) valid till 27.05.2019).• Details of parameters monitored and frequency is given below: - <table><tr><td>Ambient Air Quality as per NAAQMS</td><td>Weekly Twice</td></tr><tr><td>Ambient Noise Level Monitoring</td><td>Monthly</td></tr><tr><td>Soil Quality Analysis</td><td>Quarterly</td></tr><tr><td>Ground Water Quality Analysis</td><td>Monthly</td></tr><tr><td>Surface Water Quality Analysis</td><td>Monthly</td></tr><tr><td>Sea Water Quality Analysis (Surface & Bottom)</td><td>Monthly</td></tr><tr><td>Sea Sediments Quality Analysis</td><td>Monthly</td></tr><tr><td>HWG Stack Emission Monitoring</td><td>Monthly</td></tr><tr><td>Meteorological Data Monitoring</td><td>Continuous</td></tr><tr><td>ETP Inlet - Quality Analysis</td><td>Weekly Twice</td></tr><tr><td>ETP Outlet - Quality Analysis</td><td>Weekly Twice</td></tr><tr><td>STP Inlet and Outlet - Quality Analysis</td><td>Weekly</td></tr><tr><td>DG Sets Stack Emission Monitoring</td><td>Quarterly</td></tr><tr><td>DG Sets Noise Level Monitoring</td><td>Quarterly</td></tr><tr><td>Dump Pond Water Quality Analysis</td><td>Quarterly</td></tr></table> <ul style="list-style-type: none">• Please refer the Annexure-4A, 4B, 4C, & 4D for Environmental Monitoring/Analysis Reports for the period Apr., 18 to Sept., 18.• Monitoring report confirms the compliance with standards wherever applicable.• Reports are being submitted to MoEF&CC and other authorities along with six monthly	Ambient Air Quality as per NAAQMS	Weekly Twice	Ambient Noise Level Monitoring	Monthly	Soil Quality Analysis	Quarterly	Ground Water Quality Analysis	Monthly	Surface Water Quality Analysis	Monthly	Sea Water Quality Analysis (Surface & Bottom)	Monthly	Sea Sediments Quality Analysis	Monthly	HWG Stack Emission Monitoring	Monthly	Meteorological Data Monitoring	Continuous	ETP Inlet - Quality Analysis	Weekly Twice	ETP Outlet - Quality Analysis	Weekly Twice	STP Inlet and Outlet - Quality Analysis	Weekly	DG Sets Stack Emission Monitoring	Quarterly	DG Sets Noise Level Monitoring	Quarterly	Dump Pond Water Quality Analysis	Quarterly
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		<p>compliance reports.</p> <ul style="list-style-type: none"> Environmental Lab has been set up consisting the following equipment's for water analysis: <ol style="list-style-type: none"> 1. COD Digester 2. Oven 3. Temperature, pH and Conductivity meter 4. TDS measuring equipment Please refer photographs attached as Annexure-10
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.	<p>Complied.</p> <p>No labour camps are located in Coastal Regulation Zone area. Labours are managed through contractors and they are from surrounding villages and have been provided residential facilities in the surrounding villages.</p>
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.	<p>Complied.</p> <p>Adequate system for collection and treatment of sewage and liquid wastes are in place. Treated sewage water is being utilized for horticulture purpose within the premises.</p>
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.	<p>Complied.</p> <ul style="list-style-type: none"> AHPPL are providing the facility to collect the solid and liquid waste from the vessel on call basis. Garbage collected from the vessels is disposed of in environment friendly manner by converting bio-compost and used the same in horticulture / gardening purpose. AHPPL arranges GPCB approved third party to collect the liquid waste from vessels on call basis and the agency collect the liquid waste from vessels and transport at their facility for further treatment and disposal purpose. Please refer the Annexure-8 for details of sludge/wastes collected & disposed off from Vessels through GPCB approved agencies during Apr., 2018 to Sept., 2018. Solid and liquid wastes generated from our own tugs is being collected in secure manner and disposed of in environmentally sound manner.
viii.	Necessary navigational aids such as channel Septkers should be provided to prevent accidents. Internationally	<p>Complied.</p> <p>Proper navigational aids and leading lights have been provided. Internationally recognized</p>

S. No.	Stipulated Conditions	Compliance Status
	recognized safety standards shall be applied in case of barge/vessel movements.	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.	<p>Complied.</p> <ul style="list-style-type: none"> CSR activities carried out by Adani Foundation in four verticals i.e.: - (1) Education, (2). Community Health, (3). Sustainable Livelihood and (4). Rural Infrastructure Development. Detail of the CSR activities along with budgetary provisions and progress are regularly submitted to MoEF & CC as part of six monthly compliance reports. The status of the CSR activities planned during the Financial Year: 2018-19 is enclosed as Annexure-2.
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.	<p>Complied.</p> <p>No quarry material has been procured during Apr., 2018 to Sept., 2018.</p>
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.	Condition 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.	<p>Complying with.</p> <p>AHPPL has always given employment priority to local qualified persons and in future the same will be continued. As on 30th Sept., 2018 total 183 out of 211 on roll employees are from Gujarat.</p>
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.	<p>Complied.</p> <ul style="list-style-type: none"> Recommendation given in EMP is being complied in letter and spirit. Status of the same is enclosed as Annexure-3. AHPPL is an ISO 14001: 2015, ISO 9001: 2015 and OHSAS 18001: 2007 certified company. AHPPL has developed and implemented ER & DMP. Regular mock drill to ensure the compliance and preparedness is being done. Last Mock Drill (On Site) was on: 11.09.2018 Last Update of ERP & DMP : 10.05.2018 Copy of the Schematic of ERP & DMP communication flow is submitted along with the six monthly compliance report

S. No.	Stipulated Conditions	Compliance Status
		dated 19.05.2017
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.	Complied. <ul style="list-style-type: none"> Environment Management Cell has been set up with qualified staff to ensure the effective implementation of environmental safe guards. In addition to the site Environment Management Cell a well-established corporate environment cell also ensures effective implementation of the environmental safeguards. Please refer the Annexure-5 for Environment Management Cell Organogram. One more person has been recruited in Environment Management Cell, who is assisting the Head of Environment
xv.	The project-affected people, of any should be properly compensated and rehabilitated.	There is no R&R factors involve for development of Port. The entire port is being developed on reclaimed land allotted by Government.
xvi.	The funds earSeptked for environment protection measures should be maintained in a separate account and there should be no diversion of these funds for any other purpose. A year-wise expenditure on environmental safeguards should be reported to this Ministry.	Complied. <ul style="list-style-type: none"> Separate Budget is allocated to HSE department. Please refer the Annexure-6 for details of budget for Environment Management for the FY: 2018-19. No funds are 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.	Complying with. <ul style="list-style-type: none"> AHPPL is regularly submit six monthly compliance reports which comprises compliance to the conditions stipulated in Environment and CRZ Clearance, action taken report of Environment Management Plan, environment monitoring reports etc. Last two reports were submitted vide letter dated 20.11.2017 and 23.05.2018. Whenever any authorities such as MoEF&CC, GPCB and GMB etc. visit the AHPPL full support is extended and AHPPL provides all additional information seek by them during the inspection. Last visit of officials from MoEF & CC - RO, Bhopal was on 01 & 02.05.2017. Last visit by VO - GPCB, Surat was on 28.08.2018.
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	Noted and Complied. There is no change in project profile / implementation agency, if any.

S. No.	Stipulated Conditions	Compliance Status
	implementing the suggested safeguard measures.	
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 and comply with the MoEF & CC directions, if any.
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 and comply with the additional conditions stipulated by the MoEF & CC, if any.
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.	Closed, 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.	Closed, <ul style="list-style-type: none"> Financial Closure date is 29th September, 2011. Approval from GMB to commence work was obtained on 09th April, 2010 vide letter No.: GMB/N/PVT/923(10)/42/458. Copy of the same has been submitted to the MoEF & CC and other concerned authorities along with the six monthly compliance report dated 19.05.2017.

APPENDIX-1:

**COMPLIANCE TO THE CONDITIONS STIPULATED IN CRZ RECOMMENDATIONS ISSUED BY
FORESTS AND ENVIRONMENT DEPARTMENT, GOVERNMENT OF GUJARAT VIDE LETTER
NO.: ENV-10.2003-29-P1 DATED 09TH JULY, 2003**

**(Comprising conditions of Letter dated 10th April, 2003 & 29th May 2003 in part A & B
respectively)**

APPENDIX-1: Compliance To The Conditions Stipulated In CRZ Recommendation Issued By Forest And Environment Department, Government Of Gujarat Vide Letter No.: ENV-10.2003-29-P1 Dated 09th July, 2003: -

Part A: Conditions specified in letter dated 10th April, 2003 from Forest and Environment Dept. Government of Gujarat to the Ministry and Forests, Government of India		
S. No.	Conditions	Compliance Status
A.	Specific Condition	
1.	The provision of CRZ Notification, 1991 and its amendments issued from time to time shall be strictly complied with by the HPPL.	<p>Complied. CRZ Notification has been amended in 2011.</p> <ul style="list-style-type: none"> Construction activities are as per the provisions of CRZ Notification, 2011. No construction work other than those permitted in CRZ Notification has been done. Development of the port and other ancillary facility is being done as per the approval received under CRZ Notification, 2011 and EIA Notification, 2006 & subsequent amendments.
2.	The HPPL shall take up / develop only those activities proposed to be commissioned before the end of the year 2008 as mentioned in the Rapid EIA report and the bar chart submitted by HPPL. A separate clearance shall be obtained by HPPL for construction of the berths bearing nos. 2, 6, 7, 11, and 12 and its back up facilities as amended in the drawings submitted with the CRZ application after demonstrating the compliance of the conditions, ecological upliftment activities undertaken successfully and mitigative measures implemented while developing the other port facilities.	<ul style="list-style-type: none"> AHPPL has obtained amendment in the environment and CRZ clearance vide letter No.: 11-150/2010-IA.III dated 03rd May, 2013. Development of the port and other ancillary facility is being done as per the approval received under CRZ Notification, 2011 and EIA Notification, 2006. Detailed EMP has been proposed in the EIA-2012 for ecological upliftment and environment protection. Status of EMP is enclosed as Annexure-3.
3.	The ground water shall not be tapped in any case to meet with the water requirements during construction and / or operational phases.	<p>Complied with.</p> <p>Ground water is not being used for any purpose in the Port. The entire water requirement is being met through tanker water. An agreement with M/s. KRIBHCO was also signed on 25/07/2014 to use treated waste water from M/s. KRIBHCO in to the Port operation. 2000KI of treated waste water from M/s. KRIBHCO is used for industrial purposes.</p>
4.	Before commissioning of the construction activities the construction design for the port as well as the infrastructure corridor shall be validated / approved by the CWPRS, Pune to ensure that there is no negative impact on the costal morphology, hydrodynamic and ecological systems. The mitigative measures as may be suggested shall	<p>Complied with.</p> <p>CWPRS study has been completed for Multi-Cargo Port. No significant impact on morphology is envisaged.</p>

S. No.	Conditions	Compliance Status
	be implemented by the HPPL.	
5.	The HPPL shall ensure that the free flow of water in the intertidal area is not hampered due to proposed construction activities for infrastructure corridor. The corridor shall be developed away from the residential areas to ensure that the local inhabitants are not affected due to proposed development.	Complied. <ul style="list-style-type: none"> Port construction has been done in such a way that free flow of water in the intertidal area is not hampered. The infrastructure corridor was proposed initially is not pursued and there is no development in this regard.
6.	The HPPL shall take up massive plantation activities through the forests department in at least 200 ha. of areas suitable identified in consultation with the forests dept. as well as this dept. the HPPL shall bear the cost of the said land as well as cost of the plantation of mangroves up to its sustenance. The HPPL has also to ensure that the planted mangroves survive.	Complied. <ul style="list-style-type: none"> Total 1371 ha. of mangrove plantation has been achieved by the HPPL in Hazira area with support of local communities. Above mangrove plantation area has been verified by DCF and DILR. Supporting documents of the same submitted to MoEF & CC and other authorities along with the six monthly compliance report dated 19.05.2017.
7.	The HPPL shall also provide technical and financial assistance for development of ecological park for the purpose of Env. awareness and education at an appropriate site duly identified in consultation with this Dept.	Complied With. Initially Ecological and Mangrove Interpretation Centre was established to create awareness about mangroves is being done by NGO Nature Club in 5 villages of Hazira Penninsula.
8.	In addition to the mangrove plantation the HPPL shall also taken up massive green belt development in and around the project site in consultation with the Forest Dept.	Complying with. Company has set up dedicated green belt area for plantation at periphery / avenue plantation / landscaping etc. Total greenbelt area developed so far is approx. 69.80 ha within the port premises.
9.	The HPPL shall provide financial contribution as may be decided by this dept. for any common study like Regional Env. Assessment as well as for any common facilities including the Vessel Traffic Mgmt. System in the Gulf of Chambhat, for the purpose of the Env. protection/mgmt.	Agreed to comply. AHPPL will contribute reasonable cost for any common study as and when suitable proposal comes.
10.	The HPPL shall provide financial and technical support in implementation of the Functional Green Crops Scheme (being implemented) in Gujarat by the GEER Foundation in Surat District in consultation with this Dept.	Agreed to comply AHPPL will contribute reasonable cost as and when required by GEER.
11.	The HPPL shall bear the cost of the external agency that may be appointed by this Department for supervision/monitoring of their activities during construction and /or operational phases.	Agreed to comply. AHPPL will bear the cost of external agency, if any that may be appointed by this department.
12.	The HPPL shall not use any other port	Complied with.

S. No.	Conditions	Compliance Status
	facilities for transportation of quarrying material without prior EIA done and without permission of this department.	EIA has been done in 2012 and environment and CRZ clearance has been obtained vide letter No.: 11-150/2010-IA.III dated 03 rd May, 2013.
13.	The dredged material shall be disposed of at a location suitably identified in consultation with the NEERI/NIO after due consideration of various environmental aspects and ensuring no significant negative impact due to the same.	Condition is amended. 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: - (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 No disposal has been done till date. All the dredging material is being utilized for level rising, reclamation and apart from the above activity, if any excess material generated will be disposed of at the location already approved by the MoEF&CC.
14.	No waste including construction debris, oily waste from construction equipments, untreated sewage would be disposed of into the sea/ river/ creek or in the CRZ areas. The treated sewage meeting with the norms fixed by the Gujarat Pollution Control Board and the reject water from the RO plant shall be disposed off at a point suggested by the NIO.	Complied. <ul style="list-style-type: none"> No waste including construction debris, oily waste from construction equipments, untreated sewage has been disposed of into the sea/river/creek or in the CRZ areas. The treated sewage meeting with the norms fixed by the Gujarat Pollution Control Board is being used in horticulture purpose. Desalination/RO plant is not yet installed.
15.	The Gujarat Septitime Board shall ensure that the Vessel Traffic Management System for safe navigation in the Gulf of Chambhat shall be established and commissioned before commissioning of the Hazira Port by the HPPL. The HPPL shall follow up for this with various stockholders and provide financial and Technical inputs for the same.	Vessel Traffic Management System is already in operation since 2010 at AHPPL, Hazira.
16.	A mutual aid scheme for the Hazira shall be developed to meet with any unforeseen circumstance or to meet with any accident at condition. The HPPL shall take a lead for this by involving other stakeholders.	Complying with. 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.
17.	A detailed Risk Assessment and Disaster Management Plan shall be worked out before commissioning of the TFC and Multi Cargo Port by the HPPL and the mitigative measures shall be identified.	Complied. Disaster Management Plan has been prepared prior to the commissioning of multi cargo port. <ul style="list-style-type: none"> DMP has been submitted to GSDMA vide letter dated 20.10.2012. Comments were received from authority vide letter no. GSDMA /SM / Ind. safety/ 770560 dated 03.12.2012.

S. No.	Conditions	Compliance Status
		<ul style="list-style-type: none"> Suggestions were incorporated and revised plan was submitted to GSDMA on 23.05.2014. Regular mock drill to ensure the compliance and preparedness is being done. <p>Last Mock Drill (On Site) was on : 11.09.2018 Last Update of ERP & DMP : 10.05.2018 Last submission to Directorate Industrial Safety & Health (DISH) on 31.07.2018</p>
18.	Proper rehabilitation scheme shall be worked out for local fisherman communities in consultation with the District Contactor/ the Commissioner of Fisheries, GoG.	Complied with. The project has not displaced any person or interfered with little fishing that exists in the area. The project is on reclaimed land and entails no private land acquisition.
19.	The construction labour shall be provided amenities/facilities including water supply, sanitation and fuel to ensure that the existing environmental condition is not deteriorated by them. The camps for the construction labour shall be kept outside the CRZ areas. The HPPL shall ensure that there is no confrontation among the local villagers and construction labour.	Complied. No labour camps are located in Coastal Regulation Zone area. Labours are managed through contractors and they are from surrounding villages and have been provided residential facilities in the surrounding villages.
20.	All possible social and health impacts due to proposed development shall be assessed in detail in the comprehensive EIA and detailed management plan shall be developed to mitigate the same.	Complied with. EIA has been done and detail covering all possible social and health impacts due to proposed development. Management plan of the same has also been presented in the EIA.
21.	The HPPL shall work out a detailed socio-economic upliftment programme in consultation with the District Collector and District Development Office and shall implement the same. Separate budgetary provisions shall be earmarked for this purpose.	Complied. <ul style="list-style-type: none"> CSR activities carried out by Adani Foundation in four verticals i.e.: - (1) Education, (2). Community Health, (3). Sustainable Livelihood and (4). Rural Infrastructure Development. Detail of the CSR activities along with budgetary provisions and progress are regularly submitted to MoEF & CC as part of six monthly compliance reports. Please refer the Annexure-2 for the status of the CSR activities planned during the Financial Year: 2018-19.
22.	An environmental Management Cell with persons having proper background shall be constituted. A separate budgetary provision shall be kept for implementation of the Environmental Management Plan.	Complied. <ul style="list-style-type: none"> Environment Management Cell has been set up with qualified staff to ensure the effective implementation of environmental safeguards. In addition to the site Environment Management Cell a well-established corporate environment cell also ensures effective implementation of the environmental safeguards.

S. No.	Conditions	Compliance Status
		<ul style="list-style-type: none"> Please refer the Annexure-5 for Environment Management Cell Organogram. Separate budget has been allocated to the HSE Department. Allocated budget for the FY: 2018-19 is INR 418.66/- Lakhs. Environment Budget is not being diverted to any other purpose. Details of the environment budget are enclosed. Please refer the Annexure-6 for details of budget for Environment Management for the FY: 2018-19.
23.	Post project environmental monitoring shall be carried out through a reputed institute.	Complied. Environmental Monitoring/Analysis are being done through M/s. Pollucon Laboratories, Surat (a MoEF&CC and NABL accredited laboratory) within port premises and during current monitoring period all the pollutants are found under the limit. Please refer the Annexure-4 for the Environmental Monitoring / Analysis Reports for the period Apr., 2018 to Sept., 2018 .
24.	No construction activities shall be carried out in any of the Forest areas without obtaining prior permission from the Forest Dept.	No construction activities will be done prior to obtaining Forest Land.
25.	All necessary clearances from different Government Department/Agencies shall be obtained before commissioning any construction activities.	All statutory permissions from the concerned statutory authorities are obtained i.e.: - <ol style="list-style-type: none"> Environment and CRZ Clearance from MoEF & CC, GOI vide order No.: F.No.:11-150/2010-IA-III dated 03.05.2013. 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. License to work a Factory Adani Hazira Port Pvt. Ltd. (Liquid Terminal) from Director of Industrial Safety and Health, GoG their vide Registration No.: 3502 / 51410 / 2013 and License No.: 18757, Renewed on 21-01-2017, valid till 31st December, 2018.
26.	A six monthly compliance report with respect to the above mentioned conditions as well as implementation of the suggestions/recommendations of the EIA report shall be furnished to this Department without fail at regular interval.	<ul style="list-style-type: none"> Six monthly compliance reports are being submitted to the concerned authorities. Last two reports were submitted vide letter dated 20.11.2017 and 23.05.2018.
27.	The HPPL shall also comply with any conditions as may be imposed by this Department from time to time.	Noted and agreed to comply with additional conditions stipulated or modify the existing ones by MoEF & CC, if any.

Part B: Conditions specified in letter dated 29th May, 2003 from Forest and Environment Dept. Government of Gujarat to the Ministry and Forests, Government of India

S. No.	Conditions	Compliance Status
1.	The revised proposal of changed land use / development plan furnished by the HPPL vide their letter dated 13-5-2003, may be studied in detail as how feasible is the same to achieve its objectives of avoiding / minimizing the impacts on the existing mangroves.	The revised design as per IAI 13 th May, 2003 was developed in consultation with NEERI/NIO and was presented before MoEF in May, 2003, based on which environmental clearance was granted. However condition related to mangroves is complied in line with the substituted condition 6(a) & 6(b) from MoEF, dated 19 th February, 2007.
2.	Inspite of submitting the revised land use/ development plan, the HPPL shall take up mangrove plantation activity through the Forest Department of Gujarat State in the areas not less than 200 ha.	Complied. Total 1371 ha. of mangrove plantation has been achieved by the HPPL in Hazira area with support of local communities. Above mangrove plantation area has been verified by DCF and DILR. Supporting documents of the same submitted to MoEF & CC and other authorities along with the six monthly compliance report dated 19.05.2017.
3.	All the conditions mentioned in our earlier letter dated 10-4-2003 addressed to the MoEF, Gol, shall be implemented by the HPPL.	Complied. Compliance report of stipulated conditions in the aforesaid letter is enclosed as <u>Appendix-1 (Part A)</u> .

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**

Appendix - 2: Compliance to the conditions stipulated in letter dated 19th February, 2007 for amendment in certain conditions of CRZ / Environmental Clearance issued on 26th June, 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.	Complied. Total 1371 ha. of mangrove plantation has been achieved by the HPPL in Hazira area with support of local communities. Above mangrove plantation area has been verified by DCF and DILR. Supporting documents of the same submitted to MoEF & CC and other authorities along with the six monthly compliance report dated 19.05.2017.
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.	Complied. As the original clearance was granted to HPPL, the said condition is being compiled jointly by the two companies i.e.: Hazira LNG Private Limited (HLPL) and Hazira Port Private Limited (HPPL). As informed by them the information related to the condition; latest report on mangrove afforestation monitoring by using remote sensing techniques from November to December, 2016 satellite data images of Feb., 2016 was submitted to Principal Secretary, Forest and Environment Department, Gandhinagar vide letter No.: HLPL/HSE/ ECR/Port/2017/1 dated 10.02.2017.

ANNEXURE-1 :**DETAIL OF FIRE-FIGHTING EQUIPMENTS**

Annexure-1: List of fire-fighting equipment's available as on 30.09.2018

S. No.	Equipment	Quantity (NOS)
1	Fire Tender (HMV)	5
2	Fire Jeep (LMV)	1
3	Fire Water Pump House	4
4	Main Pumps	14
5	Jockey Pumps	8
6	Double Headed Hydrant	144
7	Single Headed Hydrant	142
8	Tower Monitor	9
9	Water Curtain	9
10	Under Jetty MVWS System	4
11	Deluge Valve	172
12	HVLR Monitor	67
13	International Fire Shore Connection	4
14	Foam Trolley	21
15	SCBA set	22
16	Emergency Life Saving Apparatus set	10
17	Fire Water tank	5
18	Fire Extinguisher	1230
19	Airline Trolley	2
20	Fire Proximity suit	10
21	Chemical Suit	10
22	PVC Suit	11
23	Aluminium Fire Suit	2
25	Hose Box	269
26	Fire Hose	500
27	Sand Bucket	220
28	Water Monitor	95
29	Foam monitor	17
30	Hose Reel	3
31	Foam Pourer System	52
32	Foam Bladder tank	4
33	Foam tank	6
34	Foam pumps	6
35	1000 litre capacity Foam trolley monitor	3
36	Water cum Foam monitor	15
38	Water sprinkler system	43
39	Hydraulic Cutter	1
40	Hydraulic Ram	1
41	NOVEC Fire Supression system	2



Adani Hazira Port Private Limited

**From : Apr., 2018
To : Sept., 2018**

ANNEXURE-2:

DETAILS OF THE CSR ACTIVITIES CARRIED OUT DURING THE FINANCIAL YEAR: 2018-19

**DETAILS OF THE CSR ACTIVITIES CARRIED OUT DURING THE FINANCIAL YEAR:
2018-19**

Annexure-2: Details of CSR Activities Carried Out By Adani Foundation, Hazira (CSR Wing) for M/s. Adani Hazira Port Pvt. Ltd. During Financial Year: 2018-19 (till Sept 30, 2018)

Adani Foundation is an intrinsic part of Adani Group's efforts towards Corporate Social Responsibility. Since its inception in 1996, the Foundation has been working in four core areas of Education, Community Health, Sustainable Livelihood Development and Rural Infrastructure Development to empower communities. Working closely with the communities, we have been able to assume the role of a facilitator by creating an enabling environment for numerous families. Adani Foundation is currently operational in 13 states, at 20 locations, 1470 villages and towns touching lives of more than 5 lakhs families by empowering our communities towards nurturing the dreams of a New India.

Adani Hazira Port Pvt. Ltd. through Adani Foundation has undertaken below CSR activities in 2018-19 (Till Sept 2018)

❖ **Education:**

Adani Foundation believes that Education is the stepping stone to improve the quality of life, especially for the needy and the most vulnerable. The main objective behind the educational initiatives is to provide 'quality' education with a unique learning experience to young minds. With an objective to provide the quality education to the children and youth of the region, the company has contributed substantial amount of resources in its education programs. Adani Foundation is doing following activities in Hazira region in the field of education.

1. VaGaLe Utsav:

With the objective of increasing enrollment and retention of the students, bridging the gaps in the existing education system and promoting girl child education Adani Foundation designed and launched "VaGaLe Utsav" program. The aim of the program is to enable children strengthen their basic skill of learning – Reading, basic Mathematics and Writing by following the Praygna approach of teaching. The program was launched in the lower primary schools in the Hazira region of Gujarat and more than 1350 students of 10 schools from 8 villages are benefitting from this. The foundation achieved this by encouraging community participation, increasing teachers' effectiveness and improving the school environment.

2. Support to Govt. schools:

"Praveshotsav" program is conducted with the sole objective to encourage parents to enroll their children in schools and to promote girl child education. Under the program the foundation provided 400 school bags equipped with all the basic stationary material. These education kits were distributed to all the newly enrolled students in 21 schools from 15 villages of Choryasi taluka of Hazira.

3. **Navchetan Vidyalaya:**

The aim of the Navchetan Vidyalaya (situated at Junagam in Hazira – Gujarat) is to provide subsidized high-quality education to the children from nearby rural areas. To promote education amongst the regional populace, the school provides free food and academic material support such as uniforms, notebooks, workbooks, textbooks and stationery to the students. The school is well-equipped with smart classrooms and laboratories and houses all facilities required for holistic development of its students. The school offers activity based education from class 3rd to 8th and has a total strength of 381 students in 2018-19, out of which more than 50% are girls.

4. **Project UDAAN:**

Project Udaan, an inspirational exposure tour has benefitted 2202 students in current FY and teachers from 44 schools and colleges from the nearby area this year. The company supported project Udaan at Hazira location. These visits help students to understand the functioning of these businesses and specifically the role of ports in trade and economic growth of the country. The visits are aimed to facilitate young minds to get inspired so that they could become entrepreneurs, innovators and achievers of tomorrow. From inception till date, more than 2.5 lakh students have visited our business locations across India.

5. **Remedial coaching classes for the needy students:** We are also started remedial coaching classes for tribal areas students from this year. This activity is benefiting to more than 250 students of tribal communities.

❖ **Community Health:**

The Company firmly believe that improving the health of its citizens can directly result in economic growth of the nation. Healthy people can utilise growth opportunities made available to them in a better way. Adani Foundation have committed itself to raising the standards of and strengthening healthcare systems in and around our operational locations in India to ensure healthy lives and promote well-being at all ages in alignment with Sustainable Development Goals of the UN. In Hazira region, we are doing following activities in the areas of Community Health.

1. **De-addiction Programme:**

Taking the need into consideration, Adani Hazira Port Pvt. Ltd. supported a de-addiction campaign, which was organized for the people of the surrounding villages of Hazira - Gujarat. This programme started with general awareness campaigns about the life hazards of any kind of addictions. Posters with very strong appeal and messages were displayed in schools, colleges and community places. As a result of this campaign, a lot of people suffering from addictions came forward for their treatment and rehabilitation. Such cases were referred to the partner healthcare centre and the entire treatment cost is being bear by company. We have supported for 11 cases during FY18-19 and total more than 50 cases till date in the region.

2. Health Camps:

Adani Foundation regularly conducts various general and specialised medical camps for the benefit of local communities in and around its operational locations. Health camps were organized in villages of Hazira where services of gynaecologists, orthopaedic surgeons, heart specialists, skin specialists, paediatricians, ophthalmologist, ENT surgeons were provided to the community members at no cost. Till Sept-2018 we have arranged 6 health camps and 522 villagers from the nearby villages attended and received treatment in these camps. Free of cost follow-up services were also made available and referrals were provided in cases requiring surgery.

3. Project SuPoshan:

SuPoshan is being implemented in the region for curbing malnutrition and anaemia, a common issue amongst children, adolescent girls and women of our country. SuPoshan Sanganis, village level health workers, take lead for implementing community based life cycle approach with a focus on behavioural change communication. Apart from spreading awareness regarding malnutrition amongst children, adolescent girls and women in Hazira – Gujarat, our SuPoshan Sanginis conducted more than 1500 Anthropometric Measurements and more than 1600 HB screenings. Also conducted more than 700 focus group discussions and conducted 6 village level events. During the period 2 cases have converted from SAM and MAM and 4 cases from MAM to Healthy. Also 10 cases have come out from anaemia mild to no anaemia category.

❖ Sustainable Livelihood Development:

Empowering people through sustainable livelihoods helps them to transform their lives and contribute to the growth of the nation. Adani Foundation aims at holistic growth and development of the marginalized sections of the society by providing necessary skill development training and alternative livelihood opportunities, hence reducing poverty and inequality.

1. Animal Husbandry & other allied activities:

Cattles are an important source of income for the community members in rural villages. Most of the families in the villages in and around Hazira keep cows and buffaloes for milk as well as for manure. Majority of the animals in the area had low productivity due to non-descript maintenance and upkeep. Animal Husbandry project was started with an objective of improving the breed of these animals through Artificial Insemination. A special cattle development center was introduced for a cluster of about 17 villages falling within a radius of 25 kms. This center provides services of Artificial Insemination (breeding) at the door steps of cattle owners. During the current FY18-19, more than 450 families have got benefits of our various activities under Animal Husbandry project.

2. Women Self Help Groups:

The foundation has been striving to revive and nurture women self-help groups (SHGs) in villages in and around Hazira - Gujarat. These groups are voluntarily formed basis their areas of common interests. These SHGs function on the basis of

co-operative principles and provide a forum for members to extend their support to each other for a common cause of self-empowerment. Total 14 SHGs have been formed in the region and it includes 124 members. We are conducting various game events to motivate and to engage them in such kind of activities. These groups have started savings from their expenditure for running household.

Six widows from Junagam under the aegis of Jan Sahyog Sakhi Mandal took initiative to run "Upahar"- a meal service for truck drivers at AHPPL. This SHG later expanded to run a canteen at Adani House catering to our workers. These women were provided training and hand holding by the foundation, for planning, budgeting and risk management just like any other profitable enterprise. The SHG is now catering to more than 100 truckers on a daily basis. This experiment has created a win-win situation for all, as truckers get home cooked nutritious food and each associated women earn around Rs. 6500 per month.

❖ **Rural Infrastructure Development:**

Quality rural infrastructure bears a direct influence on living standard and the development of the rural population. Lack of it may push the rural populace towards poverty and deprivation. At Adani Foundation, we have committed ourselves to building sustainable rural infrastructure to overcome developmental challenges at the rural area keeping national goals in view. We are committed to making a long-term investment in rural infrastructure development as it will connect its dream with the progress of the nation. With the support of Adani Hazira Port Pvt. Ltd, Adani Foundation has worked towards improving the need-based Infrastructure in the Rural Areas for betterment of the under-privileged people of Hazira, Gujarat.

In the year 2018-19 till Sept 2018, Adani Foundation started construction of Girls Hostel at Mandvi in Surat District, providing paver block around community hall in village – Junagam, providing fencing around common areas of village – Junagam, providing LED lights in village Damka and initiated preliminary activities for construction of other planned projects during FY 2018-19.

❖ **Project Swachhagrah:**

We have recently launched project "Swachhagrah – Swachhta ka Satyagrah" in entire Choryashi Taluka of Surat District to create a culture of cleanliness in the society. We have covered more than 120 Govt. and Private schools under this programme.

ANNEXURE-3:

**COMPLIANCE STATUS OF ENVIRONMENTAL MANAGEMENT PLAN AS PER INTEGRATED EIA
REPORT, SEPTEMBER, 2012**

Annexure-3: Compliance Status of EMP as mentioned in the Integrated EIA Report, Sep., 2012:

S. No.	EMP Conditions	Compliance Status
I.	AS PER TERRESTRIAL ENVIRONMENTAL IMPACT ASSESSMENT REPORT: -	
A	CONSTRUCTION PHASE:-	
1.	Dredged Soils Management Plan: AHPPL has been permitted to dredge about 37 million cubic meter of soil, which shall be reused for backfilling in the project site. The dredged soil samples will be collected and analysed periodically for designated pollutants as per the recommendations of statutory authorities.	Complied. No disposal has been done till date. All the dredging material is being utilized for level raising, reclamation. Complied with. If any excess material generated will be disposed of at the location already approved by the MoEF&CC.
2.	Air Quality Management: Fugitive dust will be generated during construction phase of the project due to handling of wet dredged and excavated soils. Dust control program will be implemented to reduce the dust generation during construction at project site. Water sprinkling will be adopted on haulage roads and construction site.	Complying with. Water sprinkling is being done on haulage roads and construction site on regular basis.
3.	Noise Control Programs: 1. Onsite fabrication activities should be undertaken at a designated location, which should be located away from the office buildings and any other working areas. 2. In case noise emissions from the fabrication activities exceed a level of 85 dB (A) at the fence-line of the fabrication yard, temporary noise barrier can be installed. 3. Portable diesel engine generators and diesel engine driven compressors, if any, should be covered with noise enclosures.	Comply with. Fabrication activities have been done at a designated location away from the office buildings and working areas. Complied with. Noise level was below 85 dB(A) during the fabrication. Currently no fabrication activities are going on. Complied. In-built noise enclosures are available in portable diesel engine generators and diesel engine driven compressors to reduce the noise level.
4.	Sewage Management Program: Sewage generated from the construction site will be treated in modular STP and shall be used for green belt development / landscaping after achieving prescribed standards by GPCB.	Complied with. Sewage generated from the construction site is being treated in STP and treated water is being used for greenbelt development.
5.	Solid and Hazardous Waste Management Program: The solid waste generated should be segregated and categorized under various rules such as HWM 2008, SWM 2000, the Batteries Rules 2001 including processing of used oil by authorized recyclers should be carried out by the rules and procedures prescribed by CPCB and also meet the requirements of GPCB.	Complied with. All the wastes are being segregate at source and handled as per applicable rules/ guidelines and disposed off through GPCB approved agency.
6.	Construction Phase Storm Water Runoff: It has been recommended to adopt soil stabilization plans and storm water	Complied with. Separate storm water channels have been developed to

	sedimentation basins to control the silt before discharging the storm water into sea.	discharge the storm water.
7. Sanitation:	The facilities presently available with the nearby villages will continued to be used during construction activities and no major sanitation problem is expected during construction period. The workers at the project site will be provided with proper sanitation arrangement.	Complied with. Proper sanitation arrangements are available for workers at project site.
B. OPERATION PHASE: -		
1. Air Quality Management:		
i. Cargo-Handling Equipment:	1. Retrofitting the old equipment to meet the vehicular emission standards. 2. All the vehicles and equipment will be certified with PUC norms shall be deployed.	Complied with. All the deployed vehicles and equipment are PUC certified.
ii. Standby Diesel Generators:	DG Sets will be operated on clean diesel fuel with sulphur content less than 0.5%. Minimum stack height of 30m will be provided to disperse the gases into the atmosphere as per the guidelines suggested by Central Pollution Control Board.	Complied with. DG Sets are being operated on clean diesel fuel with sulphur content less than 0.5% and provided the adequate stack height are being provided as per CPCB/GPCB norms to disperse the gases into the atmosphere.
iii. Fugitive Coal Dust Control Program:	The management of AHPPL has proposed to adopt the following fugitive coal dust control measures: - a. Dry Fog System - A new, proven and cost effective technique to control dust is "Dry Fog" system to suppress the dust from the air. The name fog is just what it implies small droplets of water injected into the air. Fogging works by releasing very small droplets of water into the air. Airborne dust particles adhere to the water droplet and agglomerate. If the fog is generated in the right way, by using pressurized water, the energy required can be very low between 2 to 3 kW for a system requiring hundreds of nozzles, e.g.: A large stockpile tripper conveyor - giving considerable operating cost savings when compared to other techniques, The sprinkler droplet sizes should be maintained less than 100 microns. b. Sprinklers: Once stockpiled, water can be sprayed on the stockpiles to keep them damped down. Swivelling sprinklers should be used along the lengths of the stockpile with caution, however, as the volume of water required can be significant, causing drainage and run-off treatment problems.	Complied. Following control measures are in place and effectively working at port to control fugitive dust: - 1. Spill boards are being provided to prevent cargo spillage into the sea. 2. Transportation of coal from jetty to coal storage yard through 1.7 Km. long conveyor belt with hood. 3. Water sprinklers in to the coal yard, 4. Dust Suppression System / Spray Nozzles in Conveyor System and Discharge Chute, 5. Water spray through Water Browsers, 6. Water Mist Canon / Fog System, 7. Wind Brake Shield of 14 meters high and 1200 meters long, 8. Transportation of cargo from port to hinterland is being done through dumpers / trucks covered with tarpaulin, 9. Regular cleaning the roads through Road Sweeping Machines, and 10. Company has set up dedicated greenbelt area for plantation at periphery / avenue plantation / landscaping etc. Total greenbelt area developed so far is approx. 69.8 ha within the port premises.

2.	Noise Control Program: The following source noise control plans have been suggested: - <ul style="list-style-type: none"> ➤ Covering of sound intensive components with insulation. ➤ Using noise absorbing building materials if required for housing compressors and diesel generators etc. as per the guidelines suggested by Central Pollution Control Board. ➤ Adopting low noise driving (Eco-driving) ➤ Using silent exhaust pipes for major diesel engine vehicles and heavy trucks operated inside the port. ➤ Planting trees which act as barrier to arrest dispersion of noise levels. ➤ Using electricity powered equipment inside the port instead of diesel powered ones will be explored to the extent possible. 	Complied. <ul style="list-style-type: none"> • All the sound intensive components (DG Set and Compressor) are with acoustic enclosures. • Green belt development is in progress. • All RTGs and Quay Cranes are electricity operated.
3.	Waste Water Management: Port handling operations would generate wastewater from the following sources: - <ol style="list-style-type: none"> 1. Ship ballast water, 2. Ship deck wastewater including sewage, 3. Rejects from desalination plant, 4. Workshop and vehicle maintenance shop wastewater, 4. Leachate from coal stock yard, 6. Floor cleaning and tank cleaning wastewater from the liquid tank farm, 7. Sewage from port facilities. The proposed wastewater treatment and reuse program has been presented hereunder: - <p>A variety of vessels use the waters within the port, including bulk coal ships, tugs and line boats. Discharges from bulk ships are not expected to occur within the port because these large ships normally have on-board storage and sewage treatment plants, allowing discharge of treated effluent at sea as per the provision of SEPTPOL.</p> <ul style="list-style-type: none"> ➤ Except monsoon, leachate from coal stock yard is not envisaged. However small quantities, if any, will be treated in the effluent treatment plant. Wastewater from vehicle work-shops will also be treated in the proposed onsite effluent treatment plant. ➤ As far as possible all chemical spills at liquid handling facilities will be treated with dry spill absorbing material and water will not be used. Spillage if any occurs will be treated in a dedicated 	Complied with. <ul style="list-style-type: none"> - AHPPL is not accepting Ballast/ Sewage water from Ships. - Desalination plant not yet installed. - There is no effluent generation from workshop. Vehicle maintenance has not done in port premises. - There is no leachate from dump pond. - Tank cleaning wastewater is being treated into ETP. - Domestic waste water is being treated in the STP and then used for horticulture purpose within the port premises. <p>Complied. Dedicated coal dump pond is being provided to collect the runoff (if any) from coal yard and it is further reused for dust suppression purpose into coal yard.</p> <p>Complied with. Till date there is no spill occurred. If, spills occurred, spilled material/chemical will be treated into ETP and treated waste water will be reused in greenbelt</p>

	<p>onsite wastewater treatment plant, which consists of an oil removal unit, priSepty chemical treatment unit and biological treatment units followed by activated carbon unit. Biologically treated wastewater will be further treated in the central sewage treatment plant. Treated wastewater will be used for dust suppression and horticulture applications at the facility. No treated wastewater will be discharged outside the port facilities.</p>	development / plantation purpose.
4.	<p>Storm Water Management Plan:</p> <ul style="list-style-type: none"> ➤ Storm water from the coal stockpile area will be passed through a series of sediment traps to remove the majority of the coal sediment before discharging into the natural drains. It has been proposed to construct a garland drain for all bulk storage facilities to avoid silting into the Septine eco-system. ➤ All liquid storage tanks will be provided with dykes to avoid any cross contamination of storm water from chemical spills. Storm water drains shall be designed in order to avoid any flooding of the coal stock yard and liquid chemical tank farm areas. 	<p>Complied. Garland drain for all bulk storage facilities are provided to avoid silting into the Septine eco-system. Storm water from the coal stockpile area is collected into dump ponds to remove the coal sediment.</p> <p>Complied. All liquid storage tanks are provided with dykes to avoid any cross contamination of storm water from chemical spills. Storm water drains are separate drains and effluents drains are separate.</p>
5.	<p>Solid and Hazardous Waste Management:</p> <ul style="list-style-type: none"> ➤ Solid wastes generated from the port handling facilities consist of packaging waste such as wood, paper/carton, steel scrap etc. ➤ All the hazardous wastes and solid wastes such as Oil containing cargo residue, Chemical containing cargo residue and sludge, contaminated cotton waste, spent exchange resin and ETP Sludge, etc. shall be segregated at source and stored at the earSeptked area. ➤ Recyclable wastes will be collected and disposed to waste recycling vendors through certified recyclers wherever applicable. ➤ Hazardous wastes include contaminated chemical spills, spent dry adsorbing spill absorbing material used for large Septine and onshore chemical spills, used lubricating 	<p>Complied.</p> <ul style="list-style-type: none"> - Solid wastes generated during port development i.e.: construction & demolition wastes are reused for level rising of low lying area within the port premises. Kitchen/ Food, Horticulture/Garden wastes are being sent to Organic Waste Converter (OWC) to convert it into compost and reused as manure in greenbelt/plantation. - Packaging materials generated from the cargo handling i.e.: Wood, Paper/Carton, Steel Scrap, Plastic/Tarpaulin etc. are collected and sold out to recyclers. <p>Complied.</p> <p>All the wastes are segregated at source and stored at a dedicated Hazardous Waste storage shed/yard.</p> <p>Complied. Recyclable wastes is being collected and disposed of through CPCB/GPCB registered recyclers.</p> <p>Complied. Till date there is no spill occurred.</p>

	<p>oils and greases. The chemicals spill inventories and spent dry absorbing material will be stored in a dedicated onsite tank and will be disposed to authorized hazardous waste incinerators.</p> <ul style="list-style-type: none"> ➤ Spent lube oils and greases will be disposed to authorized used oil recycling vendors. ➤ A dedicated and completely enclosed shed will be identified to store the hazardous wastes in order to avoid any cross contamination from storm water. ➤ All the waste should be segregated, collected, categorized as per the HWM Rules 2008, SWM Rules 2000 and Batteries Rules 2001 prescribed by CPCB under Environmental Protection Act, 1986. 	<p>Complied. Recyclable wastes is being collected and disposed of through CPCB/GPCB registered recyclers.</p> <p>Complied. All the wastes are stored at a dedicated hazardous waste storage shed/yard.</p> <p>Complied with. All the wastes are being segregate at source and handled as per applicable rules/guidelines.</p>
6.	<p>Greenbelt and Plantation:</p> <ul style="list-style-type: none"> ➤ AHPPL will develop thick green belt plantation in and around the proposed project facility covering 81.27 Ha. Efforts will be taken to increase the green cover in and around the project boundary using local species with a view to ameliorating project related disturbances and enhancing the ecological value of the area. Greenbelt would be developed as per the CPCB guidelines. ➤ A capital cost of Rs. 1.62 Crore and an annual recurring budget of Rs. 0.65 Crore will be earSeptked for this purpose. 	<p>Complying with.</p> <p>Company has set up dedicated greenbelt area for plantation at periphery / avenue plantation / landscaping etc. Total greenbelt area developed so far is approx. 69.80 ha till Sept., 2018.</p> <p>Horticulture budget for FY 2018-19 is Rs. 139.65 Lakhs.</p>
7.	<p>Community Development Plan:</p> <p>AHPPL has identified focused areas for community development and implement developmental program. The identified activities under CSR program are as follows: -</p> <ol style="list-style-type: none"> 1. Infrastructure development for educational facilities like building of schools, computer rooms, multipurpose activity halls 2. Supporting education through distribution of stationary, scholarships, science kits, bicycles to children, conducting education camps, competitions. 3. Strengthening the community health by arranging health camps, AID awareness camps, providing financial support to senior citizens and poor people, building dispensaries and mobile dispensaries. 4. Improvement of rural sanitation by conducting mass awareness campaign, helping villagers for constructing and maintaining household toilets, school toilets. 5. Improvement in animal husbandry and agriculture by arranging camps for farmers and cattle owners, conducting programs to use new irrigation technologies, organic farming, and free fodder supply. 	<p>Complied.</p> <ul style="list-style-type: none"> • CSR activities carried out by Adani Foundation in four verticals i.e.: - (1) Education, (2). Community Health, (3). Sustainable Livelihood and (4). Rural Infrastructure Development. • Detail of the CSR activities along with budgetary provisions and progress are regularly submitted to MoEF & CC as part of six monthly compliance reports. • Please refer the Annexure-2 for the status of the CSR activities planned during the Financial Year: 2018-19.

	<p>6. Organizing need based skill development program to women and youth for their empowerment.</p> <p>7. Rural infrastructure development by construction of rainwater harvesting ponds, check dams, roads, bus stops, drainage systems, fish landing shed, solar street lamps.</p> <p>AHPPL has committed to spend about Rs. 8.21 Crore in the first five years of the operation towards various rural upliftment and community development programs and tentative budget has been presented in the below table - Budgeted Expenditure for CSR and Community Development Activities:-</p> <table border="1" data-bbox="284 703 879 1055"> <thead> <tr> <th>S. No.</th><th>Descriptions</th><th>Budgeted Amount For 1st 5 year Period (Amount rupees in Crore)</th></tr> </thead> <tbody> <tr> <td>1</td><td>Education</td><td>2.29</td></tr> <tr> <td>2</td><td>Community Health</td><td>1.18</td></tr> <tr> <td>3</td><td>Sustainable Livelihood Activities</td><td>1.43</td></tr> <tr> <td>4</td><td>Rural Infrastructure Development</td><td>2.04</td></tr> <tr> <td>5</td><td>Entry Point Activities</td><td>1.27</td></tr> <tr> <td colspan="2">Total</td><td>8.21</td></tr> </tbody> </table>	S. No.	Descriptions	Budgeted Amount For 1 st 5 year Period (Amount rupees in Crore)	1	Education	2.29	2	Community Health	1.18	3	Sustainable Livelihood Activities	1.43	4	Rural Infrastructure Development	2.04	5	Entry Point Activities	1.27	Total		8.21	
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Total		8.21																					
II.	SEPTINE ENVIRONMENT MANAGEMENT PLAN:																						
A.	<p>CONSTRUCTION PHASE: -</p> <ul style="list-style-type: none"> ➤ The dredge spoil generated during capital dredging will be used for land reclamation for the port development and associated utilities. ➤ Unused dredged material will be disposed off at approved dump sites to the north of port area including dredged soil generated through maintenance dredging. ➤ Appropriate dredging methodology shall be adopted to control the generation of high levels of suspended solids. If the suspended solids concentration increases, the dredging operation should be stopped till the normal conditions are achieved. ➤ General clean up along the corridor used for construction related activities, adjacent intertidal areas, creeks etc. should be undertaken and all the discarded materials must be removed from the site and aesthetic quality of the surroundings to be restored, once the construction activities are completed. 	<p>Complied. No disposal has been done till date. All the dredging material is being utilized for level raising, reclamation.</p> <p>Complied with. If any excess material generated will be disposed of at the location already approved by the MoEF&CC.</p> <p>Noted & complying with. Monitoring of turbidity level in the sea water is being done and there is no abnormal increase observed.</p> <p>Noted & complied with. Cleanup of the area is regularly being done.</p>																					
B.	<p>OPERATION PHASE: -</p> <p>The following mitigation measures are recommended during port operation: -</p> <ul style="list-style-type: none"> ➤ Sewage generated from the port operations will be treated in sewage treatment plant and treated water shall be used for 	<p>Complied. Sewage generated from the port operations is being treated in STP and treated water is being used for</p>																					

	<p>horticulture and green belt development.</p> <ul style="list-style-type: none"> ➤ All the solid waste generated from the port will be properly segregated, stored and disposed as per the applicable statutory requirement. ➤ All the structures shall be designed in such a way that it should not restrict the prevailing tidal ingress in the creek and mangrove habitats in the vicinity to ensure good health condition. ➤ Coastline between Suwali Point and Tapti Estuary mouth and around the port area will be periodically surveyed to assess erosion and accretion. Should the need arises the corrective action in terms of shore stabilization shall be undertaken. ➤ All the minor and major spillages of chemicals will be effectively controlled with appropriate tools and equipments. ➤ An oil/chemical spill management plan shall be evolved and be in place for tier-1 (100t) and tier-2 (700t) spills in consultation with Gujarat Septitime Board/Coast Guard. ➤ All the Septine outfall shall meet the Gujarat Pollution Control Board Effluent Discharge Criteria for Seawater Disposal Standards. ➤ Monitoring of water area of the port and effluent disposal sited shall be studied for pH and Corg, Suspended Solids, DO, BOD in order to identify for deviations if any from the baseline environmental quality. ➤ The mitigation measures suggested for effluent release and maintaining of effluent disposal sites should also be adopted for effluent release by NIKO should be implemented. 	<p>horticulture and green belt development.</p> <p>Complied. All the solid waste generated from the port is properly segregated, stored and disposed as per the applicable rules.</p> <p>Complied with. Free flow to the mangrove is not restricted by any of our activity.</p> <p>Complied. Shoreline change study was conducted by NIO, Vizag during the period from November, 2014 to December, 2015. Study confirms that there is no significant change in the nearby shoreline except for the approved layout of the AHPPL. The report did not warrant any mitigation measures.</p> <p>Noted and complied with. There is no oil spill till date.</p> <p>Complied. Oil Spill Contingency Plan has been prepared and the same was approved/vetted by Indian Coast Guard (Letter No.: 7563, dated 09.01.2014).</p> <p>Noted and complied with. No effluent is being discharged.</p> <p>Complied. Please refer the <u>Annexure-4D</u> for the Sea Water Quality Monitoring / Analysis Reports for the period Apr., 2018 to Sept., 2018.</p> <p>Noted, AHPPL is not discharging any effluent outside the port premises.</p>
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ANNEXURE-4:

**ENVIRONMENTAL MONITORING / ANALYSIS RESULTS FOR THE
PERIOD: Apr., 2018 TO Sept., 2018**

ANNEXURE-4A:**AMBIENT AIR QUALITY MONITORING RESULTS****PERIOD: Apr., 2018 TO Sept., 2018**



4A. AMBIENT AIR QUALITY MONITORING: -

Table-1.1: Ambient Air Quality Monitoring Results At Near Port Gate No.: 2

Sr. No.	Date of Sampling	Location-1: Near Port Gate No.: 2 (N 21° 05.426'E 72° 37.739')											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	02/04/2018	76.42	30.14	BDL*	BDL*	BDL*	BDL*	0.79	BDL*	46.60	16.73	39.37	20.38
2	05/04/2018	65.41	38.42	BDL*	BDL*	BDL*	BDL*	0.54	BDL*	20.24	19.56	25.18	29.38
3	09/04/2018	79.32	33.40	BDL*	BDL*	BDL*	BDL*	0.15	BDL*	42.31	14.54	29.87	19.55
4	12/04/2018	68.67	28.43	BDL*	BDL*	BDL*	BDL*	0.73	BDL*	38.63	9.57	23.46	27.50
5	16/04/2018	88.32	42.78	BDL*	BDL*	2.34	10.37	0.93	BDL*	52.43	20.45	33.34	22.21
6	19/04/2018	62.61	35.74	0.70	BDL*	BDL*	BDL*	0.62	BDL*	22.07	18.44	37.77	28.40
7	23/04/2018	93.39	45.36	BDL*	BDL*	2.48	10.13	0.77	BDL*	26.67	23.73	27.81	25.65
8	26/04/2018	66.20	31.44	BDL*	BDL*	BDL*	BDL*	0.76	BDL*	37.71	15.44	32.39	23.85
9	30/04/2018	87.62	48.37	0.68	BDL*	2.26	10.58	0.49	BDL*	34.34	17.62	30.32	18.57
10	03/05/2018	73.61	45.40	BDL*	BDL*	BDL*	BDL*	0.69	BDL*	31.65	22.50	31.64	15.69
11	07/05/2018	81.26	42.43	0.58	BDL*	BDL*	BDL*	0.22	BDL*	46.93	16.30	28.32	19.42
12	10/05/2018	94.24	53.38	0.72	BDL*	2.52	10.76	0.41	BDL*	28.56	18.61	25.78	24.61
13	14/05/2018	59.63	25.50	BDL*	BDL*	BDL*	BDL*	0.80	BDL*	22.37	21.62	39.71	29.45
14	17/05/2018	70.41	44.29	BDL*	BDL*	BDL*	BDL*	0.50	BDL*	39.43	19.45	35.42	17.41
15	21/05/2018	86.64	36.58	0.63	BDL*	2.34	10.54	0.96	BDL*	10.26	23.42	29.47	30.39
16	24/05/2018	92.46	49.37	0.75	BDL*	2.78	10.65	0.39	BDL*	41.34	17.48	26.49	20.67
17	28/05/2018	80.27	32.69	BDL*	BDL*	BDL*	BDL*	0.49	BDL*	51.22	14.36	30.73	18.75
18	31/05/2018	71.26	43.64	BDL*	BDL*	BDL*	BDL*	0.85	BDL*	19.38	13.41	41.79	22.35
19	04/06/2018	62.33	31.62	BDL*	BDL*	BDL*	BDL*	0.57	BDL*	49.65	17.24	38.65	26.31
20	07/06/2018	83.66	46.31	0.56	BDL*	2.22	10.22	0.41	BDL*	22.69	21.61	41.23	28.51
21	11/06/2018	60.38	34.64	BDL*	BDL*	BDL*	BDL*	0.72	BDL*	45.78	19.31	35.75	17.61
22	14/06/2018	73.33	30.74	0.64	BDL*	2.36	10.34	0.90	BDL*	30.27	15.23	26.11	19.43
23	18/06/2018	86.37	51.84	0.82	BDL*	2.16	10.58	0.64	BDL*	55.79	26.29	44.34	29.43
24	21/06/2018	79.67	27.19	BDL*	BDL*	BDL*	BDL*	0.74	BDL*	42.67	8.71	22.58	21.66
25	25/06/2018	89.69	41.33	BDL*	BDL*	BDL*	BDL*	0.87	BDL*	51.23	24.25	37.56	23.67

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26	28/06/2018	56.35	22.76	BDL*	BDL*	BDL*	BDL*	0.39	BDL*	34.39	11.64	34.54	25.60
27	02/07/2018	53.35	23.59	BDL*	BDL*	BDL*	BDL*	0.30	BDL*	20.37	12.55	30.26	24.24
28	05/07/2018	78.68	44.84	BDL*	BDL*	BDL*	BDL*	0.39	BDL*	29.34	14.25	23.74	27.57
29	09/07/2018	86.48	48.31	0.64	BDL*	2.18	10.51	0.87	BDL*	40.31	17.15	38.47	29.46
30	12/07/2018	65.74	40.62	BDL*	BDL*	BDL*	BDL*	0.61	BDL*	36.82	7.85	20.42	20.36
31	16/07/2018	73.42	35.54	BDL*	BDL*	BDL*	BDL*	0.94	BDL*	26.37	13.41	25.61	18.53
32	19/07/2018	54.30	22.46	BDL*	BDL*	BDL*	BDL*	0.46	BDL*	52.62	15.83	35.69	25.37
33	23/07/2018	87.64	46.31	0.62	BDL*	2.42	10.73	0.52	BDL*	47.27	20.44	39.44	28.36
34	26/07/2018	92.68	49.48	0.58	BDL*	2.54	10.84	0.72	BDL*	42.72	22.43	33.55	22.62
35	30/07/2018	69.73	33.76	BDL*	BDL*	BDL*	BDL*	0.33	BDL*	21.30	16.34	37.50	26.39
36	02/08/2018	80.42	44.88	0.76	BDL*	2.18	10.34	0.48	BDL*	41.22	23.81	40.10	23.77
37	06/08/2018	61.43	28.36	BDL*	BDL*	BDL*	BDL*	0.57	BDL*	32.32	19.33	19.32	30.29
38	09/08/2018	87.50	50.32	0.64	BDL*	2.48	10.65	0.94	BDL*	37.23	12.36	30.53	18.66
39	13/08/2018	67.26	27.82	BDL*	BDL*	BDL*	BDL*	0.87	BDL*	22.44	18.59	24.34	25.65
40	16/08/2018	77.53	41.29	BDL*	BDL*	BDL*	BDL*	0.33	BDL*	33.48	15.17	34.19	22.39
41	20/08/2018	53.64	29.53	BDL*	BDL*	BDL*	BDL*	0.17	BDL*	20.64	11.21	28.28	19.60
42	23/08/2018	81.62	36.85	0.58	BDL*	2.64	10.51	0.90	BDL*	35.62	22.57	36.23	24.66
43	27/08/2018	50.71	24.51	BDL*	BDL*	BDL*	BDL*	0.62	BDL*	44.31	13.51	21.23	15.71
44	30/08/2018	66.56	40.20	BDL*	BDL*	BDL*	BDL*	0.40	BDL*	25.36	20.68	31.44	20.69
45	03/09/2018	54.80	25.64	BDL*	BDL*	BDL*	BDL*	0.17	BDL*	24.58	13.59	23.99	21.30
46	06/09/2018	90.37	47.27	0.74	BDL*	2.32	10.14	0.98	BDL*	46.35	23.66	35.61	19.51
47	10/09/2018	75.31	42.54	BDL*	BDL*	BDL*	BDL*	0.76	BDL*	16.27	16.28	28.50	28.49
48	13/09/2018	86.37	46.22	BDL*	BDL*	BDL*	BDL*	0.23	BDL*	29.55	12.60	34.31	24.34
49	17/09/2018	71.99	38.27	BDL*	BDL*	BDL*	BDL*	0.44	BDL*	20.48	18.23	37.37	20.57
50	20/09/2018	89.49	51.24	0.54	BDL*	2.56	10.46	0.61	BDL*	32.66	25.60	40.27	30.41
51	24/09/2018	62.65	29.28	BDL*	BDL*	BDL*	BDL*	0.78	BDL*	38.42	10.68	29.40	18.23
52	27/09/2018	80.28	44.63	0.66	BDL*	2.44	10.65	0.36	BDL*	50.32	20.34	44.56	26.30

Observation: Above given Result are within the norms Specified Limit as per CPCB Notification NoB-29016/20/90/PCI-I dt: 18/11/2009 National Ambient Air Quality Standards, New Delhi, for 24 hourly or 8 hourly or 1 hourly monitored values

BDL*: - Below Detection Limit: Ozone as O_3 ($\mu g/m^3$): 10
 BDL*: - Below Detection Limit - Lead as Pb ($\mu g/m^3$): 0.5
 BDL*: - Below Detection Limit - Carbon Monoxide as CO (mg/m^3): 0.01
 BDL*: - Below Detection Limit - Ammonia NH_3 ($\mu g/m^3$): 10
 BDL*: - Below Detection Limit - Benzene as C_6H_6 ($\mu g/m^3$): 2
 BDL*: - Below Detection Limit - Benzo (a) Pyrene (BaP) - Particulate Phase only (ng/m^3): 0.5
 BDL*: - Below Detection Limit - Arsenic as As (ng/m^3): 2
 BDL*: - Below Detection Limit - Nickel as Ni (ng/m^3): 10

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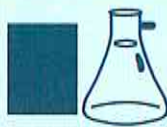


Table-1.2: Ambient Air Quality Monitoring Results At HSE Building Terrace

Sr. No.	Date of Sampling	Location-2: HSE Building Terrace (N 21° 05.043' E 72° 38.491')											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	02/04/2018	45.82	18.91	BDL*	BDL*	BDL*	BDL*	0.37	BDL*	17.76	5.39	19.42	19.52
2	05/04/2018	55.68	23.83	BDL*	BDL*	BDL*	BDL*	0.22	BDL*	10.71	8.36	15.31	25.53
3	09/04/2018	68.93	28.55	BDL*	BDL*	BDL*	BDL*	0.29	BDL*	16.53	12.82	30.63	15.49
4	12/04/2018	58.58	34.35	BDL*	BDL*	BDL*	BDL*	0.46	BDL*	22.65	16.67	40.29	24.28
5	16/04/2018	73.40	31.56	BDL*	BDL*	BDL*	BDL*	0.13	BDL*	28.47	18.70	21.48	17.23
6	19/04/2018	65.79	24.67	BDL*	BDL*	BDL*	BDL*	0.26	BDL*	19.29	10.37	25.37	20.45
7	23/04/2018	76.80	35.10	BDL*	BDL*	BDL*	BDL*	0.52	BDL*	35.51	7.48	34.62	26.62
8	26/04/2018	61.39	19.83	BDL*	BDL*	BDL*	BDL*	0.17	BDL*	23.27	9.73	24.13	16.66
9	30/04/2018	86.28	39.57	BDL*	BDL*	BDL*	BDL*	0.68	BDL*	26.94	14.54	27.38	22.69
10	03/05/2018	50.26	28.72	BDL*	BDL*	BDL*	BDL*	0.54	BDL*	28.40	17.35	22.73	17.30
11	07/05/2018	69.37	33.44	BDL*	BDL*	BDL*	BDL*	0.40	BDL*	17.45	12.41	37.14	15.71
12	10/05/2018	82.39	44.66	0.64	BDL*	BDL*	BDL*	0.48	BDL*	31.28	14.69	29.31	20.31
13	14/05/2018	52.43	19.45	BDL*	BDL*	BDL*	BDL*	0.23	BDL*	25.41	10.17	33.45	18.37
14	17/05/2018	46.34	29.47	BDL*	BDL*	BDL*	BDL*	0.29	BDL*	19.23	6.43	23.59	21.26
15	21/05/2018	60.26	26.38	BDL*	BDL*	BDL*	BDL*	0.37	BDL*	13.45	9.32	20.33	28.83
16	24/05/2018	59.31	37.65	BDL*	BDL*	BDL*	BDL*	0.25	BDL*	20.50	15.65	24.34	30.27
17	28/05/2018	77.48	34.73	BDL*	BDL*	BDL*	BDL*	0.60	BDL*	26.36	8.65	38.44	23.35
18	31/05/2018	64.68	31.22	BDL*	BDL*	BDL*	BDL*	0.47	BDL*	15.77	19.35	30.98	19.45
19	04/06/2018	57.63	37.42	BDL*	BDL*	BDL*	BDL*	0.77	BDL*	19.59	19.58	30.48	20.64
20	07/06/2018	66.46	32.41	BDL*	BDL*	BDL*	BDL*	0.30	BDL*	26.35	15.40	24.57	24.25
21	11/06/2018	51.00	24.59	BDL*	BDL*	BDL*	BDL*	0.62	BDL*	29.47	13.28	38.47	19.86
22	14/06/2018	68.51	27.61	BDL*	BDL*	BDL*	BDL*	0.80	BDL*	23.40	5.42	17.57	23.25
23	18/06/2018	74.70	39.37	BDL*	BDL*	BDL*	BDL*	0.48	BDL*	14.25	8.52	22.71	15.78
24	21/06/2018	52.28	25.66	BDL*	BDL*	BDL*	BDL*	0.42	BDL*	34.50	12.69	31.30	26.41
25	25/06/2018	63.49	34.52	BDL*	BDL*	BDL*	BDL*	0.34	BDL*	18.46	17.32	40.25	28.65
26	28/06/2018	47.50	17.59	BDL*	BDL*	BDL*	BDL*	0.11	BDL*	28.21	6.56	20.69	18.33

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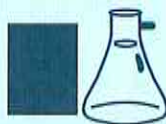
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27	02/07/2018	46.42	19.70	BDL*	BDL*	BDL*	BDL*	0.13	BDL*	18.51	5.55	18.67	19.56
28	05/07/2018	62.68	34.27	BDL*	BDL*	BDL*	BDL*	0.56	BDL*	24.53	8.44	21.22	21.45
29	09/07/2018	77.43	41.60	BDL*	BDL*	BDL*	BDL*	0.53	BDL*	34.42	11.50	34.26	17.87
30	12/07/2018	60.59	36.84	BDL*	BDL*	BDL*	BDL*	0.37	BDL*	29.44	14.52	29.12	25.50
31	16/07/2018	52.64	24.30	BDL*	BDL*	BDL*	BDL*	0.64	BDL*	43.63	7.50	15.56	20.57
32	19/07/2018	42.97	16.31	BDL*	BDL*	BDL*	BDL*	0.17	BDL*	38.47	10.65	27.59	16.56
33	23/07/2018	79.42	39.57	BDL*	BDL*	BDL*	BDL*	0.55	BDL*	12.30	18.28	20.78	18.74
34	26/07/2018	63.73	26.37	BDL*	BDL*	BDL*	BDL*	0.26	BDL*	17.58	15.52	36.18	27.47
35	30/07/2018	59.58	30.26	BDL*	BDL*	BDL*	BDL*	0.23	BDL*	25.61	13.44	22.46	22.45
36	02/08/2018	72.59	38.50	BDL*	BDL*	BDL*	BDL*	0.52	BDL*	10.69	20.39	26.40	15.64
37	06/08/2018	55.64	23.39	BDL*	BDL*	BDL*	BDL*	0.34	BDL*	27.58	16.55	23.41	20.63
38	09/08/2018	62.30	29.39	BDL*	BDL*	BDL*	BDL*	0.72	BDL*	15.66	18.30	33.48	22.81
39	13/08/2018	50.33	20.32	BDL*	BDL*	BDL*	BDL*	0.41	BDL*	40.22	10.40	21.32	18.72
40	16/08/2018	68.43	37.59	BDL*	BDL*	BDL*	BDL*	0.58	BDL*	23.49	12.25	20.13	26.77
41	20/08/2018	44.62	22.39	BDL*	BDL*	BDL*	BDL*	0.21	BDL*	17.30	5.71	15.47	25.20
42	23/08/2018	73.57	33.24	BDL*	BDL*	BDL*	BDL*	0.49	BDL*	30.10	13.66	28.40	21.26
43	27/08/2018	40.25	15.27	BDL*	BDL*	BDL*	BDL*	0.19	BDL*	36.83	9.55	18.69	23.48
44	30/08/2018	52.33	32.33	BDL*	BDL*	BDL*	BDL*	0.53	BDL*	21.54	14.64	24.22	17.53
45	03/09/2018	44.60	16.31	BDL*	BDL*	BDL*	BDL*	0.24	BDL*	13.65	8.67	20.32	16.50
46	06/09/2018	58.45	29.43	BDL*	BDL*	BDL*	BDL*	0.74	BDL*	41.20	18.58	37.25	25.33
47	10/09/2018	65.70	32.33	BDL*	BDL*	BDL*	BDL*	0.34	BDL*	35.60	12.53	25.61	21.52
48	13/09/2018	78.61	33.49	BDL*	BDL*	BDL*	BDL*	0.56	BDL*	21.67	6.76	27.53	28.31
49	17/09/2018	59.30	25.33	BDL*	BDL*	BDL*	BDL*	0.30	BDL*	17.58	10.57	17.54	29.35
50	20/09/2018	82.28	42.68	BDL*	BDL*	BDL*	BDL*	0.45	BDL*	26.29	16.58	31.62	24.56
51	24/09/2018	54.68	27.65	BDL*	BDL*	BDL*	BDL*	0.19	BDL*	32.58	11.22	21.50	27.59
52	27/9/2018	72.64	35.39	BDL*	BDL*	BDL*	BDL*	0.47	BDL*	40.38	24.37	29.62	17.59

Observation: Above given Result are within the norms Specified Limit as per CPCB Notification NoB-29016/20/90/PCI-I dt: 18/11/2009 National Ambient Air Quality Standards, New Delhi, for 24 hourly or 8 hourly or 1 hourly monitored values

BDL* - Below Detection Limit: Ozone as O_3 ($\mu g/m^3$): 10
 BDL* - Below Detection Limit - Lead as Pb ($\mu g/m^3$): 0.5
 BDL* - Below Detection Limit - Carbon Monoxide as CO (mg/m^3): 0.01
 BDL* - Below Detection Limit - Ammonia NH_3 ($\mu g/m^3$): 10
 BDL* - Below Detection Limit - Benzene as C_6H_6 ($\mu g/m^3$): 2
 BDL* - Below Detection Limit - Benzo (a) Pyrene (BaP) - Particulate Phase only (ng/m^3): 0.5
 BDL* - Below Detection Limit - Arsenic as As (ng/m^3): 2
 BDL* - Below Detection Limit - Nickel as Ni (ng/m^3): 10

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Table-1.3: Ambient Air Quality Monitoring Results At Central Water Pump House

Sr. No.	Date of Sampling	Location-3: Central Water Pump House (N 21° 04.697'E 72° 38.420')											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	02/04/2018	59.21	24.37	BDL*	BDL*	BDL*	BDL*	0.31	BDL*	12.29	10.67	31.55	22.65
2	05/04/2018	78.38	35.76	BDL*	BDL*	BDL*	BDL*	0.65	BDL*	26.12	16.68	32.69	19.39
3	09/04/2018	63.40	20.48	BDL*	BDL*	BDL*	BDL*	0.11	BDL*	22.43	8.76	21.55	21.50
4	12/04/2018	50.33	30.46	BDL*	BDL*	BDL*	BDL*	0.25	BDL*	29.50	18.38	27.65	17.32
5	16/04/2018	62.42	27.54	BDL*	BDL*	BDL*	BDL*	0.61	BDL*	16.59	11.70	16.35	25.28
6	19/04/2018	54.32	31.30	BDL*	BDL*	BDL*	BDL*	0.45	BDL*	17.52	6.70	30.76	30.49
7	23/04/2018	69.33	28.66	BDL*	BDL*	BDL*	BDL*	0.23	BDL*	13.52	15.48	23.25	15.73
8	26/04/2018	57.18	25.76	BDL*	BDL*	BDL*	BDL*	0.40	BDL*	20.28	5.73	18.04	20.60
9	30/04/2018	65.30	23.77	BDL*	BDL*	BDL*	BDL*	0.47	BDL*	18.44	12.63	26.27	26.42
10	03/05/2018	82.46	48.53	BDL*	BDL*	BDL*	BDL*	0.62	BDL*	15.57	13.86	29.54	20.55
11	07/05/2018	75.34	26.54	BDL*	BDL*	BDL*	BDL*	0.26	BDL*	23.85	10.30	21.49	22.84
12	10/05/2018	56.52	34.55	BDL*	BDL*	BDL*	BDL*	0.34	BDL*	44.55	12.67	32.30	16.54
13	14/05/2018	69.46	28.84	BDL*	BDL*	BDL*	BDL*	0.64	BDL*	30.38	7.63	38.70	24.33
14	17/05/2018	79.34	46.28	BDL*	BDL*	BDL*	BDL*	0.44	BDL*	25.64	9.50	40.29	26.80
15	21/05/2018	50.57	23.86	BDL*	BDL*	BDL*	BDL*	0.87	BDL*	18.69	18.81	36.47	25.35
16	24/05/2018	66.41	43.25	BDL*	BDL*	BDL*	BDL*	0.36	BDL*	27.20	14.31	20.54	18.48
17	28/05/2018	56.32	24.55	BDL*	BDL*	BDL*	BDL*	0.21	BDL*	42.77	16.21	26.15	27.86
18	31/05/2018	80.33	40.32	BDL*	BDL*	BDL*	BDL*	0.57	BDL*	10.67	11.53	34.39	17.29
19	04/06/2018	69.29	35.59	BDL*	BDL*	BDL*	BDL*	0.45	BDL*	24.52	6.81	34.80	30.32
20	07/06/2018	50.38	23.65	BDL*	BDL*	BDL*	BDL*	0.16	BDL*	17.89	17.63	30.32	17.23
21	11/06/2018	76.40	41.52	BDL*	BDL*	BDL*	BDL*	0.46	BDL*	35.70	11.34	26.55	27.35
22	14/06/2018	60.27	25.75	BDL*	BDL*	BDL*	BDL*	0.58	BDL*	38.40	13.60	33.51	25.52
23	18/06/2018	52.66	32.61	BDL*	BDL*	BDL*	BDL*	0.53	BDL*	29.29	10.53	28.61	23.46
24	21/06/2018	72.63	37.25	BDL*	BDL*	BDL*	BDL*	0.25	BDL*	26.25	5.64	18.66	28.70
25	25/06/2018	82.42	44.37	BDL*	BDL*	BDL*	BDL*	0.55	BDL*	40.53	19.48	31.64	26.74
26	28/06/2018	42.61	15.75	BDL*	BDL*	BDL*	BDL*	0.33	BDL*	18.15	15.43	37.33	22.38
27	02/07/2018	41.64	17.56	BDL*	BDL*	BDL*	BDL*	0.24	BDL*	12.58	10.59	33.71	21.20
28	05/07/2018	55.45	30.60	BDL*	BDL*	BDL*	BDL*	0.31	BDL*	19.34	5.80	18.50	18.53
29	09/07/2018	65.53	35.65	BDL*	BDL*	BDL*	BDL*	0.29	BDL*	30.47	9.51	22.86	25.65

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30	12/07/2018	53.64	22.63	BDL*	BDL*	BDL*	BDL*	0.44	BDL*	23.60	11.61	16.87	15.69
31	16/07/2018	76.39	38.64	BDL*	BDL*	BDL*	BDL*	0.71	BDL*	33.53	15.39	35.79	24.37
32	19/07/2018	49.61	19.31	BDL*	BDL*	BDL*	BDL*	0.34	BDL*	20.54	6.55	31.24	26.42
33	23/07/2018	71.54	34.65	BDL*	BDL*	BDL*	BDL*	0.40	BDL*	26.46	12.44	25.34	20.64
34	26/07/2018	69.62	31.55	BDL*	BDL*	BDL*	BDL*	0.42	BDL*	35.72	17.31	19.35	28.41
35	30/07/2018	52.86	25.40	BDL*	BDL*	BDL*	BDL*	0.41	BDL*	16.35	19.48	29.24	16.44
36	02/08/2018	60.63	30.43	BDL*	BDL*	BDL*	BDL*	0.39	BDL*	22.82	14.49	22.62	17.21
37	06/08/2018	51.26	20.59	BDL*	BDL*	BDL*	BDL*	0.24	BDL*	21.63	10.72	15.33	21.15
38	09/08/2018	68.72	36.51	BDL*	BDL*	BDL*	BDL*	0.60	BDL*	31.24	20.49	19.63	28.31
39	13/08/2018	58.36	23.59	BDL*	BDL*	BDL*	BDL*	0.66	BDL*	29.35	17.52	32.63	20.41
40	16/08/2018	62.61	31.57	BDL*	BDL*	BDL*	BDL*	0.38	BDL*	14.54	9.68	26.38	29.57
41	20/08/2018	38.53	17.56	BDL*	BDL*	BDL*	BDL*	0.14	BDL*	10.20	8.50	33.80	22.36
42	23/08/2018	61.60	27.58	BDL*	BDL*	BDL*	BDL*	0.26	BDL*	24.30	11.43	20.71	25.49
43	27/08/2018	46.55	18.56	BDL*	BDL*	BDL*	BDL*	0.30	BDL*	20.81	7.52	23.37	19.29
44	30/08/2018	59.37	29.28	BDL*	BDL*	BDL*	BDL*	0.29	BDL*	17.67	18.76	27.83	15.55
45	03/09/2018	50.27	22.42	BDL*	BDL*	BDL*	BDL*	0.14	BDL*	10.52	6.57	15.60	14.27
46	06/09/2018	68.68	32.80	BDL*	BDL*	BDL*	BDL*	0.57	BDL*	26.25	13.55	21.61	30.27
47	10/09/2018	52.78	20.50	BDL*	BDL*	BDL*	BDL*	0.66	BDL*	23.55	14.30	35.43	24.62
48	13/09/2018	70.88	28.37	BDL*	BDL*	BDL*	BDL*	0.29	BDL*	15.67	8.40	31.27	26.74
49	17/09/2018	68.24	33.61	BDL*	BDL*	BDL*	BDL*	0.18	BDL*	12.59	16.45	28.44	16.27
50	20/09/2018	78.31	38.32	BDL*	BDL*	BDL*	BDL*	0.49	BDL*	21.79	9.65	22.73	18.63
51	24/09/2018	83.39	40.31	BDL*	BDL*	BDL*	BDL*	0.39	BDL*	18.81	7.54	19.33	29.26
52	27/09/2018	62.55	26.28	BDL*	BDL*	BDL*	BDL*	0.32	BDL*	28.51	12.21	24.92	21.44

Observation: Above given Result are within the norms Specified Limit as per CPCB Notification NoB-29016/20/90/PCI-I dt: 18/11/2009 National Ambient Air Quality Standards, New Delhi, for 24 hourly or 8 hourly or 1 hourly monitored values

BDL*: - Below Detection Limit: Ozone as O_3 ($\mu g/m^3$): 10
BDL*: - Below Detection Limit - Lead as Pb ($\mu g/m^3$): 0.5
BDL*: - Below Detection Limit - Carbon Monoxide as CO (mg/m^3): 0.01
BDL*: - Below Detection Limit - Ammonia NH_3 ($\mu g/m^3$): 10
BDL*: - Below Detection Limit - Benzene as C_6H_6 ($\mu g/m^3$): 2
BDL*: - Below Detection Limit - Benzo (a) Pyrene (BaP) - Particulate Phase only (ng/m^3): 0.5
BDL*: - Below Detection Limit - Arsenic as As (ng/m^3): 2
BDL*: - Below Detection Limit - Nickel as Ni (ng/m^3): 10

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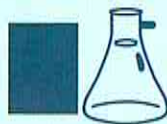
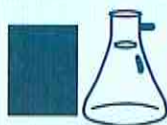


Table-1.4: Ambient Air Quality Monitoring Results At Container Terminal

Sr. No.	Date of Sampling	Location-4: Container Terminal (N 21° 05.187'E 72° 37.774)											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	02/04/2018	52.60	22.42	BDL*	BDL*	BDL*	BDL*	0.71	BDL*	30.65	8.37	26.78	28.54
2	05/04/2018	72.32	32.48	BDL*	BDL*	BDL*	BDL*	0.16	BDL*	40.46	10.51	19.45	24.40
3	09/04/2018	84.37	40.54	0.58	BDL*	2.18	10.21	0.44	BDL*	33.41	5.42	27.35	26.42
4	12/04/2018	65.41	37.19	BDL*	BDL*	BDL*	BDL*	0.13	BDL*	10.42	9.72	15.70	15.48
5	16/04/2018	54.59	20.64	BDL*	BDL*	BDL*	BDL*	0.19	BDL*	36.17	6.70	23.55	20.64
6	19/04/2018	76.29	41.32	BDL*	BDL*	BDL*	BDL*	0.55	BDL*	15.33	14.63	33.76	17.33
7	23/04/2018	61.28	24.42	BDL*	BDL*	BDL*	BDL*	0.18	BDL*	29.43	13.41	30.67	19.48
8	26/04/2018	73.62	33.63	BDL*	BDL*	BDL*	BDL*	0.27	BDL*	24.83	7.55	21.74	25.38
9	30/04/2018	58.73	18.53	BDL*	BDL*	BDL*	BDL*	0.39	BDL*	20.54	11.69	18.48	16.61
10	03/05/2018	65.39	36.44	BDL*	BDL*	BDL*	BDL*	0.19	BDL*	22.62	11.20	35.33	22.42
11	07/05/2018	86.35	38.67	0.54	BDL*	BDL*	BDL*	0.53	BDL*	36.34	18.22	31.25	30.67
12	10/05/2018	79.19	26.76	BDL*	BDL*	BDL*	BDL*	0.65	BDL*	11.69	10.59	20.61	18.63
13	14/05/2018	64.25	30.57	BDL*	BDL*	BDL*	BDL*	0.78	BDL*	18.43	16.53	27.49	16.32
14	17/05/2018	55.45	35.45	BDL*	BDL*	BDL*	BDL*	0.89	BDL*	31.48	12.39	30.61	23.21
15	21/05/2018	78.45	32.43	BDL*	BDL*	2.18	BDL*	0.66	BDL*	16.65	13.71	24.26	21.68
16	24/05/2018	53.20	25.80	BDL*	BDL*	BDL*	BDL*	0.52	BDL*	24.21	7.47	18.63	26.36
17	28/05/2018	68.46	21.59	BDL*	BDL*	BDL*	BDL*	0.38	BDL*	37.30	21.29	33.64	20.83
18	31/05/2018	79.39	28.62	BDL*	BDL*	BDL*	BDL*	0.18	BDL*	13.34	17.70	22.56	15.66
19	04/06/2018	51.63	19.72	BDL*	BDL*	BDL*	BDL*	0.52	BDL*	28.59	15.61	24.37	18.53
20	07/06/2018	60.28	26.75	BDL*	BDL*	BDL*	BDL*	0.36	BDL*	10.91	11.27	27.51	29.71
21	11/06/2018	57.53	39.64	BDL*	BDL*	BDL*	BDL*	0.19	BDL*	40.22	17.59	31.21	21.20
22	14/06/2018	78.65	33.52	0.52	BDL*	2.56	BDL*	0.44	BDL*	12.68	8.62	22.49	17.58
23	18/06/2018	64.89	36.52	BDL*	BDL*	2.38	BDL*	0.31	BDL*	33.65	18.63	35.64	19.76
24	21/06/2018	83.60	42.48	BDL*	BDL*	BDL*	BDL*	0.37	BDL*	30.36	16.30	38.58	25.37
25	25/06/2018	59.66	29.43	BDL*	BDL*	BDL*	BDL*	0.26	BDL*	23.62	14.32	21.58	20.57
26	28/06/2018	69.33	25.60	BDL*	BDL*	BDL*	BDL*	0.14	BDL*	14.55	9.81	26.78	15.61
27	02/07/2018	57.52	25.64	BDL*	BDL*	BDL*	BDL*	0.27	BDL*	16.47	8.53	28.72	15.67
28	05/07/2018	68.70	41.82	BDL*	BDL*	BDL*	BDL*	0.18	BDL*	13.51	10.15	15.71	23.46
29	09/07/2018	73.61	32.47	BDL*	BDL*	BDL*	BDL*	0.32	BDL*	37.53	15.65	27.77	20.63

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30	12/07/2018	49.88	29.56	BDL*	BDL*	BDL*	BDL*	0.50	BDL*	27.56	6.64	33.40	19.52
31	16/07/2018	83.54	42.65	0.52	BDL*	BDL*	BDL*	0.22	BDL*	23.43	9.65	19.53	16.25
32	19/07/2018	59.46	26.72	BDL*	BDL*	BDL*	BDL*	0.58	BDL*	29.23	20.52	21.63	22.51
33	23/07/2018	82.29	49.27	BDL*	BDL*	2.10	10.40	0.45	BDL*	18.70	5.56	30.48	24.53
34	26/07/2018	75.35	37.56	BDL*	BDL*	BDL*	BDL*	0.66	BDL*	21.56	12.65	18.45	18.37
35	30/07/2018	63.38	27.81	BDL*	BDL*	BDL*	BDL*	0.36	BDL*	10.28	11.23	23.52	28.03
36	02/08/2018	67.35	34.35	BDL*	BDL*	BDL*	BDL*	0.45	BDL*	13.53	10.69	29.42	21.61
37	06/08/2018	76.80	38.18	BDL*	BDL*	BDL*	BDL*	0.50	BDL*	24.51	12.67	31.20	24.60
38	09/08/2018	82.62	43.56	BDL*	BDL*	BDL*	BDL*	0.61	BDL*	19.13	14.39	35.48	16.81
39	13/08/2018	73.22	32.85	BDL*	BDL*	BDL*	BDL*	0.37	BDL*	31.59	15.38	18.83	28.41
40	16/08/2018	56.85	28.60	BDL*	BDL*	BDL*	BDL*	0.64	BDL*	36.40	6.54	21.70	18.33
41	20/08/2018	48.54	25.60	BDL*	BDL*	BDL*	BDL*	0.11	BDL*	14.39	9.43	26.49	20.23
42	23/08/2018	66.80	30.56	BDL*	BDL*	BDL*	BDL*	0.32	BDL*	33.52	17.34	32.44	29.66
43	27/08/2018	52.75	21.39	BDL*	BDL*	BDL*	BDL*	0.55	BDL*	25.42	13.25	15.74	17.56
44	30/08/2018	72.30	37.19	BDL*	BDL*	BDL*	BDL*	0.16	BDL*	12.36	8.66	19.44	22.46
45	03/09/2018	60.27	29.56	BDL*	BDL*	BDL*	BDL*	0.31	BDL*	18.63	11.10	19.52	19.37
46	06/09/2018	70.62	26.33	BDL*	BDL*	BDL*	BDL*	0.46	BDL*	19.51	19.21	30.28	18.38
47	10/09/2018	81.52	46.40	0.56	BDL*	BDL*	BDL*	0.26	BDL*	26.59	6.36	22.30	30.49
48	13/09/2018	61.29	23.43	BDL*	BDL*	BDL*	BDL*	0.62	BDL*	34.50	10.31	21.34	20.23
49	17/09/2018	86.22	49.23	BDL*	BDL*	BDL*	BDL*	0.48	BDL*	10.25	12.38	25.36	23.53
50	20/09/2018	69.21	27.51	BDL*	BDL*	BDL*	BDL*	0.22	BDL*	28.62	14.27	27.79	21.73
51	24/09/2018	59.30	32.44	BDL*	BDL*	BDL*	BDL*	0.50	BDL*	21.57	16.17	36.57	16.47
52	27/09/2018	78.35	39.27	BDL*	BDL*	BDL*	BDL*	0.42	BDL*	35.42	8.99	32.85	24.71

Observation: Above given Result are within the norms Specified Limit as per CPCB Notification NoB-29016/20/90/PCI-I dt: 18/11/2009 National Ambient Air Quality Standards, New Delhi, for 24 hourly or 8 hourly or 1 hourly monitored values

BDL*: - Below Detection Limit: Ozone as O₃ (µg/m³): 10
 BDL*: - Below Detection Limit - Lead as Pb (µg/m³): 0.5
 BDL*: - Below Detection Limit - Carbon Monoxide as CO (mg/m³): 0.01
 BDL*: - Below Detection Limit - Ammonia NH₃ (µg/m³): 10
 BDL*: - Below Detection Limit - Benzene as C₆H₆ (µg/m³): 2
 BDL*: - Below Detection Limit - Benzo (a) Pyrene (BaP) - Particulate Phase only (ng/m³): 0.5
 BDL*: - Below Detection Limit - Arsenic as As (ng/m³): 2
 BDL*: - Below Detection Limit - Nickel as Ni (ng/m³): 10

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Table-1.5: Ambient Air Quality Monitoring Results At Hazira Village

Sr. No.	Date of Sampling	Location-5: Hazira Village (N 21° 05.44' E 72° 38.44')											
		PM ₁₀	PM _{2.5}	Pb	BaP	As	Ni	CO	C ₆ H ₆	NH ₃	SO ₂	NO _x	O ₃
		µg/m ³	µg/m ³	µg/m ³	ng/m ³	ng/m ³	ng/m ³	mg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	02/04/2018	69.11	27.61	BDL*	BDL*	BDL*	BDL*	0.21	BDL*	25.89	19.59	23.44	21.27
2	05/04/2018	85.69	40.34	BDL*	BDL*	BDL*	BDL*	0.63	BDL*	49.63	13.76	31.58	27.56
3	09/04/2018	90.41	47.46	0.64	BDL*	2.46	10.47	0.48	BDL*	37.91	17.66	36.48	17.43
4	12/04/2018	75.59	45.37	BDL*	BDL*	BDL*	BDL*	0.30	BDL*	33.60	12.39	33.52	30.29
5	16/04/2018	83.62	35.36	BDL*	BDL*	2.24	10.26	0.66	BDL*	43.46	23.62	28.54	28.60
6	19/04/2018	70.61	32.59	0.78	BDL*	2.68	10.70	0.74	BDL*	29.28	20.60	42.27	19.32
7	23/04/2018	89.30	48.34	BDL*	BDL*	BDL*	10.52	0.96	BDL*	38.84	18.44	37.17	29.35
8	26/04/2018	79.43	38.37	BDL*	BDL*	BDL*	BDL*	0.69	BDL*	52.71	10.44	27.45	18.49
9	30/04/2018	82.32	33.47	0.76	BDL*	2.75	10.36	0.82	BDL*	46.24	14.65	24.41	26.62
10	03/05/2018	86.45	51.28	BDL*	BDL*	BDL*	BDL*	0.88	BDL*	11.88	15.43	26.37	26.23
11	07/05/2018	63.28	30.41	BDL*	BDL*	BDL*	BDL*	0.71	BDL*	41.27	20.65	40.66	28.68
12	10/05/2018	88.41	49.22	0.56	BDL*	2.34	10.63	0.55	BDL*	52.42	16.62	35.27	21.71
13	14/05/2018	79.62	44.32	BDL*	BDL*	BDL*	BDL*	0.92	BDL*	38.46	22.78	30.40	27.20
14	17/05/2018	64.55	38.50	BDL*	BDL*	BDL*	BDL*	0.33	BDL*	45.46	17.70	27.25	29.26
15	21/05/2018	93.41	47.63	0.84	BDL*	2.64	10.98	0.63	BDL*	21.28	21.44	33.73	20.17
16	24/05/2018	74.47	32.51	BDL*	BDL*	BDL*	BDL*	0.45	BDL*	18.30	11.72	29.68	23.39
17	28/05/2018	94.28	50.40	0.65	BDL*	2.46	10.30	0.79	BDL*	47.28	19.01	41.26	30.32
18	31/05/2018	85.69	46.63	BDL*	BDL*	BDL*	BDL*	0.94	BDL*	22.75	9.84	38.36	24.62
19	04/06/2018	82.62	46.83	BDL*	BDL*	BDL*	BDL*	0.71	BDL*	41.64	22.42	43.60	24.61
20	07/06/2018	90.23	49.25	0.68	BDL*	2.18	10.30	0.50	BDL*	30.50	19.26	37.40	22.79
21	11/06/2018	85.73	44.54	BDL*	BDL*	BDL*	BDL*	0.63	BDL*	55.62	24.66	42.60	28.83
22	14/06/2018	92.31	54.21	0.76	BDL*	2.75	10.61	0.54	BDL*	19.40	20.50	29.36	20.35
23	18/06/2018	78.99	42.71	0.58	BDL*	2.55	10.91	0.24	BDL*	47.49	16.39	39.42	25.27
24	21/06/2018	88.30	50.33	BDL*	BDL*	BDL*	BDL*	0.60	BDL*	38.57	18.59	41.89	30.24
25	25/06/2018	76.67	36.63	BDL*	BDL*	BDL*	BDL*	0.76	BDL*	45.52	26.43	34.76	21.79
26	28/06/2018	63.94	30.83	BDL*	BDL*	BDL*	BDL*	0.22	BDL*	22.43	17.79	23.57	27.52
27	02/07/2018	62.52	28.58	BDL*	BDL*	BDL*	BDL*	0.21	BDL*	24.71	14.49	20.51	28.94
28	05/07/2018	84.66	47.50	BDL*	BDL*	BDL*	BDL*	0.25	BDL*	32.40	18.65	28.23	17.58
29	09/07/2018	92.77	53.25	0.70	BDL*	2.48	10.71	0.73	BDL*	27.48	21.52	41.27	27.61

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30	12/07/2018	72.47	32.58	BDL*	BDL*	BDL*	BDL*	0.47	BDL*	46.75	9.64	36.87	30.42
31	16/07/2018	88.79	46.54	0.65	BDL*	BDL*	BDL*	0.98	BDL*	39.43	11.32	29.45	22.88
32	19/07/2018	65.33	30.46	BDL*	BDL*	BDL*	BDL*	0.48	BDL*	42.60	22.87	38.38	29.49
33	23/07/2018	93.44	51.75	0.84	BDL*	2.56	10.81	0.19	BDL*	55.60	16.49	33.88	26.51
34	26/07/2018	86.04	40.58	0.75	BDL*	2.32	10.40	0.60	BDL*	30.03	25.51	30.10	20.40
35	30/07/2018	77.73	34.33	BDL*	BDL*	BDL*	BDL*	0.54	BDL*	28.65	20.60	40.27	21.82
36	02/08/2018	88.67	48.50	0.84	BDL*	2.34	10.54	0.69	BDL*	50.31	18.65	36.33	26.89
37	06/08/2018	68.29	31.25	BDL*	BDL*	BDL*	BDL*	0.42	BDL*	42.58	21.61	33.59	28.66
38	09/08/2018	75.35	39.38	0.75	BDL*	2.18	10.36	0.56	BDL*	35.76	25.55	39.26	24.31
39	13/08/2018	81.25	36.38	BDL*	BDL*	BDL*	BDL*	0.92	BDL*	36.20	19.22	27.52	22.63
40	16/08/2018	73.70	44.25	BDL*	BDL*	BDL*	BDL*	0.54	BDL*	29.19	23.62	37.08	20.38
41	20/08/2018	58.72	33.42	BDL*	BDL*	BDL*	BDL*	0.25	BDL*	23.62	13.45	17.56	27.30
42	23/08/2018	87.53	40.29	0.63	BDL*	2.46	10.80	0.68	BDL*	44.52	24.49	40.24	30.51
43	27/08/2018	60.44	28.50	BDL*	BDL*	BDL*	BDL*	0.44	BDL*	39.26	16.20	26.60	25.34
44	30/08/2018	79.36	46.25	BDL*	BDL*	BDL*	BDL*	0.23	BDL*	18.61	22.87	34.22	19.45
45	03/09/2018	67.65	33.46	BDL*	BDL*	BDL*	BDL*	0.40	BDL*	21.87	15.61	26.41	23.29
46	06/09/2018	79.36	43.25	0.65	BDL*	2.16	10.40	0.63	BDL*	29.50	25.71	38.30	27.35
47	10/09/2018	88.64	49.29	0.84	BDL*	2.38	10.51	0.94	BDL*	30.53	18.55	30.70	30.04
48	13/09/2018	95.68	39.08	BDL*	BDL*	BDL*	BDL*	0.79	BDL*	42.64	16.76	37.59	20.03
49	17/09/2018	79.70	35.29	BDL*	BDL*	BDL*	BDL*	0.64	BDL*	23.40	20.42	42.35	18.95
50	20/09/2018	94.36	52.42	0.76	BDL*	2.88	10.80	0.55	BDL*	37.60	23.32	44.29	28.59
51	24/09/2018	76.34	38.54	BDL*	BDL*	BDL*	BDL*	0.87	BDL*	26.72	19.33	32.39	22.60
52	27/09/2018	87.57	47.42	0.60	BDL*	2.54	10.71	0.68	BDL*	55.78	17.20	39.14	29.52

Observation: Above given Result are within the norms Specified Limit as per CPCB Notification NoB-29016/20/90/PCI-I dt: 18/11/2009 National Ambient Air Quality Standards, New Delhi, for 24 hourly or 8 hourly or 1 hourly monitored values,

- BDL*: - Below Detection Limit: Ozone as O₃ (µg/m³): 10
 BDL*: - Below Detection Limit - Lead as Pb (µg/m³): 0.5
 BDL*: - Below Detection Limit - Carbon Monoxide as CO (mg/m³): 0.01
 BDL*: - Below Detection Limit - Ammonia NH₃ (µg/m³): 10
 BDL*: - Below Detection Limit - Benzene as C₆H₆ (µg/m³): 2
 BDL*: - Below Detection Limit - Benzo (a) Pyrene (BaP) - Particulate Phase only (ng/m³): 0.5
 BDL*: - Below Detection Limit - Arsenic as As (ng/m³): 2
 BDL*: - Below Detection Limit - Nickel as Ni (ng/m³): 10

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ANNEXURE-4B:**GROUND WATER QUALITY MONITORING RESULTS****PERIOD: Apr., 2018 TO Sept., 2018**



4B. GROUND WATER QUALITY MONITORING: -

Table-1.6: Ground Water Quality Results for the period: April, 2018 to Sep., 2018

Sr. NO.	TEST PARAMETERS	UNIT	GROUND WATER OPEN WELL					
			APRIL-18	MAY-18	JUNE-18	JULY-18	AUG-18	SEP-18
			26/04/2018	22/05/2018	22/06/2018	30/07/2018	13/08/2018	22/09/2018
1	Colour	Hazen	3	4	3	2	3	2
2	Odour	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3	Taste	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	0.74	0.58	0.32	0.24	1.64	1.2
5	pH Value	--	7.17	7.94	7.4	7.3	7.68	7.54
6	Total Hardness as CaCO ₃	mg/L	476	390	436	412	344	338
7	Iron as Fe	mg/L	0.011	0.044	0.028	0.032	0.052	0.04
8	Chloride as Cl	mg/L	92	88.97	100	98.2	62	74
9	Residual Free Chlorine	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
10	Fluoride as F	mg/L	0.5	0.2	0.12	0.26	0.4	0.5
11	Total Dissolved Solids	mg/L	840	756	814	835	578	602
12	Calcium as Ca	mg/L	124	86.4	88	96	70.4	71
13	Magnesium as Mg	mg/L	39.84	41.76	51.84	41.28	40.32	38
14	Copper as Cu	mg/L	BDL*	0.036	0.02	0.022	0.013	0.015
15	Manganese as Mn	mg/L	BDL*	0.021	0.012	0.017	0.024	0.032
16	Sulphate as SO ₄	mg/L	70.2	48.4	56.2	48.2	39.4	46.2
17	Nitrate Nitrogen as NO ₃	mg/L	0.34	0.74	0.32	0.34	0.94	1.1
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	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
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	214	432	484	462	400	382
30	Aluminum as Al	mg/L	BDL*	0.011	0.008	0.012	0.015	0.021
31	Boron as B	mg/L	BDL*	0.06	0.02	0.026	0.019	0.016
32	Pesticides							
32.1	Alachor	µg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
32.2	Atrazine	µg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
32.3	Aldrin/Dieldrine	µg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
32.4	Alpha HCH	µg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
32.5	Beta HCH	µg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
32.6	Butachlor	µg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
32.7	Chlorpyrifos	µg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*

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Sr. NO.	TEST PARAMETERS	UNIT	GROUND WATER OPEN WELL					
			APRIL-18	MAY-18	JUNE-18	JULY-18	AUG-18	SEP-18
			26/04/2018	22/05/2018	22/06/2018	30/07/2018	13/08/2018	22/09/2018
32.8	Delta HCH	µg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
32.9	2,4- Dichlorophenoxy acetic acid	µg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
32.10	DDT (o,p & p,p-Isomers of DDT, DDE & DDD	µg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
32.11	Endosulfan (alpha, beta, and sulphate)	µg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
32.12	Ethion	µg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
32.13	Gamma – HCH (Lindane)	µg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
32.14	Isoproturon	µg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
32.15	Malathion	µg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
32.16	Methyl Parathion	µg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
32.17	Monocrotophos	µg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
32.18	Phorate	µg/l	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
33	Coliform	/100 ml	Absent	Absent	Absent	Absent	Absent	Absent
34	E-Coli	/100 ml	Absent	Absent	Absent	Absent	Absent	Absent

*Below detection limit.

Observation: From the above results it is concluded that there is No Significant Changes in the Quality of Ground Water.

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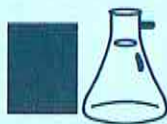
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ANNEXURE-4C:**SURFACE WATER QUALITY MONITORING RESULTS****PERIOD: Apr., 2018 TO Sept., 2018**

**4C. SURFACE WATER QUALITY MONITORING: -****Table-1.7: Surface Water (Pond) Quality Results for the period: April, 2018 to Sep., 2018**

Sr. No.	Parameters	Unit	At Mora Village (Surface Water – Pond)					
			APRIL-18	MAY-18	JUNE-18	JULY-18	AUG-18	SEP-18
			26/04/18	22/05/18	22/06/18	30/07/18	13/08/18	22/09/18
1	Odour	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
2	Colour	Hazen	3	3	4	6	8	10
3	Taste	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	pH Value	--	7.78	7.37	7.1	8.73	8.31	8.14
5	Turbidity	NTU	1.9	1.4	2.6	1.88	6.2	4.8
6	Total Dissolved Solids	mg/L	692	980	1040	1408	408	478
7	Total Hardness as CaCO ₃	mg/L	140	398	510	632	135	140
8	Chloride as Cl	mg/L	146	110	129	148	72	82
9	Fluoride as F	mg/L	0.6	0.3	0.45	0.32	0.75	0.8
10	Iron as Fe	mg/L	0.18	0.18	0.21	0.16	0.24	0.28
11	Colliform	/100 ml	Present	Present	Present	Present	Present	Present
12	E-Coli	/100 ml	Absent	Absent	Present	Absent	Absent	Absent

Observation: From the above results it is concluded that there is No Significant Changes in the Quality of Surface Water.

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ANNEXURE-4D:**SEA WATER QUALITY MONITORING RESULTS****PERIOD: Apr., 2018 TO Sept., 2018**



4D. SEA WATER QUALITY MONITORING: -

Table-1.8: Sea Water Quality Analysis Results of CB2 South End towards Landside from the Sea Basin for the period: April, 2018 to Sep., 2018

S. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS											
			CB2 SOUTH END TOWARDS LANDSIDE FROM SEA BASIN(N 21° 5'1.92", E 72°37'56.58")											
			APRIL-18		MAY-18		JUNE-18		JULY-18		AUGUST-18		SEPTEMBER-18	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	8.15	8.21	8.18	8.12	8.17	8.15	8.25	8.16	8.1	8.01	8.08	8
2	Temperature	°C	30.8	30	31.4	31.1	31.6	31.2	30.8	30.6	30.9	30.7	31	30.8
3	Total Suspended Solids	mg/L	340	290	390	272	367	312	412	390	386	322	351	296
4	BOD (3 Days @ 27 °C)	mg/L	5	4	4.2	3.2	3	4	4	3	3.6	2.8	4	3
5	Dissolved Oxygen	mg/L	6.4	6.1	6.2	5.8	6.3	5.9	6.8	6.5	5.8	5.2	6.2	5.8
6	Salinity	ppt	30.1	29.9	31.2	29.6	31	30	29.2	28.4	29.4	28.6	29.8	29.2
7	Oil & Grease	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
8	Nitrate as NO ₃	μmol /L	17.8	15.2	13.2	10.8	14.6	12	17.8	12.6	20.2	13.1	15.4	10.1
9	Nitrite as NO ₂	μmol /L	2.1	1.7	2.4	2	1.6	1.2	1.6	1.2	2.4	1.6	1.3	1
10	Ammonical Nitrogen as NH ₃	μmol /L	2.4	2.2	2.8	2.6	2.3	1.9	3.5	2.6	3.1	2.4	1.9	1.5
11	Phosphates as PO ₄	μmol /L	2.1	1.8	2.25	1.9	2.49	1.91	2.5	2.11	3.8	2.1	2.4	2.4
12	Total Nitrogen	μmol /L	12.4	9.8	10.8	8.2	17.1	14.2	22.9	16.4	25.7	17.1	18.6	12.6
13	Petroleum Hydrocarbon	μg/L	15	12	22	12	18	13	23	18	20	15	20	12
14	Total Dissolved Solids	mg/L	34322	34018	34982	34380	34740	33912	33710	32980	33210	33090	33912	33204
15	COD	mg/L	18	16	14	12	12	10	15	10	16	10	12	8
A Flora and Fauna														
16.1	Primary Productivity	mgC/L /day	2.2	0.65	1.8	0.94	2.48	1.3	3.06	2.25	3.29	2.13	3.1	1.9
B Phytoplankton														
17.1	Chlorophyll	mg/ m ³	2.7	0.44	2.5	1.2	3.43	2.63	3.92	2.92	3.56	2.21	3.3	2.8
17.2	Phaeophytin	mg/ m ³	0.8	0.65	1.2	0.8	2.58	2.4	2.23	1.47	2.85	1.51	1.9	1.3
17.3	Cell Count	No.x 10 ³ / L	140	95	170	110	110	63	164	98	172	80	150	60
17.4	Name of Group Number and name of group species of each group	--	Anabae na sp. Ankistr odesm us sp. Navicul a sp. Scened esmus sp. Pedias rum sp.	Fragilla ria sp. Nitzschi a sp. Thallasi osira sp. -- --	Navicul a sp Oscillat oria sp Thalass lossira sp closteri um sp Nitzschi a sp	Navicul a sp Fragilla ria sp Melosir a sp -- --	Navicul a Nitzach la Leptocy lindrus Thalass iosira	Melosir a Nitzach la Navicul a --	Melosir a closteri um sp Pedias rum Nitzschi a Thallasi osira Navicul a	Navicul a Nitzschi a Bacteri astrem Melosir a -- --	Navicul a Nitzschi a Thallasi osira Melosir a	Nitzschi a Fragrill a Bacteri astrem --	Navicul a Nitzschi a Thallasi osira Melosir a Biddulp hla	Nitzschi a Fragrill a Melosir a -- --
C Zooplanktons														
18.1	Abundance (Population)	Nox10 ³ /100 m ³	18		45		45		60		64		85	
18.2	Name of Group Number and name of group species of each group	--	Copepods Amphipods Ctenophores Lamellibranches		Copepods Decapods Amphipods		Copepods Gastropods Ostracods		Amphipods Copepods Ostracods Decapods		Copepods Isopond Gastropods Ostracods		Copepods Isopond Gastropods Ostracods	
18.3	Total Biomass	mg/100 m ³	6.2		4.5		3.76		5.8		8.5		8.25	

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D	Microbiological Parameters							
19.1	Total Bacterial Count	CFU/ml	1780	1990	1860	2040	1950	1980
19.2	Total Coliform	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.3	E.coli	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.4	Enterococcus species	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.5	Salmonella species	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.6	Shigella species	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.7	Vibrio species	/ml	Absent	Absent	Absent	Absent	Absent	Absent

BDL* - Below Detection Limit

Observation: From the above results it is concluded that there is No Significant Changes in the Quality of Sea Water.

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Table-1.9: Sea Water Quality Analysis Results of MP1 West End towards Channel from the Sea Basin for the period: April, 2018 to Sep., 2018

S. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS											
			MP1 WEST END TOWARDS CHANNEL FROM SEA BASIN(N 21° 5'9.78",E 72°37'24.48")											
			APRIL-18		MAY-18		JUNE-18		JULY-18		AUGUST-18		SEPTEMBER-18	
		Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	
1	pH	--	8.02	8.15	8.07	8.02	8.12	8.05	8.12	8.05	8.13	8.03	8.16	8.03
2	Temperature	oC	31.2	30.6	31.2	30.9	31.5	31.3	30.2	30	30.8	30.1	30.5	30.3
3	Total Suspended Solids	mg/L	440	380	460	428	403	278	450	372	416	390	312	274
4	BOD (3 Days @ 27 °C)	mg/L	6	4	4	3	3	2	3	1	2	BDL*	3	BDL*
5	Dissolved Oxygen	mg/L	6.2	5.8	6.4	6	6	5.8	6.6	6	6.6	5.4	6.4	6
6	Salinity	ppt	29.8	29.4	31	29.8	32	31	30.1	29.6	30.4	30.1	30.2	30
7	Oil & Grease	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
8	Nitrate as NO ₃	µmo l/L	20.2	18.1	16.4	12.2	17.6	15.4	13.8	10.2	7.4	3.4	11.6	5.4
9	Nitrite as NO ₂	µmo l/L	2.4	1.8	2	1.6	1.8	1.2	2.8	2.4	2.1	1.8	1.5	0.88
10	Ammonical Nitrogenas NH ₃	µmo l/L	2.9	2.5	3.1	2.8	2.6	2.2	3	2.3	4.4	3	1.8	1.2
11	Phosphates as PO ₄	µmo l/L	1.78	1.6	2.15	1.96	3.05	2.87	2.8	2.6	2.9	2.7	2.6	2.4
12	Total Nitrogen	µmo l/L	15.4	13.8	11.8	9.8	12.4	10.2	19.6	14.9	13.9	8.2	14.9	7.48
13	Petroleum Hydrocarbon	µg/L	18	10	10	6	14	8	14	8	15	10	10	8
14	Total Dissolved Solids	mg/L	34210	33940	35460	35210	35790	35332	34112	33872	33902	33640	33756	33582
15	COD	mg/L	20	18	14	12	10	8	12	5	10	5	8	BDL*
A	Flora and Fauna													
16.1	Primary Productivity	mgC/L/day	2.1	0.7	2.8	1.1	1.9	1.3	4.8	3.1	3.69	1.75	2.54	1.08
B	Phytoplankton													
17.1	Chlorophyll	mg/m ³	2.8	0.5	2.4	1.5	3.19	2.37	3.8	2.1	3.33	2.11	3.33	2.5
17.2	Phaeophytin	mg/m ³	1.1	0.9	1.6	1.3	2.67	1.24	3.8	1.6	2.31	1.6	2.58	1.24
17.3	Cell Count	No.x 10 ³ /L	124	95	110	86	127	72	240	180	198	92	204	80
17.4	Name of Group Number and name of group species of each group	--	Ankistr odesm us sp. Navicul a sp. Pediastr um sp. Nitzschi a sp.	Melosir a sp. Nitzschi a sp. Fragilla ria sp. --	Pediastr um sp. Navicul a sp. Skeleto nema sp. Oscillat oria sp. Biddulp hia sp.	Navicul a sp. Nitzsch ia sp. Melosir a sp --	Thallasi osira Navicul a Nitzachi a Skeleto nema	Synedr a Navicu la --	Pediastr um Nitzzach ia Navicul a Biddulp hia Thallasi osira	Navicul a Nitzach ia Pediastr um	Pediastr um Closteri um Navicul a Thallasi osira	Navicul a Nitzach ia Bacteri astrum --	Pediastr um Nitzach ia Navicul a Thallasi osira	Navicul a Melosir a Bacteri astrum --
C	Zooplanktons													
18.1	Abundance (Population)	Nox10 ³ /100 m ³	18		30		38		55		57		77	
18.2	Name of Group Number and name of group species of each group	--	Copepods Isopods Amphipods		Mysids Polychaetes Copepods Gastropods		Copepods Decapods Polychaetes		Copepods Gastropods Ostracods		Polychaetes Gastropods Ostracodsv		Polychaetes Gastropods Ostracods	
19.3	Total Biomass	ml/100 m ³	6.4		5.2		30.5		4.8		5.5		6.4	

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D	Microbiological Parameters							
19.1	Total Bacterial Count	CFU/ml	1650	1850	1780	2310	2250	2290
19.2	Total Coliform	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.3	E.coli	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.4	Enterococcus species	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.5	Salmonella species	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.6	Shigella species	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.7	Vibrio species	/ml	Absent	Absent	Absent	Absent	Absent	Absent

BDL* - Below Detection Limit

Observation: From the above results it is concluded that there is No Significant Changes in the Quality of Sea Water.

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Table-1.10: Sea Water Quality Analysis Results of CB1 End towards Channel from the Sea Basin for the period: April, 2018 to Sep., 2018

S. NO.	TEST PARAMETERS	UNIT	RESULTS OF SEA WATER QUALITY ANALYSIS CB1 END TOWARDS CHANNEL FROM SEA BASIN (N 21° 5'14.67" , E 72°37'40.14")											
			APRIL-18		MAY-18		JUNE-18		JULY-18		AUGUST-18		SEPTEMBER-18	
			Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom	Surface	Bottom
1	pH	--	8.17	8.12	8.25	8.17	8.13	8.09	8.32	8.25	8.19	8.12	8.24	8.16
2	Temperature	oC	30.8	30.5	31.4	30.9	31.2	30	30.4	30.1	30	30	20.8	20.4
3	Total Suspended Solids	mg/L	440	390	380	342	410	372	388	362	440	410	356	310
4	BOD (3 Days @ 27 °C)	mg/L	4	2	3	2	5	4	5	2	2	1	2	BDL*
5	Dissolved Oxygen	mg/L	6	5.6	6.2	5.8	6.4	6.2	6.3	5.8	6.6	6.2	6.4	6
6	Salinity	ppt	30.2	29.8	30.8	30.5	31	30	30.3	29.8	30.6	29.6	30.8	30.1
7	Oil & Grease	mg/L	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
8	Nitrate as NO ₃	µmo/L	17.2	13.8	14.8	11.2	19.6	13.2	20.6	15.2	19.4	11.2	14	10
9	Nitrite as NO ₂	µmo/L	2.2	1.8	1.6	1.1	2.4	1.6	2	1.7	3.6	2	2.4	1.6
10	Ammonical Nitrogen as NH ₃	µmo/L	3	2.7	4.4	3.1	2.8	2.2	3.3	2.7	1.8	1.2	1.2	1
11	Phosphates as PO ₄	µmo/L	2.1	1.8	1.84	1.65	2.98	2.15	2.12	1.9	2.35	2.1	2.1	1.80
12	Total Nitrogen	µmo/L	15.8	12.2	9.6	7.8	14.6	10.2	25.9	19.6	24.8	14.4	17.6	12.6
13	Petroleum Hydrocarbon	µg/L	14	8	18	16	20	14	29	6	14.6	10	18	8
14	Total Dissolved Solids	mg/L	33710	33430	34840	34362	35116	34992	34526	34090	33960	33210	34216	33974
15	COD	mg/L	18	8	11	10	18	16	18	7	14	10	10	BDL*
A Flora and Fauna														
16.1	Primary Productivity	mgC/L/day	1.2	0.75	1.44	0.85	1.8	0.95	2.74	2.07	3.15	2.7	2.61	1.57
B Phytoplankton														
17.1	Chlorophyll	mg/m ³	2.6	0.4	2.9	1.5	3.31	2.7	3.28	2.28	3.8	2.38	3.76	2.28
17.2	Phaeophytin	mg/m ³	1.5	0.5	1.1	0.8	1.51	1.06	2.13	1.33	2.18	1.86	2.04	1.94
17.3	Cell Count	No.x 10 ³ /L	95	80	120	90	121	69	180	88	156	76	166	82
17.4	Name of Group Number and name of group species of each group	--	Pediasium sp. Closterium sp. Thalassiosira sp. Navicula sp.	Nitzschia sp. Navicula sp. Melosira sp. --	Pediasium sp. Navicula sp. Closterium sp. Oscillatoria sp. Biddulphia sp.	Navicula sp. Skeletonema sp. Bacillaria sp. --	Leptocylinthus Navicula Nitzschia Syndra	Navicula Melosira -- --	Navicula Melosira Nitzschia Closterium Biddulphia Syndra	Navicula Melosira Nitzschia Closterium Thalassiosira Syndra	Navicula Melosira Nitzschia Fragilaria -- --	Melosira Rhizosolenia Nitzschia Syndra Fragilaria	Synedra Fragilaria Navicula -- --	
C Zooplanktons														
18.1	Abundance (Population)	Nox10 ³ /100 m3	24		22		51		54		59		79	
18.2	Name of Group Number and name of group species of each group	--	Ostracods Copepods Foraminiferans		Foraminiferans Nematodes Copepods Decapods		Copepods Decapods Gastropods Polychaetes		Copepods Gastropods Ostracods Decapods		Copepods Gastropods Decapods		Copepods Gastropods Decapods	
18.3	Total Biomass	mg/100 m ³	8.2		7.5		4.02		5.8		4.9		6	
D Microbiological Parameters														

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		CFU/ ml	1710	1990	1640	1980	2100	1940
19.1	Total Bacterial Count							
19.2	Total Coliform	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.3	E.coli	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.4	Enterococcus species	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.5	Salmonella species	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.6	Shigella species	/ml	Absent	Absent	Absent	Absent	Absent	Absent
19.7	Vibrio species	/ml	Absent	Absent	Absent	Absent	Absent	Absent

BDL* - Below Detection Limit,

Minimum Detection Limit, BOD: 3.0 mg/L, Oil & Grease: 1.0mg/L, Petroleum Hydrocarbon: 10µg/L, Nitrite as NO₂: 0.002 mg/L, Pheophytin: 0.1 mg/m³

Observation: From the above results it is concluded that there is No Significant Changes in the Quality of Sea Water.

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ANNEXURE-4E:**DUMP POND DISCHARGE WATER QUALITY MONITORING RESULTS****PERIOD: Apr., 2018 TO Sept., 2018**

**4E. DUMP POND DISCHARGE WATER QUALITY MONITORING: -****Table-1.11: Dump Pond Water Quality Analysis Results for the Period: April, 2018 to Sep., 2018**

Sr. No.	Parameters	Unit	28/05/2018	16/08/2018	16/08/2018	16/08/2018
			OLD COAL YARD	NEAR PUMP HOUSE COAL YARD	OLD COAL YARD	PET COCK
1	pH	--	8.98	8.01	7.76	7.92
2	Total Dissolved Solids	mg/L	2210	1046	168	162
3	Total Suspended Solids	mg/L	65	72	170	156
4	Turbidity	NTU	102	136	14.2	10.2
5	BOD (3 Days @ 27 °C)	mg/L	24	30	8.2	8.6
6	Dissolved Oxygen	mg/L	6.2	6.1	6.6	5.2
7	COD	mg/L	90	158	42	40
8	Salinity	ppt	0.92	1.4	0.055	0.068
9	Oil & Grease	mg/L	2.1	1.8	BDL*	BDL*
10	Total Hardness as CaCO ₃	mg/L	110	92	76	46
11	Fluoride as F	mg/L	1.1	0.64	0.32	0.28
12	Chloride as Cl	mg/L	508	780	30	38
13	Zinc as Zn	mg/L	0.035	0.064	0.01	0.012
14	Cadmium as Cd	mg/L	BDL*	BDL*	BDL*	BDL*
15	Lead as Pb	mg/L	BDL*	BDL*	BDL*	BDL*
16	Mercury as Hg	mg/L	BDL*	BDL*	BDL*	BDL*

BDL*: Below Detection Limit, Minimum Detection Limit, Mercury as Hg: 0.00025 mg/L, Oil & Grease: 1.0 mg/L, Cadmium as Cd: 0.001 mg/L, Lead as Pb: 0.005 mg/L, Fluoride: 0.01 mg/L.

Observation: From the above results it is concluded that there is No Significant Changes in the Quality of Dump Pond Discharge Water.

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ANNEXURE-4F:**AMBIENT NOISE LEVEL MONITORING RESULTS****PERIOD: Apr., 2018 TO Sept., 2018**



4F. AMBIENT NOISE LEVEL MONITORING: -

Table-1.12: Ambient Noise Level Monitoring Results during the Day Time in Leq. dB(A) for the period: April, 2018 to Sep., 2018 At Near Port Gate No.: 2

Sampling Location	1 - Near Port Gate No.: 2					
Longitude Latitude	N 21° 05.426'E 72°37.739'					
Date of Monitoring	02/04/2018	03/05/2018	04/06/2018	02/07/2018	02/08/2018	03/09/2018
6:00-7:00	56.8	63.0	55.2	68.2	69.6	70.2
7:00-8:00	53.6	60.3	54.2	59.1	61.7	67.2
8:00-9:00	58.5	67.9	63.2	73.5	70.3	65.3
9:00-10:00	67.0	62.2	72.0	72.6	65.2	70.4
10:00-11:00	64.8	73.2	67.0	69.0	68.2	66.8
11:00-12:00	66.6	68.8	62.5	71.0	71.4	68.7
12:00-13:00	69.9	64.3	70.8	57.9	62.3	60.3
13:00-14:00	71.1	70.2	73.5	74.9	64.2	55.3
14:00-15:00	52.6	55.7	56.3	61.7	63.6	68.2
15:00-16:00	72.0	69.9	73.8	50.3	60.4	56.0
16:00-17:00	65.1	71.1	69.3	67.2	56.3	61.2
17:00-18:00	63.6	61.2	64.2	62.2	66.2	69.2
18:00-19:00	73.6	66.8	68.7	58.6	55.9	62.3
19:00-20:00	70.9	74.2	61.1	66.4	72.6	53.9
20:00-21:00	68.1	72.3	71.1	70.5	69.6	54.3
21:00-22:00	62.7	65.2	59.9	63.9	71.2	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 am to 10:00 pm and Night Time shall mean from 10:00 pm to 06:00 am.

Table-1.13: Noise Level Monitoring Results during the Night Time in Leq. dB(A) for the period: April, 2018 to Sep., 2018 At Near Port Gate No.: 2

Sampling Location	1 - Near Port Gate No.: 2					
Longitude Latitude	N 21° 05.426'E 72°37.739'					
Date of Monitoring	02/04/2018 & 03/04/2018	03/05/2018 & 04/05/2018	04/06/2018 & 05/06/2018	02/07/2018 & 03/07/2018	02/08/2018 & 03/08/2018	03/09/2018 & 04/09/2018
22:00-23:00	65.1	66.0	61.9	60.0	59.2	55.2
23:00-00:00	58.7	61.2	63.2	64.4	56.2	62.1
00:00-01:00	66.2	67.4	58.9	59.0	62.8	61.2
01:00-02:00	61.5	65.4	68.2	53.9	61.6	51.2
02:00-03:00	57.6	59.2	62.4	63.9	57.3	59.5
03:00-04:00	55.2	54.8	60.2	58.8	55.2	64.7
04:00-05:00	60.3	62.3	59.2	65.6	57.2	58.3
05:00-06:00	43.8	46.9	50.9	56.8	55.2	59.9

*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 am to 10:00 pm and Night Time shall mean from 10:00 pm to 06:00 am.

Observation: Above given Results are within the specified norms as per The Noise Pollution (Regulation and Control) Rules 2000.

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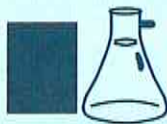


Table-1.14: Ambient Noise Level Monitoring Results during the Day Time in Leq. dB(A) for the period: April, 2018 to Sep., 2018 At HSE Building Terrace

Sampling Location	2 - HSE Building Terrace					
Longitude Latitude	N 21° 05.043' E 72° 38.491'					
Date of Monitoring	05/04/2018	07/05/2018	07/06/2018	05/07/2018	24/08/2018	13/09/2018
6:00-7:00	63.2	70.0	62.2	72.3	68.3	69.3
7:00-8:00	49.2	50.3	56.2	61.9	62.5	65.0
8:00-9:00	59.3	68.2	71.2	66.0	69.2	72.3
9:00-10:00	65.3	58.2	67.6	57.2	59.3	52.0
10:00-11:00	66.2	67.2	65.7	52.2	65.2	62.5
11:00-12:00	57.8	66.9	69.2	56.6	67.9	54.3
12:00-13:00	70.8	71.2	63.6	55.3	68.1	64.3
13:00-14:00	68.1	60.2	61.2	59.9	50.7	66.1
14:00-15:00	61.5	63.7	52.3	60.2	65.2	55.3
15:00-16:00	69.8	72.0	71.0	54.4	64.5	58.2
16:00-17:00	64.9	59.2	60.1	68.8	62.9	63.2
17:00-18:00	67.0	73.2	55.7	53.6	56.2	60.3
18:00-19:00	72.9	69.6	57.7	58.0	60.8	56.3
19:00-20:00	60.5	62.9	68.0	71.4	53.6	61.0
20:00-21:00	71.4	65.5	64.5	51.1	61.2	67.2
21:00-22:00	55.2	61.1	59.0	67.0	66.6	72.9

*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 am to 10:00 pm and Night Time shall mean from 10:00 pm to 06:00 am.

Table-1.15: Noise Level Monitoring Results during the Night Time in Leq. dB(A) for the period: April, 2018 to Sep., 2018 At HSE Building Terrace

Sampling Location	2 - HSE Building Terrace					
Longitude Latitude	N 21° 05.043' E 72° 38.491'					
Date of Monitoring	05/04/2018 & 06/04/2018	07/05/2018 & 08/05/2018	07/06/2018 & 08/06/2018	05/07/2018 & 06/07/2018	24/08/2018 & 25/08/2018	13/09/2018 & 14/09/2018
22:00-23:00	62.3	64.8	56.8	60.6	65.1	63.2
23:00-00:00	64.6	63.2	60.1	61.2	60.6	56.3
00:00-01:00	66.5	58.2	61.1	63.6	61.2	57.9
01:00-02:00	55.2	57.0	51.2	64.3	63.6	65.9
02:00-03:00	57.8	62.2	65.4	66.0	58.2	53.6
03:00-04:00	58.5	66.0	63.4	69.2	59.3	60.2
04:00-05:00	54.1	59.9	66.4	65.3	64.2	51.3
05:00-06:00	50.4	56.9	52.3	62.0	60.1	64.1

*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 am to 10:00 pm and Night Time shall mean from 10:00 pm to 06:00 am.

Observation: Above given Results are within the specified norms as per The Noise Pollution (Regulation and Control) Rules 2000.

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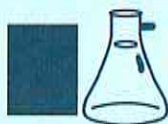


Table-1.16: Ambient Noise Level Monitoring Results during the Day Time in Leq. dB(A) for the period: April, 2018 to Sep., 2018 At Central Water Pump House

Sampling Location	3 - Central Water Pump House					
Longitude Latitude	N 21° 04.697' E 72° 38.420'					
Date of Monitoring	09/04/2018	10/05/2018	11/06/2018	09/07/2018	09/08/2018	18/09/2018
6:00-7:00	55.3	57.8	54.0	64.8	70.9	65.4
7:00-8:00	69.0	67.1	58.8	65.0	68.2	62.0
8:00-9:00	62.4	71.9	64.0	73.0	60.2	65.3
9:00-10:00	59.9	66.0	72.0	68.1	71.1	63.2
10:00-11:00	71.0	61.1	67.2	55.2	64.5	59.3
11:00-12:00	54.4	60.3	61.5	72.0	69.6	68.3
12:00-13:00	70.3	70.2	69.0	58.9	62.3	52.3
13:00-14:00	72.7	69.0	70.0	54.9	59.3	55.9
14:00-15:00	60.3	65.5	53.7	56.3	65.5	64.3
15:00-16:00	65.9	59.6	60.9	61.1	69.7	53.2
16:00-17:00	67.0	71.8	59.2	66.3	57.2	51.6
17:00-18:00	68.8	70.9	72.1	62.3	63.6	66.3
18:00-19:00	57.7	63.3	65.8	51.2	52.3	54.3
19:00-20:00	56.6	64.1	70.3	57.0	50.2	58.3
20:00-21:00	64.2	70.3	68.8	63.7	58.8	60.3
21:00-22:00	66.6	62.7	63.2	69.9	53.2	71.5

*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 am to 10:00 pm and Night Time shall mean from 10:00 pm to 06:00 am.

Table-1.17: Noise Level Monitoring Results during the Night Time in Leq. dB(A) for the period: April, 2018 to Sep., 2018 At Central Water Pump House

Sampling Location	3 - Central Water Pump House					
Longitude Latitude	N 21° 04.697' E 72° 38.420'					
Date of Monitoring	09/04/2018 & 10/04/2018	10/05/2018 & 11/05/2018	11/06/2018 & 12/06/2018	09/07/2018 & 10/07/2018	09/08/2018 & 10/08/2018	18/09/2018 & 19/09/2018
22:00-23:00	63.0	53.6	52.7	56.7	60.6	61.2
23:00-00:00	65.8	57.4	59.4	55.6	63.6	56.2
00:00-01:00	67.3	65.3	64.2	53.8	63.5	49.3
01:00-02:00	49.5	53.7	61.3	56.6	60.6	62.5
02:00-03:00	56.9	60.8	62.3	64.9	61.7	58.3
03:00-04:00	55.7	62.0	64.1	65.1	56.7	63.9
04:00-05:00	58.6	62.1	59.7	68.4	59.3	56.3
05:00-06:00	64.8	65.3	67.1	69.9	61.6	59.2

*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 am to 10:00 pm and Night Time shall mean from 10:00 pm to 06:00 am.

Observation: Above given Results are within the specified norms as per The Noise Pollution (Regulation and Control) Rules 2000.

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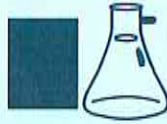


Table-1.18: Ambient Noise Level Monitoring Results during the Day Time in Leq. dB(A) for the period: April, 2018 to Sep., 2018 At Container Terminal

Sampling Location	4 - Container Terminal					
Longitude Latitude	N 21° 05.187' E 72° 37.774'					
Date of Monitoring	12/04/2018	14/05/2018	14/06/2018	12/07/2018	13/08/2018	21/09/2018
6:00-7:00	62.6	56.9	61.1	67.8	64.3	69.7
7:00-8:00	58.8	57.2	63.7	56.3	68.1	73.0
8:00-9:00	54.9	58.3	53.2	65.5	63.3	70.9
9:00-10:00	65.5	64.3	71.2	72.2	66.3	68.3
10:00-11:00	61.5	62.2	67.4	51.6	59.5	66.2
11:00-12:00	69.8	69.4	59.2	57.7	60.7	54.3
12:00-13:00	64.1	65.3	54.3	74.0	58.3	59.3
13:00-14:00	66.0	60.5	57.9	59.3	66.5	67.2
14:00-15:00	63.6	66.1	70.0	71.0	68.3	55.3
15:00-16:00	74.4	55.3	62.5	68.7	57.4	63.3
16:00-17:00	71.0	64.5	74.1	58.2	54.9	64.3
17:00-18:00	73.9	69.8	72.0	61.2	62.4	58.2
18:00-19:00	67.3	68.1	73.3	55.9	66.6	61.3
19:00-20:00	68.9	69.5	55.2	52.3	62.7	56.3
20:00-21:00	70.3	59.0	65.8	63.2	61.8	71.9
21:00-22:00	60.9	63.1	68.6	64.8	65.1	57.8

#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 am to 10:00 pm and Night Time shall mean from 10:00 pm to 06:00 am.

Table-1.19: Noise Level Monitoring Results during the Night Time in Leq. dB(A) for the period: April, 2018 to Sep., 2018 At Container Terminal

Sampling Location	4 - Container Terminal					
Longitude Latitude	N 21° 05.187' E 72° 37.774'					
Date of Monitoring	12/04/2018 & 13/04/2018	14/05/2018 & 15/05/2018	14/06/2018 & 15/06/2018	12/07/2018 & 13/07/2018	13/08/2018 & 14/08/2018	21/09/2018 & 22/09/2018
22:00-23:00	68.1	51.3	55.3	58.1	59.5	52.3
23:00-00:00	52.1	55.0	56.7	60.2	63.2	65.7
00:00-01:00	57.2	60.7	63.6	65.3	61.3	58.2
01:00-02:00	64.4	62.3	65.8	57.8	60.9	54.3
02:00-03:00	54.9	57.9	58.5	61.6	64.3	66.4
03:00-04:00	53.4	54.4	52.2	59.8	62.5	63.5
04:00-05:00	60.2	63.0	66.2	67.2	55.3	59.3
05:00-06:00	56.7	61.8	62.7	66.3	54.9	59.9

#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 am to 10:00 pm and Night Time shall mean from 10:00 pm to 06:00 am.

Observation: Above given Results are within the specified norms as per The Noise Pollution (Regulation and Control) Rules 2000.

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Table-1.20: Ambient Noise Level Monitoring Results during the Day Time in Leq. dB(A) for the period: April, 2018 to Sep., 2018 At Hazira Village

Sampling Location	5 - Hazira Village					
Longitude Latitude	N 21° 05.44' E 72° 38.44'					
Date of Monitoring	16/04/2018	17/05/2018	18/06/2018	16/07/2018	16/08/2018	22/09/2018
6:00-7:00	55.7	54.2	63.5	69.3	60.3	66.6
7:00-8:00	59.4	70.2	70.8	64.8	68.5	56.2
8:00-9:00	63.5	53.3	68.3	55.7	69.3	62.3
9:00-10:00	54.8	62.3	65.8	58.3	61.4	55.8
10:00-11:00	68.1	70.3	61.3	65.4	62.3	64.8
11:00-12:00	58.0	63.0	69.8	53.2	70.3	68.5
12:00-13:00	64.4	60.3	67.3	57.8	68.2	66.3
13:00-14:00	67.3	71.2	68.5	61.3	58.3	59.6
14:00-15:00	53.1	69.4	69.9	52.9	64.8	68.2
15:00-16:00	62.3	68.8	70.6	59.8	54.4	52.1
16:00-17:00	56.5	67.3	64.4	63.2	57.9	60.7
17:00-18:00	69.7	72.3	62.7	56.2	55.5	65.3
18:00-19:00	60.9	55.3	58.3	68.2	65.4	68.3
19:00-20:00	52.9	58.3	54.5	62.0	62.2	69.2
20:00-21:00	66.0	65.6	57.1	67.3	66.8	53.6
21:00-22:00	61.8	64.5	60.9	72.6	68.1	57.4

*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 am to 10:00 pm and Night Time shall mean from 10:00 pm to 06:00 am.

Table-1.21: Noise Level Monitoring Results during the Night Time in Leq. dB(A) for the period: April, 2018 to Sep., 2018 At Hazira Village

Sampling Location	5 - Hazira Village					
Longitude Latitude	N 21° 05.44' E 72° 38.44'					
Date of Monitoring	16/04/2018 & 17/04/2018	17/05/2018 & 18/05/2018	18/06/2018 & 19/06/2018	16/07/2018 & 17/07/2018	16/08/2018 & 17/08/2018	22/09/2018 & 23/09/2018
22:00-23:00	62.4	61.3	65.6	64.5	61.8	60.1
23:00-00:00	51.6	48.8	53.6	57.8	55.6	58.2
00:00-01:00	55.3	59.9	60.9	58.3	61.0	57.4
01:00-02:00	50.3	54.3	55.3	63.3	52.3	62.5
02:00-03:00	46.4	51.3	50.2	55.8	59.5	58.6
03:00-04:00	52.2	58.6	59.6	62.3	56.6	56.7
04:00-05:00	57.5	60.3	62.3	65.8	61.5	59.5
05:00-06:00	54.0	53.9	58.1	56.2	60.7	48.4

*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 am to 10:00 pm and Night Time shall mean from 10:00 pm to 06:00 am.

Observation: Above given Results are within the specified norms as per The Noise Pollution (Regulation and Control) Rules 2000

Note: The Noise Level of Hazira Village is compare with the Industrial area Norms as Hazira Village is Surround By Numbers of Industries.

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ANNEXURE-4G:**DG SETS & STACK EMISSION AND NOISE LEVEL MONITORING RESULTS****PERIOD: Apr., 2018 TO Sept., 2018**

**4G. DG SETS STACK EMISSION AND NOISE LEVEL MONITORING: -****Table-1.22: DG Sets Stack Monitoring Results for the period: April, 2018 to Sep., 2018**

Sr. No.	Parameters	Unit	DG SET TOYO DENKI -1		DG SET TOYO DENKI -2		DG SET TOYO DENKI -3	
			MAY-18	AUG-18	MAY-18	AUG-18	MAY-18	AUG-18
1	Particulate Matter	mg/Nm ³	15.5	19.84	11.74	13.41	12.83	15.63
2	Sulphur Dioxide	ppm	6.61	7.91	5.37	7.51	4.34	6.27
3	Oxide of Nitrogen	ppm	39.23	32.67	36.95	25.77	32.89	28.77
4	Carbon Monoxide (CO)	mg/m ³	5.73	10.1	7.43	6.44	3.93	7.63
5	Non Methyl Hydro Carbon (NMHC)	mg/m ³	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*

Table-1.23: DG Sets Noise Level Monitoring Results for the period: April, 2018 to Sep., 2018

Sr. No.	DG Set Average Noise Level In Leq. dB(A)		
	Sampling Location	At 1 M Distance From The Enclosure	
	Sampling Date	MAY-18	AUG-18
1.	DG SET TOYO DENKI -1	71.2	72.7
2.	DG SET TOYO DENKI -2	73.5	70.5
3.	DG SET TOYO DENKI -3	72.4	71.8

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ANNEXURE-4H:**SEA SEDIMENT QUALITY MONITORING RESULTS****PERIOD: Apr., 2018 TO Sept., 2018**



4H. SEA SEDIMENT QUALITY MONITORING: -

Table-1.25: Sea Sediment Quality Results of CB2 South End towards Landside for the period: April, 2018 to Sep., 2018

S. NO.	PARAMETERS	UNIT	CB2 SOUTH END TOWARDS LANDSIDE FROM SEA BASIN (N 21° 5'1.92", E 72°37'56.58")					
			APRIL-18	MAY-18	JUNE-18	JULY-18	AUG-18	SEP-18
1	Organic Matter	%	0.36	0.54	0.48	0.65	0.55	0.65
2	Phosphorus as P	µg/g	810	920	680	620	740	920
3	Texture	---	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt
4	Petroleum Hydrocarbon	µg/g	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
5	Heavy Metals							
5.1	Aluminum as Al	%	4.8	5.1	4.9	5.3	5.3	5.5
5.2	Total Chromium as Cr ⁺³	µg/g	140	112	132	112	130	156
5.3	Manganese as Mn	µg/g	1540	1710	1680	1780	1810	1922
5.4	Iron as Fe	%	4.6	4.9	4.9	5.1	4.7	4.9
5.5	Nickel as Ni	µg/g	42	56	36	42	40	32
5.6	Copper as Cu	µg/g	38.2	32	29	30	31	40
5.7	Zinc as Zn	µg/g	172	210	170	210	156	260
5.8	Lead as Pb	µg/g	12.6	8.4	10.8	7.5	7.4	3.2
5.9	Mercury as Hg	µg/g	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)	---	Polychaetes Bivalves	Polychaete worms Brachyurans	Polychaetes Bivalves	Bivalves Polychaetes Decapods	Bivalves Polychaetes	Bivalves Polychaetes
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	---	Copepods	Foraminifer ans Bryozoans	Copepods	Copepods	Bryozons Ostracodes	Copepods Ostracodes
6.3	Population	No./m ²	480	210	380	471	324	412

BDL* - Below Detection Limit

Observation: From the above results it is concluded that there is No Significant Changes in the Quality of Sea Sediment.

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Table-1.26: Sea Sediment Quality Results of MP1 West End towards Channel of Sea Basin for the period: April, 2018 to Sep., 2018

S. NO.	PARAMETERS	UNIT	MP1 WEST END TOWARDS CHANNEL OF SEA BASIN (N 21° 5'9.78", E 72°37'24.48")					
			APRIL-18	MAY-18	JUNE-18	JULY-18	AUG-18	SEP-18
1	Organic Matter	%	0.28	0.44	0.52	0.45	0.38	0.54
2	Phosphorus as P	µg/g	740	610	940	810	930	810
3	Texture	--	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt
4	Petroleum Hydrocarbon	µg/g	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
5	Heavy Metals							
5.1	Aluminum as Al	%	5.1	5.6	5.25	5.1	5.4	5.3
5.2	Total Chromium as Cr ⁺³	µg/g	108	98	110	142	170	110
5.3	Manganese as Mn	µg/g	1680	1820	1570	1840	1620	1788
5.4	Iron as Fe	%	4.9	4.7	5.1	5.05	4.9	4.8
5.5	Nickel as Ni	µg/g	58	38	58	36	48	44
5.6	Copper as Cu	µg/g	23.4	29	36	38	24	28
5.7	Zinc as Zn	µg/g	188	270	212	232	214	234
5.8	Lead as Pb	µg/g	10.2	7.2	8.6	6.2	5.1	2.6
5.9	Mercury as Hg	µg/g	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	Bivalves Polychaete	Polychaetes Isopods	Polychaetes Decapods Isopods	Polychaetes Decapods	Polychaetes Chaetognaths
6.2	MeioBenthos (No and name of groups present, No and name of species of each group present)	--	Nematodes Copepods	Nematodes Bryozoans	Bryozoans	Ostracodes	Bryozoans	Copepods
6.3	Population	No./m ²	590	180	176	412	235	324

BDL* - Below Detection Limit

Observation: From the above results it is concluded that there is No Significant Changes in the Quality of Sea Sediment.

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Table-1.27: Sea Sediment Quality Results of CB1 End towards Channel for the period: April, 2018 to Sep., 2018

S. NO.	PARAMETERS	UNIT	CB1 WEST END TOWARDS CHANNEL OF SEA BASIN (N 21° 5'14.67" , E 72°37'40.14")					
			APRIL-18	MAY-18	JUNE-18	JULY-18	AUG-18	SEP-18
1	Organic Matter	%	0.6	0.75	0.64	0.72	0.62	0.6
2	Phosphorus as P	µg/g	770	840	770	890	810	980
3	Texture	--	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt	Sandy Silt
4	Petroleum Hydrocarbon	µg/g	BDL*	BDL*	BDL*	BDL*	BDL*	BDL*
5	Heavy Metals							
5.1	Aluminum as Al	%	5.3	5.45	5.05	5.5	4.9	5.2
5.2	Total Chromium as Cr ⁺³	µg/g	152	172	127	130	152	172
5.3	Manganese as Mn	µg/g	1710	1960	1810	1580	1570	1490
5.4	Iron as Fe	%	5.1	5.3	4.8	5.2	5.2	4.75
5.5	Nickel as Ni	µg/g	35	65	42	58	56	52
5.6	Copper as Cu	µg/g	44.6	36	24	44	18	23
5.7	Zinc as Zn	µg/g	156	198	150	263	196	218
5.8	Lead as Pb	µg/g	14.8	9.9	13.2	5.5	2.8	3.8
5.9	Mercury as Hg	µg/g	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 Decapods	Polychaete worms Bivalves	Polychaete s Gastropod s	Polychaete s Bivalves	Polychaete s Bivalves	Polychaete s Decapods
6.2	Melobenthos (No and name of groups present, No and name of species of each group present)	--	Nematode s	Bryozoans Nematods	Bryozoans	Copepods Ostracodes	Copepods	Copepods
6.3	Population	No./m ²	450	240	265	529	206	206

BDL* - Below Detection Limit

Observation: From the above results it is concluded that there is No Significant Changes in the Quality of Sea Sediment.

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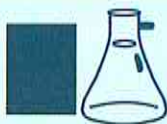
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ANNEXURE-4I:**SOIL QUALITY MONITORING RESULTS****PERIOD: Apr., 2018 TO Sept., 2018**

**4I. SOIL QUALITY MONITROING: -****Table-1.28A : Soil Quality Testing Results for the period: April, 2018 to Sep., 2018**

SR. NO.	PARAMETERS	UNIT	NEAR LT CANTEEN PARKING	NEAR PORT GATE NO. 2
			30/04/2018	30/04/2018
1	Type	--	Clay	Clay
Grain Size Analysis				
2	Gravel	%	3.9	2.8
3	Coarse Sand	%	6	3.9
4	Medium Sand	%	10.2	13.2
5	Fine Sand	%	57.9	56.1
6	Total Sand	%	22	24
7	Silt + Clay	%	78	76
8	pH (1:5)	--	9.3	9.05
9	Electricity Conductivity	µmho/cm	1860	1960
10	Alkali matter	mg/kg	590	760
11	Cation Exchange Capacity	meq/100 gm	60	52
12	Sodium Absorption Ratio	--	12	13.2
13	Organic Matter	mg/kg	0.8	0.56
14	Available Nitrogen	meq/100 gm	0.24	0.32
15	Available Potassium	mg/kg	2.6	4.1
16	Available Phosphorus	mg/kg	0.34	0.36
17	Available Sodium	mg/kg	0.65	1.1
18	Permeability	cm/sec	4.2×10^{-5}	4.2×10^{-5}

Observation: From the above results it is concluded that there is No Significant Changes in the Quality of Soil Quality.

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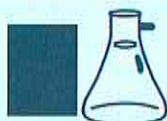
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**Table-1.28A : Soil Quality Testing Results for the period: April, 2018 to Sep., 2018**

SR. NO.	PARAMETERS	UNIT	NEAR LT CANTEEN PARKING	NEAR PORT GATE NO. 2
			28/06/2018	28/06/2018
1	Type	--	Clay	Clay
Grain Size Analysis				
2	Gravel	%	2.4	2.1
3	Coarse Sand	%	8.2	6.2
4	Medium Sand	%	12.6	15.4
5	Fine Sand	%	53.8	58
6	Total Sand	%	23	22
7	Silt + Clay	%	77	78
8	pH (1:5)	--	8.95	8.95
9	Electricity Conductivity	µmho/cm	1920	2010
10	Alkali matter	mg/kg	610	702
11	Cation Exchange Capacity	meq/100 gm	55	58
12	Sodium Absorption Ratio	--	14	15
13	Organic Matter	mg/kg	0.72	0.45
14	Available Nitrogen	meq/100 gm	0.18	0.24
15	Available Potassium	mg/kg	3	3.5
16	Available Phosphorus	mg/kg	0.25	0.4
17	Available Sodium	mg/kg	0.75	0.9
18	Permeability	cm/sec	3.8×10^{-5}	3.9×10^{-5}

Observation: From the above results it is concluded that there is No Significant Changes in the Quality of Soil Quality.

Authorized Signatory

● FSSAI Approved Lab

● Recognised by MoEF, New Delhi Under
Sec. 12 of Environmental (Protection) Act-1986

● GPCB approved
schedule II auditor

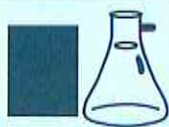
● ISO 14001

● OHSAS 18001

● ISO 9001

"Pollucon House", Plot No. 5 & 6, Opp. Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart,
Navjivan Circle, Udhana Magdalla Road, Surat-395007, Gujarat, India.

Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

**Table-1.28A : Soil Quality Testing Results for the period: April, 2018 to Sep., 2018**

SR. NO.	PARAMETERS	UNIT	NEAR LT CANTEEN PARKING	NEAR PORT GATE NO. 2
			27/09/2018	27/09/2018
1	Type	--	Clay	Clay
Grain Size Analysis				
2	Gravel	%	1.2	1.1
3	Coarse Sand	%	7.4	5.8
4	Medium Sand	%	14.4	13.4
5	Fine Sand	%	30	24.2
6	Total Sand	%	53	44.5
7	Silt + Clay	%	47	55.5
8	pH (1:5)	--	8.65	8.89
9	Electricity Conductivity	µmho/cm	1720	1778
10	Alkali matter	mg/kg	590	690
11	Cation Exchange Capacity	meq/100 gm	48	50
12	Sodium Absorption Ratio	--	12	13
13	Organic Matter	mg/kg	0.58	0.35
14	Available Nitrogen	meq/100 gm	0.21	0.18
15	Available Potassium	mg/kg	4	4
16	Available Phosphorus	mg/kg	0.32	4.2
17	Available Sodium	mg/kg	1.1	0.95
18	Permeability	cm/sec	3.6×10^{-5}	3.8×10^{-5}

Observation: From the above results it is concluded that there is No Significant Changes in the Quality of Soil Quality.

Authorized Signatory

● FSSAI Approved Lab

● Recognised by MoEF, New Delhi Under
Sec. 12 of Environmental (Protection) Act-1986

● GPCB approved
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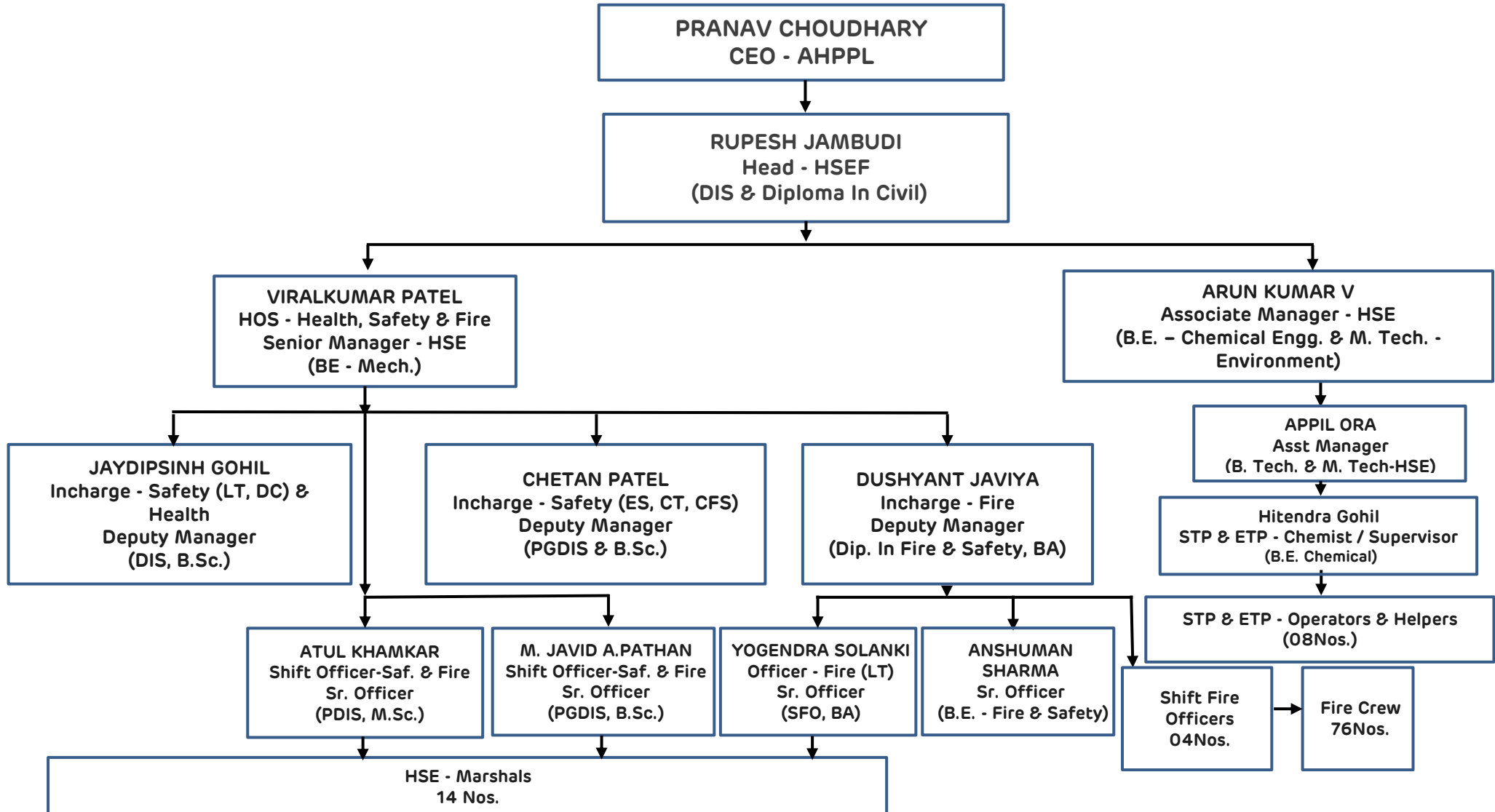
● ISO 9001

"Pollucon House", Plot No. 5 & 6, Opp. Balaji Industrial Society, Old Shantinath Silk Mill Lane, Near Gaytri Farsan Mart,
Navjivan Circle, Udhana Magdalla Road, Surat-395007, Gujarat, India.

Phone : 0261-2635750, 0261-2635751, 0261-2635775, 07016605174, WEB: www.polluconlab.com, E. mail: pollucon@gmail.com, info@polluconlab.com

ANNEXURE-5:**ORGANOGRAM OF AHPPL - ENVIRONMENT MANAGEMENT CELL**

Annexure-5: Organogram Of AHPPL - Environment Management Cell: -



ANNEXURE-6:**DETAILS OF ENVIRONMENT MANAGEMENT BUDGET****FOR THE FINANCIAL YEAR: 2018-19**

Annexure-6: Details of Environment Management Budget For The Financial Year: 2018-19

S. No.	Activities	Budget Amount (In Lacs)	Expenditure (INR In Lacs till 30th Sept, 18)
1	Salary of Environmental Professionals	15.00	2.38
2	Environmental Study / Audit and Consultancy Services	21.81	0.00
3	Legal & Statutory Expenses	3.00	0.01
4	Environmental Monitoring Services	15.37	8.36
5	Mangrove Afforestation/Plantation & Bio-Shielding Pilot Project	12.78	4.83
6	Hazardous Waste Management & Disposal	12.76	1.56
7	Horticulture Development - Greenery and Plantation	139.65	48.20
8	O&M of Sewage Treatment Plants and Effluent Treatment Plant	41.75	6.97
9	Environment Day Celebration	2.00	2.00
10	Treatment and Disposal of Bio-Medical Waste	1.07	0.03
11	Environmental Initiatives & Others Miscellaneous	5.50	82.52
Total Amount (INR In Lacs)		270.69	156.86



Adani Hazira Port Private Limited

**From : Apr., 2018
To : Sept., 2018**

ANNEXURE-7:

**COMPLIANCE REPORT OF CONDITIONS STIPULATED IN CONSENT TO ESTABLISH
(CTE-77767) ISSUED BY GUJARAT POLLUTION CONTROL BOARD, GANDHINAGAR (GUJARAT)
VIDE LETTER NO.: GPCB/CCA-SRT-1314(6)/ID_35352/352537, DATED 16/04/2016**

Annexure-7: Compliance Report for Consent to Establish (CTE-77767) granted by **Gujarat Pollution Control Board** vide letter No.: **GPCB/CCA-SRT/1314(6)/ID_35352/352537**, dated **16/04/2016** to setting up of **DG Set (Stand by) of Capacity 750 KVA** located at **Near Hazira Pvt. Ltd., Hazira: 394270, Tal.: Chorasi, Dist.: Surat.**

S. No.	Conditions	Compliance Status						
SPECIFIC CONDITIONS:								
	<ul style="list-style-type: none"> The Validity period of the order will be Five years i.e. 30/03/2021 	Noted.						
	<ul style="list-style-type: none"> Unit shall provide arrangement for acoustic enclosure to keep Noise levels within Norms. 	Complied. All the sound intensive components (DG Sets and Compressor) are with acoustic enclosures. Noise level is being monitored through M/s. Pollucon Laboratories, Surat (a MoEF&CC recognized and NABL accredited laboratory). Monitoring reports show that noise level is well within the norms at project boundary. Please refer the noise level monitoring reports for the period Apr., 2018 to Sept., 2018 is enclosed as Annexure-4F .						
	<ul style="list-style-type: none"> Unit shall obtain CCA-amendment for D.G. Sets. 	Complied. AHPPL obtained the CC&A from Gujarat Pollution Control Board CCA Order No.: AWH-77379 vide letter No.: GPCB/CCA-SRT-1314(6)/ID_35352/352538 dated 16/04/2016.						
The Conditions under Air Act 1981 shall be read as:								
1.	The following shall be used as fuel only in D.G. Set (Stand By). <table border="1"> <thead> <tr> <th>Sr. No.</th><th>Fuel</th><th>Total Quantity</th></tr> </thead> <tbody> <tr> <td>1</td><td>Diesel</td><td>160 Lit./Hr.</td></tr> </tbody> </table>	Sr. No.	Fuel	Total Quantity	1	Diesel	160 Lit./Hr.	Complied with. Diesel is being used for DG set.
Sr. No.	Fuel	Total Quantity						
1	Diesel	160 Lit./Hr.						
2.	The applicant shall install & operate a comprehensive adequate air pollution control system in order to achieve prescribed norms.	Complied. AHPPL has installed & operate a comprehensive adequate air pollution control system in order to achieve prescribed norms. Following control measures are in place and effectively working at port to control fugitive dust: - <ol style="list-style-type: none"> Spill boards are being provided to prevent cargo spillage into the sea. Transportation of coal from jetty 						

		<p>to coal storage yard through 1.7 Km. long conveyor belt with hood.</p> <p>3. Water sprinklers in to the coal yard,</p> <p>4. Dust Suppression System / Spray Nozzles in Conveyor System and Discharge Chute,</p> <p>5. Water spray through Water Browsers,</p> <p>6. Water Mist Canon / Fog System,</p> <p>7. Wind Brake Shield of 14 meters high and 1200 meters long,</p> <p>8. Transportation of cargo from port to hinterland is being done through dumpers / trucks covered with tarpaulin,</p> <p>9. Regular cleaning the roads through Road Sweeping Machines, and</p> <p>10. Company has set up dedicated greenbelt area for plantation at periphery / avenue plantation / landscaping etc. Total greenbelt area developed so far is approx. 69.80 ha within the port premises.</p>												
3.	<p>The flue gas emission through Proposed D.G. Sets stack shall conform to the following standards:</p> <table><tr><th>Stack No.</th><th>Stack attached to</th><th>Stack Height In Meter</th><th>Air Pollution Control System</th><th>Parameters</th><th>Permissible Limit</th></tr><tr><td>1.</td><td>D.G. Set (Stand By) 750 KVA</td><td>11</td><td>--</td><td>PM SO₂ NO_x</td><td>150 mg/NM³ 100 ppm 50 ppm</td></tr></table>	Stack No.	Stack attached to	Stack Height In Meter	Air Pollution Control System	Parameters	Permissible Limit	1.	D.G. Set (Stand By) 750 KVA	11	--	PM SO ₂ NO _x	150 mg/NM ³ 100 ppm 50 ppm	<p>Complied. Stack emission monitoring is being carried out through M/s. Pollucon Laboratories (a MoEF&CC recognized and NABL accredited laboratory) within port premises and during current monitoring period all the pollutants are found under the limit. Please refer the Annexure-4G for the DG Sets stack emission Monitoring / Analysis Reports for the period Apr., 2018 to Sept., 2018.</p>
Stack No.	Stack attached to	Stack Height In Meter	Air Pollution Control System	Parameters	Permissible Limit									
1.	D.G. Set (Stand By) 750 KVA	11	--	PM SO ₂ NO _x	150 mg/NM ³ 100 ppm 50 ppm									
4.	<p>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.</p>	<p>Complied. AHPPL has provided the adequate stack monitoring facilities i.e.: Port hole, Platform/ladder etc. to facilitate the sampling of gases being emitted into the atmosphere.</p>												
5.	<p>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:-</p> <table><tr><th>Sr.</th><th>Pollutant</th><th>Time</th><th>Concentration</th></tr></table>	Sr.	Pollutant	Time	Concentration	<p>Complied.</p> <p>Ambient air quality monitoring is being carried out through M/s. Pollucon Laboratories (a MoEF&CC and NABL accredited laboratory) within port premises and during current</p>								
Sr.	Pollutant	Time	Concentration											

	No.		Weighted Average	in Ambient Air	monitoring period all the pollutants are found under the limit. Please refer the Annexure-4A for the Environmental Monitoring/Analysis Reports for the period Apr., 2018 to Sept., 2018 .
	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	
6.	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 75 dB(A) during day time and 70 dB(A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.				Complied. Ambient Noise Level Monitoring is being carried out through M/s. Pollucon Laboratories (a MoEF&CC recognized and NABL accredited laboratory) within port premises and during current monitoring period all the noise level are found under the norms. Please refer the Annexure-4F for the Ambient Noise Level Monitoring Reports for the period Apr., 2018 to Sept., 2018 .
7.	The applicant shall provide proper ventilation and exhaust facilities so as to maintain healthy working atmosphere within the factory premises.				Complied with. AHPPL has provided proper ventilation and exhaust facilities to maintained healthy working atmosphere within the port premises.
8.	The other conditions of the Consent Order No.: WH-47069 Dated: 21/05/2015 Valid up to Dated- 04/04/2017 shall remain unchanged.				Noted. The said consent has been renewed with consent order no. AWH-87176 on 17.07.2017 valid till 14.04.2022



Adani Hazira Port Private Limited

From : Apr., 2018
To : Sept., 2018

ANNEXURE-8:

DETAIL OF WASTE COLLECTION AND DISPOSAL OFF FROM VESSELS



Adani Hazira Port Private Limited

**From : Apr., 2018
To : Sept., 2018**

Annexure-8: Detail of Liquid/Wastes Collection & Disposed off from Vessels by GPCB Approved Third Party During period Apr., 2018 To Sept., 2018

S. No.	Vessel Name	Party Name	Quantity (MT)
1	MV FLAG LAMA	UNITED SHIPPING COMPANY	6.75
2	MV HHL VENICE	ATLAS ORGANICS PVT LTD	10.27
3	MV DUBAI AMBASSADOR	UNITED SHIPPING COMPANY	9.22
4	MV REAL HAPPINESS	UNITED SHIPPING COMPANY	19.46
5	MT BON ATLANTICO	ATLAS ORGANICS PVT LTD	11.6
6	MV SEARIDER	UNITED SHIPPING COMPANY	31.29
TOTAL			88.59



Adani Hazira Port Private Limited

From : Apr., 2018
To : Sept., 2018

ANNEXURE-9:

DISPOSAL CERTIFICATE OF WASTE and CC& A copies of waste vendors

DATE: 11/10/2018

To,
ADANI HAZIRA PORT PVT LTD
NEAR LNG TERMINAL,
AT & PO HAZIRA,
CHORYASHI, SURAT-394270

Sub: Certification For Disposal of Hazardous waste.

Respected Sir,

We have received the below mentioned quantity of hazardous waste for co-processing. Disposal of Hazardous waste for co-processing At **Recycling Solutions Pvt Ltd** has been done by way of Co-processing as per the statutory guidelines.

Sr.No	Waste Name	Manifest. No.	Date	Qty/MT
1	PIG WASTE	1807003450	06-09-2018	2.05
2	PIG WASTE	1807003602	12-09-2018	1.4
3	PIG WASTE	1807003636	15-09-2018	1.26
4	PIG WASTE	1807003695	18-09-2018	1.44
5	PIG WASTE	1807003267	23-08-2018	1.54
TOTAL				7.69

In event of any queries, please feel free to contact us for further assistance.

Yours Truly,

For, **Recycling Solutions Private Limited.**

Authorized Signatory





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

In exercise of the power conferred under section-25 of the Water (Prevention and Control of Pollution) Act-1974, under section-21 of the Air (Prevention and Control of Pollution)-1981 and Authorization under rule 6(2) of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016 & as amended from time to time framed under the Environment (Protection) Act-1986.

And whereas Board has received consolidated consent application Inward I.D.NO. 115518 dated 28/11/2016 for the Consolidated Consent and Authorization (CC & A) of this Board and under the provisions/rules of the aforesaid acts. Consents & Authorization are hereby granted as under

CONSENTS AND AUTHORISATION:

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

To,

M/s Recycling Solution Pvt Ltd.

Plot no.-223, GIDC Estate, Panoli

Ankleshwar-394116

Dist-Ankleshwar

1. Consent Order No: AWH – 83687, Date of Issue-16/01/2017

The consents under Water Act-1974, Air Act-1981 and Hazardous and Other Wastes (M&TM) Rules - 2016 shall be valid up to 31/12/2021 for the following activities at Plot No. 223, GIDC Estate, Panoli, and Dist. Ankleshwar – 394116.

Sr No.	Facility	Capacity
1.	(Solid ,Semi Solid & Liquid) Waste Mix Pre-Processing Facility	240MT/Day

2. SUBJECT TO THE FOLLOWING SPECIFIC CONDITIONS

- 2.1 Applicant shall have to obtain trial/regular permission from SPCB / CPCB prior to send the prepare fuel to Cement industry.
- 2.2 Pre-processing of hazardous and other wastes shall be carried out only after making the entry into the passbook issued by the SPCB.
- 2.3 Unit shall maintain and submit monthly records of waste received and pre processed to the Board.
- 2.4 Applicant shall operate the processing facility in such a way so that stored volume of Hazardous waste/prepared fuel shall not exceed the storage time of 90 days from date of receipt and in case of exceeding the time limit, applicant shall stop immediately receiving hazardous waste from member units until prepared fuel from such stored hazardous waste is sent to cement industries for co-processing.
- 2.5 Applicant shall operate the processing facility in such a way so that stored volume of Hazardous waste/prepared fuel shall not exceed the storage capacity at any point of time, Once the stored volume reaches to the storage capacity, facility shall stop immediately receiving hazardous waste from member units.
- 2.6 Applicant shall have to strictly comply and adhered to the MOU signed and legal undertaking submitted to the board in letter and spirit.

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Outward No: 40697/2016

- 2.7 Applicant shall have to obtain the membership of Common Hazardous Waste TSDF and Incineration facility.
- 2.8 Applicant shall carry out only Collection, Storage and transportation of Hazardous waste from Member Units to their processing facility and processing (blending) for the preparation of fuel for co-processing (Co-Incineration).
- 2.9 Applicant shall not send prepared fuel for co-processing (Co-Incineration) without obtaining prior CCA - amendment of the Board.
- 2.10 Applicant shall have to comply with all the recommendations, suggestions and Environmental stipulations given by Hon. Supreme Court of INDIA, Ministry of Environment & Forests New Delhi, Central Pollution Control Board Delhi and Gujarat Pollution Control Board from time to time.
- 2.11 In case of deviation or alteration in the project including the implementing agency, a fresh reference shall be made to GPCB and MoEF, New Delhi for modification in the Clearance conditions or imposition of new one for ensuring environmental protection. The applicant shall be responsible for implementing the suggested safe guards.
- 2.12 Applicant shall follow the Guidelines of CPCB for labeling, transportation, storage and disposal of hazardous wastes in an environmental sound manner.
- 2.13 Applicant shall have to take all the precautions to control fugitive emission and Odour control from the different operations of your site as per the Guideline of CPCB.
- 2.14 The Project proponent shall make necessary arrangement for online monitoring of below shown parameters and display it online on XGN of Common Hazardous waste Incineration facility.
- 2.15 The project proponent shall use Hazardous waste tracking system of X tended Green Node (XGN) for on line real time data updation on Transportation of Hazardous waste by them. The compilation of real time data for preparing online manifest by the generator, Transporter and receptor shall have to be maintained on daily basis & submitted by the generator and receptor of the facility to the concerned Regional Office, and Head Office, GPCB.
- 2.16 The project proponent shall have to transport Hazardous waste through dedicated Vehicles with GPS (Global Positioning System) enabled system and in line with Hazardous and other wastes (Management and Transboundary Movement) Rules-2016.
- 2.17 Applicant shall carry out TCLP test in and around the processing facility and submit the report at regular interval.
- 2.18 Applicant shall furnish the copy of insurance policy as per Public Liability Insurance act 1991 to the Board.
- 2.19 Applicant shall prepare on site emergency plan and Disaster management plan as per the various guidelines published by competent authority and also conduct mock drill in co-ordination with local district co-ordination and Regional office GPCB.
- 2.20 Applicant shall submit the plan in accordance with the Chemical Accidents (Emergency Planning, preparedness and response) Rules, 1996 published by MOEF New Delhi.
- 2.21 It shall be the responsibility/duty of the applicant to take adequate steps while handling hazardous wastes to contain contaminants and prevent accidents and their consequences on human and environment, and prevent person working on the site with information, training and equipment necessary to ensure their safety.
- 2.22 Applicant shall be liable for all damage caused to the environment or third party due to improper handling and storage of the hazardous wastes or disposal of the hazardous wastes.
- 2.23 Applicant shall be liable to pay financial penalties as levied for any violation of the provisions under Hazardous Wastes (Management, Handling and Trans Boundary Movement) Rules, 2008 by the State Pollution Control Board with the prior approval of the Central Pollution Control Board.
- 2.24 In case of transportation of hazardous wastes through a State other than the State of origin or destination the occupier shall intimate the concerned State Pollution Control Boards before, he hands over the hazardous wastes to the transporter (if applicable).



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector 10-A, Gandhinagar 382 010

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3. CONDITIONS UNDER WATER ACT :

- 3.1 The Discharge of industrial effluent from the common facilities and other related operations of the site shall be "ZERO" KLD.
- 3.2 The quantity of the domestic waste water (Sewage) shall not exceed 2.9KLD.
- 3.3 Sewage shall be disposed of through septic tank and soak pit system.

4. CONDITION UNDER AIR ACT:

- 4.1 There is no Flue Gas and process gas emission from the process and other ancillary operation.
- 4.2 The Stack of 14 meter height is attached to the AFRF Plant for air replenishment system.
- 4.3 The Applicant shall take all necessary measure to curb the foul odour and shall submit the monthly report of ODC - 50consumption.
- 4.4 There shall be wheel washing facility at the site to avoid dusting while transportation of hazardous waste.
- 4.5 Ambient air quality within the premises of the facility shall conform to the following Standards:-

PARAMETER	Concentration in Ambient Air		Method of Measurement
	Annual	24 hrs. Average	
Particulate matter-10 (PM 10)	60 µg/m ³	100 µg/m ³	Gravimetric, TOEM Beta attenuation
Particulate matter-2.5 (PM 2.5)	40 µg/m ³	60 µg/m ³	Gravimetric, TOEM Beta attenuation
Sulphur Dioxide(SO ₂)	50 µg/m ³	80 µg/m ³	Improved West and Gacke Ultraviolet fluorescene
Nitrogen Dioxide (NO ₂)	40 µg/m ³	80 µg/m ³	Modified Jacob & Hoechheiser (Na-Arsenite) Chemiluminescence
Benzene	5 µg/m ³	-----	Gas chromatography based continuous analyzer Adsorption and Desorption followed by GC analysis
Benzo (a) pyrene (BaP)- Particulate Phase only	01 ng/m ³	-----	Solvent extraction followed by HPLC/GC analysis
Arsenic(As)	06 ng/m ³	-----	AAS/ICP method after sampling on EPM 2000 or equivalent filter paper
Nickel (Ni)	20 ng/m ³	-----	AAS/ICP method after sampling on EPM 2000 or equivalent filter paper
Lead (Pb)	0.50µg/m ³	1.0 µg/m ³	AAS/ICP method after sampling on EPM 2000 or equivalent filter paper ED-XRF using Teflon filter
Ammonia	100 µg/m ³	400 µg/m ³	Chemiluminescence Indophenol blue method

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Outward No: 40073.14/03/2017

Ozone	100 µg/m ³ 8 hours	180 µg/m ³ 1 hour	UV photometric Chemiluminescence Chemical Method
Carbon Monoxide (CO)	02 µg/m ³ 8 hours	04 µg/m ³ 1 hour	Non dispersive Infra Red (NDIR) spectroscopy

5. CONDITIONS UNDER HAZARDOUS WASTE MANAGEMENT RULES:

A. General condition:

1. Number of authorization: **AWH - 83687** Date of issue: **16/01/2017**
2. M/s. RECYCLING SOLUTION PRIVATE LIMITED is hereby granted an authorization to operate facility for following hazardous waste on the premises situated at Plot No. 223, GIDC Estate, Panoli, Disl. - Ankleshwar - 394116.

Sr. No.	Waste	Quantity	Schedule	Facility
1	Incinerable Hazardous waste(Solid/Liquid/ Semi Solid)	240 MTPA		Reception from member units through dedicated vehicle, storage, and blending within premises.
2	Distillation Residues from contaminated organic solvents	24 MT/Day	37.3	Collection, Storage, Transportation, disposal at CHWIF.
3.	Empty Drums/container /Barrels/Carboy contaminated with Hazardous chemicals/ waste	1080MTA	33.1	Receiving drums from member unit, Collection, Storage, Decontamination within premises and selling to authorized Recycler
4.	ETP Sludge from waste water treatment	60MTA	35.3	Collection ,Storage, Transportation, Disposal to TSDF

3. The authorization is granted to operate processing facility to prepare fuel for co-incineration (Co-processing) by reception of Hazardous waste from member units.
4. The authorization shall be force for a period up to Five years valid up to **31/12/2021**
5. The applicant shall have to regularly monitor ground water, ambient air quality and shall submit reports to GPCB and CPCB regularly.
6. The applicant shall submit monthly report with details of Hazardous waste received, treatment given, stock lying and disposal of at landfill site.
7. The Authorized person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
8. The Authorization or its renewal shall be produced for inspection at the request of an officer Authorized by the State Pollution Control Board.
9. The person Authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorization.
10. Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
11. The person authorized shall implement Emergency Response Procedure (ERP) for which this authorization is being granted considering all site specific possible scenarios such as spillages,



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

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leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;

12. The person authorized shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty"
13. It is the duty of the authorized person to take prior permission of the State Pollution Control Board to close down the facility.
14. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
15. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
16. The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorisation.
17. The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
18. An application for the renewal of an authorisation shall be made as laid down under these Rules.
19. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
20. Annual return shall be filed by June 30th for the period ensuring 31st March of the year.

B. Specific Conditions:

1. In case of renewal of authorisation, a self-certified compliance report in respect of effluent, emission standards and the conditions specified in the authorization for hazardous and other wastes shall be submitted to SPCB.
2. The occupier of the facility shall comply Standard operating procedure/ guidelines published by MoEF&CC or CPCB or GPCB from time to time.
3. Unit shall comply provisions of E-Waste Management Rules-2016.
4. The disposal of Hazardous Waste shall be carried out as per the waste Management hierarchy.

6. GENERAL CONDITION:

- 6.1 Adequate plantation shall be carried out all along the periphery of the TSDF premises in such a way that the density of plantation is at least 1000 trees per acre of land and a green belt of 5meters width is developed.
- 6.2 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.
- 6.3 Applicant shall have to comply with Risk Assessment and Disaster management Plan.

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Outward No: 406975402154

- 6.4 Applicant shall have to carry out mock drill both on site and off site for all the possible eventualities at a regular interval of time. For any of the disastrous situation escape route shall have to be predefined properly marked and shall be brought to the knowledge of all the concerned.
- 6.5 Applicant shall have to comply with the Environmental Audit Scheme introduced by Hon'ble High Court and shall submit the Environment Audit Report every year in accordance with directions given in the High Court Order dated 16/09/1999 in Environmental Audit Scheme.
- 6.6 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)
- 6.7 You shall comply with the manufacturing, Storage and Import of Hazardous Chemicals Rules-1989 framed under the Environment (Protection) Act-1986.
- 6.8 The owner/facility operator is fully responsible for compliance of all the directions issued by the Apex Court and High court from time to time.
- 6.9 Full support shall be extended to the officers of MoEF, CPCB, GPCB and all other relevant authorities by the project proponents during their inspection for monitoring purposes by furnishing full details and action plans including the action taken reports in respect of initiative measures and other environmental protection activities.
- 6.10 GPCB reserves the right to stipulate additional condition if found necessary. The company shall implement these conditions in a time bound manner.

**FOR AND ON BEHALF OF
GUJARAT POLLUTION CONTROL BOARD**


(K.C.MISTRY)

**Dy. Chief Environment Scientist
Unit head, Hazardous waste cell**

Issued to:

No. GPCB/HAZ-CCA-Ank-1375(5)/ID-13376/
M/s Recycling Solution Pvt Ltd.
Plot no.-223, GIDC Estate, Panoli
Ankleshwar-394116
Dist-Ankleshwar

Date:

Outward No: 406973, 14/03/2017

Registration Certificate-cum-Pass Book for Re-refining/Recycling of Hazardous Wastes

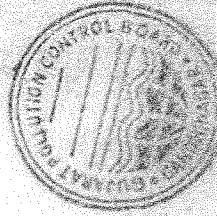
Name and Address : M/S. JAWARA WALA PETROLEUM
PLOT No 207/33 G/H KASHIRAM
TEXTILE MIL NAROL AHMEDABAD
 GPCB ID - 11849

Telephone / Fax No. : 9824065326
 E-mail Address : jawarapetro@yahoo.co.in
 Registration No. : GPCB/HW/RE-113/34/2012
 Date of Issue : 09/03/2012
 Validity Period : 09/03/2012 TO 08/03/2019

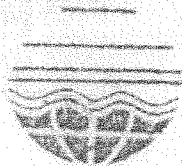
Type & quantity of the Hazardous Waste permitted for procurement and recycling :

S. No.	Hazardous Waste (Used)	Quantity (Liters Per Annum)
1.	USED OIL	4800 KLPA FOUR THOUSAND EIGHT HUNDRED
2.	WASTE	THOUSAND

Authorised Signatory &
Seal



(Signature)
 Senior Environment Engineer
 Unit Head-Hazardous Waste Cell,
 Gujarat Pollution Control Board,
 Paryavaran Bhavan, Sector-10-A,
 Gandhinagar, 382010



GPCB

GUJARAT POLLUTION CONTROL BOARD

SERIAL NO. 7172014

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar-382 021

Website : www.gpcb.gov.in

NOTARY

By R.P.A.D.

In exercise of the power conferred under section-25 of the Water (Prevention and Control of Pollution) Act-1974, under section-21 of the Air (Prevention and Control of Pollution)-1981 and Authorisation under rule 3(B) & 5(4) of the Hazardous Waste (Management, Handling) Rules-1989 & as amended up to year 2003 framed under the Environmental (Protection) Act-1986.

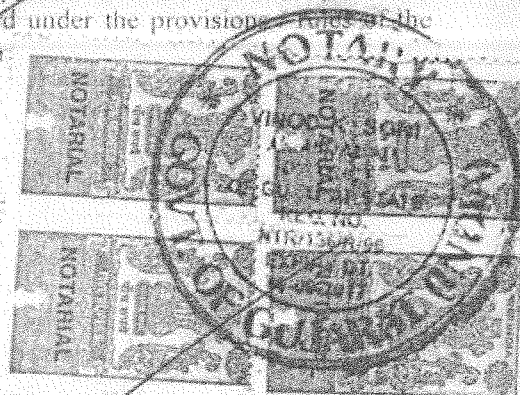
And whereas Board has received consolidated consent application letter 13/02/2014 for the Consolidated Consent and Authorization (CC & A) of this Board under the provisions of the aforesaid Acts. Consents & Authorization are hereby granted as under:

CONSENTS AND AUTHORISATION:

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

To;

M/S. JAWRAWALA PETROLEUM,
PLOT NO. 200/33,
B/H. KASHIRAM TEXTILE,
NAROL,
AHMEDABAD.



1. Consent Order No.: AWH-61464 date of Issue: 01/04/2014.
2. The consents shall be valid up to 12/02/2019 for use of outlet for the discharge of trade effluent & emission due to operation of industrial plant for manufacture of the following items/products:

Sr. No.	Product	Quantity
1.	Recycled waste Oil (industrial fuel)	600 KL/Month
2.	Decontamination, Detoxic, Recycling & Re-conditioning of all Type of MS Barrels, HDPE drums HDPE carboys & containers/Liners etc.	20000 Nos/Month
3.	Plastic (Scrap) Granules	100 MT/Month
4.	Re-Refined used oil	400 KL/Month

3. **CONDITIONS UNDER THE WATER ACT:**

- 3.1 The quantity of the industrial effluent to be generated from the manufacturing process and other ancillary industrial operations shall not exceed 12600 lit/day. Out of which 2000 lit/day treated effluent shall be reuse and 1600 lit/day treated effluent shall be evaporated in evaporator & 9000 lit/day treated effluent shall be incinerated in incinerator (i.e. zero discharge). Thus there shall be No discharge of any industrial effluent within or out side industrial unit.
- 3.2 The quantity of the domestic waste water (sewage) shall not exceed 1600 lit/day.

3.3 **TRADE EFFLUENT:**

- 3.3.1 Domestic effluent shall be disposed off through septic tank/soak pit system.

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GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN
Sector-10-A, Gandhinagar-382 021.
Website : www.gpcb.gov.in

CONDITIONS UNDER THE AIR ACT:

The following shall be used as fuel in boiler/furnace/heater respectively.

Sr.No.	Fuel	Quantity
1	Wood	100 KG/Day Per Furnace
2	LDO	15 Lit/Hour

4.2 The applicant shall install & operate air pollution control system in order to achieve norms prescribed below.

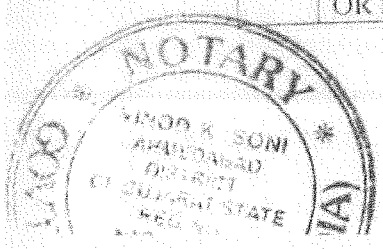
4.2.1 The flue gas emission through stack attached to boiler/furnace/heater shall conform to the following standard:

Stack No.	Stack attached to	Stack height in Meter	APCM	Parameter	Permissible Limit
1	Furnace (3Nos)	30 (Common stack)	Scrubber & Heat Quencher	Particulate matter SO ₂ NO _x	150 mg/NM ³ 100 ppm 50 ppm
2	Thermic Fluid Heater	11	---	---	---
3	Captive Incinerator	11	Scrubber	PM SO ₂ NO _x HCL CL ₂ HF CO TOC	50 mg/NM ³ 200 mg/NM ³ 400 mg/NM ³ 50 mg/NM ³ 09 mg/NM ³ 04 mg/NM ³ 100 mg/NM ³ 20 mg/NM ³

4.2.2 There shall be no process gas emission.

4.2.3 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 PM10 µg/ m ³	Annual 24 Hours	60 100
4.	Particulate Matter (Size less than 2.5 mm) OR PM 2.5 µg/ m ³	Annual 24 Hours	40 60

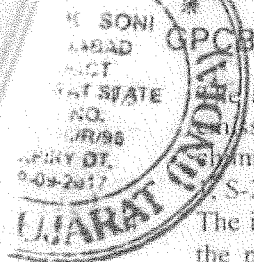


GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar-382 021.

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The applicant shall provide portholes, ladder, platform etc at chimney(s) for monitoring the air emissions and the same shall be open for inspection to and for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-1, S-2, etc. and these shall be painted/displayed to facilitate identification.

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.

4.5 The applicant shall provide proper ventilation and exhaust facilities so as to maintain healthy working atmosphere within the factory premises.

5 GENERAL CONDITIONS: -

5.1 Any change in personnel, equipment or working conditions as mentioned in the consents form/order should immediately be intimated to this Board.

6. AUTHORISATION FOR THE MANAGEMENT & HANDLING OF HAZARDOUS WASTES Form-2 (See rule 3(c) & 5 (5))

Form for grant of authorisation for occupier or operator handling hazardous waste

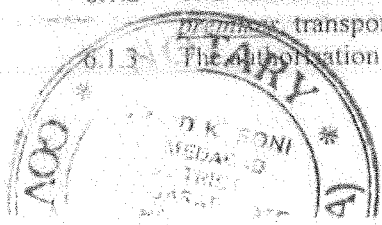
6.1 Number of authorisation: AHW-61464 date of issue: 01/04/2014.

6.1.1 M/s. JAWRAWALA PETROLEUM is hereby granted an authorisation to operate facility for following hazardous wastes on the premises situated at NO. 200/33, B/H. KASHIRAM TEXTILE, NAROL, AHMEDABAD.

Sr. No.	Waste	Quantity	Process Category	Facility
1.	ETP Waste	1.5 MT/Year	34.3	Collection, Storage, Transportation, Disposal at TSDF approved by the board.
2	Used Oil	400 KL/Month	5.1 (Reception)	Reception, Storage, Transportation, and Reprocessing within industrial unit.
3	Waste Oil	600 KL/Month	5.2 (Reception)	Reception, Storage, Transportation, and Reprocessing within industrial unit.
4	Discarded Container /Drums/Barrels/ Carboys/Containers /Liners	20000 Nos./Month	33.3 (Reception)	Collection, Storage, Decontamination, Transportation, Disposal by selling to authorized recycler
5	Oily Sludge	768 KL/Year	4.1	Collection, Storage, Disposal at CHWIF or Disposal in TSDF after self incineration approved by GPCB.
6	Spent clay Containing Oil	120 MT/Year	4.6	Collection, Storage, Disposal at CHWIF or Disposal in TSDF after self incineration approved by GPCB.
7	Filters & Filtering materials	840 KG/Year	35.1	Collection, Storage, Transportation, Disposal at TSDF approved by the board.
8	Incineration Ash	120 MT/Year	36.2	Collection, Storage, Transportation, Disposal at TSDF approved by the board.

6.1.2 The authorisation is granted to operate a facility for collection, storage, within the factory premises, transportation and ultimate disposal of Hazardous wastes as mentioned above.

6.1.3 The authorisation shall be in force for a period up to 12/02/2019.



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GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar-382 021.

Website : www.gpcb.gov.in

By R.P.A.D.

In exercise of the power conferred under section-25 of the Water (Prevention and Control of Pollution) Act-1974, under section-21 of the Air (Prevention and Control of Pollution)-1981 and Authorisation under rule 3(B) & 5(4) of the Hazardous Waste (Management, Handling & Transboundary Movement) Rules-2008 framed under the Environmental (Protection) Act-1986.

And whereas Board has received consolidated consent application letter dated 4/07/2014 for the Renewal of **Consolidated Consent and Authorization** (CC & A) of this Board under the provisions / rules of the aforesaid Acts. Consents & Authorization are hereby granted as under:

CONSENTS AND AUTHORISATION:

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

To;

M/S. UNITY PETROLIUM,
OPP. PWD STORE, CHANDOLA LAKE,
DANILIMDA
AHMEDABAD.

1. Consent Order No.:AWH-65534 date of Issue: 09/10/2014.
2. The consents shall be valid up to 03/07/2019 for use of outlet for the discharge of trade effluent & emission due to operation of industrial plant for manufacture of the following items/products:

Sr.No.	Product	Quantity
1.	Re-refining of used -lubricating oil	50 Kl/Month
2	Light cut Oil (by product)	05 Kl/Month

3. CONDITIONS UNDER THE WATER ACT:

- 3.1 The quantity of trade effluent from the factory shall be Nil.
- 3.2 The quantity of Sewage effluent from the factory shall not exceed 400 Lit/day.
- 3.3 Domestic effluent shall be disposed off through septic tank/soak pit system.
- 3.4 The directives issued by the Board from time to time in view of direction issued by the Honorable High of Gujarat in the matter of S.C.A.770/95 and any other shall have to be complies with.

4. CONDITIONS UNDER THE AIR ACT:

- 4.1 The following shall be used as fuel in furnace.

Sr.No.	Fuel	Quantity
1.	LDO/LOW Boils (lights cut oil)	18 KL/Month

- 4.2 The applicant shall install & operate air pollution control system in order to achieve norms prescribed below.



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar-382 021.

Website : www.gpcb.gov.in

- 4.2.1 The flue gas emission through stack attached to pit furnace shall conform to the following standards:

STACK NO	STACK ATTACHED TO	STACK HEIGHT IN METER	PARAMETER	PERMISSIBLE LIMIT
1	Thermic Fluid Heater	11	PARTICULATE MATTER	150 mg/Nm ³
2	Furnace (2 Nos)	11	SO ₂ NO _x	100 ppm 50 ppm

- 4.2.2 There shall be no process gas emission

- 4.2.3 Ambient air quality within and out side 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 mm) OR PM 2.5 µg/ m ³	Annual 24 Hours	40 60

- 4.3. The applicant shall provide portholes, ladder, platform etc at chimney(s) for monitoring the air emissions and the same shall be open for inspection to/and for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-1, S-2, etc. and these shall be painted/displayed to facilitate identification.
- 4.4. 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.
- 4.5. The applicant shall provide proper ventilation and exhaust facilities so as to maintain healthy working atmosphere within the factory premises.



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar-382 021.

Website : www.gpcb.gov.in

5 GENERAL CONDITIONS: -

5.1 Any change in personnel, equipment or working conditions as mentioned in the consents form/order should immediately be intimated to this Board.

6. AUTHORISATION FOR THE MANAGEMENT & HANDLING OF HAZARDOUS WASTES Form-2 (See rule 3 (c) & 5 (5))

Form for grant of authorisation for occupier or operator handling hazardous waste

6.1 Number of authorisation: AWH- 65534 date of Issue: 09/10/2014.

6.6.1 M/S. UNITY PETROLIUM,, is hereby granted an authorisation to operate facility for following hazardous wastes on the premises situated at : **OPP. PWD STORE, CHANDOLA LAKE, DANILIMDA, AHMEDABAD.**

Sr. No.	Waste	Quantity	Process Category	Facility
1	ETP sludge	360 Kg /Year	34.3	Collection, Storage, Transportation, Disposal at TSDF approved by the Board.
2.	Used Oil	720 Kl/ Year	5.1	Collection, Storage, and reused as lubricant
3.	Discarded Container/ Liners	250 Nos/Year	33.3	Collection, Storage, Decontamination, Transportation, Disposal by selling to authorised recycler
4	Distillation Residue	84 Kl/ Year	20.3	Collection, Storage, Transportation, Disposal at TSDF approved by the Board.
5	Iron sludge	20 MT/ Month.	26.2	Collection, Storage, Transportation, Disposal at TSDF approved by the Board.

6.1.2 The authorisation is granted to operate a facility for collection, storage, within the factory premises, transportation and ultimate disposal of Hazardous wastes at TSDF approved by the Board.

6.1.3 The authorisation shall be in force for a period up to **03/07/2019**.

6.1.4 The authorisation is subject to the conditions stated below and such other conditions as may be specified in the rules from time to time under the Environment (Protection) Act-1986.

6.1.5 TERMS AND CONDITIONS OF AUTHORISATION

- The applicant shall comply with the provisions of the Environment (Protection) Act - 1986 and the rules made there under.
- The authorisation shall be produced for inspection at the request of an officer authorized by the Gujarat Pollution Control Board.

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Sector-10-A, Gandhinagar-382 021.

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- c) The persons authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous wastes without obtaining prior permission of the Gujarat Pollution Control Board.
- d) Any unauthorized change in personnel, equipment or working conditions as mentioned in the authorisation order by the persons authorized shall constitute a breach of this authorisation.
- e) It is the duty of the authorised person to take prior permission of the Gujarat Pollution Control Board to close down the facility.
- f) An application for the renewal of an authorisation shall be made as laid down in rule 5 (6) (ii).
- g) Industry shall have to manage waste oil, discarded containers etc as per Amended Rules 2003.
- h) Industry shall submit annual report within 15 days and subsequently by 31st January every year.

For and on behalf of
Gujarat Pollution Control Board

(M.V. Patel)

Environmental Engineer

NO: GPCB/ABD-AMC-CCA-168/ID-14562/ 230055

✓ Issued to:

M/S. UNITY PETROLIUM,
OPP. PWD STORE, CHANDOLA LAKE,
DANILIMDA
AHMEDABAD.

05/11/2014

Copy to:

1. The Regional Officer, G.P.C.Board, Ahmedabad with a request to carry out monitoring sampling and inspection under the provisions of the Water Act 1974, Air Act, 1981
2. Unit-1

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GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector 10-A, Gandhinagar 382 010

Phone : (079) 23226295

Fax : (079) 23232156

Website : www.gpcb.gov.in

No.GPCB/HAZ-RF-104/ 228081

Date:

10 OCT 2014

To,
Unity Petroleum Co.,
Opp: PWD Store,
Nr. Chandola Lake, Danilimda,
Ahmedabad-382405

Sub: Renewal of registration Certificate cum Pass Book for Environmentally Sound
Re-refining /Recycling of Hazardous Wastes – reg.

- Ref:** 1) Intimation received from CPCB vide letter no B-9016/1(reg)/10/HWMD
5633-34 dated 22-11-2010
2) Minutes of 22nd Registration Committee meeting dated 22/08/2014.
3) Your application for renewal of registration cum passbook dated 28/05/14.

Sir,

With reference to your application for renewal in registration dated
28/05/2014, please find enclosed herewith the "Registration Certificate cum Pass
Book for Re-refining of Hazardous Wastes" as specified in respect of "Used Oil @
600 KLPA (Six Hundred KLPA Only)".

With Regards,

(V. R. Ghadge)
Senior Environment Engineer

Encl: Original Pass-Book no.Orange-42/2014.

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GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector 10-A, Gandhinagar 382 010

Phone : (079) 23226295

Fax : (079) 23232156

Website : www.gpcb.gov.in

CCA-Amendment

[No. AWH-83268]

NO: GPCB/CCA-SRT-1515/ID-41873/

Date:

TO,

M/s. J.S.Enterprise

Block No:- 12,45,13,14-A, & 14-B, Plot No: D Type 10 to 14,

Jal Dhumi Industrial Estate, Olpad Sayan Road,

Atodara:- 394130,

Tal:- Olpad, Dist:- Surat.

SUB: Amendment in the consolidated consent & Authorization of the Board.

REF: 1) CCA order No: - AWH-63089, Dated- 25/06/2014 under various Environmental Acts/Rules.

2) This office CTE-amendment order no:- GPCB/CCA-SRT-1515/ID-41873/371558. Dtd:- 30/09/2016.

3) Your CCA Amendment Application Inward ID No.113244 dated 24/10/2016.

In exercise of the power conferred under section-25 of the Water (Prevention and Control of Pollution) Act-1974, under section-21 of the Air (Prevention and Control of Pollution)-1981 and Authorization under rule 3(c) & 5(5) of the Hazardous Waste (Management, Handling and Trans boundary Movement) Rules-2008 & framed under the Environment (Protection) Act-1986, The Board has granted CCA vide order No. AWH-63089 issued vide this office letter no: GPCB/CCA-SRT-1515/ID-41873/219810 dated 24/07/2014, valid up to 03/04/2014.

The Board has right to review and amend the conditions of the said CCA order.

The said CCA order is further amended as below.

1. This order shall be read as CCA-Amendment Order No: **AWH-83268** date of issued **22/12/2016** valid up to **03/04/2019**.
2. The condition No-2 of the said CCA order is amended as below
2. The consents shall be valid up to **03/04/2019** for use of outlet for the discharge of trade effluent & emission due to operation of industrial plant for manufacture of the following items/products:

Sr. No.	Product	Quantity as per CCA dated:24/07/2014	Quantity as per CTE- Amendment dated:- 30/09/2016	Total quantity after CCA-Amendment
1	Decontamination of (HDPE/MS) Drums	HDPE @ 180 MT/Month (60,000 Nos/Month) or M/S @ 300 MT/Month (60,000 Nos/Month)	Nil	HDPE Drums@ 180 MT/Month (60,000 Nos/Month) or M.S Drums @ 300 MT/Month (60,000 Nos/Month)
2	Bags/Liners	3 MT/Month	Nil	3 MT/Month
3	Modified PET	Nil	100 MT/Month	100 MT/Month
4	Powder Coating Color	Nil	50 MT/Month	50 MT/Month

M/s. J.S.Enterprise(ID-41873)

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SUBJECT TO THE FOLLOWING CONDITIONS: -

1. Industry shall comply with stand operating procedure (SOP) for decontamination of drums, liner containers etc of Central Pollution Control Board & Gujarat Pollution Control Board.
 2. Industry shall not procure any Hazardous Waste attracts provision of Hazardous Waste Rules-2016 with prior approval of the Board.
 3. The rest of the subject to the conditions of the CCA order no:- AWH-63089 , Dated:- 25/06/2014 shall remain unchanged. You are directed to comply with these conditions judiciously.
3. The condition No-3 of the said CCA order is amended as below:
3. **CONDITIONS UNDER WATER ACT, 1974:**
- 3.1. Water Source: - Borewell.
 - 3.2. The quantity of the fresh water consumption for industrial purpose, after CCA-Amendment, shall be increased from 5.5 KL/Day to 12.5 KL/Day.
 - 3.3. The quantity of the water consumption for domestic purpose, after CCA-Amendment, shall be increased from 0.5 KL/Day to 1 KL/Day.
 - 3.4. The quantity of the industrial effluent to be generated from the manufacturing process and other ancillary industrial operations, after CCA-Amendment, shall be increased from 5 KL/Day to 5.5 KL/Day.
 - 3.5. The effluent shall be treated into ETP. Treated effluent shall be reused up to maximum extent and remaining shall be evaporated into the multiple effect evaporator. Condensate of evaporator shall be reused into plant maintain the Zero liquid discharge at all time.
 - 3.6. Industry shall provide fixed pipeline with flow meter at inlet to ETP & Evaporator and maintain its records.
 - 3.7. The quantity of the domestic waste water (Sewage), after CCA-Amendment, shall be increased from 0.4 KL/Day to 0.8 KL/Day.
 - 3.8. Domestic effluent shall be disposed off through septic tank/soak pit system.
4. Condition No-4 of the said CCA order is amended as below.

4. **CONDITIONS UNDER AIR ACT, 1981:**

- 4.1 The Following shall be used as fuel in Steam Boiler, Thermo Pack, and D.G.Sets respectively.

Sr. No.	Fuel	Quantity
1)	F.O. or LDO	100 lit/Day or 310 lit/day
2)	Agro Waste/Wood/Imported Coal	1 MT/Day
3)	Diesel	20 lit/hr

- 4.2. Applicant shall install & operate air pollution control system in order to achieve norms prescribed below:
- 4.3 The flue gas emission through stack attached to Steam Boiler, Thermo Pack, and D.G.Sets shall conform to the following standards:

Stack No.	Stack attached to	Stack height in Meter	Air Pollution Control system	Parameter	Permissible Limit
1	Steam-Boiler (0.5 TPH)	19 (Common Stack)	-----	Particulate Matter	150 mg/NM ³
	Thermopack (600 U)			SO ₂ NO _x	100 ppm 50 ppm
			Cyclone Separator	Particulate Matter	150 mg/NM ³
				SO ₂ NO _x	100 ppm 50 ppm

2	D.G.Set (70 KVA) Stand by	11	----	Particulate Matter SO ₂ NO _x	150 mg/NM ³ 100 ppm 50 ppm
---	---------------------------------	----	------	--	---

- 4.4 There shall be no process gas emission from the manufacturing process as well as any other ancillary process.
- 4.5 Industry shall take adequate measure to Control dusting due to storage, transportation & handling of Coal & fly ash.
- 4.6 Industry shall comply with Coal handling guideline of the Board.
- 4.7 Industry shall comply with fly ash notification.
- 4.5 Ambient air quality within the premises of the industry shall conform to the following standards.

PARAMETERS	PERMISSIBLE LIMIT (Microgram/M ³)	
	Annual	24 Hrs Average
Particulate Matter-10 (PM ₁₀)	60	100
Particulate Matter- 2.5 (PM _{2.5})	40	60
SO ₂	50	80
NO _x	40	80

- 4.6 The applicant shall provide portholes, ladder, platform etc at chimney(s) for monitoring the air emissions and the same shall be open for inspection for and for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-1, S-2, etc. and these shall be painted/displayed to facilitate identification.
- 4.7 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.

4.8 D.G. Sets Conditions

The D.G. Set shall have acoustic enclosure and shall comply with the standards specified at Sr. no. 95 of Schedule-I of the rule-3 of E.P. Rules -1986 and Noise pollution level as per the Air Act-1981.

D.G.Sets standards:-

The flue gas emission through stack attached to D.G.Sets shall conform to the following standards.

- The minimum height of stack to be provided with each of the generator set shall be $H = h + 0.2 (KVA)^{1/2}$, where H= Total stack height in meter, h= height of the building in meters where or by the side of which the generator set is installed.
- Noise from DG set shall be controlled by providing an acoustic enclosure or by treating the room acoustically, at the users end.
- The acoustic enclosure or acoustic treatment of the room shall be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on the higher side (if the actual ambient noise is on the higher side, it may not be possible to check the performance of the acoustic enclosure/ acoustic treatment. Under such circumstances the performance may be checked for noise reduction up to actual ambient noise level, preferably, in the night time). The measurement for insertion loss may be done at different points at 0.5 m from the acoustic enclosure/room, and the averaged.

- d) The D.G. Set shall be provided with proper exhaust muffler with insertion loss of minimum 25 dB (A).
- e) All efforts shall be made to bring down the noise level due to the D.G.Set, outside the premises, within the ambient noise requirements by proper siting and control measures.
- f) Installation of a D.G. Sets must be strictly in compliance with the recommendations of the D.G.Set manufacturer.
- g) A proper routine and preventive maintenance procedure for the D.G.Set should be set and followed in consultation with the DG Set manufacture which would help prevent noise levels of the DG Set from deteriorating with use

5. Condition No. 6.2 of the said CCA order is amended as below.

6.2 M/s. J.S.Enterprises hereby granted an authorization to operate facility for following hazardous wastes on the premises situated at Block No:- 12,45,13,14-A, & 14-B, Plot No: D Type 10 to 14, Jal Bhumi Industrial Estate, Olpad Sayan Road, Atodara:- 394130, Tal:- Olpad, Dist:- Surat.

Sr. No.	Waste	Quantity	Schedule-I/ Category	Facility
1	ETP Sludge	5 Kg/Month	35.3	Collection, Storage, Transportation and disposal at GPCB authorized TSDF Site.
2	Used Oil	50 Lit/month	5.1	Collection, storage, transportation and disposal by selling to Registered re-refiners.
3	Discarded Containers/ Barrels/Liners	180.3 MT/Month	33.1	Collection, storage transportation and disposal to authorized decontaminator
4	Scrap/paint waste	8 Kg/Month	33.1	Collection, storage transportation and disposal at Common incinerator
5	Liner/Bag	3.0 MT/Month	33.1	Collection, storage transportation and disposal to authorized decontaminator
6	Distillation residue	1.2 MT/Year	37.3	Collection, storage transportation and disposal at Common incinerator
7	Evaporation Salt	50 Lit/year	----	Collection, Storage, Transportation and disposal at GPCB authorized TSDF Site.

6. The rest of the conditions of the above referred CCA order shall remain unchanged. You are directed to comply with these conditions judiciously.

For and on behalf of
Gujarat Pollution Control Board

(Smt. U. K. Upadhyay)
Environmental Engineer

M/S. J.S.Enterprise(1D-41873)

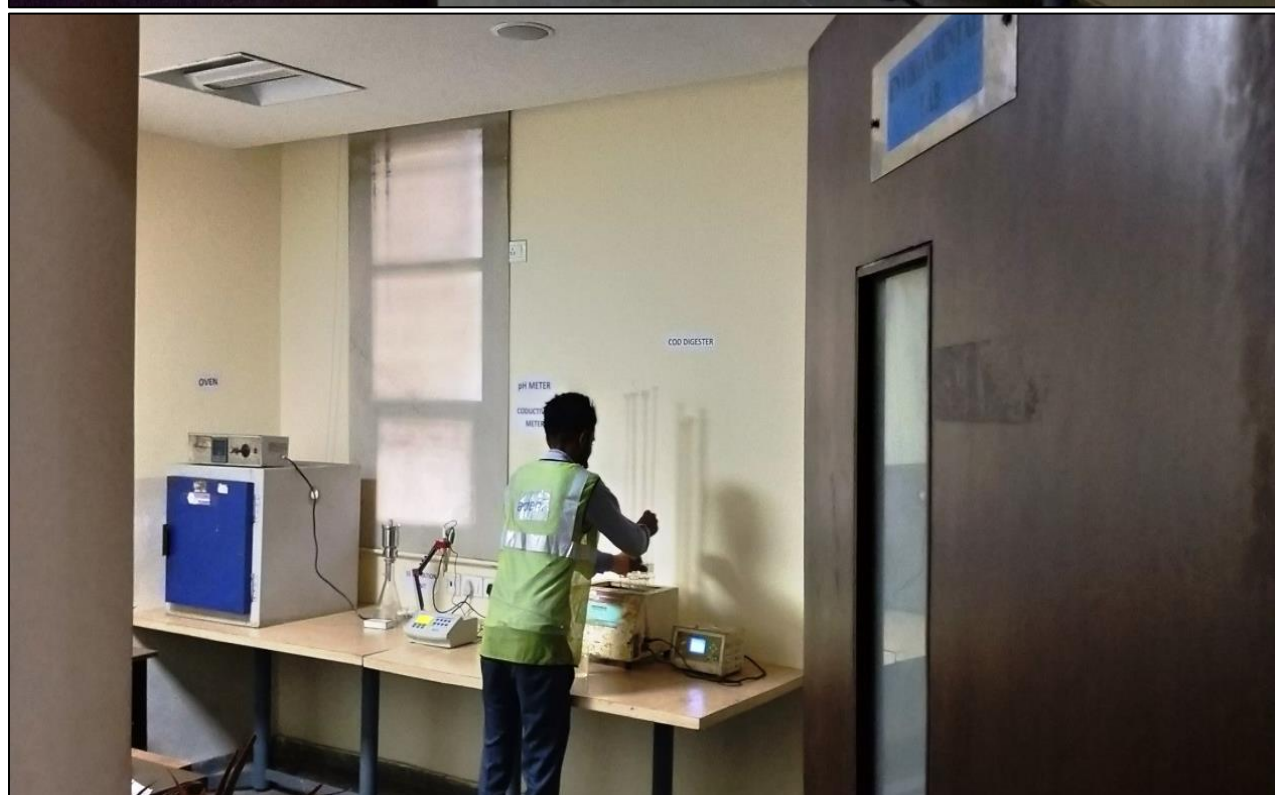
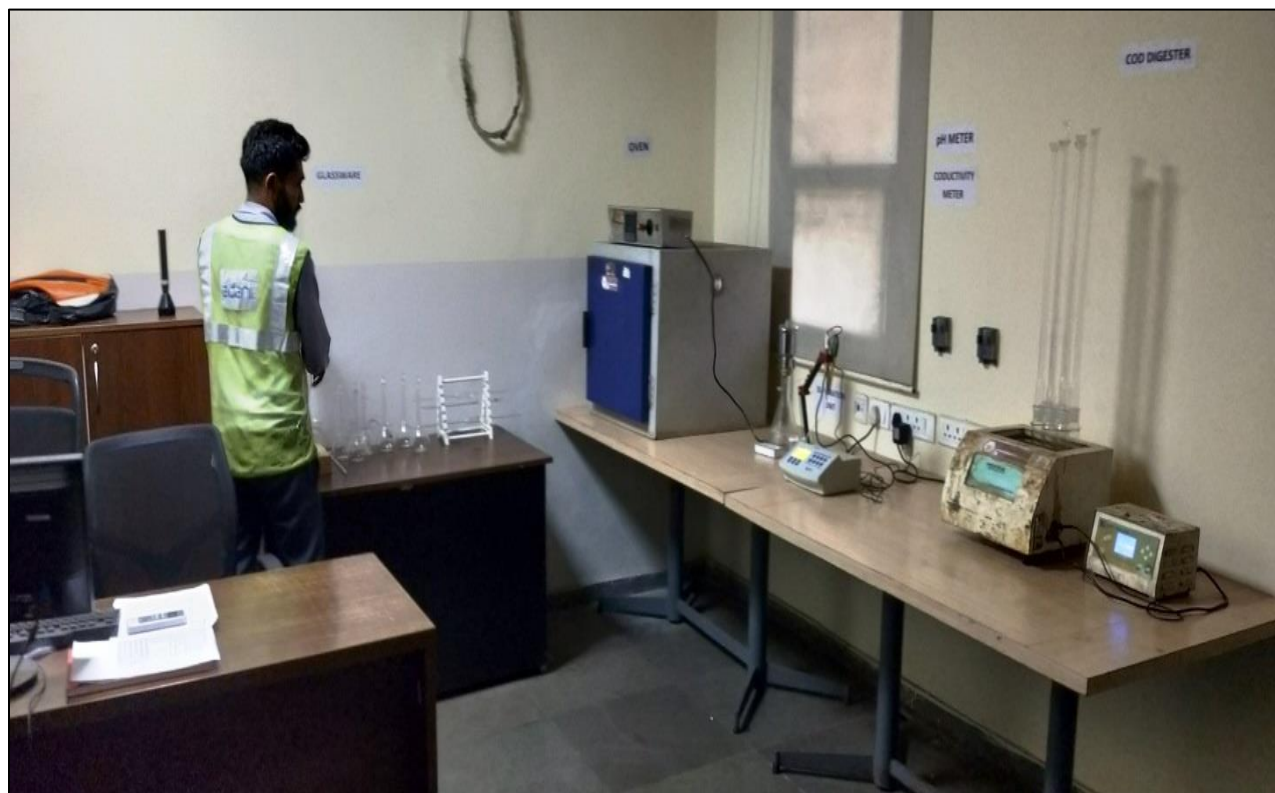


Adani Hazira Port Private Limited

**From : Apr., 2018
To : Sept., 2018**

ANNEXURE-10:

Photographs of Environmental Lab, Storm Water Drain and Bund Wall at Rock Phosphate yard





Bund Wall in Rock Phosphate Yard to contain the run-off



Storm Water Drain near the Rock Phosphate Yard