

No. J-12011/15/2010-IA.I
Ministry of Environment & Forests
Government of India
(IA.I Division)

Paryavaran Bhavan
CGO. Complex, Lodi Road
New Delhi – 110 003

Date: 21st February, 2013

To

The General Manager (CP&M/Envt.)

M/s. Satluj Jal Vidyut Nigam Ltd
Himfed Building
New Shimla – 171 009
Himachal Pradesh

Subject: Dhaulasidh HEP (66 MW) Project in Hamirpur & Kangra Districts, Himachal Pradesh by M/s. Satluj Jal Vidyut Nigam Ltd – Environmental Clearance – regarding

Sir,

This has reference to your letter No.SJVN/DSHEP/HOP (Sectt)/Envt/11-234 dated 22.11.2011 and subsequent letters dated 9.1.2012, 11.5.2012, 25.6.2012, 5.7.2012 and 22.10.2012 on the above mentioned subject.

2. It is noted that the proposed project is a run-of-the river scheme on Beas river near Sanotu Village in Hamirpur District of Himachal Pradesh to generate 66 MW of hydropower. The project envisages construction of a 51 m high concrete gravity dam above river bed level across River Beas to generate 66 MW of hydropower. Total land requirement is about 338.2 ha. Out of which 57.7 ha is forest land; 28.3 ha is government land 252.2 ha is private land (approximately 226.5 ha land is non-cultivable, barren, river bed and vertical rocks). The catchment area of the project is 9580 Sq.km. A dam toe surface powerhouse is located on the left bank of the river with 2 units of 33 MW each. A total of 427 families in 40 villages consisting of 18 gram panchayats are likely to be affected by this project. Number of families to be rendered landless are 5 and houses of 4 families will be affected. The total estimated cost of the project is about Rs. 497.67 Crores.

3. The project proposal was considered by the Expert Appraisal Committee (EAC) for River Valley & Hydroelectric Projects in its meeting held on 10-11th February, 2012; 20-21st July, 2012 and 23-24th November, 2012. The Public Hearing was conducted on 15.9.2011 at Chogam Maidan, Sujampur, District Hamirpur & on 16.9.2011 near Forest Rest House, Bheri, Tehsil Jaisinghpur, District Kangra of Himachal Pradesh.

4. The Expert Appraisal Committee, after due consideration of the relevant documents submitted by the project proponent and clarification furnished in response to its observations, have recommended grant of Environmental Clearance to the project mentioned above. Accordingly, the Ministry of Environment and Forests hereby accords



necessary environmental clearance to the above project as per the provisions of Environment Impact assessment Notification, 2006 and its subsequent amendment in 2009, subject to compliance of following conditions:

Part-A: Specific Conditions

- (i) The Catchment Area Treatment (CAT) Plan as proposed in the EMP report (Chapter-2 in EMP dated May, 2012) shall be strictly implemented in consultation with Himachal Pradesh State Forest Department. Major works shall be completed before impounding of reservoir. The financial allocation of Rs.42.67 Cores for CAT Plan implementation shall be fully utilized and not to be diverted for any other purpose. As per plan, the area of CAT is 114.74 Sq.km.

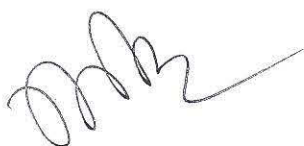
Treatment Measures	Year-I	Year-II	Year-III	Year-IV	Total
(A) Biological Measures					
Afforestation (ha)	100	150	200	130	580
RIM Plantation (ha)	40	30	20	10	100
Pasture Development (ha)	230	500	350	340	1420
Nursery Development (Nos.)	4	-	-	-	4
(B) Engineering Measures					
DRSM Check-dam (Nos.)	--	125	100	150	375
Step Drains (Rmt)	--	20	40	18	78

- (ii) The details of land holding of project affected persons whose land is being acquired shall be submitted to this Ministry including Regional Office. The R&R benefits for the land losing households will be as per the National Rehabilitation and Resettlement Policy, 2007 or as per the State Rehabilitation and Resettlement Policy, whichever is more beneficial to project affected persons (PAFs). Adequate publicity of the compensation package of NRRP 2007 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 including from SC/ST category and a woman beneficiary.
- (iv) All the commitments made during the public hearing by the developer shall be fulfilled.
- (v) Dumping and consolidation/compaction of 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, out of the 0.882 Mm³ muck to be generated, 0.118 Mm³ will be utilized for construction purpose and remaining 0.764 Mm³ will be dumped at the 3 designated disposal sites in an allocated area of 4.30 ha.
- (vi) A minimum environmental flow of 6.7 cumec i.e. equivalent to 20% of the minimum discharge available during 4 consecutive leanest months of the 90% dependable year shall have to be released as environmental flow for sustenance of aquatic life and downstream use. And also 6.7 cumec shall have to be maintained during November – May.

- (vii) Continuous monitoring system for the flow 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 Regional Office of the Ministry and SPCB.
- (viii) Real-time telemetry and data acquisition system including all weather hydro meteorological station 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.
- (ix) The fishery conservation & management plan as proposed in the EMP shall be implemented in consultation with the Fisheries Department, Government of Himachal Pradesh. As proposed, the stocking programme in the reservoir in about 15.76 ha and to stock the **Snow trout** as well as 10 Km upstream/downstream of river shall be taken-up and implemented with the help of State Fisheries Department. Establishment of hatchery should also taken-up with the help of Forest Department. Allocated amount of Rs. 50 lakhs for this purpose shall be fully utilized and not to be diverted for any other purpose/activity.
- (x) As proposed in the EMP, the Compensatory Afforestation programme in 115.4 ha shall be taken-up in consultation with State Forest department. In addition to this NPV, Biodiversity Conservation and Management Plan and development of a herbal nursery near Sanotu Village in an area of 0.50 ha shall be taken-up strictly. The allocated grant of Rs. 55.89 Crores for this purpose shall be fully utilized and not to be diverted for any other purpose. For compensatory afforestation programme preference shall be given to native species.
- (xi) The Biodiversity Conservation and management Plan shall be taken-up as outlined in the EIA/EMP report and to be implemented in consultation with the State Forest Department. A report of implementation shall be included in the six monthly progress and compliance report to be submitted to the Ministry including its Regional Office.
- (xii) Greenbelt development along the reservoir as proposed in total 10 ha of land with 13 plant species shall be undertaken. Total budget of Rs.10 lakhs has been allocated including restoration shall be fully utilized not to be diverted for any other purpose.
- (xiii) Equipments likely to generate high noise levels shall have to meet the ambient noise standards as notified under the Noise Pollution (Regulation and Control) Rules, 2000 and as amended in 2010 under the Environment Protection Act (EPA), 1986. For this, necessary insulators etc may be installed to contain noise level.
- (xiv) Any other clearance from any other organization/department, if required shall be obtained by the project proponent before commencement of the project.

Part-B: General Conditions

- (i) Adequate arrangement for providing free fuel like kerosene/wood/LPG shall be made at project site for the labour engaged in the construction work so that indiscriminate felling of trees is prevented. The project proponent shall ensure this.
- (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 sanitation facilities should be provided for the labour force 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) Environmental parameters shall be monitored regularly and six monthly reports shall be submitted to the Regional Office of the Ministry and State Pollution Control Board for review.
 - (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/State Pollution Control Board. Both monitoring report and compliance report shall be up-loaded on the web-site of the project proponent.
5. The project proponent shall provide full cooperation and all required documents, data and access to the Officials of Regional Office of MOEF who would be monitoring the implementation of environmental safeguards.
 6. The responsibility of implementation of environmental safeguards rests fully with the M/s. SJVN Ltd and Government of Himachal Pradesh.
 7. Besides the above stated conditions, the project proponent and Government of Himachal Pradesh shall also implement all other environmental safeguards, as proposed in the EIA/EMP report and other reports from time to time. The Government of Himachal Pradesh may also like to monitor implementation of EMP at regular intervals.
 8. The implementation of Environmental Management Plan shall be strictly adhered to and a sum of Rs. 114.44 Crores, the budgetary provisions for implementation of EMP shall be fully utilized and not to be diverted for any other purpose. The project proponent may critically monitor & review project to ensure completion of scheduled. Project management tools like PERT/CPM may be used to monitoring progress.
 9. This clearance letter is valid for a period of 10 years from the date of issue of this letter for commencement of construction work of the project.
 10. 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.
 11. The Ministry reserves the right to review this clearance order and 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.
 12. A multi-disciplinary Committee (MDC) for monitoring the implementation of environmental safe guards during construction shall be constituted by the project proponent (PP) in consultation with the Ministry as early as possible. A panel may be proposed by the PP and submitted to Ministry. The project proponent shall organize six monthly meetings of the Committee and submit the monitoring report to the Ministry.



13. 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.

14. The project proponent shall advertise at least in two local newspapers widely circulated in the region around the project location, 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>.

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 to be decided in consultation with the Ministry.

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

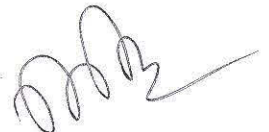
Yours faithfully,



(B. B. Barman)
Director

Copy to:

1. The Secretary, Ministry of Power, Shram Shakti, Bhawan, Rafi Marg, New Delhi-1.
2. The Adviser (Power), Planning Commission, Yojna Bhawan, New Delhi-1
3. Principal Secretary (MPP & Power), Government of Himachal Pradesh, Shimla
4. 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 Northern Regional Office, Ministry of Environment & Forests, Bays No. 24-25, Sector-31 A, Dakshin Marg, Chandigarh-160 022 (UT)
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. PS to JS (AT)/Director (BB)/PVS Rao(Sci-B)
11. Website of MoEF through NIC Cell.
12. Guard file



(B. B. Barman)
Director

Date: 21st October, 2013

Subject: Dhaulasidh HEP (66 MW) Project in Hamirpur & Kangra Districts, Himachal Pradesh by M/s. Satluj Jal Vidyut Nigam Ltd – Environmental Clearance – regarding

CORRIGENDUM

This has reference to your letter no. SJVN:DSHEP/HOP(Sectt.)/Envt./2012 dated 2.8.2013 regarding some differences in EMP cost and number of muck disposal sites in the environmental clearance. In this context, attention is invited to this Ministry's letter of even number dated 21.2.2013, the correction in the environmental clearance in Part-A Specific Conditions in para(i), para(v) & para(x) regarding costs in the CAT; Muck Disposal sites and NPV, Biodiversity Conservation & Management Plan as well as cost in EMP in para-8 may be read as :

- (i) The financial allocation of Rs.10.947 Crores for CAT Plan implementation shall be fully utilized and not to be diverted for any other purpose.

instead of

The financial allocation of Rs.42.67 Crores for CAT Plan implementation shall be fully utilized and not to be diverted for any other purpose.

- (ii) Will be dumped at the 2 designated disposal sites in an allocated area of 4.30 ha.

instead of

Will be dumped at the 3 designated disposal sites in an allocated area of 4.30 ha.

- (iii) The allocated grant of Rs.5.589 Crores for this purpose shall be fully utilized and not to be diverted for any other purpose.

instead of

The allocated grant of Rs.55.89 Crores for this purpose shall be fully utilized and not to be diverted for any other purpose.

- (iv) The implementation of Environmental Management Plan shall be strictly adhered-to and a sum of Rs.34.147 Crores the budgetary provisions for implementation of EMP shall be fully utilized and not to be diverted for any other purpose.

instead of

The implementation of Environmental Management Plan shall be strictly adhered-to and a sum of Rs.114.44 Crores the budgetary provisions for implementation of EMP shall be fully utilized and not to be diverted for any other purpose

2. All other terms and conditions of the Environmental Clearance Letter no. J-12011/15/2010-IA-I dated 21.2.2013 remains unchanged.
3. This issues with the approval of the Competent Authority.

Yours faithfully,


(B.B.Barman)
Director

Copy to:

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi-1.
2. The General Manager (CP &M/Envnt), M/s. Satluj Jal Vidyut Nigam Ltd, Himfed Building, New Shimla -171 009 (Himachal Pradesh)
3. The Adviser (Power), Planning Commission, Yojna Bhawan, New Delhi-1.
4. Principal Secretary (MPP & Power), Government of Himachal Pradesh, Chota Shimla.
5. The Secretary, Department of Environment, Government of Himachal Pradesh, Chota Shimla.
6. The Chief Engineer, Project Appraisal Directorate, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110 066.
7. The Northern Regional Office, Ministry of Environment & Forests, Bays No. 24-25, Sector 31-A, Dakshin Marg, Chandigarh-160 022 (UT).
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-110 003.
10. PS to JS(MS)/Director (BB)/PVS Rao (Sci-B).
11. Website of MoEF through NIC Cell.
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(B.B.Barman)
Director