

No. J-12011/55/2006-IA.I  
Government of India  
Ministry of Environment & Forests

Paryavaran Bhawan,  
C.G.O. Complex, Lodi Road,  
New Delhi-110003

Dated: 21<sup>st</sup> September, 2006

Shri R B Srinagesh  
General Manager ( Fin. & Accts)  
Lanco Energy Pvt. Ltd.  
Upper Ground Floor,  
Antriksh Bhawan,  
22, K. G. Marg  
New Delhi - 110001

Subject - Teesta Stage - VI HEP (500 MW) in Sikkim - Environment Clearance regarding.

Sir,

This has reference to your letter No.LEPL/MoEF/06/062, dated 7<sup>th</sup> July, 2006 and subsequent letters dated 08.08.2006 and 18.08.2006 respectively on the subject.

2. The above referred proposal was considered by the Expert Committee for River Valley & Hydroelectric projects at its meeting held on 19.07.2006 and reconsidered on 23.8.2006.

3. The Teesta Hydroelectric Project stage VI envisages construction of a barrage of 18m height from the river bed level is proposed at Sirwani in South Sikkim district to generate 500 MW electricity. The proposed scheme is run of the river and the barrage will submerge 36 ha of land. 111 families will be losing a part of their agricultural land. Total land requirement is 147.7358 ha. Out of which 67.43 ha. is forest land. Forest Clearance is yet to be obtained. No human population will be displaced. Public hearing was held on 21st June, 2006. The estimated cost of the project is Rs. 2636.00 Crores excluding IDC and other finance costs.

4. 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) Biodiversity conservation plan as proposed in the EMP should be implemented in toto in the identified locations (Annexure).
- ii) For propagation of migratory fishes a fish farm/hatchery shall be developed as proposed vide letter dated 18<sup>th</sup> August 2006. As breeding of Mahseer fish is difficult in captivity, procedure to be adopted for propagation of Mahseer in hatchery should be submitted within six months from the date of issue of this letter.
- iii) The Catchment Area Treatment Plan as has been proposed should be completed in four years. The plan is reproduced below:

FIVE YEAR CATCHMENT AREA TREATMENT ACTION PLAN TEESTA STAGE VI H.E. PROJECT.								
S.N O.	ITEMS OF WORKS	Unit	1st Yr	2nd Yr	3rd Yr	4th Yr	5th Yr	TOTA L
I	FOREST LAND							
A	BIOLOGICAL MEASURES							
1	Aided Natural Regeneration	Ha	20	30	30			80
2	Aided Natural Regeneration	Ha	150	350	350	350		1200
3	Medicinal Plantation	Ha	50	50				100
4	Medicinal Plantation	Ha	50	50				100
5	Sowing and dribbing in land Slide areas	Ha				10	10	20
6	Artificial regeneration	Ha		300	400	400	400	1500
7	Silvifuture Development	Ha		30	30	40		100
8	Bamboo (Pareng Plantation)	Ha		30	30	40		100
10	Barbed wire fencing	km	5	5				10
11	Maintenance of aided natural regeneration and other plantations	Ha	270	810	810	800	410	3100
12	Vegitative fencing with Jatrofa in rows	km	15	10				25

Continued.....

<b>B</b>	<b>ENGINEERING WORKS</b>						
1	Jhora Training with sunsage wall with drops	m <sup>3</sup>	1000	700	300		2000
2	Dry Stone Wall	m <sup>3</sup>	1200	600	200		2000
3	Catch Water Drains	m	1400	400	200		2000
4	Bally fencing	Ha	40	10			50
<b>II</b>	<b>AGRICULTURE LAND</b>						
<b>A</b>	<b>BIOLOGICAL MEASURES</b>						
1	Fodder Deveolpment	Ha			200	400	400
2	Agro Forestry (200 palnts per ha)	Ha			200	400	400
3	Jatropha Plantation (Uncultivable lower areas)	Ha	100				100
<b>B</b>	<b>ENGINEERING WORKS</b>						
1	Jhora Training with sunsage wall with drops	m <sup>3</sup>	1400	400	200		2000
2	Dry Stone Wall	m <sup>3</sup>	1400	400	200		2000
3	Catch Water Drains	m	1400	400	200		2000
4	Bally fencing	Ha	40	10			50

iv) Considering the landslide prone areas, the tunneling should be done, with great care under close supervision.

v) A monitoring committee should be constituted which must include representatives of project affected persons from SC/ST category and a women beneficiary.

vi) All the assurances/ commitments given by the project authority in the Public Hearing must be honoured in letter and spirit.

vii) Forest Clearance should be obtained for acquiring 67.43 hectare forest land & submitted.

viii) During the lean season 10% of available water (82.5 cumec) should be released downstream of the dam for sustenance of aquatic life.

ix) Any other clearance from any other organization 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/LPG). 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 treated 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.

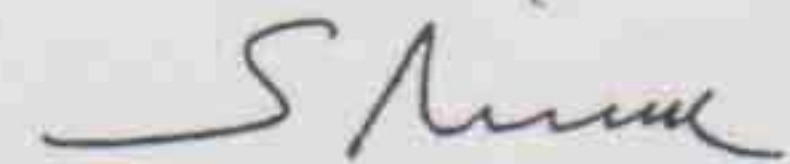
4. Officials from Regional Office MOEF, Shillong who would be monitoring the implementation of environmental safeguards should be given full facilities and documents / data by the project proponents during their inspection.

5. The responsibility of implementation of environmental safeguards rests fully with the M/s Lanco Energy Private Limited & Government of Sikkim.

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 for commencement of construction work.
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 within seven days from the date of issue of the clearance letter, 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)

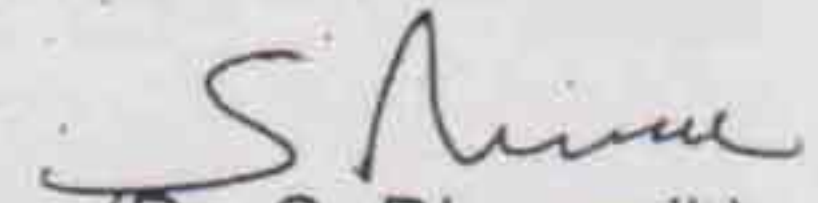
Yours faithfully,



(Dr. S. Bhowmik)  
Additional Director

Copy to:

1. The Secretary, Ministry of Power, Shram Shakti, Bhawan, Rafi Marg, New Delhi-110001.
2. Principal Chief Engineer cum Secretary, Energy & Power department, Government of Sikkim, Gangtok, Sikkim- 737102
3. The Secretary, Department of Forest, Environment & Wildlife Management, Deorali – Gangtok-737102..
4. The Adviser (Power), Planning Commission, Yojna Bhawan, New Delhi - 110001.
5. The Chief Engineer, Project Appraisal Directorate, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.
6. Chief Conservator of Forests, Ministry of Environment & Forests, Regional Office Sillong, Sikkim.
7. Member Secretary, State Pollution Control Board, Sikkim, Department of Forest, Environment & Wildlife Management, Deorali – Gangtok-737102.
8. EI- Division, Ministry of Environment & Forests, New Delhi-110003.
9. Guard file.


  
(Dr. S. Bhowmik)  
Additional Director

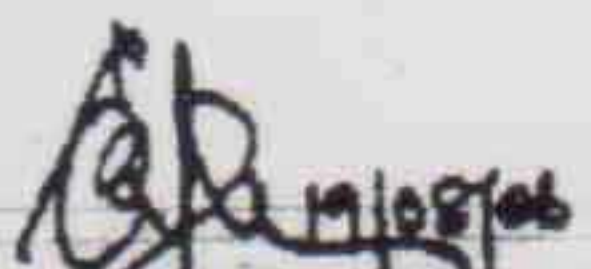
Locations selected for carrying out plantation of medicinal plants and block plantation within South Territorial Division, Namchi.

S.No	Location	Range	Medicinal plants (Ha)	
			2007-2008	2008-2009
1	Wok-Omchu RF	Namchi	4.0	4.0
2	Rabikhola RF	Melli	3.0	5.0
3	Challamthang RF	Namthang	4.0	4.0
4	Burul Khas	Namthang	5.0	3.0
5	Lingmoo RF	Lingmoo	4.0	4.0
	<b>Total</b>		<b>20.0</b>	<b>20.0</b>

S.No	Location	Range	Block Plantation (Ha)	
			2007-2008	2008-2009
1	Gyanchung RF	Namchi	4.0	3.0
2	Salghari RF	Melli	3.0	4.0
3	Famphok RF	Namthang	4.0	3.0
4	Kamrang RF	Namchi	3.0	2.0
5	Linkhim RF	Namthang	3.0	4.0
6	Borong RF	Rabongla	3.0	4.0
	<b>Total</b>		<b>20.0</b>	<b>20.0</b>

Location selected for afforestation w.r.t management of private land - Sanu-Pakhrin, Namchi Range-3.20 ha.



  
**UDAY GURUNG, SFS**  
 Divisional Forest Officer  
 South Territorial Division  
 Namchi, South Sikkim