

EC o/c EC
No.10-85/2008-IA-III
Government of India
Ministry of Environment & Forests
(IA-III Division)

Paryavaran Bhawan,
CGO Complex, Lodi Road,
New Delhi - 110 003.

Dated the 15th September, 2008

Sub: Environmental clearance for common hazardous waste treatment, storage and disposal facility at Village Kher, Pachipadra, Balotra, District Barmer, Rajasthan by M/s Rajasthan Waste Management Project – regarding.

Reference is invited to the letter No.RWMP/MoEF/08/0701, dated 1.7.2008 from the M/s Rajasthan Waste Management Project on the subject mentioned above.

2. The proposal is for setting up of common hazardous waste Treatment, Storage and Disposal Facility (TSDF) for common effluent treatment plant sludge industrial wastes in plot No.274/13 and 274/14, village Kher, Tahsil Pachpadra District, Barmer, Rajasthan. Capacity of proposed project is 24,000 TPA. Site is located at 25°52'85"N latitude and 72°10'90"E longitude. Area available is 55 acres and area proposed to be developed is 30.00 acres. Project proponent indicated that the hazardous waste would be collected from seven districts where about 58 units are located which generate hazardous waste about 12,220 tonnes per annum. But however, as per the survey 21,442 tons are being generated. Further, about 6,500 tons is the accumulated waste at various CETPs. The proposed capacity of the TSDF is around 24,000 TPA with a life span of 30 years and an area of landfill would be 13.68 acres. The landfill site is being developed for a volume of 6 lakh cu m waste with an area of 55,360 sq mts and the height of the landfill would be 25 mts with a life span of 30 years. The waste would be first segregated into biodegradable organics, non biodegradable organics, toxic metals and those having high calorific values. The non biodegradable and the waste having calorific values less than 2,500 Kcal/kg and without toxic substance would be directly landfilled but those wastes with toxic like metals would be first stabilized and then landfilled. The biodegradable and non biodegradable having calorific value more than 2,500 Kcal/kg shall be incinerated in an authorized incinerator. No incineration is involved for the project. A green belt of 11 acres would be developed. Water requirement for the project is 10 KLD which is source to be imported. The cost of the project is 7.73 crores. Public hearing has been carried out for the project on 29.5.2007.

3. The proposal was considered by Expert Committee on its meeting held on 21st and 22nd August, 2008 and has recommended. The environmental clearance is hereby accorded under Environmental Impact Assessment Notification, 2006 for the said project subject to the effective implementation of the following conditions:-

A. Specific Conditions:-

- (i) The leachate generated from the project site shall be collected and treated.
- (ii) Temporary cap to the landfill site shall be provided during monsoon period and the rainwater shall be diverted beyond the bunds. Captured leachate will be subjected to forced evaporation/solar evaporation.
- (iii) Capping of the landfill by placing composite liner on top of the waste comprising of thick clay line and synthetic geo-membrane for prevention of infiltration of rainfall into the landfill.
- (iv) Project proponent shall undertake activities relating to socio-economic development apart from providing employment etc. The activity shall include providing drinking water to the adjacent village and setting up of a primary health centre.

- (v) The proponent shall study the groundwater pattern in the area, soil characteristics at different depths and shall provide the details of the study to Ministry within 3 months from the date of receipt of this letter.
- (vi) The secured landfill site shall be in accordance with Rule 8 of the HW (M&H) Rules, 1989 as amended from time to time.
- (vii) The proponent shall not spray the leachate back on to the landfills.
- (viii) The proponent shall not treat the leachate by solar evaporation ponds. The proponent shall provide a full fledged multi effect evaporator of treatment of leachate.
- (ix) The proponent shall take all necessary measures in case of failure of the landfill facility or in the event of failure of the HDPE liner. It shall be ensured that no contamination takes place to the soil below. Necessary remediation measures shall be incorporated into the project.
- (x) A firm up details with regard to the TSDF capacity alongwith the layout plan and design shall be provided to the Ministry within 3 months from the date of receipt of this letter.
- (xi) There shall be no deviation in the design of the proposed SLF and will be in accordance with the guidelines of CPCB.
- (xii) The manual stabilization systems as given under Section 5.2.4 of the Environment Impact Assessment report will be replaced with mechanized system.
- (xiii) All necessary clearances from the concerned agencies shall be obtained before initiating the project.
- (xiv) No groundwater shall be tapped for project.
- (xv) The proponent shall ensure that the TSDF fulfills all the provisions of Hazardous Wastes (Management and Handling) Rules, 2003 and the design of landfill is as per the guidelines of CPCB with proper leachate collection arrangement.
- (xvi) The proponent shall ensure that the transportation of the Hazardous wastes to the TSDF conforms to the norms laid down in the Hazardous Wastes (Management and Handling) Rules, 2003.
- (xvii) The TSDF shall only handle the waste generated from the member units.
- (xviii) Forced evaporation shall be provided to treat the effluent / Leachate generated from the landfill.
- (xix) A leachate collection system shall be provided to collect the leachates at a collection point. Treatment facility for the collected leachate shall be provided. The treated water shall be reused as far as possible in the project.
- (xx) Project proponent shall obtain necessary Authorization / Consent from local Pollution Control Board.
- (xxi) The proponent shall obtain necessary clearance from the Ground Water Authority before initiating the project.
- (xxii) The depth of the land fill shall be decided based on the ground water level at the site.

- (xxiii) Project proponent shall ensure that wastes with organic content > 5% of degradable organic matters are not disposed in to the landfill. However, required arrangement for collection, treatment and disposal of gases from the Landfill if any, shall be provided.
- (xxiv) Project proponent shall prepare and implement an On Site Emergency Management Plan.
- (xxv) Project proponent shall carryout periodical ground water/soil monitoring in and around the site to check the contamination including TCLP test for heavy metals.
- (xxvi) Project proponent shall carryout periodical air quality monitoring in and around the site including VOC, HC.
- (xxvii) Project proponent shall develop green belt all along the periphery of the TSDF with plant species that are significant and used for the pollution abatement.
- (xxviii) Dense carpet of grass shall be maintained over the fertile soil to protect from erosion and to provide better aesthetics.
- (xxix) The project proponent shall not store the hazardous wastes more than the quantity that has been permitted by the CPCB/GPCB.
- (xxx) Adequate fire fighting facilities shall be installed to handle the fire arising from hazardous chemicals/wastes that are store/processed.

B. General Conditions:-

- (i) The project proponent shall set up necessary facility for on site testing of wastes to decide the requirement of treatment if any, before disposal.
- (ii) The project proponent shall set up separate environmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive.
- (iii) The project proponent shall carryout assessment on the functioning of the landfill site, through a third party. Constitution of such independent body shall be informed to the officers of this Ministry/Regional Office.
- (iv) The project proponent shall extend full support to the officers of this Ministry/Regional Office during inspection of the project for monitoring purposes by furnishing full details and action plan including action taken reports in respect of mitigation measures and other environmental protection activities.
- (v) A six-Monthly monitoring report shall need to be submitted by the project proponents to the Regional Office of this Ministry at Lucknow regarding the implementation of the stipulated conditions.
- (vi) The Ministry reserves the right to revoke this clearance if any of the conditions stipulated are not complied with the satisfaction of the Ministry.
- (vii) In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to the Ministry of Environment and Forests.
- (viii) The project proponents shall inform the Regional Office of this Ministry at Lucknow 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.


(ix) A copy of the clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom any suggestion/ representation has been made received while processing the proposal.

(x) The project proponent shall provide adequate safety facilities.


(xi) Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industries centre and Collector's Office / Tehsildar's office for 30 days.

(xii) 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. These stipulations would be enforced among others under the provisions of water (Prevention and Control of Pollution) Act, 1974 the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and Hazardous Wastes (Management and Handling) Rules, 2003 including the amendments and rules made thereafter.



(Dr. A. Senthil Vel)
Additional Director

To

 Vice President,
M/s Rajasthan Waste Management Project,
"Ramky House", 3-D-49, Gupteswarnagar,
Housing Board Colony, Sector-7, Near Bypass,
Panerionki Madri, Udaipur-313002.

Copy for information to:-

- (i) The Secretary, Ministry of Road Transport & Highways, Transport Bhavan, 1, Parliament Street, New Delhi - 110001.
- (ii) The Member Secretary, Rajasthan Pollution Control Board, 4, Institutional Area, Jhalana Doongari, Jaipur - 302004.
- (iii) The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum- Office Complex, East Arjun Nagar, Delhi - 110032.
- (iv) The Chief Conservator of Forests, Ministry of Environment & Forests, Regional Office (CZ), Kendriya Bhandar, 5th Floor, Sector-H, Aliganj, Lucknow - 226020.
- (v) Director (EI), Ministry of Environment & Forests.
- (vi) The Regional Office Cell, Ministry of Environment & Forests.
- (vii) Guard File.
- (viii) Monitoring File.


(Dr. A. Senthil Vel)
Additional Director