

## COMPLIANCE REPORT OF CRZ CLEARANCE

Ref: Ministry of Environment, Forest &amp; Climate Change F.No. 11-34/2016-IA-III dated 10 July, 2017

| S.No. | CRZ Clearance (MoEFCC) Conditions   | Compliance (June 2022)   |
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| 1     | This has reference to your proposal No. IA/GJ/MIS/59359/2016 dated 30.09.2016 received in this Ministry for CRZ Clearance in accordance with the provisions of the Coastal Regulation Zone (CRZ) Notification, 2011 issued under the Environment (Protection) Act, 1986   | Noted.   |
| 2     | The proposal has been considered by the Expert Appraisal Committee (EAC)- Infrastructure Development, Coastal Regulation Zone, Building/ Construction and Miscellaneous projects, in its 165 <sup>th</sup> and 170 <sup>th</sup> meetings held during January 16-17, 2017 and May 11, 2017 respectively. The details of the project, as per the documents submitted by you and as informed during the aforesaid meetings of the EAC are noted as under:                       | Noted.   |
| (i)   | The project involves laying of treated effluent disposal pipeline from their plant to final disposal point in the Gulf of Kutch at Mithapur in Gujarat, in lieu of the existing system of conveyance through open channel disposal of treated waste water discharge. The proposed project involves installation of trestle mounted pipelines and diffuser system to marine outfall point suggested by NIO, which shall be beyond Marine Sanctuary and its Eco-sensitive zone. | Noted.   |
| (ii)  | The total length of proposed treated waste water disposal pipeline corridor is 3756 m. The length of pipeline in Non CRZ area is 318.75 m and the length of pipeline in CRZ area is 3437.25 m.  | Noted.   |
| (iii) | Waste water generation, treatment and disposal: Treated waste water of 240,000 KLD will be disposed off through the proposed system.  | Noted.   |
| (iv)  | Municipal solid waste generated disposal facility: There will not be municipal solid waste generation due to this improvement proposal.   | Noted.   |
| (v)   | Power requirement and source: Power requirement: 2x 1250 KW (1 Working + 1 Standby Pump), 3.3 KV, which will be sourced TCL captive supply.   | Noted. In addition to this one pump will be having diesel driven engine/ DG Set which will be operated in case of power failure. |
| (vi)  | Investment/Cost of the project: Rs. 229 crores  | Noted.   |
| (vii) | Wildlife issues: Yes, The proposed pipeline corridor in parts would pass through Marine Sanctuary   | Noted.   |

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| (viii) | The project lies within 10 kms of an Eco Sensitive Zone area   | Noted.  |
| (ix)   | Details of Forest land: About 11.268 Ha of mangrove forests will be involved. This extent of an area has also been declared a mangrove forest as per Draft Notification No. GVN/1999(8)/JJM/1692/1652/K. Settlement order No. K/FSO/T-3/1548/2013-14 of FSO, Junagarh, dated 11/05/2013, which are yet to be finalized by Government of Gujarat. | As per the wildlife conservation plan prepared by NABET accredited, functional area expert, Ecology and Biodiversity, Baseline status of vegetation suggests that the intertidal area, through which the pipeline route is proposed, has short and sparse mangroves. The existing mangroves are sparse and short due to compacted substratum in the intertidal area. The length of the sparse intertidal mangrove is about 100 m on the route of the proposed pipeline. The proposed width of pipeline corridor is 45 m. Therefore, the total mangrove area that may be affected would be barely 0.45 ha. Pipeline will be laid on trestle to minimize the impact on local ecology. Hence, the expected impact on mangroves in particular would be temporary and it is likely that the mangroves would settle again after laying of pipeline over the intertidal zone is completed. It may please be noted that the referred report was submitted to the GCZMA along the application for the CRZ clearance. |
| (x)    | Approval for the proposed project by the NBWL has been recommended in the 39 <sup>th</sup> meeting dated 23 <sup>rd</sup> August, 2016.  | Wildlife approval is obtained vide Gujarat Govt. letter No. WLP/32/B/1813-18/2017-18 dated 01.06.2017   |
| (xi)   | CRZ demarcation has been conducted by Institute of Remote Sensing (IRS), Anna University, Chennai  | Noted.  |
| (xii)  | SCZMA Recommendations: Gujarat Coastal Zone Management Authority has recommended the proposal from CRZ perspective vide its letter dated 28.06.2016  | Noted.  |

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| 3                                 | The proposal has been recommended for CRZ Clearance by the Expert Appraisal Committee (EAC) in the Ministry for Infrastructure Development, Coastal Regulation Zone, Building/ Construction and Miscellaneous projects, in its 170 <sup>th</sup> meeting held during May 11, 2017. Based on the information submitted by you as at para no.2 above and others and information made during the presentation before the EAC, the Ministry of Environment, Forest and Climate Change hereby accords CRZ clearance to the above project viz 'Pipeline and Diffuser system for Disposal of Treated Waste water at Marine outfall point at District Devbhumi Dwarka, Gujarat' under the provisions of the CRZ Notification, 2011 and amendments thereto and circulars issued thereon, and subject to the compliance of the following specific and general conditions as under: | Noted.   |
| <b>PART A SPECIFIC CONDITIONS</b> |  |  |
| (i)                               | All conditions/recommendations stipulated by the Gujarat Coastal Zone Management Authority (GCZMA) vide its letter no ENV-10-2016-74-E (T Cell), dated 28.06.2016 shall strictly be complied with.   | Noted. Conditions / recommendations stipulated by the Gujarat Coastal Zone Management Authority (GCZMA) shall be complied with.<br>Report for Mangrove plantation (August-September' 2018) submitted to the Ministry.  |
| (ii)                              | The clearance is subject to obtaining prior approval of the standing Committee of the National Board of Wildlife, under Wildlife (protection) Act, 1972, before commencement of work.  | Complied. Wildlife Clearance has been obtained vide Gujarat Govt. letter No. WLP/32/B/1813-18/2017-18 dated 01.06.2017.  |
| (iii)                             | The clearance is also subject to obtaining prior approval for diversion of forest land (mangrove) as may be applicable, under Forests (Conservation) Act, 1980, before commencement of work.   | Complied. Forest Clearance (Stage-1) has been obtained vide MoEF&CC, Bhopal File no. 6-GJC 071/2018-BHO/178 dated 22.02.2019.  |
| (iv)                              | A 2% of the cost of the project shall be apportioned for marine and coastal biodiversity protection and conservation measures, to be spent by the project proponent towards fulfilling its Corporate Environmental Responsibility (CER) during the currency of the project. Proper record and account of measures taken should be maintained and should also be submitted to the CZMA every six months.  | TCL has deposited Rs. 11.45 Crore (5% of the project cost) to Account of Gujarat Marine National Park & Marine Sanctuary Conservation Society for habitat improvement and Wildlife conservation as per the condition no. 4 of Wildlife Clearance (Gujarat Govt. letter No. WLP/32/B/1813-18/2017-18 dated 01.06.2017). |
| (v)                               | Consent to Establish' shall be obtained from State Pollution Control Board under the Air (prevention and Control of Pollution) Act, 1981 and the Water (prevention and Control of pollution) Act, 1974.  | Complied. Consent to Establish has been obtained vide CTE-Amendment Order No. 70701 dated 01.10.2015. Extension and amendment of CTE-107843 dated 02.06.20.  |

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| (vi)   | The construction in CRZ areas shall strictly in accordance with the provisions of CRZ Notification, 2011 and as amended from time to time.   | Noted. It will be ascertained that the construction in CRZ areas is strictly in accordance with the provisions of CRZ Notification, 2011/2019 and as amended from time to time.   |
| (vii)  | There shall be no dressing or alteration of the sand dunes, natural features including landscape changes for beatification, recreation and other such purpose.   | Noted. There are no sand dunes along the proposed pipeline corridor. It is assured that no alteration in natural features including landscape changes for beautification, recreation and other such purpose will be undertaken.   |
| (viii) | All waste (liquid and solid) arising from the proposed development will be disposed off as per the norms prescribed by State Pollution Control Board. There shall not be any disposal of untreated effluent in to the sea/coastal water bodies.  | Noted. All waste (liquid and solid) will be disposed off as per the norms of the Gujarat Pollution Control Board and untreated effluent will not be released in to the sea / coastal water bodies.  |
| (ix)   | Installation of the Sewage Treatment Plant should be certified by an independent expert and a report in this regard should be submitted to the Ministry before the project is commissioned for operation. Treated effluent emanating from STP shall be recycled/ reused to the maximum extent possible. Treatment of 100% grey water by decentralized treatment should be done. Discharge of unused treated effluent shall conform to the norms and standards of the State Pollution Control Board. Necessary measures should be made to mitigate the odour problem from STP.  | Complied. Sewage Treatment Plant is already in operation for treatment of all sewage generated from company's existing township. Treated sewage is mainly recycled and reused within company's township and surplus treated sewage is discharged into Arabian Sea as per prescribed norms. TCL has appointed M/s. Energy Projects Limited, an independent expert agency for operation and Maintenance (O&M). Performance report of STP has been submitted to the Ministry. The proposed treated waste water disposal project deals only with the industrial effluent. |
| (x)    | The project proponent shall ensure that no ground water drawal is carried out within CRZ areas without prior approval of the Central Ground Water Authority. It shall also be ensured that untreated wastewater is not discharged outside the project premises. Wastewater generated shall be treated in STP and is reused for landscaping, flushing and HVAC cooling purposes. The project proponent should also make alternate arrangement for situation arising due to malfunctioning of STP. There shall be regular monitoring of the results of standard parameters of the effluent discharged from STP under intimation to the SPCB. | Noted. TCL assures that ground water will not be withdrawn within CRZ areas. Untreated wastewater will not be discharged outside the project premises. As explained under Para (ix) above domestic wastewater generated in the township is mainly recycled and reused within company's township and surplus treated sewage is discharged into the Arabian Sea as per prescribed norms. Regular monitoring of treated sewage is conducted by the environmental laboratory of expert agency appointed for operation and maintenance of STP.                             |

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| (xi)   | Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.  | This project is to upgrade existing effluent discharge system by disposal of treated waste water into deep sea through pipeline and diffuser system.<br>Soil and ground water samples will be tested 10 km buffer zone of project area for heavy metals and other toxic contaminants.   |
| (xii)  | Disposal of muck during Construction phase should not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects people, only approved sites with the approval of competent authority.   | Noted. The waste generated during the construction phase will be disposed following the applicable regulations and with the approval of the competent authority.  |
| (xiii) | Any hazardous waste generated during construction phase, should be disposed off as per Hazardous and Other wastes (Management and Transboundary Movement) Rules, 2016.   | Noted. Hazardous waste generated if any, during the construction phase will be disposed as required under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.   |
| (xiv)  | Solid waste management shall be collected, treated and disposed in accordance with the Solid Waste Management Rules, 2016.   | Noted. Solid waste generated will be collected, treated if required and disposed in accordance with the Solid Waste Management Rules, 2016.   |
| (xv)   | As per of CSR activity, the project proponent shall identify schemes on need based assessment and implemented in select villages in the project area in consultation with the village Panchayat and the District Administration, Separate budget for community development activities and income generating programmes shall be earmarked. | As a responsible corporate, CSR is an ongoing activity of TCL. CSR activities are being conducted by NGO, Tata Chemicals Society for Rural Development (TCSRSD) setup by TCL. Government & other stakeholders are consulted regularly for implementation of the CSR projects which include income generation schemes particularly targeted towards weaker section of the society. |
| (xvi)  | The pipeline shall be laid on trestles to minimise impact on sea bed and aquatic life.   | Noted. Pipeline will laid on trestles designed suitably and executed to minimize negative impacts on seabed and marine life.  |
| (xvii) | Storage of raw material and camp with sanitation facilities for the construction labour shall be set up beyond sanctuary limits.   | Noted. It will be ensured that storage of raw material and camp with sanitation facilities for the construction labour will be set up beyond sanctuary limits.  |

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| (xviii) | Treated waste water conforming to GPCB norms shall only be discharged; it shall be ensure that regular monitoring results of the treated waste water discharge conducted by an independent agency shall be submitted to the GPCB and the regional office of Ministry.   | Company has already implemented effluent management system to achieve the norms prescribed by GPCB. Regular monitoring is also being conducted. This practice will continue after the project for disposal of treated waste water through pipeline is implemented and monitoring reports will be submitted to GPCB and the Regional office of the Ministry.  |
| (xix)   | As committed by the project proponent, a comprehensive survey of the wildlife and vegetation shall be carried out at every 5 year in buffer areas and shall be submitted to concerned authority.  | Noted. Comprehensive survey of wildlife and vegetation will be conducted every 5 years in buffer areas and reports will be submitted to the Regional Office of the Ministry and the Forest Department, Government of Gujarat. This study will be started after the project becomes operational.  |
| (xx)    | Mudflat restoration plan with specific focus on waders and other water birds of the affected region be developed and implemented through concerned authority.   | Treated Waste Water Pipelines system shall be laid on trestles to minimize impact on sea bed.<br>After completion of the treated waste water pipeline project, the corridor will be cleared of debris and left-over construction materials and restored to its original gradient. It may be noted that even at present a variety of aquatic birds use the area for feeding and roosting.   |
| (xxi)   | Baseline for Marine and coastal biodiversity of Poshitra Bay should be developed and monitored bi-annually with specific focus on sea grass beds, and endemic species <i>Sakuraeolis gujaratica</i> and <i>Anteaeolidiella poshitra</i> . The data shall be submitted to the regional office of the Ministry and the concerned agency in the State. | Baseline survey has been conducted by NIO and TCL submitted study report to the Ministry along with application for CRZ clearance. After commissioning the treated waste water disposal pipeline scheme, marine and coastal biodiversity of Poshitra Bay will be studied with specific focus on sea grass beds, and endemic species <i>Sakuraeolis gujaratica</i> and <i>Anteaeolidiella poshitra</i> . The reports will be submitted to the Regional Office of the Ministry and the Forest Department, Government of Gujarat. |
|         | <b>PART B GENERAL CONDITIONS</b>  |  |
| (i)     | Adequate provision for infrastructure facilities including water supply, fuel and sanitation must be ensured for construction workers during the construction phase of the project to avoid any damage to the environment.  | Infrastructure facilities including water, fuel and sanitation will be made available to the workers during the construction phase of the project  |

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| (ii)  | Full support shall be extended to the officer of this Ministry/Regional office by the project proponent during inspection of the project implementation by furnishing requisite documents/data sought and action taken reports in respect of mitigation measures and other environmental protection activities required to be implemented.                  | TCL will extend full support to the Officers of the Ministry / Regional Office during inspection of the project implementation and furnish requisite documents / data and action taken reports in respect of mitigation measures and other environmental protection activities, to them. |
| (iii) | The Ministry of Environment, Forest & Climate Change or any other competent authority may stipulate any additions or modify the existing ones, if necessary in the interest of environment and same shall be complied with.   | Noted.   |
| (iv)  | 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.   | Noted.   |
| (v)   | In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to the Ministry.  | In the event of a change in project profile or change in the implementation agency, TCL shall make a fresh reference to the Ministry.  |
| 4     | Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (protection) Act, 1986.   | Noted.   |
| 5     | The above stipulations would be enforced among other under the provisions of the 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, the EIA Notification, 2006 and the CRZ Notification, 2011.             | Noted.   |
| 6     | The Ministry reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner. | Noted.   |
| 7     | 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 proponent from the respective competent authorities.                        | Company has obtained approval under the Wildlife (Protection) Act, 1972 and In-Principle approval under the Forest Conservation Act, 1980.   |

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| 8  | The project proponents should 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 CRZ Clearance and copies of clearance letters are available with the State Pollution Control Board (SPCB) and may also be seen on the website of the Ministry of Environment, Forest and Climate Change at <a href="http://www.envfor.nic.in">http://www.envfor.nic.in</a> The advertisement should be made within Seven days from the date of receipt of the Clearance latter and a copy of the same should be forwarded to the concerned Regional Office of this Ministry. | Complied. Advertisement has been published as required and a copy of the same has been forwarded to Regional office of the Ministry vide TCL letter No. A/WG/0380-A/2017.   |
| 9  | This Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs Union of India in Writ petition (Civil) No.460 of 2004 as may be applicable to this project.  | Noted.  |
| 10 | Any appeal against this clearance shall lie with the National Green Tribunal, Western Zone, at Pune, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.  | Noted.  |
| 11 | 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.  | Complied. Copy of clearance letter has been submitted to Taluka Panchayat, Dwarka; Zilla Panchayat, Khambhaliya; and Nagarpalika, Okha vide TCL letters No. A/WG/380-B to D/2017 dated October 9, 2017. Copy of Clearance letter has also been uploaded on company's web-portal.  |
| 14 | The proponent shall upload the status of compliance of the stipulated 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&CC, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely SPM, RSPM, SO2 NOX (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.  | Noted. Status of compliance including results of monitoring are uploaded and updated in company's web-portal. Compliance reports are being simultaneously sent to the Regional Office of MoEF&CC, the Zonal Office of CPCB and the GPCB. The pollutant levels of PM, SO2 NOX and other relevant parameters are being regularly monitored and displayed near the main gate of the company. |
| 12 | 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 conditions and shall also be sent to the respective Regional Office of the Ministry by e-mail.   | Complied. Environment Statement is regularly submitted to GPCB and the Regional Office of the Ministry. This information is also available on the TCL's website.  |



