

1. Department: Electricity
2. a) Sector: Energy  
b) Sub-Sector: Non - Conventional Energy Sources.
3. Scheme No: NRSE- 7
4. Name of the Scheme: Establishment of Mini / Micro Hydro Electric Station on Small Stream / Nallahs.

5. OBJECTIVE OF THE 9<sup>TH</sup> FIVE YEAR PLAN :-

The Government of India is giving highest priority for development of Non-Conventional Sources of Energy and Mini / Micro Hydro Electric Power generation is one amongst them which is environment friendly and doesn't create any pollution and is not dependent on fossil fuels.

In Andaman & Nicobar Islands complete requirement of power is generated by diesel generating sets which involve consumption of very costly imported HSD oil resulting in huge drainage of foreign exchange for the country. In order to reduce the consumption of HSD oil and air pollution, it is proposed to establish Mini / Micro Hydro Electric power generation units at suitable locations in these islands.

The hydro potential of Andaman & Nicobar Islands was earlier investigated by the CWPC for exploiting hydro electric power. Now the Ministry has appointed the Alternate Hydro Energy Centre, University of Roorkee to conduct the survey and investigation for preparation of detailed project reports so as to harness the hydro potential in these islands. The investigating team is now preparing the detailed project report for Dhanikari and feasibility reports on Panchawati, Shoal Bay, Badakhari, Vansundhara Nallah. The feasibility report and DPR for Galathiya River in Great Nicobar and Khudirampur in North Andaman and other suitable water sources in Andaman & Nicobar Islands will be taken up and on materialisation of all these projects the islands may have an approximate Mini / Micro Hydel Power of 1MW capacity.

6. Approved Outlay for the 9<sup>th</sup> Five Year Plan: Rs.15.00 Lakhs.

7. Principal Targets for the 9th Five Year Plan:

- I. Conducting of preliminary survey, investigation, geographical survey, geotechnical investigation, topographical survey, collection of Hydro Meteorological data etc. for establishment of Mini /Micro Hydro Power Generation units on all the hydro sources in Andaman & Nicobar Islands such as Vasundhara Nallah, Shoal Bay, Panchavati River, Dhanikhari, Navagram, Badakadi and Mitha Nallah at Rut Land etc. through Alternate Hydro Energy Centre, University of Roorkee and MNES.
- II. Visiting of officials from mainland for study, survey etc. and finalisation of feasibility reports and DPRs.
- III. Construction of dams on selected water sources/ rivers/ nallahs with allied penstock arrangements.
- IV. Construction of allied civil works of the projects/ power houses.
  - i). Purchase, installation and commissioning of turbo generating sets of suitable capacity of 5/10 KW including other allied plants and equipments.
  - ii). Installation of power evacuation system.
  - iii). Construction of approach road, staff quarters, office buildings, development, of greenbelt installation / providing of fire-fighting equipments, medical facility and security system etc.