



भारत सरकार
 GOVERNMENT OF INDIA
 MINISTRY OF ENVIRONMENT & FORESTS

BY SPEED POST

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F. No. J-12011/27/2007-IA-1

Date: 25th November, 2011

To

The Executive Engineer
 Department of Water Resources
 Parwan Project Division
 Jhalawar
 Rajasthan

Subject: Parwan Major Irrigation cum Drinking Water Supply Project in Jhalawar District, Rajasthan by Department of Water Resources, Government of Rajasthan - Environmental Clearance regarding.

Sir,

This has reference to your letter No. 75-77 dated 16.7.2010 and subsequent letters dated 16.11.2010, 17.12.2010, 10.1.2011, 25.5.2011 and 11.8.2011 on the above subject.

2. It is noted that the proposed project envisages construction of 38 m high gravity dam (from foundation level) across Parwan river near Akawad Kalan Village in the District Jhalawar, Rajasthan. The gross storage capacity of the reservoir will be 490 Mcum at FRL out of which 302 MCM will be allocated for irrigation purposes and 50 MCM will be supplied for drinking purposes to 820 villages of Kota, Baran and Jhalawar Districts. Shergarh Wildlife Sanctuary is 5 km away from the project site. A pick-up weir already exists adjacent to the wildlife sanctuary and 16 Mcum water will be stored in this pick weir for the animals. The gross command area (GCA) is 1,54,787 ha and culturable command area (CCA) is 1,31,400 ha. Total land requirement is 12,247.79 ha out of which 9810 ha will be submerged. Out of the total submergence area, 1608.59 ha is forest land, 2034.85 ha is government land and 6166.50 ha is private land. Forty Seven (47) villages will be affected due to land acquisition, out of which 17 villages will be fully and 30 villages will be partially affected. A total of 2722 houses will be submerged and in total 3002 families will be affected, of which 461 families are tribal. The Ministry of Tribal Affairs has approved the R&R Plan for the affected tribal families. The total estimated cost of the project is about Rs. 11/14 Crores out of which Rs. 5.70 crores will be for implementation of EMP.

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3. The above referred proposal was considered by the Expert Appraisal Committee for River Valley & Hydroelectric Power Projects at its meetings held on 21.8.2010 and 20.12.2010. Public Hearing for the Project was held on 25.4.2010 at Baran and on 30.4.2010 at Jhalawar.

4. After appraising the Project Proposal from environmental angle, the Ministry of Environment and Forests hereby accords environmental clearance to the Project as per the provisions of Environmental Impact Assessment Notification, 2006 and its subsequent amendment 2009 subject to compliance of the following conditions:

Part A: Specific Conditions

- (i) The Catchment Area Treatment Plan, as proposed in the EIA/EMP shall be completed in four years as per the following schedule :

| Treatment Measures | I Year | II Year | III Year | IV Year | Total |
|--|--------|---------|----------|---------|--------|
| (A) Biological Measures | | | | | |
| Gap filling in the forest area (ha) | 1000 | 3000 | 3500 | 2500 | 10,000 |
| Pasture Development including fencing (ha) | 2000 | 5000 | 8000 | 6000 | 21,000 |
| Nursery Development (Nos.) | 2 | 6 | 2 | - | 10 |
| (B) Engineering Measures | | | | | |
| Field bunding including spill ways (sq.km) | 300 | 600 | 800 | 400 | 2100 |
| Earthen check dams (Nos.) | 1000 | 3000 | 4000 | 2000 | 10,000 |
| Loose stone check dams (Nos.) | 500 | 1500 | 2000 | 1000 | 5000 |
| Gully control structures (Nos.) | 200 | 600 | 800 | 400 | 2000 |
| Sub-soil barriers | 20 | 60 | 80 | 40 | 200 |

- (ii) The details of land holding of project affected persons whose land is being acquired shall be submitted to this Ministry. The Rehabilitation & Resettlement (R&R) benefits for the land losing households will be as per the National Rehabilitation and Resettlement Policy, 2007 (NRRP, 2007) or as per the State Rehabilitation and Resettlement Policy, whichever is higher. Adequate publicity of the compensation package shall be made in the affected villages.
- (iii) A Monitoring Committee for R&R should be constituted which must include representatives of project affected persons from SC/ ST category and a woman beneficiary too.

- (iv) All commitment made during the public hearings shall be fulfilled
- (v) Approval from the National Board for Wildlife (NBWL) shall be taken before starting any construction work on the project as Shergarh Wildlife Sanctuary is 5 km away from the project site. Prior approval of diversion of 1608.59 ha of forest land shall be taken under the Forests (Conservation) Act, 1980. No physical work shall be initiated in the site without Forests clearance for the project.
- (vi) Consolidation and compilation of the muck shall be carried-out only in the designated muck dumping sites, approved by the State Pollution Control Board. As per the proposed muck disposal plan, out of 12,14,670 m³ of muck generated, about 8,00,470 m³ will be reutilized for construction and other filling purposes and the remaining will be disposed off at the designated disposal sites, approved by the State Pollution Control Board. The muck disposal plan shall be strictly adhered to and muck disposal sites shall be restored as soon as they are filled and complete.
- (vii) Muck disposal sites shall be minimum 30 m away from the HFL of the river. In no circumstances, muck shall be allowed to spill away in the river.
- (viii) For solid waste management, it shall be ensured that the land taken for this purpose is not common land in use by the local people for grazing or any other activity. The land should also not be near any water source or part of the catchment area. Concrete retaining walls of appropriate specifications considering the probable floods in the river shall be constructed. It shall be ensured that no leachates from the disposal site go to the underground water.
- (ix) To support and sustain the aquatic life in the downstream of the river, a minimum of 20% of the average lean season flow of 90% dependable year of 4 consecutive leanest months shall be maintained as environmental flow from the dam.
- (x) Continuous monitoring system for environmental flow measurement shall be installed and data will be displaced at appropriate site for information of civil society and stake holders. Six monthly data shall be submitted to the concern Regional Office of the Ministry and SPCB.
- (xi) Fishery Conservation & Management Plan as proposed in the EMP and through letter no. 5237 dated 28.10.2010 submitted to the Ministry shall be implemented completely in consultation with the Fisheries Department, Government of Rajasthan. The proposed stocking density in

large reservoir for 4500 ha of area under scientific fish culture as well as establishment of fish farm in an area of 10-15 ha with Fishery Department shall be taken up strictly. A fish ladder shall be provided for migration of fish.

- (xii) Real time telemetry and data acquisition system including all weather hydro metrological stations shall be installed for in-flow monitoring and advance flood warning. Advance flood warning and advance communication system shall be installed in consultation with the downstream District Authorities.
- (xiii) Greenbelt development along the approach roads, residential areas, office complex, barrage site and other working areas shall be undertaken immediately. The allocated budget of Rs. 30 lakhs shall not be diverted to any other purpose.
- (xiv) A garden with local/native fruit/ornamental/medicinal plant species with the help of Forest Department shall be developed, as proposed in EIA/EMP report.
- (xv) The Biodiversity Conservation and Wildlife Management Plans, as proposed in the EMP shall be taken up immediately and implemented in consultation with State Forest Department without any diversion of allocated funds of Rs. 235 Lakhs. A report of implementation shall be included in the sixth monthly compliance report to be submitted to the Ministry.
- (xvi) About 1.5% of the total project cost shall be spent for the Local Area Development. Cost estimates for all other aspects as provided in EIA/EMP shall be adhered to.
- (xvii) The equipment likely to generate high noise levels during the construction period or otherwise shall meet the ambient noise standards as notified under the Noise Pollution (Regulation and Control) Rules, 2000, as amended in 2010 under the Environment Protection Act (EPA), 1986.
- (xviii) Conjunctive use of surface water shall be planned to check water logging as well as to increase productivity.
- (xix) Water User Association/s (WUAs)/ Co-operative shall be formed and involvement of the whole community for disciplined use of available waters shall be ensured.

- (xx) The On-Farm Development (OFD) works shall be completed and WUAs (Water Users Associations) shall be made functional before commencement of irrigation.
- (xxi) Occurrence of stagnant pools/slow moving water channels during construction and operation of the project which are breeding source for vector mosquitoes and other parasites shall be avoided. The river should be properly channelised so that no small pools and poodles are allowed to be formed. Even after taking precaution, if due to unforeseen situations breeding of mosquito and resultant malaria or vector borne diseases occur, it will be the responsibility of project authorities to take all necessary remedial steps like residual insecticidal spray in the project area and surrounding 3 km area, keeping the flight range of mosquitoes in consideration.
- (xxii) The use of drip and sprinkler irrigation systems shall be propagated.
- (xxiii) Disaster Management Plan shall be prepared as per the Dam Break Analysis for the project and submitted to the Ministry. The plan shall be implemented in totality. A designated person from the project shall be responsible for co coordinating Emergency Action Plan.
- (xxiv) Any other clearance from any other organization/department if required, shall be obtained before commissioning the project.

Part-B: General Conditions

- (i) Adequate free fuel arrangement shall be made for the labour force engaged in the construction work at project cost so that indiscriminate felling of trees is prevented.
- (ii) Fuel depot shall be opened at the site to provide the fuel (kerosene/LPG) to the labour force.
- (iii) All the labourers to be engaged for construction works shall be thoroughly examined by health personnel and adequately treated before issuing them work permit. Medical facilities/First Aid centers shall be provided to the labourers and regular health check-up shall be carried out.
- (iv) All the labourers to be engaged for construction works shall be provided with PPE (Personal Protective Equipments like Helmets/ Gloves/ Earplugs/ Shoes etc.) depending upon the nature of work.

- (v) Water sprinkling arrangements shall be made to suppress fugitive dust emissions.
 - (vi) Potable drinking water and proper sanitary facilities shall be provided for the labour force.
 - (vii) Solid waste from the labour camps shall be collected in Bins/Masonry vats and the same shall be dumped/disposed to nearby municipal landfills/authorized dump sites. All safe guard measures shall be undertaken to protect community against any health hazard due to solid waste generated due to the project. No dumping of solid waste will be undertaken near any water body or a stream.
 - (viii) Restoration of construction area including dumping site of excavated materials shall be ensured by leveling, filling up of burrow pits, landscaping etc. The area shall be properly treated with suitable plantation.
 - (ix) Financial provision shall be made in the total budget of the project for implementation of the above suggested safeguard measures.
 - (x) Six monthly monitoring reports shall be submitted to the Ministry and its Regional Office, Lucknow for review.
5. The environment clearance does not necessarily imply that Forestry and Wildlife clearances shall be granted for the Project and that the proposals for these clearances shall be considered by the respective authorities entirely on the merit of the proposal. The investment made in the project, if any, based on the environment clearance so granted, shall be entirely at the cost and risk of the project proponent.
6. Officials from Regional Office, MoEF, Lucknow who would be monitoring the implementation of environmental safeguards shall be given full cooperation, facilities and documents / data by the project proponents during their inspection and review.
7. The Water Resources Department, Government of Rajasthan shall also implement all other environmental safeguards, as proposed in the EIA/EMP Report and other reports, from time to time, besides the above stated. The responsibility of implementation of these environmental safeguards rests fully with the Water Resources Department, Rajasthan.
8. The Environmental Management Plan shall be strictly adhered to and a sum of Rs. 5.70 Crores, kept in the budgetary provisions for implementation of this shall not be diverted.

9. Any change in the scope of the Project shall be intimated to the Ministry. Fresh approval from the Ministry, if required, shall be taken.

10. The Ministry reserves the right to add additional safeguard measures subsequently, if found necessary and to take action, including revoking of the clearance, under Environment (Protection) Act, 1986 to ensure effective implementation of the suggested safeguard measures in a time- bound and satisfactory manner.

11. This clearance is valid for a period of 10 years from the date of issue of this letter for commencement of construction work for the Project.

12. A copy of the clearance letter shall be sent by the Proponent to the concerned Panchayat, Zilla Parishad/ Municipal Corporation, Urban local body and the local NGO/s from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web-site of the Company by the Proponent.

13. The 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 letter are available with the State Pollution Control Board/Committee and may also be seen at Web-site of the Ministry of Environment and Forests at <http://www.envfor.nic.in>.

14. The Project Proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Office of CPCB and the SPCB.

15. After five years of the commissioning of the project, a study shall be undertaken regarding impact of the project on the environment. The study shall be undertaken by an independent agency, decided in consultation with the Ministry.

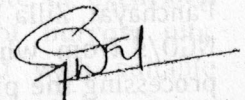
Yours faithfully,

(Sanchita Jindal)
Director

Copy to:

1. Secretary, Ministry of Water Resources, Shram Shakti, Bhawan, Rafi Marg, New Delhi-110 001.
2. The Adviser (I &CAD), Planning Commission, Yojna Bhawan, New Delhi - 110 001.

3. The Secretary (Irrigation), Sachivalaya, Government of Rajasthan, Jaipur, Rajasthan.
4. The Secretary, Department of Environment, Sachivalaya, Government of Rajasthan.
5. The Chief Engineer, Project Appraisal Directorate, Central Water Commission, Sewa Bhawan, R.K. Puram, New Delhi-110 066.
6. CCF, Regional Office (CR), Ministry of Environment & Forests, Kendriya Sadan, Sector-H, Aliganj, Lucknow-226 024.
7. Member Secretary, Rajasthan State Pollution Control Board, 4-Institutional Area, Doongri, Jaipur, Rajasthan.
8. Guard file.



(Sanchita Jindal)

Director