

## **NON-CONVENTIONAL SOURCES OF ENERGY**

This department is implementing a research-oriented scheme for generation of power from solar pond. The Pondicherry Experimental Solar Pond power project is a joint venture of Pondicherry Engineering College and Electricity Department of Government of Puducherry, funded by the Government of India, under National solar pond development programme. The aim of the project is to install a power station to generate electric power of the order of 360 KW per day using organic Rankin cycle coupled with salt Gradient solar pond.

### OUTLAY AT A GLANCE

Sector : NON-CONVENTIONAL SOURCES OF ENERGY

No. of Scheme : 2

Department : ELECTRICITY

(Rs. in lakh)

Tenth Five Year Plan 2002-07 Actual Expenditure	:	72.90
Annual Plan 2006-07 Actual Expenditure	:	23.48
Eleventh Five Year Plan 2007-12 Approved Outlay	:	850.02
Annual Plan 2007-08 Approved Outlay	:	15.00
Annual Plan 2007-08 Revised Outlay	:	35.00
Annual Plan 2008-09 Proposed Outlay	:	110.00

(Rs. in lakh)

Sl. No	Name of Scheme	Annual Plan 2006-07	Annual Plan 2007-08		Annual Plan 2008-09
		Actual Expdr.	Approved Outlay	Revised Outlay	Proposed Outlay
(1)	(2)	(3)	(4)	(5)	(6)
1.	Development of Non-Conventional Sources of Energy	23.48	15.00	35.00	109.99
2.	Panchayat Window *	--	--	--	0.01
<b>Total</b>		<b>23.48</b>	<b>15.00</b>	<b>35.00</b>	<b>110.00</b>

\* New Scheme

**Scheme No. 1**

Sector : NON-CONVENTIONAL SOURCE  
OF ENERGY

Implementing  
Department : ELECTRICITY

**1. Name of the Scheme** : Development of Non-Conventional  
Sources of Energy

**2. Objective of the Scheme** :

The objective of the scheme is to promote the use of new and renewable sources of energy and to conduct research and development on renewable sources of energy. Setting up of solar pond for production of thermal and electrical energy.

**3.(a) Actual physical Achievement 2006-07** :

- i) Thermo couple for recording instant temperature of various zones of the existing 500 Sqm Solar pond was installed.
- ii) Multiplexer unit for the purpose of interpolation between pond and ORC engine was tested.
- iii) The ORC engine was tested for its optimum level of 13.17 KW.

**(b) Anticipated Physical Achievement 2007 - 08** :

- i) Maintenance of pilot pond.
- ii) Re-establishment of pilot pond.
- iii) Purchase of salts, chemicals and materials for civil works.

**(c) Programme envisaged for Annual Plan 2008-09** :

- i) Preliminary works and construction of first 2000 Sqm pond.
- ii) Maintenance of existing 500 Sqm pilot solar pond.
- iii) Preliminary works for the erection of truss bridge.
- iv) Advance payment to NAI for phase III work (first instalment)
- v) Purchase of pond machineries and T & P items.
- vi) Provision of R & D facilities to the lab.
- vii) Sinking of new bore well for 2000 Sqm pond.
- viii) Design and installation of control panel distribution system.
- ix) Modification of the ORC control panel.

**4. Remarks** : Continuing scheme

**Scheme No. 2**

Sector : NON-CONVENTIONAL SOURCE  
OF ENERGY

Implementing  
Department : ELECTRICITY

1. **Name of the Scheme** : Panchayat window
2. **Objective of the Scheme** :

Based on the statement of conclusions signed between Union Minister for Panchayati Raj and Chief Minister of Puducherry, it has been committed to devolve the functions to PRIs through activity mapping, followed by matching transfer of funds in respect of devolved functions, which will require creation of Panchayat sector window in each department. Panchayat window will be entrusted with all relevant schemes pertaining to the activities devolved to village and commune panchayats including activity mapping. Since the process of activity mapping has not been completed, a token provision is provided in the Annual Plan 2008-09.

- 3.(a) **Actual physical Achievement 2006-07** : --
- (b) **Anticipated Physical Achievement 2007 - 08** : --
- (c) **Programme envisaged for Annual Plan 2008-09** : Token provision
4. **Remarks** : New scheme