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भारत सरकार
पर्यावरण एवं वन मंत्रालय
GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT & FORESTS
पर्यावरण भवन, सी. जी. ओ. कॉम्प्लेक्स
PARYAVARAN BHAVAN, C.G.O. COMPLEX
लोदी रोड, नई दिल्ली-110003
LODHI ROAD, NEW DELHI-110003

No. J-12011/51/2007-IA.

Dated : February 29 , 2008

Dr (Mrs). Usha Bhatt
Chief (Environment)
National Hydroelectric Power Corporation Ltd
NHPC Office Complex
Sector-33
Faridabad – 121 003 (Haryana)

Subject : Pakal Dul (Drangdhuran) Hydroelectric Project 1000 MW (5 x 200 MW) in the District Kishtwar, Jammu & Kashmir by M/s. National Hydroelectric Power Corporation Ltd -- Environmental Clearance regarding.

Sir,

This has reference to your letters No. NH/PD/Env.90/1624 dated 9.7.2007, 25.9.2007 and subsequent letter dated 15.1.2008 on the above cited subject.

2. The above referred proposal was considered by the Expert Appraisal Committee for River Valley & Hydroelectric projects in its meeting held on 14.11.2007 and reconsidered on 17.01.2008. The project envisages construction of 167 m high concrete faced Rockfill dam, 2 Head Race Tunnels of 10 km length (each) and an underground powerhouse located on right bank across river Chenab, near village Trimuli. The proposed project will submerge 288 ha of land. The total land requirement will be 1163.898 ha. Out of which 697.228 ha is forest land including 386.186 ha of which is falling under Kishtwar High Altitude National Park (KHANP) and 466.67 ha is private/ revenue land. 6 villages consisting of 619 families are going to be affected. The total cost of the project is about Rs. 5088.88 Crores and the project will be completed in 72 months.

3. The Ministry of Environment and Forests hereby accords environmental clearance as per the provisions of Environmental Impact Assessment Notification, 1994 & 2006 subject to strict compliance of the terms and conditions as follows:

Part A: Specific Conditions

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

Treatment Measures	Year I	Year II	Year III	Year IV	Year V	Total
(A) Biological Measures						
Afforestation (ha)	570	490	325	247	0	1632
Assisted natural regeneration in existing forests (ha)	50	44	30	20	0	144
NTFP regeneration (ha)	45	40	25	16	0	126
Pasture Development (ha)	280	240	150	119	0	789
(B) Engineering Measures						
Brushwood check dams (nos.)	90	90	90	29	0	299
DRSM (ha)	503	430	288	144	73	1438
Crate Works (ha)	520	450	300	150	91	1511
Bench Terracing (ha)	780	670	450	225	113	2238

- (ii) During the construction of the project, if any person/family whose acquired land is more than 70% of the total land holding is identified, such family/person shall be treated as fully affected families. R&R package proposed for the displaced families shall be extended to such families. NPRR – 2007 package will be followed for R&R of PAPs.
- (iii) 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.
- (iii) The commitment made during the public hearing should be fulfilled.
- (iv) All the equipment which are likely to generate high noise levels are to be fully equipped (noise reduction measures) to meet the ambient noise control standards.
- (v) 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 70.85 lakh cumecs of muck disposal- i.e. about 34 lakh cumec is proposed to reutilize during construction and the remaining 36.86 lakh cum of muck disposal at two designated areas (DS1-powerhouse site- 14.37 lakh cumecs ; DS 2- dam site-22.48 lakh cumecs) should be strictly implemented.
- (vi) The fishery management plan as proposed in the letter dated 15.01.2008 should be implemented in totality. The total budget of Rs.339.24 lakhs for the fishery development and conservation in the Marusundar river basin should not be diverted for any other purpose.
- (vii) The following conditions imposed by the Standing Committee of National Board for Wildlife (NBWL) while recommending the proposal for denotification of KHANP area, shall be strictly complied:

- a) Provisions proposed for the habitat improvement in the Mitigation Plan should be discussed with Wildlife Institute of India(WII), Dehradun and be modified accordingly.
 - b) State Wildlife Department may redefine the core area of the National Park considering the human population pressure etc.
 - c) NHPC would provide a total of Rs.236 Crores including Rs.100 Crores for the corpus fund for the protected area for the conservation of the wildlife.
- (viii) No construction work/activity should be initiated till Supreme Court grants dereservation of National Park area.
 - (ix) Clear felling of trees should be restricted to 4 m. below the F.R.L and a 50 m. green belt should be created around the reservoir periphery.

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/s may be opened at the site to provide the fuel (kerosene/wood/LPG). Medical facilities as well as drinking water & 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 borrow pits, landscaping etc. The area should be properly treated with suitable plantation.
- (v) The total amount of Rs. 9979.29 lakhs kept in the budgetary provisions for implementation of environmental management plan should be strictly adhered and not to be diverted for any other purpose
- (vi) A Multidisciplinary committee in consultation with the Ministry should be constituted with Ecologists, Environmental Scientists, Conservationists and experienced administrators etc. to oversee the effective implementation of the suggested safeguard measures.
- (vii) Six monthly monitoring reports should be submitted to the Ministry and its Regional Office, Chandigarh for review.

4. 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.

5. The responsibility of implementation of environmental safeguards rests fully with the NHPC Ltd. & Government of J&K.

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

7. The project involves 386.186 ha of forest land falling under KHANP. This clearance is subject to Hon'ble Supreme Court's permission with respect to de-reservation of part of KHANP.

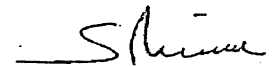
8. The Ministry reserves the right to add additional safeguard measures subsequently, if found necessary and to take action including revoking of the clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time-bound 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 copy of the clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom any suggestion/ representation has been received while processing the proposal.

11. State Pollution Control Board / Committee should display a copy of the clearance letter at the Regional Office, District Industries Center and Collector's office/ Tehsildar's office for 30 days.

12. The project proponent should advertise within 7 days 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 letters 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](http://www.envfor.nic.in).



(Dr. S. Bhowmik)
Additional Director

Copy to:

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi-1
2. The Secretary (Environment & Forests), Government of Jammu & Kashmir, Srinagar
3. The Adviser (Power), Planning Commission, Yojna Bhawan, New Delhi - 110001.
4. The Chief Engineer, Project Appraisal Directorate, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.
5. The Regional Office, Ministry of Environment & Forests, Chandigarh.
6. Member Secretary, J&K State Pollution Control Board, Srinagar
7. EI- Division, Ministry of Environment & Forests, New Delhi-110003.
8. Guard file.



(Dr. S. Bhowmik)
Additional Director