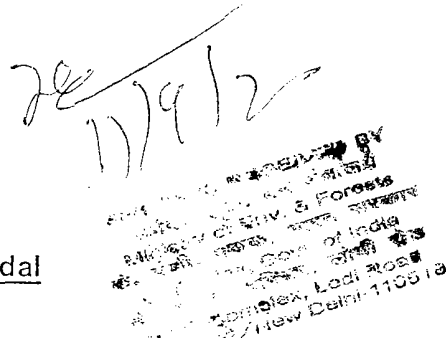


Ref. No: LTHPPL/EHS/2012/09/07

Date: September 07, 2012

To

The Director,
Ministry of Environment & Forest,
Paryavaran Bhawan,
CGO Complex, Lodhi Road,
New Delhi – 110003.



Kind Attn: Dr. Sanchita Jindal

Subject: Submission of Six Monthly Environmental Monitoring Report for the period of December -2011 to June 2012 of Teesta VI HEP (500 MW)

Dear Madam,

With reference to the above subject please find enclosed herewith Six Monthly Report for the period of December -2011 to June 2012 of Teesta VI HEP (500 MW) being executed by M/s Lanco Teesta Hydro Power Private Limited (LTHPPL).

Kindly acknowledge the receipt of the same.

Thanking you,

Yours faithfully,
For Lanco Teesta Hydro Power Private Limited

(Ajoy Kumar Paul)
AGM- HSE

Cc: Addl. Director, Regional Office – MOEF Shillong

(SIX MONTHLY PROGRESS REPORT)
(December 2011 to June 2012)
Status of Environmental Management Plan
Teesta VI (500 MW) HEP
M/s **LANCO TEESTA HYDRO POWER PVT. LTD.**
(Formally Known as Lanco Energy Pvt. Ltd.)



LANCO Teesta Hydro Power Private Limited
(Formally Known as Lanco Energy Pvt. Ltd.)
Plot No.-404-405, Udyog Vihar, Phase No-III
Gurgaon, Haryana-122016

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1. 500 MW Teesta VI HEP of M/s LANCO Teesta Hydro Power Private Limited "Six Monthly Progress Report" for the period ending Nov. 2011

1.	Name of the Project	Teesta VI Hydro Electric Project
2.	Type of the Project	River Valley hydro Electric Project (Run off the River)
3.	Clearance Letter(s) OM No. & Date a) Environment Clearance b) Forest Clearance	a. No. J-12011/55/2006-IA.I dated 21 st September 2006. b. 1004/1004(394-1)/ FEWMD on 29th May 2008
4.	Locations 1. District 2. State 3. Latitude 4. Longitude	South Sikkim Sikkim 27° 10'42"N 88° 30'40"E
5.	Address for correspondence: a) Address of concerned Project Head (with Pin code and telephone/fax nos)	Mr C.V.P. Rao LTHPPL, TEESTA VI HEP Majitar, East Sikkim-737136 Sikkim Contact No- 03592-246053 Fax No. 03592-246053
6.	Address of concerned Project Head at Corporate Office Chief (with Pin code and telephone/fax nos)	Mr. Supriyo Ganguly SPV Head Lanco Teesta Hydro Power Private Ltd. Plot No:404-405, Udyog Vihar, Phase III Gurgaon, Haryana- 122016. Office No- 0124-4741000 Fax No- 0124-4741400
7	Break-up of the project area (land details)	

	a) Submergence area Forest Non Forest b) Others Forest Non Forest	36 Ha 0.00 Ha 53.426 Ha 32.134Ha
8.	Break up of the project affected population with enumeration of those losing houses/ dwelling units only, agricultural land only. a) SC /ST /Adivasis b) Others	Nil Nil
9.	Forest land requirements Status of approval for diversion of forestland for non-forestry use	89.4266 Ha- As per Forest Clearance letter- 1004/ 1004 (394-1) /FEWMD ON 29 th May 2008.
10.	Status of construction Date of commencement (actual and/or planned)	Nov 2015
11.	Reasons for the delay, if the project is yet to be started	Not applicable
12.	Details of Site Visit a) By Regional Office b) By Monitoring Committee	
13.	Construction activities and status of Implementation of EMP	The details of the present status of the construction activities and the status of implementation of EMP are attached as Annexure-I
14	Brief note on the status of compliance of the conditions stipulated by MoEF	Status of compliance of the conditions stipulated by MOEF is enclosed as Annexure- II

Annexure-I

Status of implementation of EMP as per the progress of the construction

a) Solid waste collection and disposal

Vats fixed at various project sites for collection and disposal of solid waste at appropriate site.



Dustbin at the Project area

b) Muck Management and River Protection

- Muck generated due to project is being dumped at designated dump yards.
- Each dump yard is provided with adequate retaining structures such as crate walls, RRM walls, etc. as per requirement.
- The nala and river sections are provided with adequate protection measures such as crate wall and concrete plugs.
- All the portals of tunnels are provided with silt & sludge settling tanks. In the event of any damages due to landslides etc, the same are rectified.



Muck Management



River Protection Work

c) Air/Noise Pollution Management

- Ambient Air quality & Noise levels are monitored by M/s SGS Kolkata.
- Renewal of Consent to Establish for 500 MW Teesta VI HEP under Air Act, 1981, under Water Act & DG Sets obtained for the period up to March 2013.
- Water Sprinklers/Mist Nozzles are being used on regular basis in project roads to control the Fugitive dust (SPM).

- World Environment Day (WED) awareness camp were organized on 5th June 2012.
- The Monitoring Report is attached with the report.



Air Pollution control measures at Site

d) Water Quality Management

- Four number of water sampling locations have been identified in project area to monitor water quality of Teesta River and the adjoining streams. The main parameters being analyzed by M/s SGS Kolkata.
- Renewal of Consent to Establish 500 MW Teesta VI HEP under Water Act, 1974, obtained from SPCB for the period upto March 2013.
- Settling tanks have been constructed at each portal sites to arrest the sediments and sludge coming along with the tunnel water before discharging.
- The monitoring report is attached with the report.



Settling Tank & Sampling for Water Monitoring

e) Control of Pollution from Labour Camps

- Maximum labours in the project site are residing in the labour camp at Power House & Barrage site equipped with good sanitation facilities.
- Labours are using Kerosene Oil/LPG for their cooking purpose.
- Community Toilets are available with proper Septic Tanks & Soak pits for laborers and staff in the labour camp



Labour Camp and Community Toilets

f) Environmental Management during Road Construction

- Roads are constructed using cut and fill method. The muck retaining structures like RCC wall and Crate walls are constructed towards valley side and the RRM walls, Plumb walls or dry walls are constructed towards the hillside of the roads for protection purpose.

Plantation shall be carried out on both sides of constructed Road depending upon the availability of space.



RCC Road Side Protection & Road Side Plantation

g) Public Health Delivery System

- Dispensaries have been established at both Barrage and Power House Sites.
- Complete health screening and periodic health checkup of laborers is carried out on regular basis. Free of cost medical facility is provided to project employees as well as villagers.
- Four major health camps were organised for local people.
- In addition, medical team of Lanco is engaged in providing medical facilities to project-area villages as well as people from other near by areas.
- A medical camp was organized for physically handicapped people in which free artificial limbs were distributed.
- LANCO Mobile Health service provides medical facilities to the Villages near by the project area (10 in Nos.) on free of cost basis.
- Blood donation camps were organised by LANCO in the month of September 2011.
- A medical camp was organized for physically handicapped people in which free artificial limbs were distributed.
- School Health Camp organized in 2012.



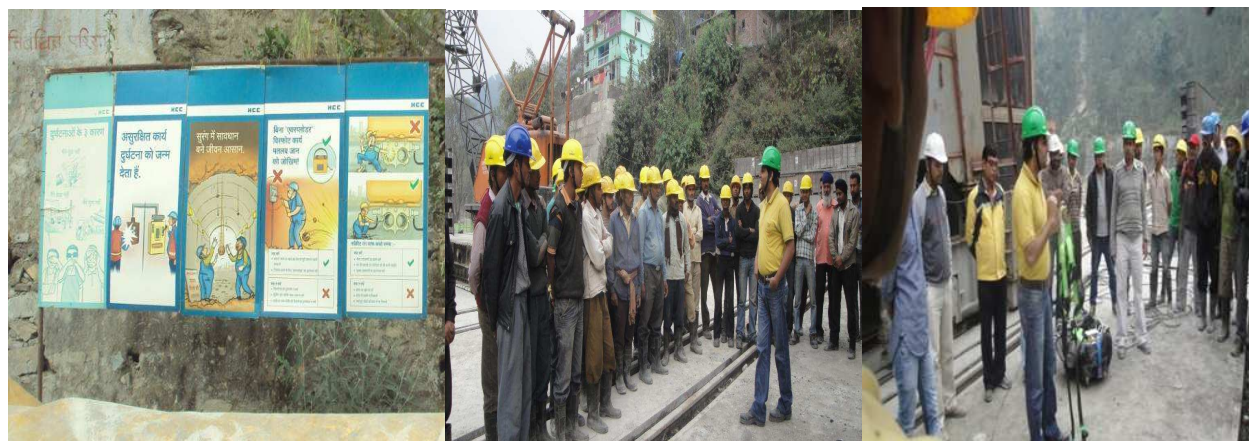
Health Check Up at Project Site & in Nearby Villages

Patients who benefitted by LANCO Mobile Medical facilities in the Period of December 2011 to June 2012

No. of Patients benefitted	836
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h) Safety Measures.

- Posters and slogans are used extensively to spread awareness among the laborers about importance of safety
- Safety instructions are given to laborers and staff regularly for each and every activity which includes tunneling.
- Safety drills are carried out on regular basis.
- We had celebrated safety week at our Plant Site for the increasing awareness level among the employees & labours.
- Safety department with Safety Officers and Supervisors have been appointed at site for effective monitoring and implementation of Safety related issues.
- All labourer and staffs are being provided with PPEs such as full body harness, high visibility jackets, Helmets, Safety shoes, Gloves, Gumboots, etc. as per work requirement.



Safety Instructions & Safety Training Conducted at Sites



Safety Day Celebrations at Sites

i) Community Kitchens

- LTHPPL & its Contractors have established seven No. of Community Kitchens covering staff of whole Project construction area.
- Hostels are equipped with recreation facilities like Televisions etc.



Community Kitchen for staff

j) Forest Protection Plan

Forest Dept. monitors the trespasses by installing a check post at Pamphok Village.

To maintain the Forest cover and the environment of the region, a Forest Protection Plan is being implemented by Forest Department at a cost of Rs 78 Lakhs. Entire amount has been deposited in CAMPA Fund as a part of forest clearance in May 2008.

Demarcation and fencing of diverted forestland has been done to avoid damage to near by area not diverted for the purpose.



Forest Check Post Construction & Distribution of Plantlets in the Project area for Forest Protection

k) Catchment Area Treatment Plan & Compensatory Afforestation Scheme

- Rs. 9.82 Crores has been deposited in CAMPA funds for the implementation of CAT works by State Forest Department.
- The Report on Implementation of CAT Plan is awaited from Forest Department.
- Rs. 1.14 Crores deposited towards the implementation of Compensatory Afforestation.
- Rs 5.68 Crores deposited in CAMPA Funds towards Net Present Value of the Forest cover in the project area.

l) Employment Opportunities

- Based on the skills and qualification, the employment preference has been given to local people from the Project area.
- More than 413 locals are employed in the Project activity based on their skills.

m) Economic Opportunities

Award of the petty contract- Local people have been given contract for activities like construction of drainage along the roads, protection works along new cuttings, plantation work, bush cleaning in the construction sites, etc. to benefit and facilitate economic opportunity. Around 500 subcontracts are awarded to local people till date.

Vehicle hiring- More than 35 Nos. of Vehicles are hired from locals to provide them economic benefits.

Contract for supply of ration and other material for community kitchen have been given to local vendors.

35 Nos. of buildings of locals are being rented for office setup & staff accommodation

n) Social Welfare Activities

M/s LTHPPL has undertaken following activities on regular basis for local area development-

a) Training & Employment

Bonafide students from project area villages and nearby areas are being given scholarship for education

90 Bonafide students from project affected villages and nearby areas are given scholarship for education

Given scholarship for 4 MBBS Students & 10 B .Tech Students from State of Sikkim



Distribution of Scholarship & School Development Grant for 2011-2012 in the Project area

b) Community Works



Constructed Community Hall in village Turung



Constructed Irrigation channel & water supply tank for villagers

C) World Environment Day Celebration- LTHPPL had celebrated WED 2012 in their plant area on the occasion of WED 2012 we had organized several Environment awareness activities such as plantation, Quiz, Rally, etc. among our employees as well as among the local school children.



Glimpse of the WED-2012 celebration at Site

d) List of Community Works

.No.	ctivities	lace of Work
1	Construction of Community hall at Turung village having seating capacity of 1500 nos.	Turung, South Sikkim
2	Fencing around Turung school play ground	Turung, South Sikkim
3	Motivating students towards better academic achievement by distributing study materials	Rangpo, Govt. school, South Sikkim
4	Constructed 46m steel bridge connecting Karek and Chalamthang villages across Kalej Khola	Karek, South Sikkim
5	Donated Rs.50 lacs in ChiefMinister's relief fund	For handling flood relief works in villages around Project area
6	Constructed 5 km of truckable road	Connecting Karek, Kabrey, Maneydara, Mamring with the district road (South Sikkim)
7	Donated 14,775 Reading glasses to GoS for onward distribution to various beneficiaries	For old poor people in Sikkim
8	Construction of water supply pipe line	Tarkhola & Mamkhola,
9	Distribution of tree guards & flower pots	Namchi, South Sikkim
10	Repaired jhula bridge across River Teesta	Chalamthang, South Sikkim
11	Constructed houses for local villagers	Mamring, South Sikkim
12	Irrigation channels were constructed for villagers	Kabrey , South Sikkim
13	Providing scholarship to bonafide students (65 Students) studying in schools (Class 6 – Graduation level) in Project vicinity regularly	Project vicinity (East & South district)
14	Constructed water supply tank and pipe line of 2.5 Km	Pamphok, South Sikkim
15	Installed fire fighting pump	Manpari, East Sikkim
16	Organizing medical health camps at Villages coming under project area.	Project Vicinity
17	Plantation of 2000 trees in Samurdung area to provide green cover and add up to the green mission initiated by the State Govt.	Karek, South Sikkim
18	Donations provided for organizing various cultural & religious events being organized	Marming/Shewani/Rangpo

.No.	ctivities	lace of Work
	in the State such as football matches, celebration of independence day, bhanu jayanti, durga puja etc.	
19	Recruited one teacher for Primary School	Tarkhola
20	Providing free medical checkup and free initial medicines for labours and their families	Sirwani, Singtam
21	Providing School Bus facility	Sirwani, Singtam (East Sikkim)
22	Plantation of Trees	Sirwani, Singtam (East Sikkim)
23	Provided machineries for school playground construction.	Temi Tarku Senior Secondary School (South Sikkim)

d) CSR Works Details for Year 2011

S.NO	CSR ACTIVITIES	TOTAL BENEFICIARIES
1	1st Dec.2011:Provided basis amenities to Turung Community Hall under infrastructure & Livelihood budget	Provided 2 set sofa,1 no center table,300 armless chair and electricity connection
2	3rd Dec. 2011: General Health Camp at Resep Saraswati Community Hall.	213 beneficiaries
3	16th Decm.2011:Elder Day celebration at Lower Nampbing Panchayat Bhawan	500 from 10 villages (project site).Distributed ladies and gents Sweter above 60 yrs of age.
4	21st Decm.2011: Disability Aids & Appliances Distribution Camp at Maney Dara Pnachayat Bawan.	58 beneficiaries
5	17th Dec.2011:Supplementary Education Cheque Distribution at Lanco Foundation site Office	21 students of Vikalang School, Gangtok.
6	29th Dec.2011:Professional Scholarship Cheque Distribution at Lanco Foundation site Office	2 students from project affected site.
7	20thJan.2012: Village Green Award Lanco Foundation site Office	50,000/- 1st prize to Karek Village. 30,000 /- 2nd prize to Maneydara Village. 20,000/-3rd prize to Tokal

		Bermoik Village.
8	2nd Jan.2012:Women & Child Camp at Maneydara STRC Center, Namthang	185 beneficiaries
9	Women & Child Awareness Session at 11 project site village from 17th of May till 24th of May 2012	317 beneficiaries
10	Repairing and construction of temporary shed of school buildings which were affected by Earthquake.	5 Primary Schools

e) Media Coverage & Appraisal about CSR & EMP Works





Annexure II

Conditions and Compliances towards MOEF Environmental Clearance

Sl. No.	Conditions	Status
i)	Biodiversity Conservation Plan as proposed in the EMP should be implemented in toto in the identified location.	Rs. 1,69,12,000 has been deposited with the nodal agency i.e, Forest department, Govt. of Sikkim and Rs. 1,83,53,000 for Soil Conservation and Forest Protection Plan
ii)	For propagation of migratory fishes a fish farm/ hatchery shall be developed as proposed vide letter dated 18th August 2006.	The site has been identified and consultancy has been given to NRCCWF, Bhimtal. Further Rs. 50 lakh has been deposited in December 2008 with state fisheries department. The scientists from NRCCWF, Bhimtal has visited the site.

Sl. No.	Conditions	Status
iii)	Catchment area treatment shall be according the stipulated clearance.	Rs. 9.82 carore has been deposited with Forest department to carry out the works
iv)	Landslide prone area tunneling should be done with great care.	For land slide prone area tunneling is being carried out with proper controlled blasting and providing adequate support system
v)	Monitoring committee shall be constituted which must include representative from affected person from SC/ST category and a women beneficiary.	The committee has been constituted. The Second meeting of this Committee for year 2011-2012 held in April 2011.
vi)	All the assurance/commitment must be honored in letter and spirit.	Being complied
vii)	Clearance shall be obtained for acquiring forest land and submitted.	Forest Clearance obtained and 89.4266 Ha of Forest land has been taken over for the Project Construction.
viii)	Any other clearance from any other organization if required should be obtained.	All required clearances are being obtained as per requirement
PART-B		
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.	Free fuel (LPG & Kerosene) is being provided to the manpower engaged.
ii)	Fuel depot may be opened at the site to provide the fuel (kerosene/wood/LPG). Medical facilities as well as recreational facilities should also be provided to the labourers.	Being procured as and when required from the local market.
iii)	All the labourers to be engaged for construction works should also be thoroughly examined by health personnel and adequately treated before issuing them work permit.	The medical Health Check ups & Health monitoring are being carried out at all the Project Sites.

Sl. No.	Conditions	Status
iv)	Restoration of construction area including dumping area with levelling, filling up of burrow pits, landscaping etc. area should be properly treated with suitable plantation.	The restoration of dumping areas shall be taken up as the dumping get completed in those areas, leveling & feeling works of the project area is being done & dually protected by way of Crate walls, the tree plantation in the project area & along the project road are being done.
v)	Financial measure shall be made in the total budget for safeguard measures	Separate budget for execution of safeguard measures is provided
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.	The committee has been constituted & the Second meeting of the Committee for year 2011-2012 was held in April 2011.
vii)	Six monthly monitoring reports should be submitted to the Ministry and its regional Office, Shilong for review.	Being Complied
viii)	Officials from Regional Office MoEF, Shilong 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.	Being Complied
ix)	The responsibility of implementation of environmental safeguards rests fully with the M/s Lanco Energy Private Limited & Government of Sikkim	Agreed
x)	Project require fresh appraisal in case of change in the scope of the project	Agreed
xi)	Ministry reserve right to add additional safe guards and to ensure effective implementation of suggested safeguard in time bound and satisfactory manner	Agreed

Sl. No.	Conditions	Status
xii	Valid for 10 year from date of issue of this letter	Agreed
xiii	A copy of letter needs to mark to concerned panchayat, Local NGO and those from whom any suggestion/representation has been received.	Complied
xiv	SPCB shall display a copy clearance letter to regional office, District Industries Center and Collector's office/Tahsildar office for 30 days	Complied
xv	With in seven days Project Proponent shall advertise in two local Newspaper circulated in vernacular language of the locality concerned	Complied

Annexure III

SPCB Conditions for Environmental Clearance and Status

S. No	Conditions	Status
1	Any alteration in the process and generation capacity shall require the prior approval	Agreed
2	Shall have facilities to prevent and control Water and Air pollution in the project	Agreed
3	Shall have facility to treat the waste water generated by the hydel project before releasing to immediate environment	Septic tanks has been constructed at Camp area of project sites and settling tanks in front of Tunnel Portal faces for controlling the water pollution.
4	Shall have facility to manage solid	Solid waste collection dust bins

	waste generated	are being used at different work sites as well as labour camps for collection of solid waste
5	Consent is valid till 31st March 2012	Shall be submitted for renewal one month before the expiry date
6	Develop Green Belt along the periphery of project premises	About 10,000 nos. of locally available plant species have been planted at various locations
7	Separate Financial provision for the carry out pre and post monitoring and evaluation of water and air quality	Already incorporated in the EMP
8	Follow all the instruction of Board time to time	Agreed
9	Engage Local unemployed Youths in your unit as per their qualification and experience.	Being complied, local youths are being trained in on job training at site in the project construction activities
10	Board reserves the rights to cancel the consent in the event of any Environmental problem.	Agreed
11	Finanancial assistance of Rs.2lakhs to be provided to the state pollution control board for environmental awareness in the state.	Deposited during Dec, 2008.