



F.No.11-16/2015-IA.III

Government of India

Ministry of Environment, Forest & Climate Change
(IA.III Section)

Indira Paryavaran Bhawan,
Jor Bagh Road,
New Delhi - 3

Dated: 29th December, 2015

To

Andaman Lakshadweep Harbour Works,
I.D.A. Building, Jamnagar House,
New Delhi - 11

Sub: 'Extension and widening of the Jetty at Neil Island' (Andaman and Nicobar Islands) by Andaman Lakshadweep Harbour Works - Terms of Reference (ToR) - reg.

Sir,

This has reference to your application No. ALHW/DEL/5(6)/2015 dated 14.05.2015 submitted the above mentioned proposal to this Ministry for seeking Terms of Reference (ToR) in terms of the provisions of the Environment Impact Assessment (EIA) Notification, 2006 under the Environment (Protection) Act, 1986.

2. The proposal for '**Extension and widening of the Jetty at Neil Island' (Andaman and Nicobar Islands) by Andaman Lakshadweep Harbour Works**, was considered by the Expert Appraisal Committee (EAC) in the Ministry for Infrastructure Development, Coastal Regulation Zone, Building/ Construction and Miscellaneous projects, in its 150th meeting held on 29th - 31st July, 2015.

3. The details of the project, as per the documents submitted by the Project Proponents (PP), and also as informed during the above said EAC meeting, are reported to be as under:-

(i) The proposal involves "Extension and widening of the Jetty" at Neil Island (Andaman and Nicobar Islands) by Andaman Lakshadweep Harbour Works.

(ii) Neil Island is about 40 km from Port Blair, the capital city of Andaman & Nicobar Islands, adjacent to the Havelock Island. Neil Island has a jetty, constructed during eighties, capable of berthing smaller boats having draft of 2.5 m. The existing jetty is in use by smaller ferry vessels ferrying tourists and locals between Port Blair and Neil, however, berthing space is limited due to its small size and single side berthing.

(iii) Due to growth of tourism in Havelock and Neil Islands, passenger traffic has increased manifold leading to increased number of boats/ferries visiting the island daily and also bringing more cargo in, mainly consisting of items of daily needs. Managing with smaller boats is getting difficult. Due to small jetty and shallow natural depth alongside, berthing of any vessel of more than 2.5 m draft is not possible.

(iv) At two occasions, while berthing, even smaller passenger vessel got grounded during the low tide. To meet the growing demand of higher transportation capacity from Neil, wider and longer jetty with proper space for

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turning circle to handle bigger boats of 3.5 m is required. Therefore, A&N Administration decided to widen and extend the existing jetty at Neil Island and also undertake minor capital dredging in the immediate vicinity of the jetty to provide required turning space.

- (v) Following project components shall be completed in 24 months time:
- (a) solid approach (3.5 m Long and 5.5 wide) for connecting the extended portion of jetty with land;
 - (b) construction of RCC piled approach (276 m long and 5.5 m wide) founded on two rows of piles to widen the existing piled approach (280x5.5 m). Extension of RCC jetty (50.5m long and 14.5m wide) founded on RCC piles;
 - (c) capital dredging near berthing (from -2.5m to -3m) and turning circle (from -4m to -5m), generating 38000 cu m dredge material, which will be disposed off in deep see (about 1.5 km away from the dredging area).

(vi) The project developmental activities will require the movement and utilization of following amount of the materials:

- (a) Cement : 1782.05 MT
- (b) Steel : 962.00 MT
- (c) Stone aggregate : 6750.00 MT
- (d) River sand : 15.00 MT
- (e) Pulverised Stone Sand : 3375.00 MT
- (f) Fresh water : 5 Cu m/day

(vii) Environment: No change of land use, as it is an extension of the present activity. The site is well protected from waves and there is no chance of accretion or erosion.

(viii) Project does not involve any tree felling as entire project is planned below HTL. Sea sand shall not be used for the construction works.

(ix) **Investment/Cost:** The cost of the project is Rs.35 crore.

(x) There is no **court case** pending against the project.

(xi) The PP further informed that it is proposed to prepare EIA Report for this project as per Standard TOR for Port & Harbours. It is also proposed to undertake assessment of Sensitive Marine Flora and fauna, if any and impact on them, and assessment for heavy metals to confirm suitability of dredged material for sea disposal.

4. The proposal was considered by the EAC and recommended in its 150th meeting held on 29th - 31st July, 2015 for grant of scoping clearance. As per the recommendation of the EAC, the Ministry of Environment, Forest & Climate Change hereby accords ToR for the **'Extension and widening of the Jetty at Neil Island' (Andaman and Nicobar Islands) by Andaman Lakshadweep Harbour Works**, with the following specific and general conditions for preparation of the Environment Impact Assessment (EIA) Report and Environment Management Plan (EMP):

- (i) While preparing EIA report and implementing EMP, PP shall ensure that there is no navigation in the night and there is the round the clock deployment of marine patrol and marine monitoring to check any infiltration or damage to ecology.
- (ii) Reasons for selecting the site with details of alternate sites examined/rejected/selected on merit with comparative statement and reason/basis for selection. The examination should justify site suitability in terms of

- environmental angle, resources sustainability associated with selected site as compared to rejected sites. The analysis should include parameters considered along with weightage criteria for short-listing selected site.
- (iii) Details of the land use break-up for the proposed project. Details of land use around 10 km radius of the project site. Examine and submit detail of land use around 10 km radius of the project site and map of the project area and 10 km area from boundary of the proposed/existing project area, delineating project areas notified under the wild life (Protection) Act, 1972/critically polluted areas as identified by the CPCB from time to time/notified eco-sensitive areas/interstate boundaries and international boundaries. Analysis should be made based on latest satellite imagery for land use with raw images.
 - (iv) Submit the present land use and permission required for any conversion such as forest, agriculture etc. land acquisition status, rehabilitation of communities/ villages and present status of such activities.
 - (v) Examine and submit the water bodies including the seasonal ones within the corridor of impacts along with their status, volumetric capacity, quality likely impacts on them due to the project.
 - (vi) Submit a copy of the contour plan with slopes, drainage pattern of the site and surrounding area.
 - (vii) Submit the details of terrain, level with respect to MSL, filling required, source of filling materials and transportation details etc.
 - (viii) Examine road/rail connectivity to the project site and impact on the existing traffic network due to the proposed project/activities. A detailed traffic and transportation study should be made for existing and projected passenger and cargo traffic.
 - (ix) Submit details regarding R&R involved in the project.
 - (x) Submit a copy of layout superimposed on the HTL/LTL map demarcated by an authorized agency on 1:4000 scale along with the recommendation of the SCZMA.
 - (xi) Submit the status of shore line change at the project site.
 - (xii) Details of the layout plan including details of channel, breakwaters, dredging, disposal and reclamation.
 - (xiii) Details of handling of each cargo, storage, transport along with spillage control, dust preventive measures. In case of coal, mineral cargo, details of storage and closed conveyance, dust suppression and prevention filters.
 - (xiv) Submit the details of fishing activity and likely impacts on the fishing activity due to the project. Specific study on effects of construction activity and pile driving on marine life.
 - (xv) Details of oil spill contingency plan.
 - (xvi) Details of bathymetry study.

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- (xvii) Details of ship tranquillity study.
- (xviii) Examine the details of water requirement, impact on competitive user, treatment details, use of treated waste water. Prepare a water balance chart.
- (xix) Details of rainwater harvesting and utilization of rain water.
- (xx) Examine details of Solid waste generation treatment and its disposal.
- (xxi) Details of desalination plant and the study for outfall and intake.
- (xxii) Examine baseline environmental quality along with projected incremental load due to the proposed project/activities.
- (xxiii) The air quality monitoring should be carried out according to the notification issued on 16th November, 2009.
- (xxiv) Examine separately the details for construction and operation phases both for Environmental Management Plan and Environmental Monitoring Plan with cost and parameters.
- (xxv) Submit details of a comprehensive Risk Assessment and Disaster Management Plan including emergency evacuation during natural and man-made disasters.
- (xxvi) Submit details of the trees to be cut including their species and whether it also involves any protected or endangered species. Measures taken to reduce the number of the trees to be removed should be explained in detail. Submit the details of compensatory plantation. Explore the possibilities of relocating the existing trees.
- (xxvii) Examine the details of afforestation measures indicating land and financial outlay. Landscape plan, green belts and open spaces may be described. A thick green belt should be planned all around the nearest settlement to mitigate noise and vibrations. The identification of species/plants should be made based on the botanical studies.
- (xxviii) Any further clarification on carrying out the above studies including anticipated impacts due to the project and mitigative measure, project proponent can refer to the model ToR available on Ministry website "<http://moef.nic.in/Manual/Port and harbour>".

General Guidelines

- (i) The EIA document shall be printed on both sides, as far as possible.
- (ii) All documents should be properly indexed, page numbered.
- (iii) Period/date of data collection should be clearly indicated.
- (iv) Authenticated English translation of all material provided in Regional languages.
- (v) The letter/application for EC should quote the MoEF&CC File No. and also attach a copy of the letter prescribing the TOR.

- (vi) The copy of the letter received from the Ministry on the TOR prescribed for the project should be attached as an annexure to the final EIA-EMP Report.
- (vii) The final EIA-EMP report submitted to the Ministry must incorporate the issues in TOR and that raised in Public Hearing. The index of the final EIA-EMP report, must indicate the specific chapter and page no. of the EIA-EMP Report where the specific TOR prescribed by Ministry and the issue raised in the P.H. have been incorporated. Questionnaire related to the project (posted on MoEF&CC website) with all sections duly filled in shall also be submitted at the time of applying for EC.
- (viii) Grant of TOR does not mean grant of EC.
- (ix) Grant of TOR/EC to the present project does not mean grant of approvals in other regulations such as the Forest (Conservation) Act 1980 or the Wildlife (Protection) Act, 1972.
- (x) Grant of EC is also subject to Circulars issued under the EIA Notification 2006, which are available on the MoEF&CC website: www.envfor.nic.in.
- (xi) The status of accreditation of the EIA consultant with NABET/QCI shall be specifically mentioned. The consultant shall certify that his accreditation is for the sector for which this EIA is prepared.
- (xii) On the front page of EIA/EMP reports, the name of the consultant/consultancy firm along with their complete details including their accreditation, if any shall be indicated. The consultant while submitting the EIA/EMP report shall give an undertaking to the effect that the prescribed TORs (TOR proposed by the project proponent and additional TOR given by the MoEF) have been complied with and the data submitted is factually correct (Refer MoEF office memorandum dated 4th August, 2009).
- (xiii) While submitting the EIA/EMP reports, the name of the experts associated with/involved in the preparation of these reports and the laboratories through which the samples have been got analysed should be stated in the report. It shall clearly be indicated whether these laboratories are approved under the Environment (Protection) Act, 1986 and the rules made there under (Please refer MoEF office memorandum dated 4th August, 2009). The project leader of the EIA study shall also be mentioned.
- (xiv) All the TOR points as presented before the Expert Appraisal Committee (EAC) shall be covered.

5. A detailed draft EIA/EMP report should be prepared in terms of the above additional ToRs and should be submitted to the State Pollution Control Board for conduct of Public Hearing. Public Hearing to be conducted for the project in accordance with the provisions of Environmental Impact Assessment Notification, 2006 and the issues raised by the public should be addressed in the Environmental Management Plan. The Public Hearing should be conducted based on the ToR letter issued by the Ministry and not on the basis of Minutes of the Meeting available on the web-site.

6. The project proponent submit the detailed final EIA/EMP prepared as per ToRs including issues raised during Public Hearing to the Ministry for considering the proposal for environmental clearance within 3 years as per the MoEF&CC O.M. No.J-11013/41/2006-IA-II(I) (P) dated 08.10.2014.

7. The consultants involved in preparation of EIA/EMP report after accreditation with Quality Council of India/National Accreditation Board of Education and Training (QCI/NABET) would need to include a certificate in this regard in the EIA/EMP reports prepared by them and data provided by other Organization(s)/Laboratories including their status of approvals etc. vide notification of the MoEF dated 19.07.2013.

8. The prescribed ToRs would be valid for a period of three years for submission of the EIA/EMP Reports.

Sd/-
29/12/2015
(S.K. Srivastava)
Scientist E

Copy to:

The Member Secretary, Andaman and Nicobar Islands Pollution Control Committee, Van Sadan, Port Blair - 744 102

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प्रदूषित: - - -
Forwarded to: The Member Secretary, ANPCC, P/Blair.
दुप्लेक्स एवं आवश्यक कार्यवाही हेतु।
For information and necessary action.

Sd/-
E. E. (A.L.H.W.)