

## Half Yearly Compliance Report

for April 2017 to September 2017 of

for

“Environment and CRZ Clearance for Expansion of Port  
Facility” at

Hazira, Surat, 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**

**27<sup>th</sup> KM from Surat-Hazira Road**

**Surat - 394 270**

**Gujarat, India**

**2017**

**HALF YEARLY COMPLIANCE REPORT,  
from April 2017 to September 2017  
Year 2017-18**

**"Environment and CRZ Clearance received for Expansion of Port Facility at Hazira, Surat, Gujarat by M/s. Essar Bulk Terminal Limited (EBTL)" vide F. No. 11-46/2011-IA-III, of the Ministry of Environment, Forests and Climate Change (MoEF&CC) dated 06/05/2014.**

S.No.	Conditions	Compliance Status
<b>B</b>		<b>Specific Conditions</b>
i)	"Consent for establishment" shall be obtained from Gujarat Pollution control Board under Air and water Act and a copy shall be submitted to the Ministry before start of any construction work at the site.	<b>Noted and complied.</b> Consent for Establishment (CTE) for the project was obtained vide Letter No. GPCB/CCA-SRT 1189(2)/ID_22972/135405, CTE No. 48131 dated 23/01/2013 from the Gujarat Pollution Control Board (GPCB) which was valid till 16/01/2017. Subsequently, we have also received CTE vide letter No. GPCB/CCA-SRT-1189(3)/ID-22972/422702 dated 12/09/2017 with CTE No. 48131 valid up to 16/01/2020. Please refer <b>Annexure 1.A</b> and <b>Annexure 1.B</b> for the copies of CTEs.
ii)	Project proponent shall appoint a consultant to look after and advice on the transportation of dangerous chemicals. Sensors for early detection of leakage of propylene and butadiene shall be provided at berths along with water sprinklers.	<b>Noted and will be complied.</b> Dangerous chemicals are proposed to handle only in this 4.8km Port expansion area. Construction of 1100m Multipurpose Berth part of 4.8km expansion has started from January 2016 and still in its construction phase only, thus the required consultant and sensors for detection of leakages of dangerous chemicals will be arranged before commissioning of the berth.
iii)	Project proponent shall ensure proper flushing/free flow of tidal water to the mangroves.	<b>Noted and being complied.</b> Since the start of activities in this area, focus has been made on the protection, preservation and conservation of mangrove in the area. Presently tidal flow into the mangrove area is allowed through temporary culvert pipe and it would be further improved after construction of trestle berth of 600m at the same location. In addition to that, regular physical inspections carried out to ensure the removal of any sedimentation (if observed) to restore the free flow of seawater for flushing.
iv)	Project proponent shall submit once in 12 months the latest satellite imagery to MoEF to ensure that mangroves are remains fully intact. Any shrinkage in mangrove area noticed either in satellite imaginary or during site visit, shall be taken as violation	<b>Noted and complying.</b> M/s Gujarat Institute of Desert Ecology (GUIDE), Bhuj has been engaged by company for mangrove mapping in the designated area. In continuation to that, we are hereby attaching the Mangrove Mapping Report prepared in October 2017 for year 2017-18 as <b>Annexure 2</b> for your kind reference. Although, an increase in mangrove area with regeneration and recruitment classes has been reported in last two years, it is also mentioned that the mangroves are in stressed condition 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. In the same report, it is also recommended to find some alternative site for mangrove development.



S.No.	Conditions	Compliance Status
v)	The project Proponent shall get third party inspection carried out once in a year preferably by NEERI to ensure compliance of all the Environmental Clearance (EC) conditions.	<b>Noted and will be complied.</b> As we have received the necessary construction approval for 1100 m berth from Gujarat Maritime Board (GMB) in October 2015, construction of same as a part of 4.8 km port expansion started from January 2016 only. Thus, now we are in the process of finalization the third party for inspection and will submit the report.
vi)	There shall be no encroachment of project activities in the mangrove area. The various referral distances/ latitudes/ longitudes as indicated in the enclosed map (Annexure-II) shall be maintained for the conservation of this mangrove area within the port limit.	<b>Noted and being complied.</b> As stated earlier also, extreme care has been taken in past and will be continued in future to ensure that none of the activity will cause any disturbance to Mangrove of the area. Moreover, the mangrove mapping reported submitted in October 2017 (attached as <b>Annexure 2</b> ) ensures that there is no encroachment of project activities in the mangrove area. Measures have been taken and will be continued in future also for the conservation of mangrove areas.
vii)	Stock yard on northern side (Hazira Village side) shall be provided with bund and wind screen of at least 15 mt height with well-designed water supply fogging arrangement along with three rows of trees in canopy formation.	<b>Noted and will be complied.</b> As stated above, we have got the necessary permissions in year 2015 and started the construction work for the proposed expansion in January 2016, the stockyards are still under construction phase only. Further, wind screens of 9 m height (15 m if required) will be provided along with water sprinkling arrangements. Work of three-row plantation was already being carried out within the premises and along the boundary as mentioned in GPCB's coal handling guidelines and the process is continued. All the precautions mentioned in GPCB's guidelines are being followed.
viii)	The height of coal stack yard shall be at least 2 feet below the height of wind curtain.	<b>Noted and will be complied.</b> Storage will be carried out only as per the Gujarat Pollution Control Board's (GPCB) Coal Handling Guidelines.
ix)	Greenbelt shall be provided all along stack yard and in the premises	<b>Partly complied.</b> As stated earlier we have started the plantation work within the premises and all around the coal stockyard area. We have already carried out three-row plantation along the coal yard boundary and within the premises. New saplings are also being planted in the area and also on the gaps between already planted area to make it thick and heavy.
x)	The existing coal conveyor from berth to stock yard shall be closed with cover since the present water spray appears to be inadequate.	<b>Partly complied.</b> The existing coal conveyors from berth to stock yard is closed type. The conveyors in berths and stock yards are open type as cranes & stacker reclaimer need to travel on them. However, we have increased the frequency of water sprinkling by the means of mobile water tankers and also in the process to provide water sprinkling arrangements in stockyard.
xi)	The transportation in the proposed facility shall be in closed conveyor only.	<b>Will be complied with.</b> The proposed conveyors for the dry bulk cargos will be of covered type.

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xii)	Natural drainage system shall be maintained so that there is free flow to the existing mangroves. Mangrove plantation in 500 ha of land in consultation with GEC/Forest department, Government of Gujarat.	<b>Noted and being complied.</b> As per the Environment Impact Assessment (EIA) Report prepared by WAPCOS, no significant changes in flow conditions of Tapi Estuary will be envisaged as the proposed development including the berths are in-line with the existing jetty. Moreover, with open western side of the proposed trestle berth between reclamations areas, ample amount of sea water during flood time and exposure during low water will be received by the mangrove patch. Also, it is proposed to construct the trestle berth on pillars so that natural flushing of mangrove area will not get disturbed. In addition to that, regular physical inspections carried out to check and remove any sedimentation, if observed. As far as Mangrove plantation is concerned, 600 ha of area has already been planted since 2008-15 and another 100 ha of mangrove plantation is proposed for coming years.
xiii)	There shall be no disposal of wastes in to the coastal areas	<b>Being Complied.</b> We ensure always that no wastes will be disposed into the coastal areas.
xiv)	Hazardous chemicals except the permissible Petroleum products shall not be stored with in CRZ area. All the construction, storage shall be as per the CRZ Notification'2011.	<b>Agreed.</b> Only the permitted hazardous chemicals as per CRZ notifications 2011 will be stored in the CRZ area.
xv)	All the conditions/recommendations stipulated by Gujarat Coastal Zone Management Authority vide their letter no ENV-10-2011-877 E dated 01-06-2013 shall be complied with.	<b>Noted and being complied.</b> The compliance report of the GCZMA recommendations for this expansion is submitted as <b>Annexure 3</b> for your kind records.
xvi)	Oil spill contingency plan shall be put in place.	<b>Complied.</b> EBTL has a well-developed Oil Spill Contingency Plan (OSCP) in place. Along with that, EBTL has a well-qualified & well-equipped Emergency Response Team (ERT) to deal emergency situations that may arise during the operation phase.
xvii)	Hydrocarbon monitors with provision for alarms set at specific concentrations shall be installed at strategic locations on the berth and around storage tanks as per ISGOTT and OISD.	<b>Will be complied.</b> Hydrocarbon monitors will be installed in the liquid cargo handling berth and the storage areas. Alarms will be set as per the safety regulations.
xviii)	On site Emergency Management plan shall be put in place.	<b>Complied.</b> As stated above EBTL has well-developed on-site Emergency Response Plan (ERP) in-place with well-equipped ERT in order to deal any emergency situation.
xix)	All the recommendation of the EMP, Risk assessment and DMP shall be complied with letter and spirit. All the mitigation measures submitted in the EIA report shall be prepared in a matrix format and the compliance for	<b>Complied.</b> Well-equipped safety team with adequate safety measures is available in the premises. Fire hydrants, extinguishers, sprinkling system mounted in mobile water tankers are available at site for coal yards. Also, please refer to the compliance status of the EMP's recommended in the EIA report is submitted as <b>Annexure 4.</b>



S.No.	Conditions	Compliance Status
	each mitigation plan shall be submitted to MoEF along with half yearly compliance report to MoEF – RO.	Moreover, recommendations made on the basis of risk assessment and DMP will always be considered during the different stages of the project.
xx)	The port shall ensure that the ship under operation follows the MARPOL convention regarding discharge or spillage of any toxic, hazardous or polluting material like ballast water, oily water or sludge, sewage, garbage, etc. The emission of NOx and SOx shall remain within the permissible limits.	<p><b>Noted and being complied.</b></p> <p>EBTL is facilitating discharge of sludge, sewage and garbage generated at ships calling our terminal by authorized GPCB approved vendors. Ship's generated waste is discharged directly into approved vendors trucks and it is disposed as per established environment and government norms. Vendor is responsible for disposal of waste. Presently EBTL is not handling any noxious or hazardous cargo.</p> <p>Regarding the air pollution, below practices are followed:</p> <ol style="list-style-type: none"> <li>1. Pre-screening of ships is done for physical suitability and validity of statutory certificates prior it arrives our terminal,</li> <li>2. International Air Pollution Prevention (IAPP) Certificate of ships is checked for its validity, if not valid ship is rejected by terminal.</li> <li>3. Once vessel arrives EBTL, random visual checks are carried out by marine officers for any discolored or black smoke coming from ship's funnel. If observed, physical verification is being carried out by EBTL's Competent authorities.</li> </ol> <p>In addition to these, regular ambient air quality monitoring is being carried out at port premises and report of which are being submitted to the RO, MoEF&amp;CC, Bhopal and RO, GPCB, Surat.</p>
xxi)	The hazardous wastes generated shall be collected and disposed as per rules. Disposable wastes shall be sent to authorized TSDF, MoU in this regard shall be submitted to the RO, MOEF along with six monthly monitoring reports.	<p><b>Noted and will be complied.</b></p> <p>MoU with the authorized TSDF in Gujarat will be executed before startup of Hazardous waste generation operations.</p>
xxii)	The dredging materials shall be utilised for reclamation and excess shall be disposed at the site identified by CWPRS.	<p><b>Being Complied.</b></p> <p>The dredging material is currently being utilised for reclamation as per the EC &amp; CRZ clearance. The excess will be disposed at the site approved by GMB or will be disposed to the MoEF approved projects for reclamation.</p>
xxiii)	A study to determine the reasons for increase in cancer patient in the vicinity shall be carried out.	<p><b>Noted.</b></p> <p>Community Medicine Department of Government Medical College, Surat has carried out study on "Status of Cancer Diseases in the Vicinity of EBTL, Hazira" during March 2016 to May 2016 and submitted the report.</p> <p>It is reported that total prevalence of cancer among surveyed population is 3.63 per 1000 population per 10 years. More than two-third cancer cases were found in the age group of 35-64 years which comprised of only one quarter of the surveyed population. Also, majority of the cancers found were of oral cavity, tongue, oesophagus, oropharynx and pharynx unspecified. It is also reported that among the cancer patients' tobacco smoking was the most common addition.</p>



S.No.	Conditions	Compliance Status
		No cases of cancer were observed in the age group 0-14 years which accounts for 15.47 % of surveyed population.
xxiv)	A separate Environment monitoring cell shall be set up especially for this plant and details shall be submitted to the Ministry prior to the commencement of operation.	<b>Complied.</b> EBTL has its own Environment Management and Monitoring Cell headed by Joint General Manager and overlooked by Chief Executive Officer. Team of 6-7 well-qualified professionals from Environment and Safety domain is present and reporting to the JGM. Please refer <b>Annexure 5</b> , Organogram showing the hierarchy of Environment Cell. As far as monitoring of environmental parameter is concerned we have well-equipped laboratory at our ESSAR Steel unit. Please refer <b>Annexure 6</b> for the Monitoring reports.
xxv)	Controlled cutter suction dredging shall be used along with the enclosure to contain the turbidity.	<b>Noted and Complied.</b> Controlled cutter suction dredger is being used for the dredging activities.
xxvi)	The responses/commitments made during public hearing shall be complied with letter and spirit.	<b>Being complied.</b> The compliance status /action plan for the PH commitments are submitted for your records as <b>Annexure 7</b> .
xxvii)	CSR activities shall cover the villages within 10 km radius. CSR for fisherman shall be carried out as committed.	<b>Being complied.</b> CSR activities have planned for 10 km radius and specific attention will be given for improving the fisherman lifestyle. Please refer <b>Annexure 8</b> for some of the CSR Activities carried out in the area.
xxviii)	There shall be no ground water drawl within CRZ area.	<b>Noted.</b> No ground water withdrawal for the project.
xxix)	Sewage shall be treated and the Treatment facility shall be provided in accordance with the Coastal Regulation Zone Notification 2011. The disposal of treated water shall confirm the regulation of State Pollution Control Board.	Provisions of soak pit / septic tanks has been made within the premises. We have made agreement with GPCB's approved vendor to take this collected sewage on regular basis for disposal.
xxx)	Solid waste management shall be as per Municipal Solid (Management and Handling) Rules'2000.	<b>Noted and will be complied.</b> Waste generates during the proposed project will be handled and dispose as per the directions given in Solid Waste Management Rules 2016, Waste generated will be segregated and stored in three separate streams as per the rules, Construction and demolition waste as and when generated will be stored in own premises and will be disposed as per the Construction and Demolition Waste Management Rules, 2016, As a general and regular practice, horticulture and garden waste stored in our own premises before being lifted by local vendor which will be final disposed to SMC site as per the directions of local administration, At any point of operations throwing, burying or burning of solid waste will not be envisaged.
xxxi)	The Project shall be executed in such a manner that there shall not be any disturbance to the fishing activity.	<b>Agreed.</b> The navigation channel of Tapi estuary has been declared as a no fishing zone by Gujarat Maritime Board (GMB), However, artisanal fishermen are never obstructed to do fishing and they are continuing fishing.



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xxxii)	It shall be ensured that there is no displacement of people, houses or fishing activity as a result of the project	<b>Not applicable.</b> As our Project is planned in the reclaimed area, hence there will no displacement of people, houses or fishing activity due to our project.
xxxiii)	No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.	<b>Noted and agreed.</b> Construction and other activities will be carried out as per the directions and guidelines provided in CRZ Notification 2011.
xxxiv)	The project proponent shall set up separate environmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of senior executive.	<b>Complied.</b> EBTL has its own Environment Management Cell headed by Joint General Manager and supervised by Chief Executive Officer. We have a team of 6-7 well-qualified members from environment and safety domain reporting to Joint General Manager. Please refer <b>Annexure 5</b> for the organogram.
xxxv)	The funds earmarked for environment management plan shall be included in the budget and this shall not be diverted for any other purposes.	<b>Noted and agreed.</b> The funds earmarked for environment management plan will be utilised only for the said activities.
<b>B</b>		<b>General Conditions</b>
1	Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality	<b>Being complied.</b> To eliminate / minimize dispersion of sediment during piling activities, " <b>Bored cast in-situ</b> " piling technique is being used in the project.
2	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 proponents during their inspection for monitoring purposes, by furnishing full details and action plans including the action taken reports in respect of mitigative measures and other environmental protection activities.	<b>Noted and being complied.</b>
3	The six-monthly reports shall need to be submitted by the project proponents to the Regional Office of this Ministry at Bhopal regarding the implementation of the stipulated conditions.	<b>Noted and being Complied.</b> Half yearly compliance status of conditions given in EC along with the monitoring data of environmental parameters are regularly being submitted to the RO, GPCB, Surat and to the RO, MoEF&CC, Bhopal.
4	Ministry of Environment or any other competent authority may stipulate any additional conditions or modify the existing ones, if necessary in the interest of environmental and the same shall be complied with.	<b>Noted and agreed.</b>



S.No.	Conditions	Compliance Status
5	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.	<b>Noted and agreed.</b>
6	In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to the Ministry of Environment and Forests.	<b>Agreed.</b>
7	The project proponents should inform the Regional Office at Bhopal as well as the Ministry the date of financial closure and final approval of the project by the concerned authorities and the date of start of Land Development Work	<b>Noted</b> EBTL has completed and commissioned 600m berth out of 1100m Multipurpose Berth, part of 4.8 Km Port expansions. The Project Expenditure is done through the internal accruals of the company and no fresh loan is taken. Land Development work is in progress.
8	A copy of the clearance letter will be marked to the concerned panchayat/local NGO, if any, from whom any suggestion/representation has been received while processing the proposal.	<b>Complied.</b>
9	The Gujarat Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industries Centre and Collector's office/Tehsildar's office for 30 days.	<b>Complied by GPCB.</b>
10	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 2006, including the amendments and rules made thereafter.	<b>Noted &amp; Agreed.</b>
11	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.	<b>Will be complied.</b> Stipulated clearances as applicable to the project shall be obtained before startup of operation in the expansion areas.



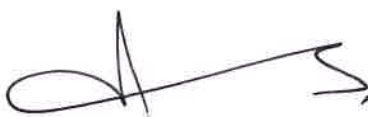


S.No.	Conditions	Compliance Status
12	The project proponent should advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance and copies of clearance letters are available with GPCB and may also seen at Website of the Ministry of Environment and Forests at <a href="http://www.envfor.nic.in">http://www.envfor.nic.in</a> . 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 Bhopal.	<b>Complied.</b> We have advertised the same in the local newspapers on 13/05/2014. The same has been communicated to the MoEF&CC, Bhopal on 22/07/2014 and the copy of the same submitted vide our EC compliance report dated: 29/06/2015.
13	This clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.	<b>Noted.</b>
14	Any appeal against this Environmental Clearance shall lie with the National Environment Appellate Authority, if preferred, within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997	<b>Noted.</b> There was no complaint for this Environment Clearance within the stipulated time.
15	Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.	<b>Agreed.</b>
16	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	<b>Complied.</b>
17	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	<b>Agreed.</b>



S.No.	Conditions	Compliance Status
	Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	
18	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	<b>Noted and being complied.</b> Half yearly compliance status of conditions given in EC along with the monitoring data of environmental parameters are regularly being submitted to the RO, GPCB, Surat and to the RO, MoEF&CC, Bhopal.
19	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	<b>Noted and being complied.</b> Copy of Environment Statement (Form-V) is regularly being submitted to the Regional Office of Gujarat Pollution Control Board (GPCB) and also uploaded on company's website. Copy of same has also being marked to the Regional Office of the MoEF&CC, Bhopal on regular basis.

For **ESSAR Bulk Terminal Limited**



Captain S. Das  
Chief Executive Officer

