

1. Department: Electricity

2. a) Sector: Energy

b) Sub-Sector: Non - Conventional Energy Sources.

3. Scheme No: NRSE - 1

4. Name of the Scheme: Setting up of a Separate Department to deal with Non-Conventional Energy Sources Schemes.

5. OBJECTIVE OF THE 9TH FIVE YEAR PLAN :-

Keeping in view of the Government's policy to exploit / utilize more and more new and renewable sources of energy, the erstwhile Department of Non-Conventional Energy Sources (DNES) under the Ministry of Energy had decided to implement schemes under the New & Renewable Sources of Energy in Andaman & Nicobar Islands in 1982 as these islands have considerable potential of ocean, wind, solar, hydro and biomass based energy sources. The department will be adopting new technology for harnessing non-conventional power in the islands.

Accordingly, the Ministry vide their letter No. 28/84/PPG dated 24.05.84 had requested the Andaman & Nicobar Administration to set up effective institutions like departments and implementing agencies fully devoted to develop New & Renewable Sources of Energy programmes. The Ministry has also promised to extend all possible assistances in this direction. The Andaman & Nicobar Administration has number of schemes / projects for development of Non-Conventional Energy Sources viz. OTEC, Wind Energy, Solar Photovoltaic, Solar Thermal, Mini/Micro Hydro, Biogas, Biomass, Tidal Energy and Wave Energy etc. It is, therefore, essential to have a department dealing exclusively with schemes and projects under New & Renewable Sources of Energy. It is also proposed to create and fill up the posts of SE, EEs, AO, with its supporting staff for better and effective implementation of the NRSE & IREP Schemes in remote and isolated islands.

The Non-Conventional Power Sector is dealing with all the newly developed devices completely different from conventional technology but will replace them to a very large degree in future and will become economically viable and competitive with conventional technology consisting of increasing cost of Fossil Fuel and P.O.L.

Added advantages of these schemes are pollution free environment and will be of much relevance to these islands for conserving its delicate fragile eco-system & environment. Hence a separate department with Sr. Executives is essential to propagate these renewable energy technologies.

The proposed Schemes / Projects under the Non-Conventional Energy Sources are as follows :-

I). Setting up of a Separate Department to deal with Non-Conventional Sources of Energy.

II). Harnessing of Wind Energy.

III). Installation of Solar Photovoltaic Systems in Andaman & Nicobar Islands.

IV). Establishment of Solar Thermal Energy Systems.

V). Establishment of 3 Nos. 100 KWp Grid Connected Solar Photovoltaic Power Plants at Neil Island, Havelock and Long Island for meeting the day time's power requirements of the areas.

VI). Popularisation of Improved Chulhas under NPIC scheme.

VII). Development of Biogas in Andaman & Nicobar Islands under NPBD programme.

VIII). Development of Biomass Based Self Reliant Energy System in Andaman & Nicobar Islands.

IX). Establishment of 1 MW Wave Energy plant and harnessing of Tidal Energy.

X). Establishment of Micro/Mini Hydro Electric Power Generating Stations in Andaman & Nicobar Islands.