

No. J-12011/32/2008-IA.I
Government of India
Ministry of Environment, Forest & Climate Change
[IA.I – Division]

Indira Paryavaran Bhavan
6th Floor, Jal Wing
Jor Bagh, Aliganj
New Delhi – 110 003

Dated: 24th June, 2016

To

The General Manager (Planning)
Chenab Valley Power Projects Pvt. Ltd.
2nd Floor, JKPC Building, Rail Head Complex,
Panama Chowk, Jammu, J&K-180006.

Subject: Kiru HEP (624 MW) project in District Kishtwar, Jammu & Kashmir by M/s Chenab Valley Power Projects Pvt. Ltd. – for Environmental Clearance - regarding.

Sir,

This has reference to your letter no. CVPP/GM/P&I/2016/51 dated 25.1.2016 and 09.6.2016 on the above mentioned subject.

2. The above referred proposal was appraised by the Expert Appraisal Committee (EAC) for River Valley and Hydroelectric Power Projects (RV&HEP) in its meeting held on 8 and 9th February, 2016. The comments and observations of EAC may be seen in the Minutes of the meeting, which are available on the web-site of this Ministry. The Public Hearing was conducted on 27.11.2015 at village Patharnakki in the District Kishtwar of Jammu & Kashmir.

3. It was noted that the project is proposed on river Chenab near village Patharnakki in District Kishtwar of Jammu & Kashmir State. The project envisages construction of a 123 m high (from river bed level) concrete gravity dam across river Chenab to generate 624 MW of hydropower. This is a run-of-the-river scheme. The catchment area of the project is 10225 Sq. km. Total land requirement is 179.78 ha, out of which 82.05 ha is forest land, 51.37 ha is government land and 46.36 ha is private land. An underground powerhouse is proposed with 4 units of 156 MW capacity each. About 181 families consisting of 1009 persons in 4 villages are likely to be affected due to this project. The total cost of project is about Rs. 4640.88 crores and proposed to be completed in 54 months.

4. The Expert Appraisal Committee (EAC), after due consideration of the relevant documents submitted by the project proponent and clarifications furnished in response to its observations, have recommended for grant of Environmental Clearance for the project mentioned above. Accordingly, the Ministry of Environment, Forest and Climate Change hereby accords necessary Environmental Clearance for the above project as per the provisions of Environmental Impact Assessment Notification, 2006 and its amendment in 2009, subject to compliance of the following conditions:

Part A: Specific Conditions

- i. The Catchment Area Treatment (CAT) Plan as has been proposed in the EMP shall be strictly implemented in consultation with the J&K State Forest Department. Major works of CAT shall be completed before impounding of reservoir. The CAT plan will be implemented in 5 years. Financial allocation of Rs. 1883.92 lakhs for CAT Plan implementation shall be

fully utilized and the same shall not to be diverted for any other purpose. As per CAT plan, the area of CAT is 1849.28 ha.

- ii. The R&R benefits for the land losing households will be as per the norms of NRRP-2007 and J&K State Government. Adequate publicity of the compensation package should be circulated in the affected villages. However, this is to be compared with the State Rehabilitation and Resettlement Policy, and the more beneficial policy is to be adopted for the project affected persons (PAFs). All R&R issues shall be completed before commissioning of the project.
- iii. Implementation of R&R Plan shall have to be closely monitored by the State Authority and is to be ensured that all project affected families (PAFs) shall get adequate & timely compensation.
- iv. A Monitoring Committee for R&R shall be constituted which shall include representatives of project affected persons including representative from SC/ST category and a woman beneficiary.
- v. All commitments made during the public hearing should be fulfilled completely by the project proponent and record maintained.
- vi. A minimum environmental flow of 16.33 cumec (20%) during lean season (December to March), 73.37 (10%) cumec during monsoon season (June to September) and 16.62 (10%) cumec during remaining four months (October-November & April-May) shall have to be maintained. Continuous monitoring system for the flow measurement shall be installed and data be displayed at appropriate site for civil society and stake holders. Six monthly results shall be submitted to the Regional office of the Ministry.
- vii. Dumping and consolidation/compaction of the muck shall be carried out only in the designated muck dumping sites as submitted in the EIA/EMP report. As per the proposed muck disposal plan given in EMP, out of the 25.78 lakh m³ of muck to be generated, 8.36 lakh m³ will be utilised for construction purpose and remaining 17.42 lakh m³ will be dumped at 4 designated disposal sites in an allocated area of 28.22 ha. The dumping sites shall be more than 30 m away from the HFL of the river and the toe walls for muck disposal sites shall be constructed at least 30 m away from HFL of River. Allocated grant of Rs. 1697.57 lakhs shall be fully utilized and not to be diverted for any other purpose.
- viii. Proposed compensatory afforestation programme in 164.10 ha of degraded forest areas shall be undertaken in consultation with State Forest Department. Allocated grant of Rs. 1036 lakh shall be fully utilized and not be diverted for any other purpose.
- ix. To enhance the quality of environment of project site, green belt, as proposed in EMP Report, shall be developed. The proposed greenbelt along the project appurtenances shall be undertaken in consultation with State Forest Department. The allocated budget of Rs. 28.78 lakhs shall be fully utilized for this purpose and not to be diverted to any other purpose.
- x. Proposed Biodiversity Conservation & Management Plan as outlined in the EMP shall be implemented with State Forest Department. The allocated budget of Rs. 139.80 lakhs for this purpose shall be fully utilized and shall not to be diverted for any other purpose. Proposed reservoir rim treatment plan with both biological and engineering measures shall be implemented strictly. Allocated amount of Rs.798.59 lakhs should be fully utilised and shall not to be diverted for any other purpose.
- xi. The Fisheries Development Plan as proposed in the EMP shall be implemented completely in consultation with the State Fisheries Department. As proposed, a fish hatchery shall be

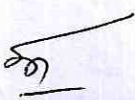
developed in 2 ha of area for development of fingerlings for stocking of reservoir and river. A budget of Rs. 798.59 lakhs provided for fisheries development plan should be fully utilized for this purpose and shall not be diverted for any other purpose.

- xi(a) The total project cost is Rs.4640.88 crores and EMP budget is Rs.147.32 crores is about 3.2%. The overall EMP budget should be raised to 3.5% (i.e. 162.43 crores) of the project cost.
- xii. As mentioned in EIA, 15 coldwater fish species have been identified in the river stretches including 2 exotic species, therefore, e-flow to be maintained for the downstream river depth, wetter perimeter, water quality and minimize fluctuation in ambient temperature during extreme conditions.
- xiii. To maintain flourishing fish population/communities in the river, the river must witness all seasonal changes including low flow levels during lean season to maximum during monsoon/floods/high rains.
- xiv. Skill Mapping of the area to be conducted, mentioning the skills inherent of the local people, skill requirement of the project and the best ways to develop the skills in the local people so that the locals can be employed in the project.
- xv. Uses of 82.05 ha of forest land for construction of Kiru HEP by Chenab Valley Power Projects has been granted by Government of Jammu & Kashmir vide No. 143-FST of 2016 dated 19.5.2016. The Project Proponent shall adhere to terms and conditions of this Government order strictly.
- xvi. Any other clearances required from any other concerned authorities should be obtained before commencement of works and commissioning of the project, as applicable.

Part B: General Conditions

- i. Adequate arrangements for ensuring availability of fuel like kerosene/LPG shall be provided at the project cost for the labourers to be engaged during construction work so that indiscriminate felling of trees is prevented. The energy conservation measures as provided in EMP shall be fully implemented.
- ii. Medical facilities as well as recreational facilities shall also be provided to the labourers.
- iii. The labourers to be engaged for construction works shall be thoroughly examined by health personnel and adequately treated before issuing them work permit. Periodic health check-up during construction period may also be taken up.
- iv. Water sprinkling arrangements shall be made to suppress fugitive emissions/ dust.
- v. Potable drinking water and proper sanitary facilities shall be provided for the labourforce. Also proper disposal facilities for solid waste are to be ensured.
- vi. Restoration of construction area including muck dumping sites shall be ensured by levelling, filling up of borrow pits, landscaping, etc. The area should be properly planted to develop good greenery in the area.
- vii. Environmental parameters shall be monitored and "six monthly monitoring reports" shall be submitted to the Ministry of Environment, Forest & Climate Change, New Delhi including its Regional office for their review.



- viii. Solid waste management & sanitation facility will have to be provided for the labourforce.
- ix. Disaster management plan as provided in EMP shall be implemented in consultation with the District Authorities and early warning system shall be installed.
- x. An Environmental Management Cell (EMC) shall be constituted at the project level with sufficient manpower. The head of the EMC shall report directly to the head of the project for speedy implementation of EMP & related issues.
5. The Project Proponent shall provide full cooperation and provide all requisite documents/data to the Officials from concerned Regional Office of the Ministry who would be monitoring the implementation of environmental safeguards and to undertake inspection.
6. The responsibility of implementation of environmental safeguards rests fully with the M/s. Chenab Valley Power Projects Pvt. Ltd. and Government of Jammu & Kashmir. Therefore, these may be critically reviewed jointly & periodically.
7. Besides the above stated conditions, the Project Proponent shall also implement all other environmental safeguards, as proposed in the EIA/EMP report and other reports from time to time. The Government of Jammu & Kashmir may also like to monitor implementation of EMP at regular intervals.
8. The Environmental Management Plan (EMP) shall be strictly adhered to and a sum of Rs. 162.43 crores, the budgetary provisions for the implementation of EMP, shall be fully utilized and shall not to be diverted for any other purpose.
9. In case of change in the scope of the project, the same be intimated to the Ministry and a fresh approval, if required shall be taken from the Ministry.
10. 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 measures in a time bound and satisfactory manner.
11. This clearance letter is valid for a period of 10 years from the date of issue of this letter for commencement of construction work.
12. A copy of the clearance letter shall be marked to concerned Panchayat/Zilla Parishad/Municipal Corporation, Urban local body and local NGO, if any, from whom any suggestion/representations were received while processing the proposal. The clearance letter shall also be put on website by the project proponent.
13. State Pollution Control Board shall display a copy of clearance letter at the Regional Office, District industries centre and Collector's/ Tehsildar's Office for 30 days.
14. 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 vernacular language of the locality concerned informing that the project has been accorded environmental clearance and copies of the clearance letters are available with the State Pollution Control Board / Committee and may also be seen at website of Ministry of Environment, Forest & Climate change at <http://www.moef.nic.in>.
15. The project proponent shall also submit six monthly reports on the status of compliance of stipulated EC conditions including the results of monitored data (both in hard copies as well as by email) to the respective Regional Office of MOEF & CC.
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16. After 5 years of the commissioning of the project, a study shall be undertaken regarding impact of the project on the environment and over the downstream ecology of the project. The study shall be undertaken by an independent agency to be decided in consultation with the Ministry.

17. A multi-disciplinary Committee (MDC) for monitoring the implementation of environmental safeguards during construction shall be constituted by the project proponent (PP) in consultation with the Ministry of Environment, Forest & Climate Change, New Delhi within 6 weeks of the issue of this letter. The committee shall meet every six month to review the status of implementation of EC conditions in general and monitoring of e-flow and stability & effectiveness of muck dumping site in particular.

18. Any appeal against this environmental clearance can be made before the Hon'ble National Green Tribunal within a period of 30 days from the date of issue, as prescribed under Section-10 of the National Green Tribunal Act, 2010.

19. The Regional Office will monitor all environmental parameters encompassed in the EMP, especially effectiveness and stability of muck disposal sites and ensure release of environmental flow etc. These will be separately reported by Regional Office in the monitoring reports to MoEF & CC, New Delhi.

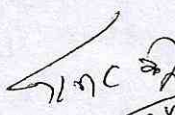
20. Government of Jammu & Kashmir shall also ensure compliance and any violation of EC conditions during construction & commissioning shall be brought to the notice of MoEF & CC by the Government of Jammu & Kashmir immediately for necessary action.

Yours faithfully,


(DR. S. KETKETTA)
Director

Copy to:

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi -1.
2. The Secretary, Ministry of Water Resources, RD&GR, Shram Shakti Bhawan, Rafi Marg, New Delhi - 110001.
3. The Secretary, Department of Power, Government of Jammu and Kashmir, Civil Secretariat, Srinagar, Jammu & Kashmir.
4. The Secretary, Department of Forest, Environment & Wildlife Management, Government of Jammu and Kashmir, Civil Secretariat, Srinagar, Jammu & Kashmir.
5. The Chief Engineer, Project Appraisal Directorate, Central Electricity Authority, Sewa Bhawan, R. K. Puram, New Delhi- 110066.
6. The Addl.PCCF (Central), Northern Regional Office, Ministry of Environment, Forest and Climate Change, Bays No. 24-25, Sector-31 A, Dakshin Marg, Chandigarh-162022
7. The Member Secretary, J&K State Pollution Control Board, Parivesh Bhawan, Shiekh-ul-Campus, behind Govt. Silk Factory, Raj Bagh, Srinagar(J&K)
8. NIC Cell - uploading on MoEF&CC website.
9. Guard File.


(DR. S. KERKETTA)
Director