

1. Department: Electricity

2. a) Sector : Energy

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

3. Scheme No: NRSE- 2

4. Name of the Scheme: Harnessing of Wind Energy.

5. OBJECTIVE OF THE 9TH FIVE YEAR PLAN:

The scheme envisages installation of wind masts for studying the potential of wind during various seasons in different locations of Andaman & Nicobar Islands for installation of wind battery chargers, wind pumps and wind generators.

The data recorded from the wind masts by Indian Institute of Tropical Meteorology, Bangalore in 1993-94 at Bargat Line, Phoenix Bay, Sabari, Pokkadera and Ramakrishnapur ridge are not encouraging. It has now been decided by MNES that the above wind masts are to be dismantled and shifted of Southern group of islands. The IITM, Bangalore is conducting the wind monitoring as per the instruction of MNES at various locations in Southern group of Islands such as Hut Bay, Car Nicobar, Teressa, Kamorta and Nancowry and these five wind masts will be reinstalled in the above locations for assessing the wind potential.

It is proposed to install three additional wind monitoring masts in Great Nicobar Island. It is also proposed to install few wind pumps and battery chargers at suitable locations in these Islands for harnessing the available wind energy.

It is also proposed to install few grid connected wind electric generators at suitable locations in these islands for power generation on experiment basis to assess its economics with reference to the high cost power generation by diesel sets at isolated areas.

6. Approved Outlay for the 9th Five Year Plan: Rs. 18.75Lakhs.

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

I. Installation of 5 Nos. wind masts.

II. Purchase & installation of 3 Nos. wind monitoring masts in Great Nicobar and Northern group of islands and purchase of wind analysis recorders for data processing and anemometer etc.

III. Purchase of 5 Nos. wind pump units and its installation through panchayats.

IV. Purchase and installation of 3 Nos. wind generators of capacities 50 - 250 KW and its installation at different locations of Andaman & Nicobar Islands.

V. Purchase of 5 Nos. wind battery chargers of 50 W to 1000 W capacity and its installation, distribution as per MNES subsidy pattern and a U.T. subsidy of 50% of cost.

VI. Procurement / installation of storage batteries, inverters, light fittings etc. for installation of wind generators and battery chargers.

VII. Collection & analysis of data from wind masts by Scientists of IITM, Bangalore.

VIII. Purchase of measuring instruments etc.

IX. Payment of wages and labour charges.

X. Creation of posts of J.E - I and Welder- I