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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

File No.J.12011/56/2002-IA1

Dated: 20.2.2003

To

The Chief Engineer
Power & Electricity Department,
Government of Mizoram,
AIZWAL,
MIZORAM.

Sub: **Bairabi Dam & Hydroelectric Project, Mizoram –Environmental
Clearance-reg.**

Sit

Please refer to your letter No.F.18012/5/02-P&E dated 21.11.2002 and other letters, on the above subject.

2 The above referred proposal was reconsidered by the Expert Committee for River Valley & Hydroelectric projects at its meeting held on 16.1.2003. Bairabi Dam Project envisages construction of 62 m high earth filled dam on River Dhaleshwari, 3.5 Km upstream of Bairabi Village in Kolasib District, Mizoram. The reservoir area is 106 sq kms and will store 2,106 Mcm of water at 75 m FRL. The reservoir will stretch to about 70 kms upstream and will submerge 3 villages fully and 3 villages partially. The project envisages generation of 2X40 MW power. The cost of the project is Rs.429.01 crores at 2000 prices. The surface powerhouse is located on the left bank of river Dhaleshwari, 250 meter downstream of the dam. The dam is located in a narrow gorge that runs over a length of 1.2 Kms.

3. The Environment Management Plan submitted has been examined. The Ministry of Environment and Forests hereby accords environmental clearance as per the provisions of Environmental Impact Assessment Notification, 1994, subject to strict compliance of the terms and conditions as follows:

Part A: Specific Conditions

(i) 2,63,400 ha. degraded catchment area is to be treated in six years. An index map of catchment area indicating yearwise physical target should be submitted within two months from date of issue of this letter. Action plan for catchment area treatment as proposed in the letter of the consultant dated 28th January, 2003 should be implemented in toto. The agency responsible for implementation should be intimated to this Ministry along with the Index Map. The plan is reproduced below -

Biological measures (Area in ha)

Sl.No	Item of work	1 st yr	2 nd yr	3 rd yr	4 th yr	5 th yr	6 th yr
1.	Soil Conservation Plantations						
	1) Planting in Gully Head	25	50	75	25	25	-
	2) 1 st year planting	25	50	75	25	25	-
	3) 2 nd year planting	25	50	75	25	25	-
	4) 3 rd year planting	25	50	75	25	25	-
		100	200	300	100	100	

Engineering measures.(in number)

Sl. No.	Name of the work	1 st yr	2 nd yr	3 rd yr	4 th yr	5 th yr	6 th yr
A	Gully control Measures:						
	1. Siltation Check Dam:						
	1) Gabionic Check Dam (Large)	5	10	15	10	5	5
	2) Gabionic Check Dam (Medium)	10	20	30	20	10	10

	3) Gabion Check Dam (Small)	20	40	60	40	20	20
	Total	35	70	105	70	35	35
	2. Vegetative Check Dam:						
	1) Vegetative Check Dam (Large)	10	20	30	20	10	10
	2) Vegetative Check Dam (Medium)	20	40	60	40	20	20
	3) Vegetative Check Dam (Small)	40	50	80	50	40	40
	Total	70	110	170	110	70	70
B	S.B.E.C. Measures:						
	1) Gabion Spur	20	40	60	40	20	20
	2) Molly Bamboo Spur	20	40	60	40	20	20
	3) Rua Bamboo Spur	40	80	120	80	40	40
	4) Wooden Spur	20	40	60	40	20	20
	Total	100	200	300	200	100	100
C	Silt Retention Dam						
	1) Gabion Silt Retention Dam(L)	10	20	30	20	10	10
	2) Gabion Silt Retention Dam(M)	1	2	2	0	0	0
	3) Gabion Silt Retention Dam(S)	10	20	30	20	10	10
	4) Vegetative Silt Retention Dam(L)	5	10	15	10	5	5
	5) Vegetative Silt Retention Dam(M)	10	20	30	20	10	10
	6) Vegetative Silt Retention Dam(S)	10	20	30	20	10	10
	7) Hand Packed Stone Masonry SRD	10	20	30	20	10	10
	Total	56	112	167		55	55
D	Slope Agricultural Technology						
	1) Contour Trenching	20	40	60	40	20	20
	Total	20	40	60	40	20	20

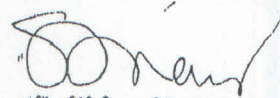
- (ii) 724 families from six villages will be affected. The affected families should be rehabilitated as per R&R package proposed in the EIA report. A Monitoring Committee shall be set up for monitoring implementation of the R&R plan. The committee should include women representative from the project affected persons.
- (iii) Three Monitoring Stations for recording seismic data and Advance Warning Systems to be set up in the Dhaleswari River Valley.
- (iv) Farmers in the catchment areas may be advised to adopt rice-wheat-pulse(green gram) cropping system instead of single crop.

- (v) The implementation of resettlement action plan will be scheduled as per the activities and time chart given in Annexure-I.

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 may be opened at the site to provide the fuel(kerosene/wood/L.P.G). Medical facilities as well as 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 burrow pits, landscaping etc. The area should be properly afforested with suitable plantation.
- (v) Financial provision should be made in the total budget of the project for implementation of the above suggested safeguard measures.
- (vi) A Multidisciplinary committee should be constituted with representatives from various disciplines of forestry, ecology, wildlife, soil conservation, NGO 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, Shillong for review.
4. Officials from Regional Office MOEF, Shillong who would be monitoring implementation of environmental safeguards should be given full cooperation, facilities documents / data by the project proponents during their inspection.

5. The responsibility of implementation of environmental safeguards rests fully with the Government of Mizoram.
6. In case of change in the scope of the project, project would require a fresh appraisal.
7. 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.
8. This clearance letter is valid for a period of five years from the date of issue of this letter.
9. 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.
10. 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.
11. 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 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>


(S. Shiva Kumar)
Director (IA)

Copy to:

1. The Secretary, Ministry of Water Resources, Shram Shakti Bhawan, Rafi Marg, New Delhi.
2. Secretary, Department of Irrigation, Government of Mizoram, Aizwal.
3. The Chief Engineer, Project Appraisal Directorate, Central Water Commission, Sewa Bhawan, R.K. Puram, New Delhi.
3. The Adviser (Irrigation & CAD), Planning Commission, Yojna Bhawan, New Delhi.
4. The Regional Office, Ministry of Environment & Forests, Shillong.
5. EI- Division, Ministry of Environment & Forests, New Delhi-110003.
6. Guard file.


(S. Shiva Kumar
Director (IA