

No. J-12011/16/2010/IA.I  
Ministry of Environment, Forest & Climate Change  
Government of India  
(IA-I Division)

Indira Paryavaran bhawan  
3<sup>rd</sup> Floor, Vayu Wing,  
Jor Bagh Road  
New Delhi-110 003

Dated } 6 June 2016

To

✓ Additional General Manager (C)/HOP  
M/s. Satluj Jal Vidyut Nigam Ltd  
Mori-249 128  
District uttarkhashi  
Uttarakhand

**Subject: Naitwar Mori HEP (60 MW) Project in Uttarkashi District of Uttarakhand  
by M/s. Satluj Jal Vidyut Nigam Ltd.-Environmental Clearance-regarding**

Sir,

This has reference to your letter No. SJVN/AGM/NM&JS/11-181 dated 6.6.2011 and subsequent letters dated 30.6.2011, 30.12.2011 and 27.4.2016 on the above mentioned subject.

2. It is noted that the project is a Runoff of the River type and is proposed on River Tons in Uttarkashi District of Uttarakhand to generate 60 MW of hydropower. It envisages construction of 30.5 m high barrage from the deepest foundation across Tons to generate 60 MW of hydropower. The FRL and TWL for the project are EL 1267 m and 1167 m, respectively. The catchment area of the project site is 1514 sq.km. Total land requirement for the Project is 47.0575 ha. Out of which 39.8805 ha is forest land and 7.1770 ha is private land. The total submergence is about 4.90 ha. An underground powerhouse is proposed on the right bank of the river near village Keval with 2 units of 30 MW each. Three (3) villages consisting of 97 families are likely to be affected due to this project. Govind Pashu Vihar National Park exists within 10 km of the project components. The NBWL recommended clearance for the project in its 21<sup>st</sup> meeting held on 24.1.2011. The total cost of the project is about Rs. 449.78 Crores out of which Rs. 32.48 Crores will be for Environmental Management Plan (EMP).

3. The project proposal was considered by the Expert Appraisal Committee (EAC) for River Valley & Hydroelectric Projects in its meeting held on 15-16 July 2011; 11-12 November, 2011 and 26-27 December, 2011. The Public Hearing was conducted on 3.5.2011 at Naitwar, Uttarkashi District in Uttarakhand.

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

## Part-A: Specific Conditions

- i. The following Catchment Area Treatment (CAT) Plan as proposed in the EIA/EMP report (Chapter-1 in EMP dated February, 2011) and mentioned vide letter no. SJVN/AGM/NMHEP/PEC/11-431 dated 2.9.2011 shall be strictly implemented in consultation with Uttarkhand Forest Department. Major works shall be completed before impounding. The financial allocation of Rs. 769 lakhs for CAT plan implementation shall not be diverted for any other purpose. As per plan, the area of CAT is 3995.28 ha.
- ii. The R&R benefits for the land losing households will be as per the National Rehabilitation and Resettlement Policy, 2010 of SJVNL as well as NRRP-2007 whichever is higher. Adequate publicity of the compensation package of NRRP 2007/SJVNL R&R Policy, 2010 shall be given in the affected villages. All R&R issues shall be completed before commissioning of the project.
- iii. A monitoring committee for R&R shall be constituted which must include representatives of project affected persons from SC/ST category and a women beneficiary.
- iv. All the commitments made during the public hearing shall be fulfilled completely by the project proponent.
- v. Consolidation and compilation of the muck shall be carried out only in the designated muck dumping sites as submitted in the EIA/EMP Report & in the reply submitted in February, 2011. As per the proposed muck disposal plan, out of the 7,11,240 m<sup>3</sup> muck generated 30-40% will be utilized as construction material and remaining 4,29,583 m<sup>3</sup> will be dumped at the 3 designated disposal areas in 4 ha. The identified muck dumping sites shall be at-least 30 m horizontally away from high flood level (HFL).
- vi. A minimum environmental flow of 3.55 cumecs, i.e. average river discharge in the 4 consecutive leanest months in the 90% dependable year shall have to be maintained. However, 5.0 cumecs shall be maintained as environmental flow during September-October and March- April months. Monsoon flow shall be 30% of the total Monsoon discharge.
- vii. Continuous monitoring system for the flow rate measurement shall be installed and data be displaced at appropriate site for information of civil society and stake holders. Six monthly results shall be submitted to the concerned Regional Office of the Ministry and SPCB.
- viii. The Fishery Conservation & Management Plan as proposed in the EMP & in the reply submitted in August, 2011 shall be implemented completely in consultation with the Fisheries Department, Government of Uttarakhand. As proposed, the construction of fish ladder shall also be taken up and allocated budget of Rs. 1.00 Crore shall not be diverted for any other purpose.
- ix. Real time telemetry and data acquisition system including all weather hydro meteorological stations shall be installed for in-flow monitoring and advance flood warning. Advance flood warning and advance communication systems shall be installed in consultation with the downstream authorities.

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- x. As proposed in the EMP, the Compensatory Afforestation Programme on 79.76 ha of land with soil binding species @ 3000 plants/ha and broad leaved species @ 2000 plants/ha with the help of State Forest Department in the degraded forest area shall be strictly taken-up. The allocated grants of Rs. 3.74 Crores shall not be diverted for any other purpose.
- xi. Greenbelt development along the approach roads, residential areas, office complex, barrage site and along the reservoir as proposed in EIA/EMP with 50 different plant species shall be undertaken immediately and allocated grant of Rs. 44 lakhs shall not be diverted for any other purpose.
- xii. The Biodiversity Conservation and Management Plan shall be taken-up strictly as outlined in the EIA/EMP report and implemented in consultation with the state Forest Department. The allocated grants of Rs. 43 lakhs shall not be diverted for any other purpose. A report of implementation shall be included in the six monthly compliance report to be submitted to the Ministry.
- xiii. Equipment likely to generate high noise levels 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, 1986 (EPA). For this necessary insulators etc may be ensured.
- xiv. Any other clearance from any other organization/department, if required shall be obtained before commencing the project.
- xv. As outlined in the report submitted dated 29.12.2011 for an amount of Rs. 6.26 crores shall be spent for the Local Area Development in the project.
- xvi. Two openings in the dam shall be kept to ensure environmental flow. One opening shall be for minimum environmental flow of 3.55 cumecs which will be un-gated and other will be gated which will be opened during the months when higher environmental flow of 5 cumecs is released. During the months of September-October and March-April, both the openings will discharge 5 cumecs.
- xvii. Besides keeping environmental flows, fish hatcheries will be developed for stocking of fingerlings, both upstream and downstream of the dam site.
- xviii. Pension for elderly widows shall be increased to Rs. 1500 per month.
- xix. The public toilets (130 Nos.) with septic tanks shall be provided and maintained in each of the affected villages. A sum of Rs. 61 lakhs shall be kept separately for this purpose shall not be diverted for any other purpose.
- xx. System and facility for solid waste management shall also be provided in the project affected villages.
- xxi. Alternate sources for drinking water shall be provided to the affected villages and other villages in the vicinity, in case, natural springs are affected due to construction of the project. This shall be carried out in consultation with the State Irrigation and Public Health Department.
- xxii. For planting of trees and other biological measures, indigenous and among them endemic tree species should be preferred. Turfing may be done by perennial grasses in consultation with a Horticulturist. Proponents themselves may take this

responsibility under the guidance of a scientist/expert in vegetative propagation and mass multiplication (tissue culture).

- xxiii. A specialist in reproductive biology of fishes, CIFRI should study the viable and feasible alternatives on the blocked migratory movement of fish species like *Schizothorax richardsonii*, *Tor putitora*, *Tor tor*, etc. due to construction of the dam so that these species would not become locally extinct.

#### Part- B: General Conditions

- (i) Adequate arrangement for providing free fuel like kerosene/wood/LPG shall be made at project cost for the labour engaged in the construction work so that indiscriminate felling of trees is prevented.
  - (ii) Medical facilities as well as recreational facilities shall also be provided to the labourers.
  - (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.
  - (iv) No fugitive dust emissions should be observed at the construction sites. Water sprinkling arrangements shall be made to suppress the fugitive emissions.
  - (v) Potable drinking water and proper sanitary facilities should be provided for the labourforce and the local area people.
  - (vi) Restoration of construction area including dumping site of excavated materials shall be ensured by leveling, filling up of burrow pits, landscaping etc. The area should be properly treated with suitable plantation.
  - (vii) Financial provision shall be made in the total budget of the project for implementation of the above suggested safeguard measures.
  - (viii) The project proponent shall also submit six monthly compliance reports of the stipulated EC conditions (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF & CC and State Pollution Control Board. Both monitoring report and compliance report shall be up-loaded on the web-site of the Proponent.
5. The project proponent shall provide full cooperation and all required documents/data to the Officials from concerned Regional Office of the Ministry who would be monitoring the implementation of environmental safeguards.
6. The responsibility of implementation of environmental safeguards rests fully with the M/s Satluj Jal Vidyut Nigam Ltd and Government of Uttarakhand.

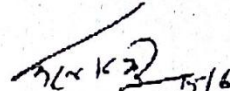
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7. Besides the above stated conditions, the project proponent and Government of Uttarkhand shall also implement all other environmental safeguards, as proposed in the EIA/EMP report and other reports from time to time.
8. The Environmental Management plan shall be strictly adhered to and a sum of Rs. 32.48 crores, the budgetary provisions for implementation of EMP shall not be diverted for any other purpose.
9. Any change in the scope of the project shall be intimated to the Ministry and fresh approval if required, shall be taken from the Ministry.
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 the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard 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 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.
13. A multi-disciplinary Committee for monitoring the implementation of environmental safe guards during construction shall be constituted by the Proponent in consultation with the Ministry. The proponent shall suggest the members for approval of the Ministry. Proponent shall organize six monthly meetings of the Committee and submit the monitoring report to the Ministry.
14. The proponent should advertise at least 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, Forest & Climate Change at <http://www.envfor.nic.in>.
15. After 5 years of the commissioning of the project, a study shall be undertaken regarding impact of the project on the environment and downstream ecology. The study shall be undertaken by an independent agency, decided in consultation with the Ministry.
16. The 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 & CC and Zonal office of CPCB and the SPCB.

21

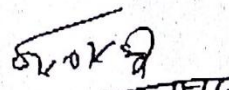
17. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if referred, within a period of 30 days from the date of issue, as prescribed under Section- 10 of the National Green Tribunal Act, 2010.

Yours faithfully,

  
Dr S. KERKETTA  
DIRECTOR

Copy to:

1. The Secretary, Ministry of Power, Shram Shakti, Bhawan, Rafi Marg, New Delhi -1.
2. The Secretary, Ministry of Water Resources, River Development & Ganga Rejuvenation, Shram Shakti, Bhawan, Rafi Marg, New Delhi -1.
3. The Principal Secretary (Power), Government of Uttarkhand, Dehradun.
4. The Secretary, Department of Environment, Government of Uttarakhand, Dehradun.
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 & Climate Change, Pearson Road, FRI Campus, P.O. New Forests, Dehradun -248006
7. The Member Secretary, Uttarakhand Environment Protection & Pollution Control Board, E-115, Nehru Colony, Haridwar Road, Dehradun -248001
8. EI- Division, Ministry of Environment, Forest & Climate Change, New Delhi - 110003.
9. NIC Cell - with a request to upload the EC on Ministry's website.
10. Guard File.

  
Dr S. KERKETTA  
DIRECTOR