

No. J-12011/7/2009-IA.I
Government of India
Ministry of Environment & Forests
[IA.I ? Division]

Paryavaran Bhavan
CGO Complex, Lodhi Road
New Delhi ? 110 003
Telefax: 011 2436 2827

Dated: 05.01.2010

The Executive Engineer,
Karnataka Neeravari Nigam Ltd,
Upper Bhadra Project, Division No-2,
B.R.Project ? Bhadravanthi (Tq),
Shimoga Dist., Karnataka.

Sub: Upper Bhadra Lift Irrigation Project Stage-I near Mutthinakoppa Village, N.R.Pura Taluk, Chikmagalur District, Karnataka ? Environmental Clearance ? regarding.

Sir,

This has reference to your letter No.WRD-17/VEBYAE-2009 dated 4.2.2009, subsequent letters dated 13.3.2009, 3.9.2009 and 17.11.2009 on the above subject.

2. The proposed project is located near Mutthinakoppa Village, N.R.Pura Taluk, Chikmagalur District of Karnataka State. The project involves lifting of water from Tunga River to Bhadra reservoir in two stages. The dam already constructed for Bhadra reservoir. Thereafter, it is proposed to construct the canal from Bhadra reservoir to delivery chamber including 3 lifts and a tunnel of 6.90 km length and canal network to provide irrigation facility to 107265 ha. of land in Chikmagalur and Chitradurga Districts and is likely to benefit 191 drought affected villages (17 - in Chikmagalur District & 174 in Chitradurga District). The total land requirement for the project is about 5245.37 ha. Out of which, Forest land is 230 ha and Private land is 5015.37 ha. The total estimated cost is about Rs.5985 Crores. The project would be completed in 60 months.

3. The above referred proposal was considered by the Expert Committee for River Valley & Hydroelectric Projects at its meeting held on 17.2.2009, 20.3.2009 & 21.10.2009.

4. The Ministry of Environment and Forests hereby accords environmental clearance as per the provisions of Environmental Impact Assessment Notification, 2006 subject to strict compliance of the terms and conditions as follows:

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Part A: Specific Conditions

- i. 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.
- ii. The commitment made during the public hearings should be fulfilled.
- iii. All the equipment which are likely to generate high noise levels are to be fully (noise reduction measures) to meet the ambient noise level standards.
- iv. The total quantity of muck to be generated is 74493500 m³ due to excavation. As proposed 27376000 m³ should be utilized for construction material & casing in embankments. The remaining 47117500 m³ should be dumped in 6 identified areas in the project site. Consolidation and compaction of the muck should be carried-out in the muck dump sites and the dump sites should be above high flood level. The allocated amount of Rs. 644 should not be diverted for any other purpose.
- v. Conjunctive use of surface water has to be planned in the project to check water logging as well as to increase productivity.
- vi. Water user association/Co-operative and involvement of the whole community for disciplined use of available waters should be formed.
- viii. The On Farm Development OFD works are to be completed by the project proponent before the commencement of irrigation. WUA's (Water Users Associations) should be made functional to undertake the OFD works immediately when irrigation starts and this should be strictly followed as mentioned vide letter no.CE/KNNL/UBPZ/TA-2/AE-1/MOEF/2009-10/1091 dated 17.11.2009
- ix. The proposed Compensatory Afforestation Programme in 230 ha. using 17 different Non Timber Forest Produce (NTFP) plant species with 200-300 plants per hectare should be taken-up strictly and the allocated amount of Rs. 59.34 lakhs for this purpose should not be diverted.
- x. The proposed greenbelt development to enhance project site environment should be strictly adhered. The proposed nursery of 1 ha. should be developed to raise the suitable plant seedlings. Apart from compensatory afforestation & greenbelt development, the proposed single row of Canal Bank Plantation for 118 km @ 100 plants for kilometer should be strictly adhered to.
- xi. Occurrence of stagnant pools/slow moving water channels during construction and operation of the project providing breeding source for vector mosquitoes and other

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parasites. The river should be properly channelised so that no small pools and poodles are allowed to be formed. Even after taking precaution, due to unforeseen situations, breeding of mosquito and resultant malaria or mosquito borne diseases can increase. If such a situation arises, It will be the responsibility of project authorities to take all steps i.e. residual insecticidal spray in all the project area and surrounding 3 km. area keeping the flight range of mosquitoes in consideration

- xii. Bhadra Wildlife Sanctuary is in the vicinity of the project. The nearest point of the main canal is 3.5 km from wildlife sanctuary. The statutory clearance, such as approval under Wildlife (Protection) Act 1972 should be obtained (if applicable), from the competent authority. Similarly prior forest clearance should be obtained under Forest (Conservation) Act, 1980.
- xiii. 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/LPG) to the labour force.
- (iii) Medical facilities/First Aid centres should be provided to the labourers with regular health check-up.
- (iv) All the labourers to be engaged for construction works should be thoroughly examined by health personnel and adequately treated before issuing them work permit.
- (v) 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.
- (vi) Water sprinkling arrangements shall be made to suppress the dust and fugitive emissions.
- (vii) Potable drinking water and proper sanitary facilities should be provided for the labour force..
- (viii) Solid waste from the labour camps shall be collected in Bins/Masonry vats and the same shall be dumped/disposed to nearby municipal landfills/authorized

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dump sites. No dumping of solid waste will be allowed near any water body or a stream to exclude any health hazard problem to the community.

- (ix) 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.
- (x) Financial provision should be made in the total budget of the project for implementation of the above suggested safeguard measures.
- (xi) Six monthly monitoring reports should be submitted to the Ministry and its Regional Office, Bangalore for review.
- (xii) The project proponent shall 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, Bangalore 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 and review.

6. The responsibility of implementation of environmental safeguards as proposed in the EIA Report and others as stated above rests fully with the Karnataka Neeravari Nigam Limited.

7. The total amount reserved for implementation of Environmental Protection Measures should be strictly adhered and not to 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. This clearance letter is valid for a period of 10 years from the date of issue of this letter for commencement of construction works.

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.

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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 on 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.

14. Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Authority Act, 1997.

Yours faithfully

(Dr.S.Bhowmik)
Additional Director

Copy to:

1. The Secretary, Ministry of Water Resources, Shram Shakti Bhawan, Rafi Marg, New Delhi-110001.
2. The Adviser (I & CAD), Planning Commission, Yojna Bhawan, New Delhi - 110001.
3. The Secretary (Irrigation), Water Resources Department, Vikas Soudha, Bangalore.
4. The Secretary, Department of Forest, Ecology and Environment, Government of Karnataka, M.S.Building, Dr.Ambedkar Veedhi, Bangalore.
5. The Chief Engineer, Project Appraisal Directorate, Central Water Commission, Sewa Bhawan, R.K. Puram, New Delhi-110066.
6. The Regional Office, Ministry of Environment & Forests, Bangalore.
7. The Member Secretary, Karnataka State Pollution Control Board, 5th Floor, Parisara Bhavana, #49, Churchstreet Road, Off. M.G Road, Bangalore ? 560 001.
8. EI- Division, Ministry of Environment & Forests, New Delhi-110003.
9. Guard file.

(Dr. S. Bhowmik)

Additional
Director