

No.II-49/2007-JA-III
Government of India
Ministry of Environment and Forests
(IA-III Division)

Paryavaran Bhawan,
CGO Complex, Lodhi Road,
New Delhi - 110003.

Dated, the 28th January, 2008

Sub: Environmental clearance for the proposed Mumbai Sewage Disposal Project Stage-II priority works by the Municipal Corporation of Greater Mumbai - regarding.

This has reference to letter No.MCZMA2007/CR-6/TC-2, dated 7.11.2007 from the Maharashtra State Coastal Zone Management Authority and No.AMC/P/6417, dated 11.6.2007, No.AMC/P/7296, dated 26.7.2007 and No.Ch.Eng./MSDP/676-II, dated 7.12.2007 from Municipal Corporation of Greater Mumbai regarding the subject mentioned above. The project involves the following activities and the Coastal Regulation Zone area:-

Sr. No.	Project Components	Existing Facilities	Present Area (Ha)	Proposed Facilities	Area Required (Ha)	CRZ Status	Mangrove Affected Area	Remarks
A-1	Colaba WWTF	IPS, Preliminary Treatment, Outfall Length of 1 km	1.5	Primary Treatment, Secondary Treatment, EPS	2.00	CRZ ii	No	The existing facility is in existence prior to CRZ notification 1991. The area required for proposed facility is in possession of MCGM and is already developed and has all utilities like water, electricity, sewerage and internal roads.
2	Worli WWTF	IPS, Preliminary Treatment, EPS, Outfall length of 3.4 km	7.0	Primary Treatment, Secondary Treatment	10.00	CRZ II	No	The land is in possession of MCGM. Proposed facilities are in CRZ-II.
3	Bandra WWTF	Preliminary Treatment, EPS, Outfall	4.0	Primary Treatment, Secondary Treatment	4.00	CRZ II	No	The land is in possession of MCGM. Proposed facilities are in CRZ-II.
4	Bhandup WWTF	Preliminary Treatment, Aerated Single Stage Lagoon	26.0	Expansion of Preliminary Treatment, Primary Treatment, Secondary Treatment & Disposal channel	2.00	CRZ II	No	The land is in possession of MCGM. A small foot print ASP plant is proposed using the area of the existing lagoons itself, which falls under CRZ-II.
5	Chhatrapati Parvati WWTF	Preliminary Treatment, Aerated Single Stage Lagoon	28.0	Expansion of Preliminary Treatment, Primary Treatment	2.00	CRZ II	No	The land is in possession of MCGM. A small foot print ASP plant is proposed using the area of the existing lagoons itself, which falls under CRZ-II.

(36)
2 to read proceed accordingly
A.M.C. (P)

बृहन्मुंबई महानगर पालिका
उपआयुक्त (अभि.) यांचे कार्यालय

Ch-E(SP)

Off of the AMC (Project)
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				Secondary Treatment & Disposal channel				
6	Versova WWTF	Preliminary Treatment, Aerated Three Stage Lagoons	19.0	Expansion of Preliminary Treatment, Conversion to Two Stage Lagoons	0.00	CRZ II	No	The land is in possession of MCGM. Proposed facilities are in CRZ-II.
B-7	Conveyance System of Treated Sewage		Nil	EPS at Versova	0.50	CRZ I	Yes	The land is in possession of MCGM. Part of Conveyance System of treated effluent will be laid in CRZ-I(i).
			Nil	Transfer Tunnel from Versova EPS to Erangal Marine Outfall Shaft,	0.25	CRZ I	Yes	Part of the Conveyance System of treated in CRZ-I.
			Nil	EPS at Malad	2.00	CRZ I	Yes	The land is in possession of MCGM. Part of Conveyance System of treated effluent and is under CRZ-I(i).
			Nil	Transfer Tunnel from Malad EPS to Erangal Marine Outfall Shaft	0.25	CRZ I	Yes	Part of Conveyance System of treated effluent and is permissible activity under CRZ-I.
			Nil	Erangal Marine Outfall Shaft.	0.25	CRZ I	No	Part of Conveyance System of treated effluent and is under CRZ-I(i).
			Nil	Erangal Marine Outfall Tunnel	0.00	CRZ I	No	Part of Conveyance System of treated effluent and is permissible activity under CRZ-I(i).

2. The cost of the project is around Rs.1000 crores.

3. The proposal was considered by Expert Appraisal Committee at its meeting held on 19th - 21st July, 2007 has recommended.

4. This Ministry after examining the above proposal, hereby accords clearance under Coastal Regulation, Zone Notification, 1991 for the above project subject to the following conditions:-

- (i) No mangroves, sand dunes should be destroyed during implementation and operation of the project. Though, laying of conveying systems in the mangrove area are permissible, MCGM should obtain necessary approvals from the Hon'ble High Court in Writ Petition No.3246 of 2004 before initiating the project.

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- (v) The activities will be taken up in the Malad site which involved destruction of 21 ha of mangroves.
- (vi) No additional land area other than those indicated in the letter No.Ch.Eng./MSDP/676-II, dated 7.12.2007 from Municipal Corporation of Greater Mumbai for setting up of the above facilities should be acquired.
- (vii) It should be ensured that proper outfall system through underground pipelines/channel etc., is designed to ensure that the beaches are not polluted. There should no discharge on the breakwaters/Coastal Regulation Zone area.
- (viii) The sludge from the sewage disposal unit should be treated and disposed of in identified disposal sites with the permission of Maharashtra Pollution Control Board.
- (ix) MCGM should treat the effluent to tertiary level as far as possible so that the water can be reused for industrial activities and for other horticulture/landscaping. The details of the treatment and the supply of the treated water should be provided within 6 months from the date of receipt of this letter.
- (x) It should be ensured that the creeks which are already highly polluted will be cleaned up and the creeks will be dredged suitably to provide for free tidal flow of water.
- (xi) Environmental cell should be put in place to monitor the environmental quality of the treatment and discharge and the report submitted periodically to the Ministry's Regional Office at Bhopal.
- (xii) MCGM should take up studies with regard to the outfall system to ensure that there is proper mixing and dispersion of the discharge water within six months after commissioning of the plant so as to ensure that the coastal waters are not polluted.
- (xiii) MCGM will take up green belt plantation in the open area abutting the project within MCGM land area. Further, MCGM will identify suitable areas for mangrove afforestation in and around the project areas. A detailed plan in this regard shall be submitted to the Ministry within three months of issue of this letter.
- (xiv) All constructions should be taken up in accordance with the Coastal Regulation Zone Notification, 1991.
- (xv) The above facilities should not cause any hindrance to the movement of local communities.
- (xvi) Necessary clearances from Pollution Control Board should be obtained for the project.
- (xvii) No groundwater should be tapped for the project in Coastal Regulation Zone area.
- (xviii) Reclamation if any, shall be limited to the project area.
- (xix) In case of deviation or alteration in the project including the implementing agency, a fresh reference should be made to this Ministry for modification in the clearance conditions or imposition of new one for ensuring environmental protection. The project proponents should be responsible for implementing the suggested safeguard measures.
- (xx) This Ministry reserves the right to revoke this clearance, if any of the conditions stipulated are not complied with to the satisfaction of this Ministry.
- (xxi) In the event of the STPs not functioning as proposed/ breakdown of the STP the units will close down immediately and stop discharging the effluents.
- (xxii) The units and the STP will maintain daily log book of the quantity and quality of discharge from the units, quantity of inflow into the STP, details of the treatment at each stage of the STP including the raw materials used. All the above information shall be provided on-line of the website of MCGM. The website should be accessible to the public. The financial and energy details of the STP shall also be provided along with details of the workers of the STP on the website.

- (xx) The STP should have adequate power back up facility to meet the energy requirement in case of power failure from the grid.
- (xxi) The ground water at the site should also be monitored every quarter and information made available on the above web site.
- (xxii) All the above information should be complied and a report shall be submitted to MPCB and the regional office of MOEF at Bhopal.
- (xxiii) Periodic monitoring (once in 2 days) of the water at the discharge point should be carried out to ensure that the effluent discharged are within the norms laid down by the Maharashtra State Pollution Control Board. The above analysis report should be submitted to Maharashtra State Pollution Control Board for necessary action.
- (xxiv) Any change in alignment or expansion of the project should be taken up only after obtaining necessary approvals from the concerned agencies.
- (xxv) Six monthly status report including effluent quality data etc., must be submitted to Ministry's Regional Office at Bhopal.
- (xxvi) The project proponent should obtain the Forest clearance for the land passing through the Reserved forest area before commencement of the project activities in forest area.
- (xxvii) During construction as well as conveyance system maintained in order to avoid damage to the ecosystem. movement of vehicles in the Inter Tidal Zone shall be restricted to the minimum.

B. GENERAL CONDITIONS:

- (i) Construction of the proposed structures should be undertaken meticulously confirming to the existing Central/local rules and regulations. All the construction designs/drawings relating to the proposed construction activities must have approvals of the concerned State Government Department/Agencies.
- (ii) The project authorities should take appropriate community development and welfare measures for the villagers in the vicinity of the project site, including drinking water facilities. A separate fund should be allocated for this purpose.
- (iii) To meet any emergency situation, appropriate fire-fighting system should be installed. Appropriate arrangements for uninterrupted power supply to the environment protection equipment and continuous water supply for the fire-fighting system should be made.
- (iv) A separate Environment Management Cell with suitably qualified staff to carry out various environmental related functions should be set up under the charge of a Senior Executive who will report directly to the Chief Executive of the Company.
- (v) The funds earmarked for environment protection measures should be maintained in a separate account and there should be no diversion of these funds for any other purpose. A year-wise expenditure on environmental safeguards should be reported to this Ministry's Regional Office at Bhopal.
- (vi) Full support should be extended to the officers of this Ministry's Regional Office at Bhopal and the officers of the Central and State Pollution Control Board by the project proponents during their inspection for monitoring purposes, by furnishing full details and action plans including the action taken reports in respect of mitigation measures and other environmental protection activities.
- (vii) This Ministry reserves the right to revoke this clearance, if any of the conditions stipulated are not complied with to the satisfaction of this Ministry.
- (viii) This Ministry or any other competent authority may stipulate any other additional conditions subsequently if deemed necessary, for environmental protection, which shall be complied with.

Copy of the clearance letter shall be marked to the concerned Panchayat/local NGO, if any, from whom any suggestion/representation has been received while processing the proposal.

- (x) State Pollution Control Board/Committee should display a copy of the clearance letter at the District Industries Center and Collector's Office/ Tehsildar's Office for 30 days.
- (xi) The project proponent should 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 Maharashtra State Pollution Control Board and may also be seen at website of the Ministry of Environment & Forests at <http://www.envfor.nic.in>.
- (xii) The project proponents should inform Regional Office Bhopal 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 work.
- (xiii) Budgetary break up for Environmental Management Plan for the project to be mentioned.

5. 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, the Coastal Regulation Zone Notification, 1991 and its subsequent amendments and the Public Liability Insurance Act, 1991 and the Rules made thereunder from time to time. The project proponents should also ensure that the proposal complies with the provisions of the approved Coastal Zone Management Plan of Maharashtra and the Supreme Court's order dated 18th April, 1996 in the Writ Petition No.664 of 1993 to the extent the same are applicable to this proposal.

(Dr. A. Senthil Vel)
Additional Director

To,
Chairman,
Maharashtra State Coastal Zone Management Authority, &
Principal Secretary, Environment Department,
Mantralaya, Mumbai-400032.

Copy to:-

- Chief Conservator of Forests, Ministry of Environment and Forests, Regional Office, Western Region, "Kendriya Paryavaran Bhavan", Link Road No.3, Ravishankar Road, Bhopal-462016 (M.P.).
- The Member Secretary, Maharashtra State Coastal Zone Management Authority & Deputy Secretary, Mantralaya, New Administrative Building, 15th Floor, Madam Cama Marg, Mumbai - 400032.
- Municipal Commissioner, Municipal Corporation of Greater Mumbai, Mahapalika Marg, Mumbai-400001.
- The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum- Office Complex, East Arjun Nagar, Delhi-110032.
- Director (E), Ministry of Environment and Forests.
- The Regional Office Cell, MoEF.
- Guard File.
- Monitoring File.

(Dr. A. Senthil Vel)
Additional Director

मुंबई महानगरपालिका
अधिकार्यांचे कार्यालय,

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पर्यावरण प्रदूषण यांचे कार्यालय
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