

No.10-140/2007-IA-III
Government of India
Ministry of Environment & Forests
(IA-III Division)

Paryavaran Bhawan,
C.G.O. Complex, Lodi Road,
New Delhi – 110 003

Dated the 25th August, 2008

Sub: Expansion of Phase-I of the Chennai International Airport by Airports Authority of India (AAI) – Environmental clearance - regarding.

Reference is invited to the letters dated No.AAI/516/.8/07/2554, dated 29.11.2007, dated 19.12.2007, No.AAI/EIA/07-08/104/2106, dated 11.7.2008, No.Engg/CW/353/1101/2006-07, dated 14.7.2008 Airports Authority of India and letters No.Nil, dated 11.7.2008 and No.AAI/EIA/07-08/104, dated 5.8.2008 on the subject mentioned above. Subsequently, letter No.AAI/EIA/07-08/114, dated 12.8.2008 from M/s Airports Authority of India has also been taken into consideration.

2. The Phase-I of the project is for expansion of the Chennai International Airport. The area required/existing for the project is as follows:-

| S.No. | Description | Building Footprint | Built up area | |
|-------|------------------------|-----------------------------|-----------------------------|-------------------------------|
| | | | Existing | Expansion |
| 1 | DOMESTIC TERMINAL | 17,050 m ² | 19,250 m ² | 68,900 m ² |
| 2 | INTERNATIONAL TERMINAL | 12,991 m ² | 42,300 m ² | 58,600 m ² |
| | TOTAL | 30,041 m² | 61,550 m² | 1,28,500 m² |

3. The additional land requirement is 131 acres. This land has been handed over by the Tamil Nadu Government to the AAI for the extension of cross run-way on 28.7.2008. Total requirement of water is 4500 cu m/day but AAI have optimized the same by recycling the water through Effluent Treatment Plant and Sewage Treatment Plant and reducing the raw water requirement to a minimum of 1800 cu m from 4500 cu m. Therefore, it would have a negligible impact on the competitive use in over all development and progress of a city like Chennai. The above water source will be Municipal water, bore-wells apart from recycled water. It was indicated by AAI that the Bridge with a span of 200 metres x 415 metres and structural grid of 20 metres x 10 metres on a RCC column of 1.2 m dia and 1.4 m high above the high flood line will be constructed on the Adyar River. Further, there are check dams at Manapakkam along the Adyar River. The Check dam is around 130 metre in length with a maximum discharge of 1104 cum/sec. Further, the Airport is (+) 9.75 metres gradient from high flood level the Adyar River. Car parking for 3,600 cars has also been proposed. Rainwater harvesting will be adopted to harvest about 70,000 metre cu of rain water yearly. The facilities include rainwater down take pipes, catch basins, storm water man holes/canals, sumps, etc. The Expected cost of the project is around Rs.1808 crores.

4. Public Hearing was conducted on 11.6.2008 as per Environment Impact Assessment Notification, 2006. The Public Hearing was conducted at Meenambakkam village, Kancheepuram District. Main issues raised in the public hearing were land acquisition, flooding of Adyar River due to the proposed expansion, noise pollution, water recycling, rainwater harvesting, solid waste management and connectivity to the airport.

5. The proposal was considered by Expert Committee on two occasions in its meeting held on 27th & 28th December, 2007 and 30th & 31st July, 2008. The Expert Appraisal Committee after considering

in detail all the environmental issues relating to the project including each of the issues raised in the public hearing held on 11.6.2008 agreed to recommend the project under Environment Impact Assessment Notification, 2006. Accordingly, environmental clearance is hereby accorded under the Environment Impact Assessment Notification, 2006 to Phase-I subject to effective implementation of the following conditions and environmental safeguards:-

A. Specific conditions:

- (i) The Airports Authority of India shall implement all the measures and commitments that have been provided by them in the clarification letter dated 12.8.2008 to the Ministry.
- (ii) All the issues raised in the public hearing held on 11.6.2008 shall be strictly implemented.
- (iii) Only 131 acres of additional land shall be acquired for the project.
- (iv) The project proponent shall ensure that the entire sewage/effluents generated from the airport including the existing terminal shall be treated and discharged as per the norms laid down by Tamil Nadu State Pollution Control Board. A detailed plan with regard to the treatment facilities, capacities of the Effluent Treatment Plant and Sewage Treatment Plant shall be submitted to the Ministry within three months from the date of receipt of this letter.
- (v) The noise level surrounding to runway within 300m periphery shall be 70dB and at 636m away shall be optimized to 50dB.
- (vi) Appropriate acoustic panels or other measures including installing diffuser in the main run way shall be provided to mitigate the noise levels especially along the interface with surrounding habitations. The monitoring of noise level in and around the airport must be regularly conducted and data furnished to the Authorities including State Pollution Control Board.
- (vii) All recommendations listed in the Disaster Management Plan report shall be implemented.
- (viii) The terminal building shall be designed taking into account the National Building Code guidelines and local heritage values.
- (ix) The project proponent shall provide a copy of the approval letter from the local Municipal Authorities for supplying the drinking water. The usage water and municipal water may be furnished to this Ministry within three months from the date of receipt of this letter.
- (x) No additional groundwater shall be tapped to meet the water requirement of the project.
- (xi) A detailed plan shall be worked out for proper disposal of solid waste generated in the airport and implemented. The project proponent shall ensure that the solid waste generated from various sources within the airport complex shall be disposed of as per norms laid down by the central and state agency.
- (xii) On-site emergency plan including fire fighting measures shall be fully in place.
- (xiii) The project proponent shall install adequate measures to harvest rainwater system to meet atleast partial water requirement of the airport.
- (xiv) The quarry material required for construction of the project shall be brought from approved quarries.
- (xv) The funds earmarked for environment protection measures shall maintained in a separate account and there shall be no diversion of these funds for any other purpose. A year-wise expenditure on environmental safeguards shall be reported to this Ministry.
- (xvi) All necessary clearances as applicable for the project shall be obtained from the concerned agencies.

B. General Conditions:

- (i) Construction of the proposed structure shall be undertaken meticulously conforming to the existing Central/local rules. All the construction designs/drawings relating to the proposed construction activities must have approvals of the concerned State Government Departments/Agencies.
- (ii) A well-equipped laboratory with suitable instruments to monitor the quality of air and water shall be set up. The quality of ambient air and water shall be monitored periodically in all seasons and the results shall be properly maintained for inspection of the concerned pollution control agencies. The periodic monitoring reports at least once in 6 months must be sent to this Ministry (Regional Office at Bangalore) and State Pollution Control Board.
- (iii) Adequate provisions for infrastructure facilities such as water supply, fuel for cooking, sanitation etc., must be provided for the laborers during the construction period to avoid damage to the environment. It shall also be ensured that the construction workers do not cut trees including mangroves for fuel wood purpose.
- (iv) To prevent discharge of sewage and other liquid wastes into the water bodies, adequate system for collection and treatment of the wastes must be provided.
- (v) The project authorities shall take appropriate community development and welfare measures for the villagers in the vicinity of the project site, including drinking water facilities. A separate fund shall be allocated for this purpose.
- (vi) The quarrying material required for the construction purpose shall be obtained only from the approval quarries/borrow areas. Adequate safeguard measures shall be taken to ensure that the overburden and rocks at the quarry site do not find their way into water bodies.
- (vii) For employing unskilled, semi-skilled and skilled workers for the project, preference shall be given to local people.
- (viii) The recommendations made in the Environment Management Plan and Disaster Management Plan, as contained in the Environmental Impact Assessment and Risk Analysis Reports of the project shall be effectively implemented.
- (ix) A separate Environment Management Cell with suitably qualified staff to carry out various environment related functions shall be set up under the charge of a Senior Executive who will report directly to the Chief Executive of the Company.
- (x) The project affected people, if any shall be properly compensated and rehabilitated.
- (xi) The funds earmarked for environment protection measures shall maintained in a separate account and there shall be no diversion of these funds for any other purpose. A year-wise expenditure on environmental safeguards shall be reported to this Ministry.
- (xii) Full support shall be extended to the officers of this Ministry's Regional Office at Bangalore and the officers of the Central and State Pollution Control Boards by the project proponents during their inspection of monitoring purposes, by furnishing full details and action plans including the action taken reports in respect of mitigative measures and other environmental protection activities.
- (xiii) In case of deviation or alteration in the project including the implementing agency, a fresh reference shall be made to this Ministry for modification on the clearance conditions or imposition of new ones for ensuring environmental protection. The project proponents shall be responsible for implementing the suggested safeguard measures.
- (xiv) The Ministry reserves the right to revoke this clearance, if any of the conditions subsequently, if deemed necessary, for environmental protection, which shall be complied with.

(xv) The Ministry or any other competent authority may stipulate any other additional conditions subsequently, if deemed necessary, for environmental protection, which shall be complied with.

(xvi) The project proponent shall 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 the State Pollution Control Committee and may also be seen at Website of the Ministry of Environment & Forests at <http://www.envformic.in>. The advertisement shall be made within 7 days from the date of issue of the clearance letter and a copy of the same shall be forwarded to the Regional Office of this Ministry at Bangalore.

(xvii) The Project proponents shall inform the Regional Office at Bangalore 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.

(xviii) 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.

6. The above-mentioned stipulations will be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Chemicals (Manufacture, Storage and Import) Rules, 1989.

Sd/-
(Dr. A. Senthil Vel)
Additional Director

To,
General Manager (Arch),
Airports Authority of India,
Operational Offices, Gurgaon Road,
New Delhi-110037.

Copy for information to:-

1. The Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office (Southern Zone) Kendriya Sadan, 4th Floor, E&F Wings, 17th Main Road, 1 Block, Koranmangla, Bangalore – 560034.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi – 110032.
3. The Secretary to Government, Environment and Forests (EC.3) Department, Government of Tamil Nadu, Secretariat, Chennai – 600 009.
4. The Chairman, Tamil Nadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai – 600 032.
5. M/s Creative Group, architects, Urban Planners and Interior Designers, M-59 Saket, New Delhi-110017.
6. DIG (SU), Regional Office Cell, Ministry of Environment & Forests, New Delhi.
7. Guard File.
8. Monitoring Cell.
9. Director (EI), Ministry of Environment & Forests, New Delhi.

Sd/-
(Dr. A. Senthil Vel)
Additional Director