

K. S. S.
03/03/2011

Kind Attention :- Shri N. TAMU

No. J-12011/42/2008-IA-I
Government of India
Ministry of Environment & Forests
[A.I - Division]

Paryavaran Bhavan
CGO Complex, Lodhi Road
New Delhi - 110 003

Dated - 17.1.2011

Shri. R. Ramakrishna Paramahansa
General Manager
M/s. SEW Nafra Power Corporation Pvt. Ltd
6-3-871, Snehalatha
Greenlands Road, Begumpet
Hyderabad- 500016

Subject : Nafra HEP (96MW) in West Kameng District of Arunachal Pradesh by
M/s SEW Nafra Power Corporation Pvt. Ltd - Environmental
Clearance - Regarding.

Sir,

This has reference to your letter no. SEL/NHEP/T/2010/61 dated 8.6.2010 and subsequent letters dated 9.7.2010, 16.7.2010, 6.12.2010 and 3.1.2011 on the above subject.

2. The project envisages construction of 40 m high concrete gravity dam across Bichom River near Nafra town in West Kameng District of Arunachal Pradesh. The project is run-of-the-river scheme. The total land requirement is 78.45 ha out of which 33.94 ha is forest land (29.29 ha will be required permanently and 4.65 ha temporarily). Total submergence area is 32.67 ha. Only 2.3 ha of the total submerged land is under private possession (5 families) and used for agriculture/horticulture purpose. No residential land is getting submerged. A surface powerhouse is proposed on the right bank of the river with 2 units of 48 MW each. No National Park/Sanctuary/Biosphere Reserve/Historical monument exists in the vicinity of the project area. The total project cost is about Rs.690.70 Crores and will be completed in 36 months.
3. The above proposal was considered by the Expert Appraisal committee (EAC) for River valley & Hydroelectric projects at its meeting held on 17.7.2010 and 24.9.2010.
4. The Ministry of Environment & Forests here by accords Environmental Clearance as per the provisions of Environmental Impact assessment Notification, 2006 subject to strict compliance to the following terms & conditions.

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Part A: Specific Conditions

- (i) Catchment Area Treatment Plan as has been proposed should be completed in 3 years. The plan is given below:

| Treatment Measures | I-Year | II-Year | III-Year | Total |
|---|--------|---------|----------|--------|
| (A) Biological Measures | | | | |
| i. Afforestation (ha) | 199.3 | 58 | 82 | 339.3 |
| ii. Assisted natural regeneration in existing forest (ha) | 247.51 | 105 | 112.62 | 465.03 |
| iii. NTRF Regeneration (ha) | 200.25 | 137.72 | 85 | 422.97 |
| iv. Pasture development (ha) | 148.25 | 128 | 78 | 352.25 |
| v. Nursery Development | 1 | - | - | 1 |
| (B) Engineering Measures | | | | |
| i. Brushwood check-dams (Nos) | 68 | 25 | 52 | 173 |
| ii. DRSM check-dams (Nos) | 103 | 56 | 47 | 205 |
| iii. Contour Bunding (ha) | 640.3 | 323 | 137 | 1000.3 |
| iv. Bench terracing (ha) | 630 | 221 | 162 | 1013 |

- (ii) The land holding of project affected persons whose land is being acquired to 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). Adequate publicity of the compensation package of NRRP 2007 should be circulated in the affected villages.
- (iii) During the construction period all the equipment which is likely to generated high noise is to fully (Noise reduction measures) meet to the ambient noise control standards.
- (iv) During lean season 1.7 cumec water has to be released for maintaining the aquatic life in the downstream.

- (v) Disaster Management plan as proposed in the dam break analysis report should be prepared and implemented in totality. The project Incharge of the Nafra HEP shall be the main co-ordinator of Emergency Action Plan.
- (vi) Consolidation and compilation of muck should be carried-out in the muck dumping sites and the dumping sites should be above high flood level. The proposed plan for generated muck of 14.78 lakh m^3 in the project i.e about 3.6 lakh m^3 is proposed to be reutilize for the construction material & other filling purposes and remaining 11.18 lakh m^3 of muck will be disposed of at 2 designated disposal areas in 6.26 ha. specified for this purpose.
- (vii) Afforestation Programme on 157 ha. as proposed at village Rurang along-with Bomadilla Forest Division should be strictly taken-up. The allocated grant of Rs. 725.4 lakhs should not be diverted to any other purpose.
- (viii) The fishery development as proposed in the reservoir & river stretches (upstream/downstream) should be taken-up strictly & fishery development & management plan should be implemented in totality. The rate of stocking as proposed 100 fingerlings of about 30 mm size per kilometer should be strictly adhered. The creation of hatchery at Khellong village should be taken-up immediately. The allocated provision of 150.1 lakhs should not be diverted to any other purpose.
- (ix) Development of Biodiversity Conservation & Management Plan consisting of development of echo Friendly Park in an area 20 ha land in Khellong village should be implemented in consultation with State Forest Department. Anti-poaching measurements should also to be implemented. A budget of Rs. 140.75 lakhs provided for the Biodiversity Conservation and wildlife management Plan should not be diverted for any other purpose.
- (x) The commitments made during the public hearing should be fulfilled.
- (xi) Any other clearance from any other organization/department if required should be obtained.

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/LPG).

- (iii) Medical facilities as well as recreational facilities should also be provided to the labourers.
 - (iv) All the labourers to be engaged for construction works should be provided with PPE (Personal protective Equipments like Helmets/Gloves/Earplugs/Shoes etc.) depending upon their nature of work.
 - (v) Water sprinkling arrangements should be made to suppress the dust and fugitive emissions.
 - (vi) Potable drinking water and proper sanitary facilities should be provided for the labour force.
 - (vii) 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.
 - (viii) Financial provision should be made in the total budget of the project for implementation of the above suggested safeguard measures.
 - (ix) Six monthly monitoring reports should be submitted to the Ministry and its Regional Office, Shillong for review.
 - (x) The project proponent should also submit six monthly reports on the status of compliance to 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.
5. Officials from Regional Office MOEF, Shillong 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.
6. The responsibility of implementation of environmental safeguards rests fully with the M/s. SEW Nafra Power Corporation Pvt. Ltd & Government of Arunachal Pradesh.
7. The total amount of Rs. 3590.33 lakhs kept in the budgetary provisions for implementation of environmental management plan should be strictly adhered and not be diverted for any other purpose.
8. In case of change in the scope of the project, project would require a fresh appraisal.
9. 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.


10. The clearance is valid for a period of 10 years from the date of issue of this letter for commencement of construction work.

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, if any, 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>.

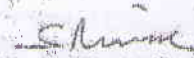
13. The project proponent shall also submit six monthly reports of the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional office of MOEF, the respective office of CPCB and the SPCB.

Yours faithfully


(Dr. S. Bhowmik)
Additional Director

Copy to:

1. Secretary, Min. of Power, Shram Shakti, Bhawan, Raj Marg, New Delhi-1
2. The Advisor(Power), Planning Commission, Ypna Bhavan, New Delhi-1
3. The Secretary, Department of Power, Govt. of Arunachal Pradesh, Itanagar.
4. The Secretary, Department of Forest, Environment & Wildlife Management, Government of Arunachal Pradesh, Forest Secretariat, Itagar.
5. The Chief Engineer, Project Appraisal Directorate, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.
6. The CCF, Regional Office, Ministry of Environment & Forests, Upland Road, Laitumkhrah, Shillong-793003, Meghalaya.
7. The Member Secretary, State Pollution Control Board, Department of Forests, Environment & Wildlife Management, Itanagar (Arunachal Pradesh).
8. E1-Division, Ministry of Environment & Forests, New Delhi-110003.
9. Guard file.


(Dr. S. Bhowmik)
Additional Director