To

The Executive Engineer,
I&PH. Division, Hamirpur,
Distt. Hamirpur, H.P.

Subject: Construction of Medium Irrigation Project, Tehsil, Nadaun, Distt. Hamirpur- Environmental Clearance - reg.

Sir,

This has a reference to your application No. IPH-HD-DB-MIP Nadaun/2010 dated: 03-11-10 seeking prior environmental clearance for the above project under Environment Impact Assessment Notification, 2006. The proposal has been appraised as per prescribed procedure in the light of provisions under the Environment Impact Assessment Notification, 14th September 2006 on the basis of documents viz; Form-I, EIA and EMP by the State Expert Appraisal Committee constituted by the competent authority in its 11th meeting held on 30-4-2011. The said project involves construction of Medium Irrigation Project having following salient features:

a. Project type : Construction of Medium Irrigation Project.
b. Project Location : I & PH Division, Hamirpur, Distt. Hamirpur, H. P.
c. Project Capacity : Culturable Command Area of 2979.72 hectare.
d. Total Cost of Project : Rs. 9242 Lakh.
e. Water withdrawal : 1.94 cumecs.
g. Energy Requirement : 7.23 MW.
h. Backup power : No D.G. Set proposed.
i. EMP costs : NIL

j. Institutional Mechanisms for Env. Protection : The following will be responsible for the maintenance of APCDs

i) Construction phase: Developer/ Project Proponent.

ii) Operational Phase: Developer/ Project Proponent.

After due consideration of the project proposal, and after considering the recommendations of the State Level Expert Appraisal Committee, the State level Environmental Assessment Authority accords Environmental Clearance to the project as per provisions of the EIA Notification No. S.O. 1533 dt. 14th September, 2006 of Ministry of Environment & Forests, GoI subject to strict compliance of terms and conditions as mentioned below. The Authority reserves the right to revise, revoke or impose additional condition at any stage.

[Signature]
Part-A - Specific Conditions:

I- Construction Phase:

1. "Consent to Establish" shall be obtained from H.P. State Pollution Control Board under Water (Prevention and Control of Pollution) Act 1974 and Air (Prevention and Control of Pollution) Act 1981 a copy of same shall be submitted to State Environment Impact Assessment Authority (SEIAA) before start of any construction work at the site.

2. Provisions shall be made for the housing of labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

3. All required sanitary and hygienic measures should be taken before, during and after the completion of project.

4. A First Aid Room will be provided in the project both during construction and operation phase of the project.

5. Adequate drinking water, fuel and sanitary facilities should be provided for construction workers at the site. Provisions should be made for mobile toilets. The safe disposal of waste water and solid wastes generated during the construction phase should be ensured.

6. All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.

7. Disposal of muck including excavated material during construction phase should not create any adverse effects on the neighboring communities and disposed off taking the necessary precautions for general safety and health aspects of public, only in approved sites with the approval of competent authority.

8. Soil and ground water samples shall be got tested from authorized agency to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.

9. Any hazardous waste generated during construction phase should be disposed off as per applicable rules and norms with necessary approvals of the competent authority.

10. Diesel generator sets during construction phase should have acoustic enclosures and should conform to Environment (Protection) Act, 1986 and Rules framed there under for air and noise emission standards. Low sulphur diesel type should be used.

11. The diesel required for operating DG sets shall be stored in underground tanks and if required, clearance from Chief Controller of Explosives shall be taken.

12. Vehicles/equipment deployed during construction phase should be in good condition and should conform to applicable air and noise emission standards, should have vehicle pollution check certificate and should be operated only during non-peaking hours.

13. Ambient noise levels should conform to residential standards both during day and night. Only limited necessary construction should be done during night time. Fortnightly monitoring of ambient air quality (SPM, SO₂ and NOₓ) and equivalent noise levels should be ensured during construction phase should be closely monitored during construction phase so as to conform to the stipulated standards fixed by the competent authority.

14. Storm water control and its re-use for various applications as per guidelines.

Medium Irrigation Project Tehsil, Nadaun, Distt. Hamirpur
15. Boundary wall shall be constructed in such a manner as not to be obstructing the flow of storm water. Necessary arrangement shall be made for the drainage of surrounding area.

16. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices and technologies available.

17. Permission to draw ground water shall be obtained from the competent Authority prior to construction/operation of the project.

18. Opaque wall should meet perspective requirement as per Energy Conservation Building Code which is proposed to be mandatory for all air-conditioned spaces while it is aspirational for non-air-conditioned spaces by use of appropriate thermal insulation material to fulfill requirement.

19. Regular supervision of the above and other measures for monitoring should be in place all though the construction phase, so as to avoid disturbance to the surroundings.

20. The proponent shall be liable for action under the Environment (Protection) Act, 1986 for the violation of any provision of the said Act.

II- Operational Phase:

1. The installation of the Effluent Treatment Plant/ Sewage Treatment Plant (STP) should be certified by an independent expert and a report in this regard should be submitted to the Director, Department of Environment, Science & Technology before the project is commissioned for operation. Treated effluent emanating from STP shall be recycled/ reused to the maximum extent possible. Treatment of 100% grey water by decentralized treatment should be done. Discharge of unused treated effluent shall conform to the norms and standards prescribed. Necessary measures should be made to mitigate the odour problem from STP.

2. The solid waste generated should be properly collected and segregated. Wet garbage should be composted and dry/ inert solid waste should be disposed of to the approved sites for land filling after recovering recyclable materials.

3. Diesel power generating sets proposed as source of back up power for elevators and common area illumination during operation phase should be enclosed type and conform to rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. The proponent shall be required to use low sulphur diesel. The location of the DG sets may be decided in consultation with the competent authority.

4. Noise should be controlled to ensure that it does not exceed the prescribed standards. During night time the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.

5. The green belt of the adequate width and density preferably with local species along the periphery of the plot shall be raised so as to provide protection against particulates and noise.

6. Weep holes in the compound walls shall be provided to ensure natural drainage of rain water in the catchment area during the monsoon periods.

7. Rain water harvesting for roof run-off and surface run-off, as per plan submitted should be implemented. Before recharging the surface run off, pre treatment must be done to remove suspended matter, oil and grease. The borewell for rainwater recharging should be kept at least 5 mtrs above the highest ground water table.

8. The ground water level and its quality should be monitored regularly in consultation with Central Ground Water Authority.

9. Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized as per norms
prescribed by the Competent Authority and no public space should be used for this purpose.

10. Energy conservation measures like installation of CFLs/ TFLs for the lighting the surrounding areas/ outside areas the building should be integral part of the project design and should be in place before project commissioning. Used CFLs/ TFLs should be properly collected and disposed off/ sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination. Use of solar panels may be done to the possible extent.

11. Adequate steps should be taken to prevent odour problem from solid waste processing site and STP.

12. Sprinkling of water etc. be used for air pollution control during construction phase so as to avoid disturbance to the surroundings.

Part-B- General Conditions:

1. The environmental safe guards contained/ given in the proposal for management of environmental pollution should be implemented in letter and spirit.

2. Bimonthly environment monitoring reports should be submitted to the State Environment Impact Assessment Authority and Ministry of Environment & Forests Regional Office at Chandigarh.

3. Officials from the State Environment Impact Assessment Authority, Regional Office of MoEF, Chandigarh and Department of Environment, Science & Technology GoHP 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. A complete set of all the documents submitted to the State Authority should be forwarded to the Regional Office of MoEF, Chandigarh.

4. In the case of any change (s) in the scope of the project, the project would require a fresh appraisal by this Authority.

5. The SEIAAA reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environmental clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safe guards and measures in a time bound and satisfactory manner.

6. All other statutory clearances shall be obtained, as applicable by the project proponents.


8. Environmental Clearance is subject to final order of the Hon’ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No. 460 of 2004 as may be applicable to this project.

9. 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 Act, 1997.

Part-C- Special Conditions:

1. The Project Proponent shall submit the water balance sheet to the Authority from time to time.
2. The Project Proponents shall submit returns/ details of recyclable wastes, and other solid wastes which shall be generated from the process to the Authority regularly.

3. The Project Proponent shall conduct regular monitoring of air and water quality of the project.

4. This NOC is only for the purpose and under the provisions of the EIA Notification No.1533 (E) dated 14-09-2006 as amended from time to time and as in Environment Protection Act, 1986.

5. Notwithstanding anything contained in this clearance, the land acquisition shall be governed by the provisions of regulations/rules related to revenue and development plan for which requisite permissions from competent revenue and Town & Country authorities shall be obtained.

6. Diversion of water for the project shall be made in such a way that the riparian rights of the downstream users are not affected.

7. The Project Proponent shall obtain Consent from H.P. State Pollution Control Board before establishment of the project.

8. Proponent shall ensure that the maximum possible use of renewable sources of energy is made and the energy requirement is reduced. The solar lights, CFL, LED lights shall be used to reduce the requirement of the energy and shall apply all possible techniques to reduce the energy consumption.

9. The Project Proponent shall ensure that there are proper arrangements for management of occupational health and safety in accordance with the law as required for machinery safety, personnel safety and health care, fire & explosion safety and shall have proper on-off site emergency plans in place. The labourers shall be provided with gumboots, aprons, gloves, hamlets etc. desired health safety equipments for their safety during the operational stage of the project.

10. The Project Proponent shall obtain all the requisite approvals/ clearances/ NOCs as may be applicable to the Project from the competent authorities under different Acts/ Rules/ Regulation/ Order etc.

11. The construction material such as Grit/ Bajri, Sand shall be obtained from authorized dealers/ suppliers only and no illegal mining etc. shall be caused.

12. The Project Proponent shall consult the local office of the Department of Forests or any other such authorized agency, university, institution for types of trees which are endemic to the area and should be planted for development of the green belt in the Project site.

13. Keeping in view the labour to be employed during the construction phase arrangements to maintain hygienic conditions in the labour camps such as temporary toilets, fuel facility etc shall be made.

14. The system for sewage treatment & disposal shall be installed concurrent with the construction of the project itself.

15. The Municipal Solid Waste which shall be generated by the Project during the operational stage shall be managed as per provisions of Municipal Solid Waste (Management & Handling) Rules, 2000 under Environment (Protection) Act, 1986.

16. Water sprinkling techniques shall be used during the construction phase to minimize the dust in air.

17. All the hazardous wastes shall be managed as per the Manufacture, Storage and Import of Hazardous Chemical Rules, 1989, as amended to date for Isolated Storage and Hazardous Waste (Management, Handling and Trans-Boundary Movement) Rules, 2008 as amended from time to time under Environment (Protection) Act, 1986 and authorization from prescribed authority under the Rules shall be obtained.
18. All non-hazardous wastes of domestic origin from the residential areas, offices etc. shall be strictly managed as per the provisions of Municipal Solid Wastes (Management and Handling) Rules, 2000 as amended from time to time.

19. The DG sets shall be provided with proper exhaust muffler and stack height with DG set and other fugitive emission sources shall be more than 10-15 feet above room level. Norms prescribed for DG Sets in the Environment Protection Rules, 1986 shall be complied with.

20. The muck generated during construction shall be disposed off in scientific manner by providing proper and adequate retaining structures.

21. All designing shall be done based on IS-1893 (Zone – V) considering the seismicity of the project area.

22. Drainage of soils shall be considered while designing and implementing the project to ensure that water logging and salinity of soils is prevented and controlled and proper monitoring shall be done by the proponent to this effect.

23. Employment opportunities shall be provided to the local people in the project area.

Endst. No. F. No. HPSEIAA/2010/ 83 -1685-1613
Copy to:-

1. The Secretary, Environment, Ministry of Environment & Forests, Government of India, Paryavaran Bhawan, New Delhi 110003.
2. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-office Complex, East Arjun Nagar, New Delhi-110032.
3. The Chairman, Himachal Pradesh State Pollution Control Board, Shimla-171009.
4. The Director (Environment, Science & Technology) to the Government of Himachal Pradesh, Shimla-171002.
5. The Chief Conservator Forests (Central), MoEF, GOI, Northern Regional Office, Bay No 24-25, Sector 31A, Dakshin Marg, Chandigarh.
6. Adviser (IA), Ministry of Environment & Forests, CGO Complex, New Delhi, 110003.
7. Monitoring Cell, Ministry of Environment & Forests, CGO Complex, Lodhi Road, New Delhi, 110003.
8. Record File.