

J-12011/53/2008-IA.1
Government of India
Ministry of Environment & Forests
(IA Division)

Paryavaran Bhawan,
CGO Complex, Lodhi Road,
New Delhi – 110003

Dated: 23.10.2009

The General Manager
Renukaji Construction Circle, Dadahu
Himachal Pradesh Power Corporation Ltd
District- Sirmour
Himachal Pradesh – 173 022

Sub: Renuka Dam Project (40 MW) in the District of sirmaur Himachal Pradesh by M/s. Himachal Pradesh Power Corporation Ltd.- Environmental Clearance – regarding.

Sir,

This has reference to your letter HPPCL/RCC/DB-2/08-1622-27 dated 11.9.2008 subsequent letters dated 19.11.2008, 26.11.2009, 17.4.2009, 7.7.2009 and 29.7.2009 on the above mentioned subject.

2. The committee noted that the capacity is 40 MW only and the project is submitted to Central Government for clearance as the area of Renuka Wildlife Sanctuary is involved. The proposed project envisages construction of 148 m. Rock-fill dam across river Giri 1.5 km upstream of Dadahu Bridge and 0.35 km downstream of confluence of Jogar-ka-khala with Giri. This is storage scheme to harness monsoon discharge of river Giri for augmenting drinking water supply to NCR of Delhi and other Co-basin states with-in incidental power generation of 40 MW during peak flow. A surface powerhouse with 2 units (2 x 20 MW) is proposed on the right bank of river. The total land requirement is about 1477.78 ha. Out of which 901 ha. is forest land & 576.78 ha. is private land. Out of total land 1197.60 ha (761.60 ha. forest land + 436 ha private land) will be submerged. 49 ha. of Renuka Wildlife Sanctuary will be submerged. The Supreme Court has accorded approval on 17.11.2006 for diversion of forest land. Thirty two (32) villages consisting of 308 families are likely to be affected due to this project. Out of 32 villages, people from 24 villages will lose their land. The total project cost is about Rs.2687.33 Crores and will be completed in 6 years.

3. The above referred proposal was considered by the Expert Appraisal Committee for River Valley & Hydroelectric projects at its meeting held on 16.12.2008, 15.5.2009 and 29.7.2009.

Copy No. 1819
Date 20.10.09
DP, HPPCL, Dadahu

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try to all concerned
G.M.

4. The Ministry of Environment and Forests hereby accords environmental clearance as per the provisions of Environmental Impact Assessment Notification 2006 subject to strict compliance of the terms and conditions as follows:

Part A: Specific Conditions

(i) Catchment Area Treatment Plan as has been proposed should be completed in 5 years. The plan is given below:

Treatment Measures	Year I	Year II	Year III	Year IV	Year V	Total
(A) Biological Measures						
Afforestation (ha)	1931	1900	1900	1900	1900	9531
Pasture Development (ha)	328	200	200	200	200	1128
Horticulture (ha)	181	130	130	130	130	701
(B) Engineering Measures						
Vegetative Boulder spur (Nos)	240	240	240	240	240	1200
Wire crate Spur (Nos)	160	160	160	160	160	800
DRSM (Nos)	600	600	600	600	600	3000
Brush Wood Check dams(Nos)	880	880	880	880	880	4400
Bench terracing(ha)	150	150	150	150	150	750
Contour Staggered trenches(ha)	150	150	150	150	150	750
Catch drains(RM)	6550	6550	6550	6550	6550	32750

- (ii) The R&R package approved by Government of Himachal Pradesh specially prepared for this project should be followed for project affected persons. Adequate publicity of the compensation package should be circulated in the affected villages.
- (iii) The land compensation rates offered by the project authority as Rs.50,000/- per bigha (12.5 bigha in a hectare) for barren land; Rs. 1,50,000/- per bigha for un-irrigated cultivated & Rs. 2, 50,000/- per bigha for irrigated cultivated land should under no circumstances be reduced.
- (iv) The commitment made during the public hearing should be fulfilled.
- (v) During lean season 23 cumec water has to be released for maintaining the aquatic life in the downstream
- (vi) All the equipment which are likely to generate high noise levels are to be fully mollified (noise reduction measures)

- (vii) Prior approval under Forest (Conservation) Act, 1980 for diversion of forest land should be taken. No physical work will be initiated without forest clearance for this project
- (viii) Consolidation and compilation of the muck should be carried-out in the muck dumping sites and the dumping sites should be above high flood level. The proposed plan for generated muck of 79,00,885 m³ in the project i.e. about 56,34,109m³ is proposed to reutilize for the construction material & other filling purposes and remaining 22,66,776 m³ of muck will be disposed of at 3 designated disposal areas (i. Beari—on left of Jalal Khad ii. Trimali— on the right bank of river Giri & iii. D/S of Jataun barrage) should be strictly implemented.
- (ix) Afforestation programme on 1878 ha as proposed by using 14 plant species should be strictly taken-up. The proposed soil binding species @1100 plants/ha. should be taken-up and implemented.
- (x) Green belt development as proposed around project areas, reservoir periphery and other components in an area of 81 ha. using about 54 different plant species should be implemented. The allocated amount of Rs. 121.40 lakhs for green belt development should strictly adhered for the purpose.
- (xi) The proposed reservoir of the dam should be declared as protected area with provision for development and conservation of fish species.
- (xii) The proposed fisheries development on the river Giri reservoir from dam site to Jateon barrage should be implemented within the timeframe. The proposed conservation of fishes, especially Mahseer management in river Giri should be taken-up strictly. A total budget of Rs. 500 lakhs is allocated for this purpose should not be diverted.
- (xiii) The proposal for Wildlife Management and Biodiversity Conservation in Renuka Wildlife Sanctuary by following 3 theme plans viz. i) Zoo Management; ii). *In-situ* & *Ex-situ* conservation and iii). Community Development should be strictly taken-up and implemented in totality as mentioned in the EMP (Page No. 173-196)
- (xiv) The Inter-state consensus on cost and benefit sharing should be arrived at before regulating water releases from the proposed dam.
- (xv) The tree growth in the submergence 4 m below FRL should be removed before filling-up the reservoir.

Part-B: General Conditions

- (i) Adequate free fuel arrangement should 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 may be opened at the site to provide the fuel (kerosene/wood/LPG). Medical facilities as well as recreational facilities should also be provided to the labourers.
- (iii) All the labourers to be engaged for construction works should be thoroughly examined by health personnel and adequately treated before issuing them work permit.
- (iv) Restoration of construction area including dumping site of excavated materials should be ensured by leveling, filling up of burrow pits, landscaping etc. The area should be properly treated with suitable plantation.
- (vi) Financial provision should be made in the total budget of the project for implementation of the above suggested safeguard measures.
- (vii) Six monthly monitoring reports should be submitted to the Ministry and its Regional Office, Chandigarh for review.

5. Officials from Regional Office MOEF, Chandigarh who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents / data by the project proponents during their inspection.

6. The responsibility of implementation of environmental safeguards rests fully with the Himachal Pradesh Power Corporation Ltd & Government of Himachal Pradesh.

7. The total amount of Rs. 403.82 Crores kept in the budgetary provisions for implementation of environmental management plan should be strictly adhered and not to be diverted for any other purpose.

8. In case of change in the scope of the project, project would require a fresh appraisal.

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

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

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

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

13. 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.

14. 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 Authority Act, 1997.

Yours faithfully,



(Dr. S. Bhowmik)
Additional Director &
Member Secretary of EAC

Copy to:

1. Secretary, Ministry of Power, Shram Shakti, Bhawan, Rafi Marg, New Delhi-1
2. The Secretary, Ministry of Water Resources, Shram Shakti Bhawan, Rafi Marg, New Delhi-1
3. The Adviser (Power), Planning Commission, Yojna Bhawan, New Delhi-1
4. Principal Secretary (MPP & Power), Government of Himachal Pradesh, Shimla
5. The Secretary, Department of Environment, Government of Himachal Pradesh, Shimla.
6. The Chief Engineer, Project Appraisal Directorate, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.
7. The Regional Office, Ministry of Environment & Forests, Chandigarh
8. Member Secretary, Himachal Pradesh State Pollution Control Board, Phase-III, Him Parivesh, New Shimla - 171 009
9. EI- Division, Ministry of Environment & Forests, New Delhi-110003.
10. Guard file.



(Dr. S. Bhowmik)
Additional Director &
Member Secretary of EAC