

- Name of the Department : **Electricity**
 1. Scheme No. : **NRSE - 3**
 2. Name of the Scheme : **Installation of Solar Photovoltaic Energy System in Andaman & Nicobar Islands**
 3. Outlay for 9th FYP (1997-2002) : **50.00 Lakhs**
 4. Proposed Outlay for Annual Plan 2001-2002 : **7.50 Lakhs**

5. OBJECTIVES AND JUSTIFICATIONS:-

The Andaman & Nicobar Islands lie between 6° and 14° North Latitude and receive sun shine in abundance. The clear atmosphere over the islands, due to very less air pollution, off sets the adverse effect of more Nos. of rainy days in these islands. M/s BHEL conducted a preliminary study during 1985 and on the basis of their report, Solar PV Domestic & Street Lighting Systems were installed in remote and isolated areas for providing lighting energy. An expert team headed by Dr. Maheswar Dayal, Secy, DNES, during its visit to these islands in September 1988 recommended that as the Solar Photovoltaic Energy was very promising, it can be utilized for meeting energy demands in remote and isolated islands where power was generated by consuming costly imported HSD oil through DG Sets. The team also suggested that the power requirements of small isolated islands shall be met from Non-Conventional Energy Sources and its electrification shall be done by centralised SPV system. It was also recommended that Solar Lantern shall be provided to localities in remote and isolated islands and camps deep inside forests, so as provide the basic need of lighting energy to such inaccessible houses.

Till now around 185 KWp of system have been installed in these islands in form of Domestic Lights, Street Lights, Lanterns, Pumps and its major portion consists of 27 Nos. 5 KWp, 1 No. 1.7 KWp, 1 No. KWp & 3 Nos. 4.48 KWp SPV power plants in different isolated areas / localities.

It is proposed to establish Solar PV Power Plants of various capacities in different isolated and remote islands and localities to provide them the basic facility of lighting for 12 Hrs. during the night. This would also require augmenting the capacity of existing SPV Power Plants where power is provided for 6 Hrs. in the evening at present. Installation of SPV Power Plants in such remote locations / islands would reduce the dependency on costly imported HSD oil and the problems associated with transporting the HSD oil in drums to such in- assessable areas. It is also proposed to provide Solar Lanterns and Solar PV Lights and Systems at a subsidy of 25% of the ex-works cost, over and the above the subsidy provided by the MNES, so as to make it affordable by the needy poor rural masses, so that one of their minimum energy requirement i.e. house lighting is met. It is also proposed to explore the possibilities of providing Solar Lanterns to house holds below poverty line in remote localities and islands through village Panchayats and tribal communities on monthly rent basis. It is also proposed to meet 100 % subsidy towards the cost of transportation of these devices from the manufacturers end to users end out of this scheme.

7. Physical & Financial Progress in Annual Tribal Sub-Plan-98, 1998-99, 99-2000 and Annual Tribal Sub-Plan Outlay for 2000-2001.

II. Financial

	Annual TSP 1997-98	Annual TSP 1998-99	Annual TSP 1999-2000	Annual TSP Outlay 2000-2001
I Outlay	20.25	23.125	12.185	7.50
II Expenditure	5.67	16.348	11.75	7.5

B. Revenue

	1997-98	1998-99	1999-2000	2000-2001
Salary	0.00	0.250	0.250	0.50
Others	15.00	15.125	6.875	4.00
Sub-total	15.00	15.375	7.125	4.50

C. Capital

	1997-98	1998-99	1999-2000	2000-2001
Building	0.00	2.50	0.50	3.00
Others	0.00	0.00	0.00	0.00
Sub-total	0.00	2.50	0.50	3.00

II. Physical

1997-98

Target	Achievement
Purchase & Installation of 3 Nos. 5 KWp SPV Power Plants & construction of 3 Nos. Battery Rooms.	3 Nos. 5 KWh SPV Power Plants dispatched from mainland. Battery Rooms under construction at Teresa.