

**UT ADMINISTRATION OF DAMAN AND DIU &
DADRA AND NAGAR HAVELI
OFFICE OF THE CONSERVATOR OF FOREST
SECRETARIAT, SILVASSA**

E-120841

F. No: UTEIAA/DNH/2018/06/50

Dated: 18th December, 2019~~To,~~

Shri. Sagar S Thakkar,
Port Officer/Mamaltar,
Daman District,
Daman and Diu.

Subject : **Environmental Clearance for the "Dredging of Damanganga Estuary at Daman Port"** - reg.,

Ref : Your online proposal No: SIA/DD/MIS/29591/2018 dated 19th Oct, 2018.

Sir,

Kindly refer to application of "Port Officer, Daman" vide Proposal No. SIA/DD/MIS/29592/2018 dated 19th Oct, 2018, submitted to UTEIAA, Daman and Diu for Environmental Clearance on the project "*Dredging of Damanganga Estuary at Daman Port*" in terms of the provisions of the Environment Impact Assessment (EIA) Notification, 2006 under the Environment (Protection) Act, 1986.

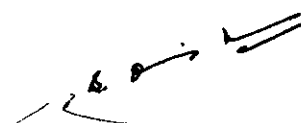
The proposal was considered by the UTEAC, Daman and Diu in its 3rd meeting held during 20th October, 2018 and 7th meeting held during 5th December, 2019. The project is of Dredging at Damanganga Estuary at Daman Port and UTEAC, DD recommended this Project with certain observations.

On 14th December, 2019, UTEIAA, DD in its 07th meeting, this Project Proposal was discussed in the presence of the Secretary (E&F), DD&DNH along with the compliance of the observations made by UTEAC, DD submitted by the Project Proponent. After detailed deliberations, UTEIAA, DD recommended for issuance of Environmental Clearance.

The dredging project includes the following:

- a. The project involves in dredging out inlet navigational mouth and within harbor creek to increase the depth upto 5m navigational route upto 6000m in Daman Port.
- b. The dredging at Damanganga Estuary will be done by any one of the following mentioned dredgers:
 1. Trailer Suction dredger
 2. Cutter Suction dredger
 3. Grab dredger


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4. Backhoe dredger
5. Hopper Barge (for assisting dredger to carry and dump dredged materials)
- c. The estimated dredging quantity is 1.32 Million Cube Metre.
- d. The dredged material of about 1.32 Million Cube Metre will be disposed at the disposal site selected to dump the dredged out material i.e., 2.02 KM away from the approach channel of Daman Port and does not interfere with the navigation.
- e. The used lubricants will be collected in water tight tanks and will be transferred to land base used lubricants storage tanks for disposal.
- f. There will be no use of Natural Resources for construction or operation of the Project (such as land, water, materials or energy, especially any resources which are non-renewable or in short supply).

Based on the information submitted by the Project Proponent and the recommendations of UTEAC, DD, the UTEIAA, DD hereby accords Environmental Clearance for the project "Dredging of Damanganga Estuary at Daman Port" to the Port Officer, Daman under the provisions of EIA Notification dated 14th September, 2006 subject to the compliance of the following conditions:

SPECIFIC CONDITIONS

1. The Project Proponent shall obtain necessary CRZ Clearance under the provisions of Coastal Regulation Zone Notification, 2019, before the commencement of the work.
2. The Project Proponent shall comply all the commitments made vide his letter No: Daman/Dredging/F-230/19-20/59 dated 13th December, 2019.
3. The Project Proponent shall carry out the monitoring and reports shall be submitted to the PCC, CPCB and Ministry's Regional Office at Bhopal.
4. The Mangrove Plantation and the implementation of the Marine Environment Management Plan shall be ensured as per the assurance provided by the Secretary (E&F), DD&DNH.
5. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
6. The Project Proponent shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.

GENERAL CONDITIONS

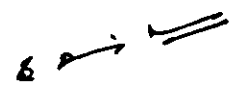
I. Air quality monitoring and preservation:

1. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM25 in reference to PM emission, and SOx and NOx in reference to SOx and NOx emissions) within and outside the project area at least at four locations, covering upwind and downwind directions.

2. Appropriate Air Pollution Control (APC) System shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed emission standards.
3. Shrouding shall be carried out in the work site enclosing the dock/proposed facility area. This will act as dust curtain as well achieving zero discharge from the site. The curtain or shroud will be immensely effective in restricting disturbance from wind in affecting the dry dock operations. Preventing waste dispersion, improving working conditions through provision of shade for the workers.
4. The Vessels shall comply the emission norms prescribed from time to time.
5. Diesel power generating sets proposed as source of power should be of enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The locations of the DG sets may be decided with in consultation with State Pollution Control Board.
6. A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 Kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitations being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

II. Water quality monitoring and preservation:

1. The project proponent shall ensure that no creeks or rivers are blocked due to any activities at the project site and free flow of water is maintained.
2. Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality. Silt curtains shall be used to contain the spreading of suspended during dredging within the dredging area.
3. No ships docking at the proposed project site will discharge its on-board waste water untreated in to the estuary/channel. All such wastewater load will be diverted to the proposed Effluent Treatment Plant of the project site.
4. Measures should be taken to contain, control and recover the accidental spills of fuel and cargo handle.
5. The project proponents will draw up and implement a plan for the management of temperature differences between take waters and discharge waters.
6. Spillage of fuel/ engine oil and lubricants from the construction site are a source of organic pollution which impacts marine life. This shall be



prevented by suitable precautions and also by providing necessary mechanisms to trap the spillage.

7. There shall be no withdrawal of groundwater and canal water as per the commitments provided by the Project Proponent.
8. No diversion of the natural course of the river shall be made without prior permission from the Ministry of Water resources.
9. All the erosion control measures shall be taken at water front facilities. Earth protection work shall be carried out to avoid erosion of soil from the shoreline/boundary line from the land area in to the marine water body.

III. Noise monitoring and prevention:

1. Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.
2. Noise from vehicles, power machinery and equipment on-site should not exceed the prescribed limit. Equipment should be regularly serviced. Attention should also be given to muffler maintenance and enclosure of noisy equipments.
3. Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.
4. The ambient noise levels should conform to the standard prescribed under EPA Rules, 1986 viz. 75 dB(A) during day time 70 dB(A) during night time.

IV. Waste Management measures

1. Dredged material shall be disposed safely in the designated areas as indicated in the project report.
2. Shoreline should not be disturbed due to dumping, Periodical study on shore line changes shall be conducted and mitigation carried out, if necessary. The details shall be submitted along with six monthly monitoring report.
3. The solid wastes, if any shall be managed and disposed as per the norms of the Solid Waste Management Rules, 2016.
4. Any waste from construction and demolition activities related thereto shall be managed so as to strictly conform to the Construction and Demolition Rules, 2016.
5. A certificate from the competent authority handling municipal solid wastes should be obtained, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project.
6. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.
7. Oil spill contingency plan shall be prepared and part of DMP to tackle emergencies. The equipment and recovery of oil from a spill would be assessed. Guidelines given in MARPOL and Shipping Acts for oil spill management would be followed. Mechanism for integration of terminals oil

contingency plan with the overall area contingency plan under the co-ordination of Coast should be covered.

V. *Marine Ecology*

1. Dredging shall not be carried out during the fish breeding and spawning seasons.
2. Dredging, etc shall be carried out in the confined manner to reduce the impacts on marine environment.
3. The dredging schedule shall be so planned that the turbidity developed is dispersed soon enough to prevent any stress on the fish population.
4. While carrying out dredging, an independent monitoring shall be carried out through a Government Agency/Institute to assess the impact and necessary measures shall be taken on priority basis if any adverse impact is observed.
5. A detailed marine biodiversity management plan shall be prepared through the NIOS or any other institute of repute on marine, brackish water ecology and biodiversity and submitted to and implemented to the satisfaction of the State Biodiversity Board and the CRZ authority. The report shall be based on a study of the impact of the project activities on the intertidal biotopes, corals and coral communities, molluses, sea grasses, sea weeds, sub-tidal habitats, fishes, other marine and aquatic micro, micro and mega flora and fauna including benthos, plankton, turtles, birds etc. as also the productivity. The data collection and impact assessment shall be as per standard survey methods and include underwater photography.
6. Marine ecology shall be monitored regularly also in term of sea weeds, sea grasses, mudflats, sand dunes, fisheries, echinoderms, shrimps, turtles, corals, coastal vegetation, mangroves and other marine biodiversity components including all micro, micro and mega flora and faunal components of marine biodiversity.
7. The project shall ensure that water traffic does not impact the aquatic wildlife sanctuaries that fall along the stretch of the river.

VI. *Public hearing and Human health issues*

1. The work space shall be maintained as per international standards for occupational health and safety with provision of fresh air respirators, blowers, and fans to prevent any accumulation and inhalation of undesirable of pollutants including VOCs.
2. Workers shall be strictly enforced to wear personal protective equipment like dust mask, ear muffs or ear plugs, whenever and wherever necessary/required. Special visco-elastic gloves will be used by labour exposed to hazards from vibration.
3. In case of repair of any old vessels excessive care shall be taken while handling Asbestos & Freon gas. Beside, full enclosed covering should be provided for the temporary storage of asbestos material at site before disposal to CTSDF.
4. Safety training shall be given to all workers specific to their work area and every worker and employee will be engaged in fire hazard awareness training

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and mock drill which will be conducted regularly. All standard safety and occupational hazard measure shall be implemented and monitored by the concerned officials to prevent the occurrence of untoward incidents/accident.

5. Emergency preparedness plan based on Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
6. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilet, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
7. Occupational health surveillance of the worker shall be done on a regular basis.

VII. Corporate Environment Responsibility.

1. The Project Proponent shall comply with the provisions contained in the Ministry's OM Vide F. No 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
2. The environmental policy checks and balance are to be ensured to focus any infringements/deviation/violation of the environmental norms/condition. The Project Proponent shall have defined system of reporting infringements/deviation/violation of the environmental norms/condition.
3. Action plan for implementing EMP and environmental conditions shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection may also be indicated.
4. The ear marked fund Measures should not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
5. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

VIII. Statutory Compliance:

1. Construction activity shall be carried out strictly according to the provision of CRZ Notification, 2019 and the UT Coastal Zone Management plan as drawn up by the UT Government. No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.
2. All the recommendations and conditions specified by UT Coastal Zone Management Authority for the project shall be complied with.
3. The project proponent shall obtain consent to Establish/ Operate under the provisions of Air (Prevention & Control of Pollution) Act. 1981 and the water (Prevention & Control of Pollution) Act, 1947 from the concerned UT Pollution Control Board/ Committee.

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4. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
5. All other statutory Clearances such as the approvals for storage of diesel from chief Controller of Explosives, Fire Department, Coast Guard, Civil Aviation Department shall be obtained, as applicable by project proponent from the respective competent authorities.

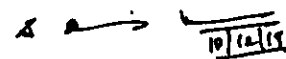
OTHER CONDITIONS

1. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State. Of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
2. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
3. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same of half-yearly basis.
4. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions of the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
5. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
6. The criteria pollutant levels namely: SPM, RSPM, SOx, Nox (ambient levels) 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.
7. The project proponent shall inform the State Authorities, Regional Office and the Ministry, the date of financial closure and final approval of the project by the concerned authorities.
8. The project authorities must strictly adhere to the stipulations made by the UT Pollution Control Board/Committee and the UT Government.
9. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during public Hearing and also that during their presentation to the Union Territory Expert Appraisal Committee (UTEAC), Daman and Diu.
10. No further expansion or modification in the plant shall be carried out without prior approval of UTEIAA(DD) / MoEF&CC.

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11. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
12. The UTEIAA(DD)/MoEF&CC may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
13. The UTEIAA(DD)/MoEF&CC reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
14. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data/information/monitoring reports.
15. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of pollution) Act, 1974, the Air (Prevention & Control of pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the public Liability Insurance Act, 1991 along with their amendment and Rules and any other orders passed by the Hon'ble Supreme Court of India/High Courts and any other Court of Law relating to the subject matter.
16. This Environmental Clearance is valid for a period of 5 years from the date of issue.
17. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the national Green Tribunal Act, 2010.

Yours sincerely,



(Dr. S. DINESH KANNAN)
 Conservator of Forest/
 Member Secretary (UTEIAA)
 DD&DNH

Copy to:

1. The Secretary (E&F)/Chairman, PCC, DD &DNH for favour of kind information please.
2. The Regional Office (WZ), MoEFCC, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road-3, Ravishankar Nagar, Bhopal-462016 for favour of Kind information please.
3. The Member Secretary, PCC, DNH for information.
4. The Member Secretary, PCC, Daman & Diu for information.
5. The Member Secretary, UTEAC (DD & DNH) for information.