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**GOVERNMENT OF ARUNACHAL PRADESH
DEPARTMENT OF ENVIRONMENT & FORESTS
ITANAGAR**

No. For (ENV)-04/2013/PHEP (45 MW)/ *63-72* Dated: 21st Feb 2017

To
Mr. N. D. Arora,
Vice President- Hydro Business
CESC Projects Ltd.
Thapar House, 124 Janpath,
2nd Floor, Western Wing,
New Delhi -110001.

Sub: Environmental Clearance in respect of Phanchung HEP (45 MW) by M/s Pachi Hydro Power Projects Ltd. in East Kameng District of Arunachal Pradesh

Sir,

1. This has a reference to your letter No. Hydro/Phanchung/72 dated 30th October, 2015 on the subject mentioned above.
2. The project is proposed to be developed on Built, Own, Operate and Transfer (BOOT) Basis. The project envisages construction of a 18.3 m high barrage across Pachi River, a tributary of River Kameng near Longji Village in East Kameng District of Arunachal Pradesh. The project is run of the river scheme. The total land requirement is 36.6 ha which includes 8.65 ha of underground area. Total submergence area is 4.74 ha. No residential land is getting submerged. A underground powerhouse is proposed near the confluence of river Pachi and River Kameng with 2 units of 22.5 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.45566.10 lakh and will be completed in four years (1 year for pre-construction activities).
3. The above proposal was considered by the State Level Expert Appraisal Committee (SEAC) in its meeting held on 19th to 21st March, 2016 for appraisal of EIA Study Report and EMP.
4. The State Level Environment Impact Assessment Authority (SEIAA), Arunachal Pradesh hereby accords Environmental Clearance for the project as per provisions of the Environmental Impact Assessment Notification, 2006 with amendments if any, subject to strict compliance of the following conditions.

Part A: SPECIFIC CONDITONS

- (i) The Catchment Area Treatment plan as proposed in the EIA/EMP report shall be completed in 6 years as per details given below.

| Treatment Measures | | I Year | II Year | III Year | IV Year | V Year | Total |
|--------------------|--|----------------|----------------|----------------|----------------|---------------|-----------------|
| 1 | Afforestation | | 2700456 | 3375570 | 1125190 | | 7201216 |
| 2 | Nursery Development | 1000000 | | | | | 1000000 |
| 3 | Maintenance of Nursery | | 100000 | 100000 | 100000 | | 300000 |
| 4 | Brushwood Check Dam | | 318000 | 536625 | 357750 | | 1212375 |
| 5 | Maintenance Cost @ 10 % of Cost | | | 31800 | 53663 | 35775 | 121238 |
| 6 | DRSM Check Dam | | 540000 | 900000 | 540000 | | 1980000 |
| 7 | Maintenance Cost @ 10 % of Cost | | | 54000 | 90000 | 54000 | 198000 |
| 8 | Gabion Structures | | 200000 | 480000 | 260000 | | 940000 |
| 9 | Maintenance Cost @ 10 % of Cost | | | 20000 | 48000 | 26000 | 94000 |
| 10 | Silt Observation Points | 734000 | 434000 | 434000 | 434000 | 434000 | 2470000 |
| Sub Total | | 1734000 | 4292456 | 5931995 | 3008603 | 549775 | 15516829 |
| 11 | Administrative Charges @ 5 % of Total | 86700 | 214623 | 296600 | 150430 | 27489 | 775841 |
| 12 | Microplanning @ 2 % of Total | 34680 | 85849 | 118640 | 60172 | 10996 | 310337 |
| 13 | Monitoring & Evaluation @ 7 % of Total | 121380 | 300472 | 415240 | 210602 | 38484 | 1086178 |
| TOTAL | | 1976760 | 4893400 | 6762474 | 3429807 | 626744 | 17689184 |

- (ii) The R & R benefits for the land losing households will be as per the National Rehabilitation and Resettlement Policy, 2007 (NRRP, 2007) or as per Arunachal Pradesh Rehabilitation and Resettlement Policy, 2008 whichever is higher. Adequate publicity of the compensation package of NRRP 2007/ State Policy shall be given in the affected villages. All R & R issues shall be completed before commissioning the project.
- (iii) During the construction period, all the equipments which are likely to generate high noise should be fitted with the Noise Reduction Measures so as to maintain the ambient noise standards as per Noise Pollution Rules, 2000.

- (iv) During lean season 1.19 cumec water has to be released for environmental flow for maintaining the aquatic life in the downstream. Due to streams meeting in the downstream of barrage and upstream of power house, the minimum environmental flow is expected to be 1.98 cumec.
- (v) Disaster Management Plan as proposed in the EMP report should be implemented in totality. The Engineer –in- charge shall be the main co-ordinator for 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. As proposed in the muck disposal plan, 5.83 Lakh cum of muck generated will be disposed of at designated disposal areas in 5.33 ha specified for this purpose.
- (vii) Compensatory Afforestation Programme over 38.66 ha should be strictly taken up as proposed. The allocation grant of Rs. 63.5 lakh should not be diverted to any other purpose. The State Government should ensure that the Indigenous Species are planted as part of CA Scheme.
- (viii) The Fisheries Conservation & Management Plan 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 kilometre should be strictly adhered. The creation of hatcheries should be taken up immediately after the commencement of construction works. The allocated provision of Rs. 81.35 lakh should not be diverted to any other purpose.
- (ix) The Biodiversity Conservation Plan should be implemented in consultation with State Forest Department. Anti-poaching measures should also be implemented. A budget of Rs. 95.00 lakh provided for the conservation, preservation and management of biological diversity should not be diverted for any other purpose.
- (x) The commitments made during the public hearing shall be fulfilled.
- (xi) The provision for appropriate Local Area Development Activities may be taken up with due consultation with a District Administration.
- (xii) Any other clearance statutory or otherwise from any other organization, department, if required shall also be obtained.

Part B: Additional Conditions/Measures as recommended by SEAC

- (i) Threatened species conservation measures are to be taken including sponsoring research to local institutions for their conservation.
- (ii) Establishment of a Biodiversity park including the economically important plants, medicinal plants and unique plants of the state of at least 5 ha area, in consultation with Department of Environment & Forest (DoE&F), Govt. of Arunachal Pradesh (GoAP).

Providing land, planning, operation & maintenance of the Biodiversity park shall be in the scope of DoE&F, GoAP. The project proponent shall bear the cost of establishing the Biodiversity park.

- (iii) Awareness raising on environmental conservation and support to communities for establishing community conserved areas.
- (iv) Undertaking afforestation works under Green Belt development programme using native species.
- (v) Undertaking need-based social infrastructure development under CSR programme of the company.
- (vi) Adequate measures must be taken by the proponent for fishery activities to be undertaken by the villagers to compensate the loss of livelihood due to project from river-fishery.

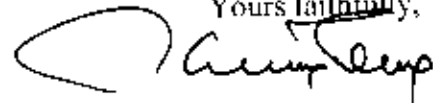
Part C: GENERAL CONDITIONS

- (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 Equipment 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 levelling, filling up of burrow 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 measures prescribed at section 2.7.6 of the EMP regarding Monitoring and Evaluation of the CAT Plan, should be strictly followed by the project proponent.
- (xi) Officials from Regional Office of the 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.
- (xii) The responsibility of implementation of environmental safeguards rests fully with the M/s Pachi Hydro Power Projects Ltd., Kolkata & Government of Arunachal Pradesh.
- (xiii) The total amount of Rs. 2180.25 lakh kept in the budgetary provision for implementation of Environmental Management Plan should be strictly adhered to and not be diverted for any other purpose.
- (xiv) In case of change in the scope of the project, project would require a fresh appraisal.
- (xv) 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.
- (xvi) The Clearance is valid for a period of 10 years from the date of issue of this letter for commencement of construction work.
- (xvii) 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/ representatives, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the project proponent.
- (xviii) The project proponent should advertise at least in two local newspaper widely circulated in the region around the project, one of which shall be in the local vernacular language of the locality concerned informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Arunachal Pradesh State Pollution Control Board and may also be seen as Website of the Department of Environment and Forests.
- (xix) The project proponent shall also submit six monthly reports of the status of compliance 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 APSPCB.

- (xx) The communication of the EC shall also be in accordance with the decision of the National Green Tribunal from time to time and more particularly in accordance with the judgement dated 14th March, 2013 in Save Mon Region Federation and Another – versus- Union of India and Others (Application No. 104/2012).
- (xxi) The project proponent shall commence the project works only after the final forest clearance under Forest (Conservation) Act, 1980 is obtained from the competent authority.

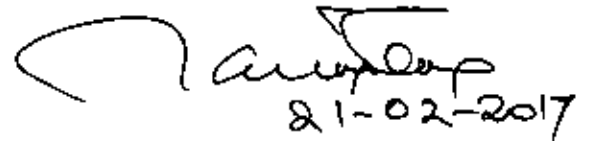
Yours faithfully,



(T Sitang Eko)IFS
Director (Environment)
& Member Secretary (SEIAA)

Copy to:

1. The Secretary, Ministry of Environment, Forest & Climate Change, Government of India, Indira Paryavaran Bhawan, Jor bagh Road, New Delhi-110003.
2. The Secretary (Power) Government of Arunachal Pradesh, Itanagar.
3. The PCCF & Principal Secretary (E & F), Government of Arunachal Pradesh, Itanagar.
4. The Additional PCCF (Central), NER Office, LAW-U-SIB, Lumbatngan, Near MTC Workshop, Shillong-793021.
5. The Deputy Commissioner East Kameng District Seppa, Govt of Arunachal Pradesh for information.
6. The Chief Conservator of Forest, Western Arunachal Circle Banderdewa.
7. The Member Secretary, Arunachal Pradesh State Pollution Control Board (APSPCB)
8. The Dy. Director (Environment) O/o PCCF Itanagar, Govt of Arunachal Pradesh, Itanagar for information & necessary action.
9. The Divisional Forest Officer, Seppa Forest Division, Seppa, Govt of Arunachal Pradesh for information.
10. Guard File.



21-02-2017

(T Sitang Eko)IFS
Director (Environment)
& Member Secretary (SEIAA)