

ACTIVITY7(a)- AIRPORTS

STANDARD TERMS OF REFERENCE FOR CONDUCTING ENVIRONMENT IMPACT ASSESSMENT STUDY FOR AIRPORTS AND INFORMATION TO BE INCLUDED IN EIA/EMP REPORT

I. Project Details

- i. Importance and benefits of the project.
- 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. Examine and submit details of levels, quantity required for filling, source of filling material and transportation details etc. Submit details of a comprehensive Risk Assessment and Disaster Management Plan including emergency evacuation during natural and man-made disaster integrating with existing airport.
- iv. Details of man-power requirement (regular and contract).
- v. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
- vi. Submit Layout plans of proposed project indicating runway, terminal building, parking, greenbelt area, utilities etc.

II. Road and Traffic

- vii. 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.
- viii. An assessment of the cumulative impact of all development and increased inhabitation being carried out or proposed to be carried out by the project or other agencies in the core area, shall be made for traffic densities and parking capabilities in a 05 kms radius from the site. A detailed traffic management and a traffic decongestion plan drawn up through an organization of repute and specializing in Transport Planning shall be submitted with the EIA. The Plan to be implemented to the satisfaction of the State Urban Development and Transport Departments shall also include the consent of all the concerned implementing agencies.

III. Land Environment

- ix. 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/inter-state boundaries and international boundaries. Analysis should be made based on latest satellite imagery for land use with raw images.
- x. 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. Check on flood plain of any river.
- xi. The details of excavations, its impacts and the impact of transport of excavated material. A detailed management plan shall be included in compliance with C&D Waste Management Rule, 2016.

IV. Drainage

- xii. Submit a copy of the contour plan with slopes, drainage pattern of the site and surrounding area, any obstruction of the same by the airport.

V. Water Environment

- xiii. 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. Submit CRZ map in case the proposed site falls in CRZ region.

VI. Land acquisition and R&R

- xiv. Submit the present land use and permission required for any conversion such as forest, agriculture etc.
- xv. Submit details regarding R&R involved in the project.
- xvi. Submit details of environmentally sensitive places, land acquisition status, rehabilitation of communities/ villages and present status of such activities.
- xvii. Examine baseline environmental quality along with projected incremental load due to the proposed project/activities.

VII. Water Management

- xviii. Examine the details of water requirement, use of treated waste water and prepare a water balance chart. Source of water vis-à-vis waste water to be generated along with treatment facilities to be proposed.
- xix. Rain water harvesting proposals should be made with due safeguards for ground water quality. Maximize recycling of water and utilization of rain water.

VIII. Waste Management

- xx. Examine details of Solid waste generation (including de-plane waste and hazardous waste) treatment and its disposal.
- xxi. The impacts of demolition and the activities related thereto shall be examined and a management plan shall be prepared to conform to the C&D Waste Management Rules.

IX. Energy Management

- xxii. Requirement of power, with source of supply, status of approval.
- xxiii. Details shall be provided regarding the solar generation proposed and the extent of substitution, along with compliance to the ECBC rules.
- xxiv. A note on appropriate process and materials to be used to encourage reduction in carbon foot print. Optimize use of energy systems in buildings that should maintain a specified indoor environment conducive to the functional requirements of the building by following mandatory compliance measures (for all applicable buildings) as recommended in the Energy Conservation Building Code (ECBC) 2017 of the Bureau of Energy Efficiency, Government of India. The energy system includes air conditioning systems, indoor lighting systems, water heaters, air heaters and air circulation devices.

X. Environmental Monitoring and Management

- xxv. Examine separately the details for construction and operation phases both for Environmental Management Plan and Environmental Monitoring Plan with cost and parameters.
- xxvi. Examine baseline environmental quality along with projected incremental load due to the proposed project/activities.
- xxvii. The air quality monitoring should be carried out as per the notification issued on 16th November, 2009.
- xxviii. A detailed draft EIA/EMP report should be prepared in accordance with the above additional TOR and should be submitted to the Ministry in accordance with the Notification.

xxix. Air quality modelling and noise modelling shall be carried out for the emissions from the various types of aircrafts.

xxx. Possible carbon footprint contribution from each activities and mitigation measures proposed shall be included as part of Environment Management Plan.

XI. Disaster Management Plan

xxxi. Submit details of a comprehensive Disaster Management Plan including emergency evacuation during natural and man-made disaster.

XII. Socioeconomic Environment

xxxii. Examine the impact of proposed project on the nearest settlements.

xxxiii. Submit details of corporate social responsibilities (CSR).

xxxiv. Public hearing to be conducted for the project in accordance with 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.

XIII. Forest

xxxv. 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.

xxxvi. Submit status of permission to be obtained from concerned local authorities for the proposed tree cutting/pruning/transplantation.

xxxvii. 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.

XIV. Court Cases

xxxviii. Details of litigation pending against the project, if any, with direction/order passed by any Court of Law against the Project should be given.

XV. Miscellaneous

xxxix. 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/Airport>".