

Half Yearly Compliance Report

from

April 2017 to September 2017

of

Environment Clearance

for

“Establishing Deep Draught Berth (550 m Jetty, Dedicated Channel and Turning Circle)” at Hazira, Gujarat

Submission to:

Western Regional Office, Bhopal

Ministry of Environment, Forests and Climate Change

Regional Office, Gujarat Pollution Control Board, Surat

Gujarat Pollution Control Board, Gandhinagar

Submitted By:

M/s. ESSAR BULK TERMINAL LIMITED

27th KM from Surat-Hazira Road

Surat – 394 270

Gujarat, India

2017

**Half Yearly Compliance Report
Period: April 2017 to October 2017
Year 2017-18**

"Establishment of Deep Draught Berth (550 m Jetty, Turning Circle, Channel, Dredging & Reclamation) for the Environment Clearance received vide Letter No. 11-65/2005-IA-III dated 6th September 2007" for the period of April 2017 to September 2017 for ESSAR BULK TERMINAL LIMITED (EBTL), located at Hazira, Gujarat.

S.No.	Conditions	Compliance Status
A	Specific Conditions	
i)	All the conditions stipulated by the Environment Department of GOG vide their letter No. ENV-10-2007-174 dated 17 th July 2007 should be strictly implemented and comprehensive compliance letter to be provided to the Environment Department, GOG and to the Regional Office of this Ministry at Bhopal every quarterly.	Noted. Company is adhere to and strictly following the conditions mentioned in the Government of Gujarat's (GoG) recommendation letter forwarded to the Ministry of Environment, Forests and Climate Change (MoEF&CC) vide letter No. ENV-10-2007-174-P dated 17/07/2007. The said project is operational since year 2010 and the compliance report of the same is being regularly submitted to the Regional Office (RO) of Gujarat Pollution Control Board (GPCB), Surat and RO of the Ministry of Environment, Forests & Climate Change (MoEF&CC), Bhopal. Please refer Annexure 1 for the recent Compliance Report.
ii)	The project proponent should implement all the measures that have been suggested by them in the clarification letter No. ESTL/ENV/PIII/PS02-07 dated 12/02/2007 provided to the MoEF&CC.	Noted. All the measures suggested by the company vide letter No. ESTL/ENV/PIII/PS/02-07 dated 12/02/2007, are being taken into care and being followed in order to mitigate the adverse impacts envisaged. Compliance reports for the same has already being submitted to your good office vide our earlier half yearly compliance reports.
iii)	The proposed Jetty of 550 m and 35 ha of back up area proposed for reclamation will be carried out in accordance with CRZ Notification 1991.	Noted and being complied. Conditions mentioned in CRZ Notification 1991 and its amendments were strictly followed during the construction as well as the reclamation phases. Moreover, operations are being carried out by keeping them in considerations.
iv)	Dumping site approval Hazira Port A & C site shall be used for dumping whose co-ordinate are as follows: (A) 21°03' to 21°05' N and 72°28' to 72°30' E (B) 21°03' to 21°05' N and 72°30' to 72°32' E	Noted and being complied. Dumping site approved by Gujarat Maritime Board (GMB) based on the report prepared by CWPRS is being used for dumping of excess dredged material as per the mentioned co-ordinates only.
v)	No mangroves should be destroyed during construction and operations of the project.	Noted and complied. Extreme care has been taken during the



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		<p>construction phase to avoid any damage or destruction of mangroves. In addition to this, during the operational phase, steps have been taken for the prevention and conservation of existing mangrove plantation in the area.</p>
vi)	<p>A program for mangrove conservation development in the region should be taken by the project proponent through a scientific / public spirited body for evolving sustainable and long-term strategies. The detailed action plan along with fund allocation should be submitted to this Ministry as well as the regional office Bhopal within 3 months. The implementation of the conservation plan shall be monitored by the environmental cell of the company and periodic report should be submitted to the Ministry's Regional Office.</p>	<p>Noted and being complied.</p> <ol style="list-style-type: none"> 1. Mangrove plantation in 600 ha of area has been completed in consultation with Gujarat Ecology Commission (GEC) and M/s Saline Area Vitalization Enterprises (SAVE) from year 2008 to 2015. Reports of the same has been submitted along with corresponding half yearly compliance reports, 2. Also, M/s Gujarat Institute of Desert Ecology (GUIDE) has been appointed and engaged in mangrove mapping. Please refer Annexure 2 for the Mangrove Mapping report of year 2017-18, 3. Likewise, another 100 ha of mangrove plantation is proposed for the coming years, <p>In addition to these, as per company's commitment, some preventive measures have been taken on ground level like,</p> <ol style="list-style-type: none"> 1. Regular physical inspections carried out to ensure removal of any sedimentation (if observed) to restore the free flow of seawater for flushing, 2. Dredging is being carried out in a way so that the drained sea water will not get released into the creek feeding the mangrove, 3. Regular check on DO levels, 4. It is also proposed to construct the trestle berth on either side of existing mangrove patch so that natural flushing will not disturbed, <p>Despite of all these efforts, the plantation seems to be stressed due to some natural causes like average temperature of the region which is on higher side, coastal erosion due to severe tidal currents, cutting of mangroves by locals for fodder, fuel wood and fishing activities and the development activities in the area, as mentioned in the Report submitted by GUIDE (attached as Annexure 2). In the same report, it is also recommended to find some alternative site for mangrove development.</p>
vii)	Sewage treatment plan should be included in	We are having a general practice of



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	the project and the details provided to the Regional Office of this Ministry within 3 months from the receipt of this report.	collection of sewage generated in the premise in Septic Tank / Soak Pit from where it is being taken by authorize vendor for suitable disposal. Records regarding the quantity handled are being maintained at office.
viii)	The recommendation of the risk assessment report should be incorporated and report submitted.	Presently we are not handling any petroleum or inflammable chemicals at port but for proposed expansion project Risk Assessment has been carried out by DNV which conclude that the Societal Risk Levels (due to the proposed handling of petroleum / inflammable chemicals at expansion berths) are in As Low As Reasonable Practicable (ALARP) Region. In addition to that, recommendations given by DNV will be implemented to mitigate the risk to the ALARP level. For present scenario, we have had an Emergency Response Plan (ERP), in place with a well-equipped Emergency Response Team (ERT) to deal any emergency situation related to fire, explosion, spills, or any other major accident of disastrous proportion, which might arise due to port operations, processes, storage or adjacent operations.
ix)	Location of General Cargo Berth should be taken into consideration with regard to location of LNG terminal.	Not Applicable.
x)	The materials for filling and pavement construction should be made available from approve quarry.	Not Applicable. As committed, company is using the dredged material for filling up work in the premises.
xi)	Sufficient fixed and mobile fire-fighting system should be provided exclusively for the terminal in consultation with the local statutory bodies and fire-fighting authorities.	Noted and being complied. Essar Bulk Terminal Limited (EBTL) has a well-developed and approved firefighting plan in-place to deal any such condition. EBTL has <ul style="list-style-type: none"> • 12 fixed hydrants, • 17 ABC Fire Extinguishers, • 14 CO₂ Fire Extinguishers, • 08 Mobile DCP Fire Extinguishers and • 02 fire tenders. In addition to that adequate fire-fighting equipment are also provided inside the vehicles / machinery and at strategic locations for quick access in case of emergency.
xii)	The project proponent should ensure that during construction and operation of port there will be no impact on the livelihood of the fishermen. The fishermen should be provided free access to carry out the fishing activities.	Well noted. As per the Marine Environmental Impact Assessment (EIA) Report prepared by WAPCOS based on the earlier report prepared by NIO, there are no major commercial fishing operations in Tapi



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		Estuary. Also, Gujarat Maritime Board (GMB) has declared the entire channel as " No Fishing Zone ". Thus, adverse impacts on fishery are not envisaged. However, there are no restrictions imposed on fishing activities in the area for artisanal fishermen.
xiii)	All necessary precautions while undertaking construction and operation of port should be taken keeping in the view the bathymetric changes due to cyclones.	Noted and being complied. Construction activities are completed based on the recommendations mentioned CWPRS's Report. Bathymetry of the channel and berth is regularly monitored and maintenance dredging is carried out as and when required.
xiv)	All development in the port should be carried out in the accordance with the CRZ Notification 1991 and approved CZMP of Gujarat.	Noted and being complied. Development activities in port area are carried out only as per the CRZ Notification 1991 and its amendments and as per the plan approved by Gujarat Coastal Zone Management Plan (GCZMP).
xv)	There should be no withdrawal of Ground Water in CRZ Area, for this project. The proponent should ensure that as a result of the proposed construction in-gress of saline water in to ground water does not take place. Piezometer shall be installed for regular at appropriate location of the project site.	Well Noted. As per the Central Ground Water Board's (CGWB) report of Surat District published in December 2013, 04 numbers of Piezometers have been installed in the district in order to access the ground water quality of the area. Statistical analysis of chemical constituents indicates that ground water is more saline in nature in coastal parts. Withdrawal of ground water may cause seawater ingress may result in higher salinity. Please refer Annexure 3 for the report. Therefore, in order to eliminate the possibility of seawater ingress no groundwater withdrawal is being carried out for the proposed project and related activities.
xvi)	The project should not be commissioned till the requisite water supply and electricity to the project are provided by PWD/Electricity Board.	Noted and complied. Power being sourced from Bhandar Power Limited (BPol).
xvii)	Specific arrangements for rain water harvesting should be made in the project design and the rain water so harvested should be optimally utilized. Details in this regard should be furnished to this Ministry's regional office at Bhopal within 3 months.	As per the CGWA's Report attached as Annexure 3 , the general ground water level of <i>Chorasi</i> Taluka is ranges between 5 m -10 m. Due to such high-water levels it is not feasible to have specific rain water harvesting measures at the project site. However, EBTL has installed a full-fledged rain water harvesting program at township and complex.
xviii)	Green Buffer Zone should be provided all around the project area in consultation with local forest department and report submitted to this Ministry's regional office at Bhopal.	Well noted and being complied. In order to develop a thick greenbelt, it was proposed to plant around 8000 saplings in an area of around 5 ha within the port



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		premises. Till date around 5000 species of <i>Neem, Cycus, Ashoka, Baniyan, Amaltas, Thuja, Acacia auriculiformis</i> , rain tree, Bottle Palm, Coconut etc has been planted in the port premises as well as on the back up area. Three rows plantation is being carried out at along the boundaries of port premises in order to provide canopy cover for the abatement of generated dust.
xix)	No product other than those permissible in the CRZ notification 1991 should be stored in the CRZ area.	Well noted. Storage and other activities are being carried out only as per the Coastal Regulation Zone (CRZ) Notification 1991 and its amendments.
B	General Conditions	
i)	Construction of the proposed structures should be undertaken meticulously conforming to the existing Central / Local rules and regulations including CRZ Notification 1991 and its amendments. All the construction design / drawings related to the proposed construction activities must have approvals of the concerned State Government Departments / Agencies.	Noted and complied. All the construction work was being carried out only after GMB's approval and under their supervision. Construction drawings were also approved by GMB only.
ii)	Adequate provisions for infrastructure facilities such as water supply, fuel, sanitation etc. should be ensured for construction workers during the construction phase of the project so as to avoid felling of trees / mangroves and pollution of water.	Noted and complied.
iii)	The project authorities must take necessary arrangements for disposal of solid wastes and for treatment of effluents by providing a proper wastewater treatment plant outside of CRZ area. The quality of treated effluents, solid waste and noise level etc. must conform to the standards laid down by the competent authorities including the central / state PCB & the MoEF&CC under the EP Act, 1986.	Noted. There is not trade effluent generation thus; setting of wastewater treatment plant is not envisaged. Solid waste generated during the operations is being segregated and disposed as per the Solid Waste Management Rules 2016. Regular monitoring of environmental parameters is being carried out in the area. Please find the Annexure 4 for the monitoring reports for period of 6 months.
iv)	The proponent shall obtain the requisite consents for discharge of effluents and emissions from GPCB.	Noted and complied. Consolidated Consent and Authorization (CCA) has been taken from the Gujarat Pollution Control Board (GPCB) vide Order No. 40300 dated 19/01/2011 which was valid till 22.08.2015. Subsequently we have obtained CCA with Order No. 73836 issued dated 20.10.2015 with an extended validity till 29.07.2020. We have also received CCA as amended to CCA Order No. 73836 for Proposed Expansion vide Order No. AWH-76307 dated 28.03.2016 with a validity till 29.07.2020. Please refer Annexure 5.A to 5.C for the

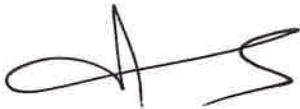


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		copies of CCAs.														
v)	The proponent shall provide for a regular monitoring mechanism so as to ensure that the treated effluents conform to the standards.	Not Applicable. Trade effluent generation is NIL.														
vi)	In order to carry out the environmental monitoring during the operational phase of the project the project authorities should provide an environmental laboratory.	Noted and complied. EBTL has its own well-developed Environment Management Cell and well-equipped laboratory with adequate manpower at ESSAR Steel which is catering to the requirement of this project. The monitoring reports are attached as Annexure 4.														
vii)	The sand dunes and mangroves on the site should not be disturbed in any way.	Noted. Extreme care has been taken during construction as well as during the operational phase so that none of the activity will disturb the mangroves or sand dunes in the area, if present.														
viii)	A copy of the EC letter will be marked to the concerned panchayat.	Complied.														
ix)	GPCB should display a copy of EC letter at the RO, DIC and DC office for 30 days.	Complied.														
x)	The funds earmarked for Environment Protection Measures should be maintained in a separate account and there should be no diversion of these funds for any other purpose. A year wise expenditure on environmental safe guards should be reported to the Ministry's RO, Bhopal and GPCB.	<p>Noted and complied. INR. 10 crores have been spent for the following environment protection measures.</p> <table border="1"> <thead> <tr> <th>S.No.</th> <th>Measures</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Dust Suppression</td> </tr> <tr> <td>2</td> <td>Environment Monitoring</td> </tr> <tr> <td>3</td> <td>Greenbelt Development</td> </tr> <tr> <td>4</td> <td>Plantation Aftercare</td> </tr> <tr> <td>5</td> <td>Mangrove Plantation</td> </tr> <tr> <td>6</td> <td>OSCP & Equipment</td> </tr> </tbody> </table>	S.No.	Measures	1	Dust Suppression	2	Environment Monitoring	3	Greenbelt Development	4	Plantation Aftercare	5	Mangrove Plantation	6	OSCP & Equipment
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xi)	Full support should be extended to the officers of Ministry's RO at Bhopal and the officers of PCB by the project proponent during inspections.	Noted and complied.														
xii)	In case of deviation or alteration in the project including the implementing agency, a fresh reference should be made to this Ministry for modification in the clearance conditions or imposition of new ones for ensuring environmental protection.	Well noted.														
xiii)	The Ministry reserves the right to revoke this clearance, if any of the conditions stipulated are not complied with to the satisfaction of the Ministry.	Well noted.														
xiv)	The Ministry or any other authorities may stipulate any other additional condition.	Well noted														
xv)	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 local concerned informing	Complied. Advertisement for the same has been given in two daily newspaper in September 2007.														



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	that the project has being accorded environment clearance and copies of clearance letters are available with GPCB and may also seen at website of Ministry of Environment and Forests at http://www.envfor.nic.in . The advertise should made within 7 days of issue of the clearance letter and a copy of the same should be forwarded to the Regional Office of this Ministry at Bhopal.	
xvi)	Project proponent should inform the RO Bhopal as well as the MOEF&CC the date of Final Closure and final approval of the project by the concerned authorities and the date of start of Land Development Work.	Complied. Financial closure of the project has been completed and we have received CCA from GPCB.

For **ESSAR BULK TERMINAL LIMITED**



Captain S. Das
Chief Executive Officer

