

16th May, 2019

To,
Additional Principal Chief Conservator of Forests
Western Regional Office,
Ministry of Environment, Forest & Climate Change
E-5, Arera colony, Link Road-3,
Ravishankar Nagar, Bhopal-462016 (M.P.)
E-mail: rowz.bpl-mef@nic.in

Sub : Half yearly Compliance report of Environment and CRZ clearance for the project namely
"Construction of berthing & allied facilities off Tekra near Tuna, Gujarat"

Ref : 1) Environment and CRZ clearance issued to M/s Kandla Port Trust (KPT) vide letter no. 10-10/2008-IA-III dated 1st November, 2011 and transferred to M/s Adani Kandla bulk Terminal Private Limited (AKBTPL) vide letter no. 10-10/2008-IA-III dated 10th November, 2014
2) CRZ Recommendation for creation of Berthing and Allied Facilities off Tekra near Tuna issued by Forest and Environment, Govt. of Gujarat vide letter bearing no. ENV-10-2009-1543-E dated 23rd June, 2010.

Dear Sir,

Please find enclosed herewith point wise compliance reports of conditions stipulated in the above referred letters for the compliance period from **October, 2018 to March, 2019**.

Thank you,
Yours Faithfully,

For **M/s Adani Kandla Bulk Terminal Pvt. Ltd.**



Hiren Shah
Authorized Signatory

Copy to:

1. The Director (Monitoring –IA Division), Ministry of Environment, Forests & Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi-110003
2. The Director, Forests & Environment Department, Block - 14, 8th floor, Sachivalaya, Gandhi Nagar, Gujarat - 382 010
3. The Zonal Officer, Central Pollution Control Board, Zonal Office Vadodra, Parivesh Bhawan, Opposite VMC Ward office No. 10, Subhanpura, Vadodra-390023
4. The Chairman, Gujarat Pollution Control Board, Parvayaran Bhawan, Sector 10A, Gandhinagar-382010(Guj.)
5. The Regional Officer, Regional Office, GPCB - Kutch East, Room No.215-216, KPT administrative Building, Gandhidham, 370201
6. The Chief Engineer, Administrative Building, Kandla Port Trust, Gandhidham 370201

Environmental and CRZ Clearance Compliance Report

Of



Construction of berthing & allied
facilities off Tekra near Tuna, Gujarat

Of

Adani Kandla Bulk Terminal Pvt. Ltd.

For Period:

October – 2018 to March– 2019



Adani Kandla Bulk Terminal Pvt. Ltd.

From : October 2018
To : March 2019

Environmental and CRZ Clearance Letter issued by MoEF&CC



Adani Kandla Bulk Terminal Pvt. Ltd.

From : October 2018
To : March 2019

Compliance to Environmental and CRZ Clearance Letter issued by MoEF&CC

Environmental and CRZ clearance was obtained by KPT vide MoEF&CC letter dated 01.11.2011. AKBTPL and KPT entered in to concession agreement for development of the dry bulk terminal at Tuna on BOOT basis. Said clearance was then transferred to AKBTPL vide MoEF&CC letter dated 10.11.2014

Half yearly Compliance report of Environment and CRZ Clearance issued by MoEF dated 1st November, 2011 bearing F. No. 10-10/2008-IA-III for Construction of berthing & allied facilities off Tekra near Tuna, Gujarat

Sr. No	Condition	Compliance status															
5.	Specific Condition																
(i)	"Consent for Establishment" shall be obtained from State Pollution Control Board under Air and Water Act and a copy shall be submitted to the Ministry before start of any construction work at site.	<p>Complied.</p> <ul style="list-style-type: none">Consent to establishment (CtE) and Consent to Operate (CtO) is Obtained and renewed/amended from time to time as per the progress of the project activity. Construction activities are completed and the project is now in operation phase. The present in-force CtO are mentioned below <table><tr><th>Sr. No</th><th>Permission</th><th>Project</th><th>Ref.No./Order No.</th><th>Validity</th></tr><tr><td>1</td><td>CtO Obtained by AKBTPPL</td><td>AKBTPL</td><td>AWH-68051</td><td>02.12.2019</td></tr><tr><td>2</td><td>Correction in CtO</td><td>AKBTPL</td><td>PC/CCA-Kutch-1269/GPCB ID-46110/303738</td><td>02.12.2019</td></tr></table> <ul style="list-style-type: none">Copies of the stated permissions are already submitted as a part of half yearly compliance report (Oct-14 to March-15) and (Oct'17 to Mar'18) to MoEF & CC vide letter dated 11.05.2015 and 16.05.2018.	Sr. No	Permission	Project	Ref.No./Order No.	Validity	1	CtO Obtained by AKBTPPL	AKBTPL	AWH-68051	02.12.2019	2	Correction in CtO	AKBTPL	PC/CCA-Kutch-1269/GPCB ID-46110/303738	02.12.2019
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(ii)	Scientific studies shall be carried out by some expert and reputed organization like BNHS focusing among other things the marine environment in general and preservation of mangroves in particular against any possible adverse impact due to creation of the proposed facilities.	<p>Complied.</p> <ul style="list-style-type: none">M/s. Gujarat Institute of Desert Ecology, Bhuj has conducted scientific studies for preservation and management of mangroves in May 2012. Details related to the same are already submitted as part of half yearly compliance report (Oct-14 to March-15) to MoEF & CC vide letter dated 11.05.2015 and there is no further change.Further, a study to ascertain tidal flushing in mangroves around the project area of the dry bulk terminal at Tuna was carried through M/s. GUIDE, Bhuj in April, 2014 when construction activities were ongoing. Details related to the same were already submitted as part of half yearly compliance report (Oct-2016 to March-2017).															

Half yearly Compliance report of Environment and CRZ Clearance issued by MoEF dated 1st November, 2011 bearing F. No. 10-10/2008-IA-III for Construction of berthing & allied facilities off Tekra near Tuna, Gujarat

Sr. No	Condition	Compliance status
		<ul style="list-style-type: none"> Further, in order to understand the impacts of the existing project activity on marine ecology, a study was carried out through M/s. GUIDE. Details related to the same were already submitted as part of half yearly compliance report (Oct-2016 to March-2017). It may be noted that GUIDE is one of the authorized agencies of Forest & Environment dept. Govt. of Gujarat.
(iii)	Proponent shall explore the possibilities of plantation of mangrove in the entire mud flat areas and submit the action plan to the Ministry prior to the commencement of the activity.	<p>Complied.</p> <ul style="list-style-type: none"> Based on the scientific studies for preservation and management of mangroves in May 2012 carried out by M/s. GUIDE it was suggested to KPT to carry out mangrove plantation in 500 ha. area. As agreed, AKBTPPL has already completed Mangrove plantation in 250 ha area at Sat Saida bet. Balance 250 ha. Mangrove plantation shall be carried out by KPT. Monitoring report prepared by M/s. GUIDE for mangrove plantation in 250 ha carried out at Sat Saida bet is submitted as part of half yearly compliance report (Oct-14 to March-15) to MoEF & CC vide letter dated 11.05.2015.
(iv)	The dredged material shall be reused for low level rising whenever possible and excess shall be dumped into sea at the designated dumping areas identified based on mathematical model studies.	<p>Complied.</p> <ul style="list-style-type: none"> As per the study carried by IIT-Chennai the dredge material is not suitable for reclamation/low level rising. Capital dredging was completed by KPT during the construction phase and the dredge material was disposed by KPT at a location identified by M/s. CWPRS, Pune in their study report. Project is now in operation phase and no dredging activity is carried out during the period October'18 to March'19.

Half yearly Compliance report of Environment and CRZ Clearance issued by MoEF dated 1st November, 2011 bearing F. No. 10-10/2008-IA-III for Construction of berthing & allied facilities off Tekra near Tuna, Gujarat

Sr. No	Condition	Compliance status
(v)	Though the project proponent has carried out EIA for individual components and it were examined by the committee before the issue of clearance, it is suggested that proponent shall update and submit a comprehensive EMP for the whole project and submit to the Ministry and Regional Office of the Ministry at Bhopal prior to commencement of the activity.	Complied. <ul style="list-style-type: none"> EMP was updated by AKBTPL and submitted to KPT. KPT has submitted the same vide letter dated 03.12.2013 to MoEF&CC as part of compliance report. Further, said EMP was also submitted by AKBTPL as part of half yearly compliance report (Oct-14 to March-15) to MoEF & CC vide letter dated 11.05.2015 and there is no further change.
(vi)	The project proponent shall set up environmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive.	Complied. <ul style="list-style-type: none"> AKBTPL has environment management cell with qualified manpower for implementation of environmental safeguards and management. The site environment team directly reports to the site CEO. Further, the site environment cell continuously remains in loop with Corporate Environment Cell. Please refer Annexure - 1 for further details.
(vii)	The funds earmarked for environmental management plan shall be included in the budget and this shall not be diverted for any other purpose.	Complied. <ul style="list-style-type: none"> Environmental Management Plan is in place and the funds earmarked (budgeted separately for the each financial year) are being utilized for effective implementation of environmental safeguards and environment monitoring. All the expenses related to environment management plan are recorded in advanced accounting system of the organization. Expenditure on environmental safeguards is approx. INR 174.27 Lakh for FY 2018-19. Please refer Annexure - 2 for further details.

Half yearly Compliance report of Environment and CRZ Clearance issued by MoEF dated 1st November, 2011 bearing F. No. 10-10/2008-IA-III for Construction of berthing & allied facilities off Tekra near Tuna, Gujarat

Sr. No	Condition	Compliance status
6	General Condition	
(i)	Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality.	Complied. <ul style="list-style-type: none"> Construction activities of the project are completed in March, 2015. The project is now in operation phase and no digging activities are carried out during October'18 to March'19.
(ii)	Full support shall be extended to the officers of this Ministry/Regional Office at Bhopal by the project proponent during inspection of the project for monitoring purposes by furnishing full details and action plan including action taken reports in respect of mitigation measures and other environmental protection activities.	Complied. <ul style="list-style-type: none"> AKBTPL is always extending full support to the regulatory authorities during their visit to the project site. Details related to the last visit of Scientist 'D', MoEF&CC, from Regional Office, Bhopal, were submitted as part of half yearly compliance report (Oct-2016 to March-2017).
(iii)	A six monthly monitoring report shall need to be submitted by the project proponent to the Regional Office of this Ministry at Bhopal regarding the implementation of the stipulated conditions.	Complied. <ul style="list-style-type: none"> Six monthly compliance reports regarding the implementation of the stipulated conditions are regularly submitted to Regional Office of MoEF &CC, Bhopal and other concerned authorities. Last compliance report for Apr'18 to Sep'18 period was submitted by AKBTPL vide letter dated 25.11.2018 to the all concerned authorities.
(iv)	Ministry of Environment & Forests or any other competent authority may stipulate any additional conditions or modify the existing ones, if necessary in the interest of environment and the same shall be complied with.	Point Noted. <ul style="list-style-type: none"> All applicable conditions in the interest of environment will be complied.
(v)	The Ministry reserves the right to revoke this clearance if any of the conditions stipulated are not complied with the satisfaction of the Ministry.	Point Noted. <ul style="list-style-type: none"> During the last compliance verification visit as mentioned in the sr. no ii of General Conditions above, there was no non-compliance observed.

Half yearly Compliance report of Environment and CRZ Clearance issued by MoEF dated 1st November, 2011 bearing F. No. 10-10/2008-IA-III for Construction of berthing & allied facilities off Tekra near Tuna, Gujarat

Sr. No	Condition	Compliance status
(vi)	In the event of a change in the project profile or change in the implementation agency, a fresh reference shall be made to the Ministry of Environment and Forests.	Complied. <ul style="list-style-type: none"> Details related to transfer of EC/CRZ clearance in the name of AKBTPL are submitted as part of half yearly compliance report (Oct-14 to March-15) to MoEF & CC vide letter dated 11.05.2015. Please refer point no. I of specific conditions for further details.
(vii)	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and date of start of land development work.	Complied. <ul style="list-style-type: none"> KPT has informed about the Financial closure vide their letter no. EG/WK /4604(EC)/562 dated 26th December, 2012. There is no further change.
(viii)	A copy of the clearance letter shall be marked to concern Panchayat /local NGO, if any, from whom any suggestion /representation have been made, received while processing the proposal.	<ul style="list-style-type: none"> Condition is not applicable to AKBTPL.
(ix)	State Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industries Centre and Collector's Office/ Tehsildar's office for 30 days.	<ul style="list-style-type: none"> Condition is not applicable to AKBTPL.
7	These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 1994 including the amendments and rules made thereafter.	Complied. <ul style="list-style-type: none"> Permissions under the applicable rules and acts mentioned are already obtained. Please refer point no. I of specific conditions for further details.
8	All other statutory clearances such as the approvals for the storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980, Wildlife	Not Applicable. <ul style="list-style-type: none"> The permissions from the authorities mentioned in the condition are not applicable to this project.

Half yearly Compliance report of Environment and CRZ Clearance issued by MoEF dated 1st November, 2011 bearing F. No. 10-10/2008-IA-III for Construction of berthing & allied facilities off Tekra near Tuna, Gujarat

Sr. No	Condition	Compliance status
	(Protection) Act, 1972 etc shall be obtained as applicable by the project proponents from the respective competent authorities.	
9	<p>The project proponent shall advertise in at least two local newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Env. Clearance and copies of clearances letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment and Forests at http://www.envfor.nic.in.</p> <p>The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to RO of this Ministry at Bhopal.</p>	<p>Complied.</p> <ul style="list-style-type: none"> KPT has published advertisement regarding accordance of the Environmental and CRZ clearance within 10 days from the date of receipt of the Clearance letter in two local newspapers (Aaj Kal and Divya Bhaskar) and copy of the same is submitted to the Regional office, MoEF&CC Bhopal by KPT vide letter no. EG/WK/4604(EC)/1036 dated 25th November, 2011.
10	Environmental Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No. 460 of 2004 as may be applicable to this project.	<ul style="list-style-type: none"> Noted and same will be complied based on further directions given by concerned authorities in this regard.
11	Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.	<p>Complied.</p> <ul style="list-style-type: none"> The documents are being uploaded regularly on our website: http://www.adaniports.com/ports-downloads
12	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the Local NGO, if any from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also	<p>Complied.</p> <ul style="list-style-type: none"> Clearance letter is uploaded on our website: http://www.adaniports.com/ports-downloads



Adani Kandla Bulk Terminal Pvt. Ltd.

From : October 2018
To : March 2019

Half yearly Compliance report of Environment and CRZ Clearance issued by MoEF dated 1st November, 2011 bearing F. No. 10-10/2008-IA-III for Construction of berthing & allied facilities off Tekra near Tuna, Gujarat

Sr. No	Condition	Compliance status
	be put on the website of the company by the proponent.	
13	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	Complied. <ul style="list-style-type: none">Compliance report for period (Apr'18 to Sep'18) was submitted to respective authorities mentioned in the condition vide our letter dated 25.11.2018. The said report is also uploaded on our website: http://www.adaniports.com/ports-downloads.
14	The environmental statement for each financial year ending 31 st March in Form -V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environmental (Protection) Rules, 1986 as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	Complied. <ul style="list-style-type: none">Environment Statement for FY 2018 – 19 has already been submitted to GPCB vide letter No. AKBTPPL /ENVSTATEMENT /2018-19 dated 07.05.2019. Copy of the same is attached as Annexure – 3. The said Environment Statement is also uploaded on our website: http://www.adaniports.com/ports-downloads.



Adani Kandla Bulk Terminal Pvt. Ltd.

From : October 2018
To : March 2019

Compliance to CRZ Recommendation Letter

**Issued by Forest and Environment
Department, Govt. of Gujarat**

Half yearly Compliance report of CRZ Recommendation for creation of Berthing and Allied Facilities off Tekra near Tuna issued by Forest and Environment, Govt. of Gujarat vide letter bearing no. ENV-10-2009-1543-E dated 23rd June, 2010

Sr. No	Condition	Compliance
1	The provisions of the CRZ notification of 1991 and subsequent amendments issued from time to time shall be strictly adhered to by the KPT. No activity in contradiction to the provisions of the CRZ Notification shall be carried out by the KPT.	Complied. <ul style="list-style-type: none"> All activities are in line with the CRZ Notification 1991 and its subsequent amendment.
2	No dredging reclamation or any other project related activities shall be carried out in the CRZ area categorized as CRZ I (i) and it shall have to be ensured that the mangroves habitats and other ecologically important and significant areas, if any, in the region are not affected due to any of the project activities.	Complied. <ul style="list-style-type: none"> Construction of the project is completed in March, 2015. All construction activities were carried out as per the environmental and CRZ clearance granted vide MoEF&CC letter dated 01.11.2011. All necessary precautions such as allowing free flow of water in the mangrove areas, waste management as per the applicable laws, treatment of sewage, dust suppression measures etc. are taken to ensure that the mangroves habitats and other ecologically important and significant areas in the region are not affected due to any of the project activities.
3	The KPT shall participate financially for installing and operating the Vessel Traffic Management System in the Gulf of Kutch and shall also take lead in preparing and operational sing the Regional Oil Spill Contingency plan in the Gulf of Kutch.	Complied. <ul style="list-style-type: none"> M/s Kandla Port Trust contributed an amount of INR 41.25 Cr for installing and operating VTMS in Gulf of Kutch. Information is submitted to MoEF&CC New Delhi (as part of half yearly compliance report (Apr – Sept, 2014) vide letter dated 13th November, 2014. Please refer condition No.15 regarding Oil spill contingency plan. There is no further change.
4	The KPT shall strictly ensure that no creeks or rivers are blocked due to any activity at Kandla.	Complied. <ul style="list-style-type: none"> No rivers are present at the project site. 3 Bridges and 8 culverts have been provided with total cost of 2.01 crores to allow free flow of water

Half yearly Compliance report of CRZ Recommendation for creation of Berthing and Allied Facilities off Tekra near Tuna issued by Forest and Environment, Govt. of Gujarat vide letter bearing no. ENV-10-2009-1543-E dated 23rd June, 2010

Sr. No	Condition	Compliance
		<p>through creeks.</p> <ul style="list-style-type: none"> Further, a study to ascertain tidal flushing in mangroves around the project area of the dry bulk terminal at Tuna was carried through M/s. GUIDE, Bhuj in April, 2014 when construction activities were ongoing. As outcome of that study is all water parameters are well within prescribe limit and no gross contamination could be discerned showing that the costal water in and around the jetty is clean and unpolluted. Also observed spatial variations in zooplankton density, composition were normal and no events negatively influencing the zooplankton community was noticed during the study. Details related to the same are already submitted as part of half yearly compliance report (Oct-2016 to March-2017). The conditions as mentioned in the report are maintained.
5	Mangrove plantation in an area of 1000 ha. Shall be carried out by the KPT within 5 years in a time bound manner on Gujarat coastline either within or outside the Kandla Port Trust area and six monthly compliance reports along with the satellite images shall be submitted to Ministry of Environment and Forests as well as to this department without fail.	<p>Complied.</p> <ul style="list-style-type: none"> AKBTPL being BOOT operator, KPT requested AKBTPL to carry out mangrove plantation in 250 ha area. As agreed, AKBTPL has completed Mangrove plantation in 250 ha area at Sat Saida bet. For further information regarding mangrove plantation activity, please refer reply to specific condition no ii and iii of the Environmental and CRZ clearance letter above.
6	No activities other than those permitted by the competent authority under the CRZ Notification shall be carried out.	<p>Complied.</p> <ul style="list-style-type: none"> All activities are being carried out as per the Environmental and CRZ clearance granted vide MoEF&CC

Half yearly Compliance report of CRZ Recommendation for creation of Berthing and Allied Facilities off Tekra near Tuna issued by Forest and Environment, Govt. of Gujarat vide letter bearing no. ENV-10-2009-1543-E dated 23rd June, 2010

Sr. No	Condition	Compliance
		letter dated 01.11.2011, amended till date.
7	No ground water shall be tapped for any purpose during the proposed expansion/modernization activities.	Complied. <ul style="list-style-type: none"> AKBTPL does not draw any ground water for the water requirement. Present source of water for various project activities is Narmada water through Gujarat water infrastructure Limited (GWIL). Present water consumption is 460.64 KLD.
8	All necessary permission from different Government Departments/ agencies shall be obtained by the KPT before commencing the expansion activities.	Not applicable at present <ul style="list-style-type: none"> All construction activities are completed in March, 2015. No expansion activities are carried out. All necessary permissions will be obtained in future before commencing the expansion activities. However, an application for carrying out additional capital dredging in the existing approach channel, berth pockets and turning circles (in order to handle capsized vessels, not to expand the approved project activity) to obtain Environment and CRZ clearance is in process with the MoEF&CC. the said activity will be carried out only after obtaining the requisite permissions.
9	No effluent or sewage shall be discharged into the sea/creek or in the CRZ area and it shall be treated to conform to the norms prescribed by the Gujarat Pollution Control Board and would be reused/recycled within the plant premises.	Complied. <ul style="list-style-type: none"> No effluent is generated at the project site. Approx.10-12KLD of sewage generated is treated in 25 KLD capacities STP based on FAB technology and treated water is used for horticulture purpose within plant premise. Third party analysis of the treated water is being carried out once in a month by NABL and MoEF&CC accredited agency namely M/s. Pollucon Laboratories Pvt. Ltd.

Half yearly Compliance report of CRZ Recommendation for creation of Berthing and Allied Facilities off Tekra near Tuna issued by Forest and Environment, Govt. of Gujarat vide letter bearing no. ENV-10-2009-1543-E dated 23rd June, 2010

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		<p>Summary of the same for duration from Oct-18 to Mar-19 is mentioned below.</p> <table><tr><th>Parameter</th><th>Unit</th><th>Max</th><th>Min</th><th>Perm. Limit^s</th></tr><tr><td>TSS</td><td>mg/L</td><td>24</td><td>17</td><td>30</td></tr><tr><td>Residual Chlorine</td><td>PPM</td><td>0.6</td><td>0.2</td><td>0.2-0.5</td></tr><tr><td>BOD (3 Days @ 27 °C)</td><td>mg/L</td><td>18</td><td>10</td><td>20</td></tr><tr><td>Fecal Coliform</td><td>MPN/100 ml</td><td>540</td><td>94</td><td><1000</td></tr></table> <p>as per CC&A granted by GPCB BDL – Below Detection Limit</p> <ul style="list-style-type: none">Please refer Annexure – 4 for detailed analysis reports. Total expenditures of the Environment monitoring for the period (Oct'18 to Mar'19) are INR 4.23 lakh.	Parameter	Unit	Max	Min	Perm. Limit ^s	TSS	mg/L	24	17	30	Residual Chlorine	PPM	0.6	0.2	0.2-0.5	BOD (3 Days @ 27 °C)	mg/L	18	10	20	Fecal Coliform	MPN/100 ml	540	94	<1000
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BOD (3 Days @ 27 °C)	mg/L	18	10	20																							
Fecal Coliform	MPN/100 ml	540	94	<1000																							
10	All the recommendations and suggestions given by the NIOT in their Comprehensive Environment Impact Assessment report for conservation /protection and betterment of environment shall be implemented strictly by the KPT.	<p>Complied.</p> <ul style="list-style-type: none">The EMP prepared by NIOT in the EIA report was updated by AKBTPL (based on the condition mentioned in the EC and CRZ clearance) and submitted to KPT. KPT has submitted the same vide letter dated 03.12.2013 to MoEF&CC as part of compliance report. All the measures mentioned in the updated EMP prepared by AKBTPL are implemented for environment protection.																									
11	The construction and operation activities shall be carried out in such a way that there is no negative impact on mangroves and other coastal/marine habitats. The construction activities and dredging shall be carried out only under the constant supervision and guidelines of the NIOT.	<p>Complied.</p> <ul style="list-style-type: none">All construction and operation activities are carried out meticulously to ensure that there is no negative impact on mangroves and other coastal / marine habitats. Please refer to Sr. no. ii and iii of the specific conditions of the EC and CRZ clearance above for further details.Construction activities have been																									

Half yearly Compliance report of CRZ Recommendation for creation of Berthing and Allied Facilities off Tekra near Tuna issued by Forest and Environment, Govt. of Gujarat vide letter bearing no. ENV-10-2009-1543-E dated 23rd June, 2010

Sr. No	Condition	Compliance
		<p>completed in March, 2015 based on the NIOT recommendations. During construction phase capital dredging was carried out by KPT and the dredge material was disposed at a location identified by M/s. CWPRS, Pune in their study report.</p> <ul style="list-style-type: none"> No maintenance dredging activity is carried out from Oct-18 to Mar-19.
12	The KPT shall contribute financially for any common study or project that may be proposed by this Department for environmental management/ conservation / improvement for the Gulf of Kutch.	<ul style="list-style-type: none"> Noted and same will be complied on receipt of such recommendations from concerned authorities
13	The construction debris and/or any other type of waste shall not be disposed-off into the sea, creek or in the CRZ areas. The debris shall be removed from the construction site immediately after construction is over.	<p>Complied.</p> <ul style="list-style-type: none"> Construction of the project is completed in March, 2015. All construction debris and other solid wastes are removed from the construction sites.
14	The construction camps shall be located outside the CRZ area and the construction labour shall be provided with the necessary amenities, including sanitation, water supply and fuel and it shall be ensured that the environmental conditions are not deteriorated by the construction labours.	<p>Complied.</p> <ul style="list-style-type: none"> Construction of the project is completed in March, 2015 and during construction of the project we have provided necessary amenities like sanitation, water supply and fuel to the construction labours. Also we have ensured that environmental conditions are not deteriorated by the construction labours during the construction activities.
15	The KPT shall regularly update its Local Oil Spill Contingency and Disaster Management Plan in consonance with the National Oil Spill and Disaster Contingency Plan and shall submit the same to the MoEF, GOI and this Department after having it vetted through the Indian Coast Guard.	<p>Complied.</p> <ul style="list-style-type: none"> KPT is already having updated Disaster Management Plan as well as Oil Spill Contingency Plan. KPT has also executed MoU with oil companies i.e. IOCL, HPCL, BPCL etc. for setting up of their Tier I facility for combating Oil Spill at Kandla.

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Sr. No	Condition	Compliance
		<ul style="list-style-type: none"> Necessary action will be taken by AKBTPPL in consultation with KPT to combat with emergency situations.
16	The KPT shall bear the cost of the external agency that may be appointed by this Department for supervision/monitoring of proposed activities and the environmental impacts of proposed activities.	<ul style="list-style-type: none"> Noted and same will be complied on receipt of such recommendations from concerned authorities
17	The KPT shall take up massive greenbelt development activities in and around Kandla and also within the KPT limits.	<p>Complied.</p> <ul style="list-style-type: none"> Plantation activity is an on-going process. As part of the same, greenbelt within and along the periphery of the back-up area is being developed on regular basis. Approx. 14.11 hectare area is developed as greenbelt so far with various types of trees, plants and lawn. Please refer Annexure-5 for further details regarding greenbelt development. Total expenditures of the horticulture dept. for the period (Oct'18 to Mar'19) are INR 14.20 lakh.
18	The KPT shall have to contribute financially for taking up the socio-economic upliftment activities in this region in consultation with the Forest and Environment Department and the District Collector/District Development Officer.	<p>Complied.</p> <ul style="list-style-type: none"> Adani Foundation is the CSR wing of Adani group. All CSR activities are planned out at Tuna by Adani Foundation. AF works in the following four main areas: <ul style="list-style-type: none"> 1 Education 2 Community Health 3 Sustainable livelihood 4 Rural Infrastructure Development Various activities related to above mentioned areas are being carried out on regular basis for socio-economic upliftment of surrounding villages by Adani Foundation. Details of the activities carried out are shared with

Half yearly Compliance report of CRZ Recommendation for creation of Berthing and Allied Facilities off Tekra near Tuna issued by Forest and Environment, Govt. of Gujarat vide letter bearing no. ENV-10-2009-1543-E dated 23rd June, 2010

Sr. No	Condition	Compliance
		FOKIA (Federation of Kutch Industries Association) chaired by District Collector quarterly. Total expenditures of the CSR activities are INR 25.46 lakh for the period Oct'18 to Mar'19. Please refer Annexure – 6 for details.
19	A separate budget shall be earmarked for environmental management and socio-economic activities and details thereof shall be furnished to this Department as well as the MoEF, Gol. The details with respect to the expenditure from this budget head shall also be furnished.	Complied. <ul style="list-style-type: none"> Main constituents of the environmental management plan are environmental monitoring; greenbelt development; mangrove plantation; maintaining bridges/ culverts for protection of creeks; treatment and disposal of wastes; mechanization of operations etc. Approximately INR 174.27 Lakh is spent for various activities mentioned here. Please refer to Annexure – 2 for details related to environmental expenditures and Annexure – 6 for expenditures related to CSR activities.
20	A separate environmental management cell with qualified personnel shall be created for environmental monitoring and management during construction and operational phases of the project.	Complied. <ul style="list-style-type: none"> AKBTPL has environment management cell with qualified manpower for implementation of environmental safeguards and management. The Environment Cell continuously remains in loop with Corporate Environment Cell. Please refer Annexure – 1 for further details.
21	An Environmental report indicating the changes, if any, with respect to the baseline environment quality in the coastal and marine environment shall be submitted every year by the KPT to this Department as well as to the MoEF, Gol.	Complied. <ul style="list-style-type: none"> Ambient Air Quality (twice in a week), and Noise (once in a month) level monitoring at 4 Nos locations and marine water and sediment monitoring (once in a month) at 2 Nos locations are being carried out by NABL and MoEF&CC accredited agency namely M/s. Pollucon Laboratories Pvt. Ltd. Summary of the same for duration

Half yearly Compliance report of CRZ Recommendation for creation of Berthing and Allied Facilities off Tekra near Tuna issued by Forest and Environment, Govt. of Gujarat vide letter bearing no. ENV-10-2009-1543-E dated 23rd June, 2010

Sr. No	Condition	Compliance																																																																																																																																										
		<p>from Oct-18 to Mar-19 is mentioned below.</p> <p>AAQ and noise sampling locations: 4 Nos.</p> <table><tr><th>Parameter</th><th>Unit</th><th>Max</th><th>Min</th><th>Perm. Limit^{\$}</th></tr><tr><td>PM₁₀</td><td>µg/m³</td><td>97.4</td><td>47.57</td><td>100</td></tr><tr><td>PM_{2.5}</td><td>µg/m³</td><td>57.53</td><td>18.05</td><td>60</td></tr><tr><td>SO₂</td><td>µg/m³</td><td>26.83</td><td>5.7</td><td>80</td></tr><tr><td>NO₂</td><td>µg/m³</td><td>45.28</td><td>15.33</td><td>80</td></tr><tr><th>Noise</th><th>Unit</th><th>Max</th><th>Min</th><th>Perm. Limit^{\$}</th></tr><tr><td>Day Time</td><td>dB(A)</td><td>74.1</td><td>43.4</td><td>75</td></tr><tr><td>Night Time</td><td>dB(A)</td><td>68.4</td><td>39</td><td>70</td></tr></table> <p>^{\$} as per NAAQ standards, 2009 (IS 9876/IS 9989)</p> <p>Marine water and sediment sampling locations: 2 Nos.</p> <table><tr><th rowspan="2">Parameter</th><th rowspan="2">Unit</th><th colspan="2">Surface</th><th colspan="2">Bottom</th></tr><tr><th>Max</th><th>Min</th><th>Max</th><th>Min</th></tr><tr><td>pH</td><td>--</td><td>8.46</td><td>8.16</td><td>8.18</td><td>8.11</td></tr><tr><td>TDS</td><td>mg/L</td><td>36694</td><td>35480</td><td>37984</td><td>35118</td></tr><tr><td>TSS</td><td>mg/L</td><td>384</td><td>256</td><td>318</td><td>236</td></tr><tr><td>BOD (3 Days @ 27 °C)</td><td>mg/L</td><td>7</td><td>4</td><td>BDL*</td><td>BDL*</td></tr><tr><td>DO</td><td>mg/L</td><td>6.6</td><td>5.9</td><td>6.3</td><td>5.6</td></tr><tr><td>Salinity</td><td>ppt</td><td>35.6</td><td>34.4</td><td>36.6</td><td>34.1</td></tr><tr><td>COD</td><td>mg/L</td><td>25</td><td>17</td><td>15</td><td>9</td></tr></table> <table><tr><th rowspan="2">Parameter</th><th rowspan="2">Unit</th><th colspan="2">Sediment</th></tr><tr><th>Max</th><th>Min</th></tr><tr><td>Organic Matter</td><td>%</td><td>0.84</td><td>0.56</td></tr><tr><td>Phosphorus as P</td><td>mg/kg</td><td>730</td><td>368</td></tr><tr><td>Aluminium as Al</td><td>%</td><td>5.92</td><td>4.96</td></tr><tr><td>Total Chromium as Cr+3</td><td>mg/kg</td><td>179</td><td>98</td></tr><tr><td>Manganese as Mn</td><td>mg/kg</td><td>1568</td><td>1184</td></tr><tr><td>Iron as Fe</td><td>%</td><td>5.5</td><td>4.92</td></tr><tr><td>Nickel as Ni</td><td>%</td><td>42</td><td>24</td></tr><tr><td>Copper as Cu</td><td>mg/kg</td><td>64</td><td>24</td></tr><tr><td>Zinc as Zn</td><td>mg/kg</td><td>340</td><td>220</td></tr><tr><td>Lead as Pb</td><td>mg/kg</td><td>3.6</td><td>1.22</td></tr></table> <ul style="list-style-type: none">Please refer Annexure – 4 for detailed analysis reports. Approx. INR 4.23 Lakh is spent for all environmental monitoring activities during the (Oct'18 to Mar'19) periods.	Parameter	Unit	Max	Min	Perm. Limit ^{\$}	PM ₁₀	µg/m ³	97.4	47.57	100	PM _{2.5}	µg/m ³	57.53	18.05	60	SO ₂	µg/m ³	26.83	5.7	80	NO ₂	µg/m ³	45.28	15.33	80	Noise	Unit	Max	Min	Perm. Limit ^{\$}	Day Time	dB(A)	74.1	43.4	75	Night Time	dB(A)	68.4	39	70	Parameter	Unit	Surface		Bottom		Max	Min	Max	Min	pH	--	8.46	8.16	8.18	8.11	TDS	mg/L	36694	35480	37984	35118	TSS	mg/L	384	256	318	236	BOD (3 Days @ 27 °C)	mg/L	7	4	BDL*	BDL*	DO	mg/L	6.6	5.9	6.3	5.6	Salinity	ppt	35.6	34.4	36.6	34.1	COD	mg/L	25	17	15	9	Parameter	Unit	Sediment		Max	Min	Organic Matter	%	0.84	0.56	Phosphorus as P	mg/kg	730	368	Aluminium as Al	%	5.92	4.96	Total Chromium as Cr+3	mg/kg	179	98	Manganese as Mn	mg/kg	1568	1184	Iron as Fe	%	5.5	4.92	Nickel as Ni	%	42	24	Copper as Cu	mg/kg	64	24	Zinc as Zn	mg/kg	340	220	Lead as Pb	mg/kg	3.6	1.22
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Half yearly Compliance report of CRZ Recommendation for creation of Berthing and Allied Facilities off Tekra near Tuna issued by Forest and Environment, Govt. of Gujarat vide letter bearing no. ENV-10-2009-1543-E dated 23rd June, 2010

Sr. No	Condition	Compliance
22	The KPT shall have to contribute financially to support the National Green Corps Scheme being implemented in the Gujarat by GEER Foundation, Gandhinagar, in consultation with Forest and Environment Department.	<p>Complied.</p> <ul style="list-style-type: none"> National Green Corps Scheme is being implemented by GEER foundation. AKBTPL requested GEER foundation to provide details of the program and financial assistance required so that necessary support may be provided. Further to the communication from GEER foundation, various activities were carried out on 21 March, international Day of Forests in 2014, at a school in Rampar, under National Green Corps. Details regarding the same were submitted as part of the compliance period Oct' 13 to Mar'14. Support will be extended to GEER foundation for any such activities in future
23	A six monthly report on compliance of the conditions mentioned in this letter shall have to be furnished by the KPT on a regular basis to this Department/MoEF, GOI.	<p>Complied.</p> <ul style="list-style-type: none"> Six monthly compliance reports regarding the implementation of the stipulated conditions are regularly submitted to all concerned authorities. Last compliance report for Apr'18 to Sep'18 period was submitted by AKBTPL vide letter dated 25.11.2018. to MoEF & CC.
24	The KPT before commencing any activity, at the location under the consideration, shall have the latest CRZ map prepared through one of the authorized agencies and the map shall have land use features within the area of 5 km radius from the location along with the HTL and LTL and CRZ boundary and inland if any or mangroves area shall be used for the proposed development.	<p>Complied.</p> <ul style="list-style-type: none"> CRZ map including land features prepared by institute of Remote sensing, Anna University, Chennai is already submitted by KPT to MoEF&CC vide letter no. EG/WK/4604 (EC)/146 dated 14.02.2012.

Half yearly Compliance report of CRZ Recommendation for creation of Berthing and Allied Facilities off Tekra near Tuna issued by Forest and Environment, Govt. of Gujarat vide letter bearing no. ENV-10-2009-1543-E dated 23rd June, 2010

Sr. No	Condition	Compliance
25	The entire jetty and approach shall be constructed on piles to ensure the free flow of water and that no creeks are blocked in any way.	Complied. <ul style="list-style-type: none"> As per the Environmental/ CRZ clearance obtained from MoEF&CC approach road of 2 km is constructed on rubble mound and 1.7 km approach road below low water line is constructed on piles. Entire jetty is constructed on piles. Bridges are constructed at three creeks and box/piped culverts are placed with total cost of 2.01 crores at various locations to allow free flow of water. Photographs of the same are already submitted as part of half yearly compliance report (Oct-14 to March-15) to MoEF & CC vide letter dated 11.05.2015 and there is no further change.
26	The KPT shall create a full-fledged and environmental cell for implementation of the Environment Management Programme and monitoring of the environmental parameters/post project monitoring.	Complied. <ul style="list-style-type: none"> AKBTPL has environment management cell with qualified manpower for implementation of environmental safeguards and management. The Environment Cell continuously remains in loop with Corporate Environment Cell. Please refer Annexure - 1 for further details.
27	The KPT shall have to take up in-situ biodiversity conservation project for mangroves at least in 5 ha. of area in addition to plantation of mangrove in 1000 ha.	Complied. <ul style="list-style-type: none"> 5 ha in-situ biodiversity conservation project for mangroves is carried out at sat saida bet (location identified by KPT). M/s GUIDE has prepared a final report of the same. Details related to the same are already submitted (as part of half yearly compliance report (Apr-2017 to Sep-2017).



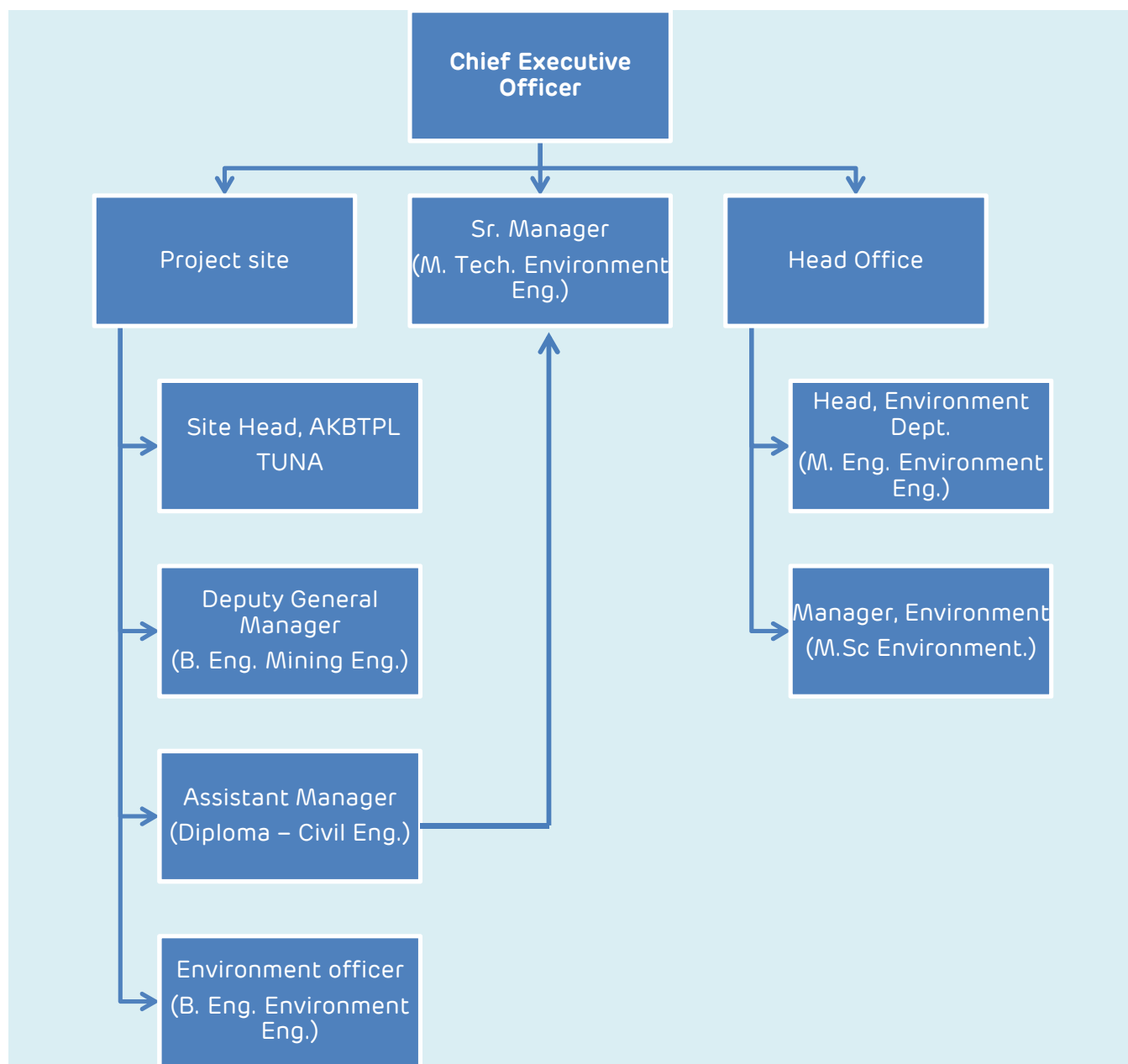
Adani Kandla Bulk Terminal Pvt. Ltd.

From : October 2018
To : March 2019

Half yearly Compliance report of CRZ Recommendation for creation of Berthing and Allied Facilities off Tekra near Tuna issued by Forest and Environment, Govt. of Gujarat vide letter bearing no. ENV-10-2009-1543-E dated 23rd June, 2010

Sr. No	Condition	Compliance
	General conditions	
28	A separate budget shall be earmarked for environmental management and socio-economic activities and details thereof shall be furnished to this Department as well as the MoEF, Gol. The details with respect to the expenditure from this budget head shall also be furnished.	Complied. <ul style="list-style-type: none">• Please refer point no. 19 above for the reply to this condition.
29	Any other condition that may be stipulated by this Department from time to time for environment protection /management purpose shall also have to be complied with by the KPT.	<ul style="list-style-type: none">• Agreed.

Annexure – 1: Environmental Management Cell



Annexure- 2: Expenditure Details on Environmental Safeguards.

Sr. no.	Activity	Cost (INR in Lakh)	
		Cost incurred Oct'18 to Mar'19	2018-19 (Budgeted)
1	Environmental Monitoring	4.23	8.77
2	Greenbelt development	14.20	28.55
3	Disposal of wastes (including OWC & STP operation).	7.01	14.27
4	Firefighting Equipment.	110.83	234.70
5	Dust Suppression.		
6	Maintenance of conveyor belt.	38.0	65.91
Total		174.27	352.2

Annexure – 3

(FORM-V)

Environmental Statement for 2018-19

Environment Statement for 2018-19 for M/s Adani Kandla Bulk Terminal Pvt Ltd

0/c



Ref No. AKBTP/ENVSTATEMENT/2018-19

Date: 7th May, 2019

To,
Member Secretary
Gujarat Pollution Control Board
Paryavaran Bhavan,
Sector-10-A, Gandhinagar-382010

Sub: Environmental Statement for the financial year ending 31st March, 2019 for M/s Adani Kandla Bulk Terminal Pvt Ltd (AKBTPL)

Ref: PCB ID: - 46110, Consent Order No. AWH – 68051

Dear Sir,

With reference to the above mentioned subject and reference, please find enclosed Environmental Statement in Form-V prescribed under Rule 14 of the Environment (Protection) Rules 1986. for M/s Adani Kandla Bulk Terminal Pvt Ltd, Ta. Anjar for the financial year ending 31st March 2019.

Thank you,

Yours faithfully,
For Adani Kandla Bulk Terminal Pvt Ltd

Hiren Shah
(BU Head – AKBTP)

Encl: As above.

Copy to:

1. The Regional Officer, Gujarat Pollution Control Board, Gandhidham.

25-5-19
Received
Gujarat Pollution Control Board
Regional Office
Kutch (East)

Adani Kandla Bulk Terminal Pvt Ltd
Adani House
Nr Mithakhali Circle, Navrangpura
Ahmedabad 380 009
Gujarat, India
CIN: U63090GJ2012PTC069305

Tel +91 79 2656 5801
Fax +91 79 2555 6490
info@adani.com
www.adani.com

Registered Office: Adani House, Nr Mithakhali Circle, Navrangpura, Ahmedabad 380 009, Gujarat, India

Annexure – 4

(Six Monthly Environment Monitoring Report)

(Oct'18 to Mar'19)



Adani Kandla Bulk Terminal Pvt. Ltd.

From : October 2018
To : March 2019

Annexure – 5

(GREEN ZONE DETAILS OF TUNA PORT (AKBTPL) UP TO Mar'2019.)

adani TM	Adani Kandla Bulk Terminal Pvt. Ltd.	From : October 2018 To : March 2019
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Annexure – 5 (GREEN ZONE DETAILS OF TUNA PORT (AKBTPL) UP TO Mar'2019.)

CURRENT GREEN ZONE DETAILS OF TUNA PORT (AKBTPL) UP TO Mar'2019.						
Sr. No.	Location	Area (Ha)	Tree (No.)	Shrubs (SQM)	Green Carpet (SQM)	Palm (No.)
1	Staff Canteen, POB & SS1 Building	2.17	4341	1403	8569	234
2	Green Belt area & Pump House	6.66	15294	198	0	34
3	Approach Road Zero Point to Main Gate	0.40	0	0	0	1006
4	SS2 Building & Jetty Road Area.	2.57	5776	875	0	0
5	Internal Road & Railway Building	2.31	10571	130	60.78	250
Total		14.11	35982	2606	8629.78	1524



Near Adani canteen



Around POB office



Near SS-01 Building



Approach Road- Zero Point to Main Gate




Near SS-02 Building



Near Railway Building

Annexure – 6

(Details of CSR activities carried out by Adani Foundation.)

	Adani Kandla Bulk Terminal Pvt. Ltd.	From : October 2018 To : March 2019
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Annexure – 6: Details of CSR activities carried out by Adani Foundation.

Sr. no	village	CSR activity	Beneficiaries	Expense in Lakh
1		Rural Infrastructure Development		
	Wandi	Distribution of Drinking Water Pipe line -2000 rmt	1210	8.48
	Rampar	Construction of various civil works like paver flooring, boundary wall, storage tank 6 KL in Rampar village	1262	7.81
	Tuna	Tuna Gram Panchayat Support in electric, wooden and chairs, tables etc	5114	1.77
	Vira Bandar	Construction of School Room for fisherman children at Vira Bandar	35	2.42
2		Health Projects		
	Rampar, Tuna, Wandi	Rural Clinic	1716	0.26
	Rampar, Tuna, Wandi	Senior Citizen	28	0.25
	Rampar, Tuna, Wandi, sanghad	Medical Support	76	0.15
	Rampar, Tuna, Wandi, sanghad	Patients care and coordination	101	0
3		Education Projects		
	Rampar	Material support in Primary School	287	0.78
4		ASDC(Adani Skill Development Centre)		
	Rampar	Tailoring training	73	0
5		Fisherman Projects		
	Virabandar	Potable Water	405	1.98
	Ghavarvaro Banadar	Potable Water	303	1.44
	Virabandar	Ramotsav	35	0.12
Total			10645	25.46

Rural Infrastructure Development

Rural infrastructure provide basic amenities which play crucial part to improve the quality of rural life under rural infra structure following work had been carried out

- 1 Drinking Water pipe line 2000mtr
- 2 Paver flooring, boundary wall, 6KL storage tank at Rampar village.

Rural Infrastructure Development



Education

Education is the most powerful weapon which can change world and good infrastructure amenities can create conditional positive environment Material support in Rampar Primary school.



Health Projects

A healthy mind remain in Healthy body which reflect in work with this aim rural clinic has been run at Tuna village as well as senior citizen project and medical support was given to needy patient at GKGJ, Bhuj and Adani Hospital, Mundra.



Fisherman Program

Ramotsav program was organized at Vira bandar on 28.03.19 Total 35 student were participated and all are provided with school bag as well as winner prize to the 1st, 2nd and 3rd winner of each game. Potable water distribution at VIRA and Dhavarvalo Bandar 7500 ltr and 10000ltr accordingly.



Skill Development

Person with good skill can earn good livelihood and be self-dependent. Adani Skill Develop Center organized tailoring training at Rampar village Total 73 women had trained.

