



भारत सरकार
पर्यावरण एवं वन मंत्रालय
GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT AND FORESTS

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R. No. J-12011/47/2009-IA-I

Date: 30th July, 2012

To

Shri Awadhesh Kumar Jha
Head - Hydro Development
M/s Moser Baer Projects Pvt. Ltd.
213 B, Okhla Industrial Estate
Phase - III
New Delhi - 110 020

Subject: Miyar 120 MW Hydroelectric Power Project on Miyar Nalla in District Lahul & Spiti of Himachal Pradesh by M/s Moser Baer Projects Pvt. Ltd. - Environment Clearance regarding.

Sir,

This is with reference to your communication No. MHEPCL/Miyar/Environmental Clearance/2011-12/516 dated 2nd June, 2011 on the above mentioned subject.

2. It is noted that the proposed project is a Run-of-River scheme and is on Miyar Nalla which is a right bank tributary of Chenab River in Lahaul & Spiti District of Himachal Pradesh. The project envisages construction of a 27 m high barrage from the river bed level with FRL at EL 2845 m and MDDL at EL 2837.2 m with a live storage of 0.9 MGM. The barrage will be near Sakoli village. Head Race Tunnel will be 6.65 km long with a 4.7 m finished diameter having three Adits. A Surface Power House will be located near Udaipur town on the right bank of Chenab River and shall house 3 units of 40 MW each. The tail race will be located on the right bank of the Chenab River and minimum tail water level will be EL 2608.80 m. Total Land requirement for the project is 69.94 ha out of which 63.06 ha is forest land and 6.88 ha is private land. Total submergence area is 15.76 ha. Compensatory Afforestation is proposed on 126 ha of degraded forest land. Tingit project is upstream having TWL of EL 2865m and there is a clear 1.13 km of free stretch between tip of the Miyar reservoir and Tail Water Level of Tingit upstream project. There is no fish in the Miyar nalla nor does any fish breeding/migration take place through this nallaha. The total cost of the project is estimated as Rs. 731 Crore out of which Rs. 36 Crore shall be for EMP and construction period is 7 years.



जहाँ है हरियाली।
वहाँ है खुशहाली॥

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Website : moef.nic.in



XI Conference of Parties
CONVENTION ON BIOLOGICAL DIVERSITY
HYDERABAD INDIA 2012

3. The Project proposal was considered by the Expert Appraisal Committee for River Valley & Hydroelectric Power Projects in its 53rd meetings held on 11th-12th November 2011. Public Hearing for the project was conducted on 9th May 2011 at Udaipur in Lahaul & Spiti District of Himachal Pradesh. First stage Forest Clearance for 63.0596 ha has been recommended by the FAC and accorded by the MoEF on 27th July, 2012.

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 in 2009 subject to compliance of the following conditions:

Part A : Specific Conditions

- (i) The Catchment Area Treatment Plan as proposed in the EIA/EMP Report shall be undertaken in consultation with the State Forests Department and major work shall be completed before impounding of reservoir.
- (ii) All the commitments made during the public hearings shall be fulfilled completely.
- (iii) The details of land holding of project affected persons whose land is being acquired shall be submitted to this Ministry. The 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.
- (iv) 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.
- (v) Muck Management Plan as given in the EIA/EMP Report shall be strictly implemented. Consolidation and compilation of the muck shall be carried-out only in the designated muck dumping sites. As per the proposed muck disposal plan, about 4,59,254 cum of muck is expected to be generated after deducting 25% of utilizable muck. The muck shall be disposed of only at four designated locations approved by State Pollution Control Board. For Muck Dumping Site-3, which is only about 12 m from HFL, an RCC retaining structures upto the requisite height shall be provided to ensure that muck does not roll down to river. Retaining structures shall be constructed before



dumping any muck at any site. The sites shall be restored once the construction is over.

- (vi) There are no fish in the Miyar nalla however, as proposed by you, Rs. 89.60 Lakh shall be budgeted for Fisheries Development Plan for considering the possibility of developing snow trout in the area in future. This shall be implemented in consultation with State Fisheries Department.
- (vii) A minimum water discharge of 1.04 cumecs i.e. 28% of the minimum discharge available during four leanest months of the 90% dependable year shall be released as environmental flow for sustenance of aquatic life and downstream use. Monsoon flow shall be at least 30% of the Monsoon discharge.
- (viii) The environmental flow shall be through an ungated/uncontrolled opening (without any valve) in one of the piers. Design aspect of the same would be discussed with CWC to ensure that no choking takes place in this opening.
- (ix) Continuous Monitoring system for environmental flow measurement shall be installed and data shall be displayed at appropriate site for information of civil society and stake holders. Six monthly results shall be submitted to the concern Regional Office of the Ministry and SPCB.
- (x) 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 systems shall be installed in consultation with the downstream District Authorities.
- (xi) As proposed in the EMP, the Afforestation Programme on about 128 ha of land shall be undertaken immediately @ 1500 plants per hectare. Native species should be preferred in plantation.
- (xii) 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. 20 lakhs shall not be diverted to any other purpose.
- (xiii) The Biodiversity Conservation and Wildlife Management Plans, as proposed in the EMP shall be taken up immediately and implemented in consultation with the State Forest Department without any diversion of allocated funds. A report of implementation



shall be included in the sixth monthly compliance report to be submitted to the Ministry.

- (xiv) A minimum of 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.
- (xv) 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. The vegetative cover as proposed for Noise mitigation measures may not be effective therefore, other measures like construction enclosures, use of silent generators etc. should also be used during construction.
- (xvi) Quarry sites shall be restored once construction is over.
- (xvii) The project falls in seismic zone -V. The site specific responses spectra study has been carried out by Department of Earthquake Engineering, IIT Roorkee. Approval from NCSDP shall be obtained before starting construction for the project.
- (xviii) A provision of Rs. 10.96 Crore earmarked towards the Local Area Development Activities shall not be diverted for any purpose. The activities as submitted to the Ministry shall be taken up as soon as possible. This will be in addition to Rs. 2.40 Crore earmarked for Corporate Social Responsibility (CSR).
- (xix) Any other clearance from any other organization/department, if required, shall be obtained.

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 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 should be made to suppress the fugitive emissions.
 - (v) Potable drinking water and proper sanitary facilities shall 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 levelling, filling up of burrow pits, landscaping etc. The area should be properly treated with suitable plantation.
 - (vii) Environmental parameters shall be monitored and six monthly reports shall be submitted to the concerned 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 hard copies as well as by e-mail) to the respective Regional Office of MoEF 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 of relevant Regional Office of MOEF who would be monitoring the implementation of environmental safeguards.
6. 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.
7. 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.
8. 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.
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.
10. 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 organise six monthly meetings of the Committee and submit the monitoring report to the Ministry.

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 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. 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.

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 and Zonal Office of CPCB and the SPCB.

Yours faithfully,


(Sanchita Jindal)
Director

Copy to:

1. The Secretary. Ministry of Power, Shram Shakti, Bhawan, Rafi Marg, New Delhi-110 001.
2. The Adviser (Power), Planning Commission, Yojna Bhawan, New Delhi-110 001.
3. The Principal Secretary (MPP & Power), Government of Himachal Pradesh, Shimla.

4. The Secretary, Department of Environment, Government of Himachal Pradesh, Shimla.
5. The Chief Engineer, Project Appraisal Directorate, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi- 110 066.
6. The Regional Office, Ministry of Environment & Forest, Chandigarh.
7. The Member Secretary, Himachal Pradesh State Pollution Control Board, Phase-III, Him Parivesh, New Shimla- 171 009.
8. Guard file.

(Sanchita Jindal)
Director