

Bio-diesel research

4291. SHRI AAYANUR MANJUNATHA: Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

- (a) the status of bio-diesel research in the country;
- (b) whether the same is likely to be introduced in the open market in near future;
- (c) if so, the details thereof;
- (d) whether Government has signed any technological agreements or Memoranda of Understandings with other leading bio-diesel manufacturing countries; and
- (e) if so, the details thereof?

THE MINISTER OF NEW AND RENEWABLE ENERGY (DR. FAROOQ ABDULLAH): (a) to (c) The Bio-diesel Research work including development of multiple feed-stocks, processing techniques, application in various stationary and non-stationary engines for evaluating performance, emissions and durability is being conducted by various National laboratories, Academic Institutions etc. supported by Ministries and Scientific Departments. Commercialization takes place after the success of pilot scale projects and then due evaluation.

- (d) No, Sir.
- (e) Does not arise.

Target of JNNSM

4292. SHRI RAM KRIPAL YADAV: Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

- (a) whether it is a fact that Government had launched the Jawaharlal Nehru National Solar Mission (JNNSM) in early 2010 and set a target of producing 20,000 MW of power;
- (b) if so, whether the target is achieved and if not, the progress of this mission; and

(c) the details of amount spent, so far, in this mission and what is the total budget for the current year?

THE MINISTER OF NEW AND RENEWABLE ENERGY (DR. FAROOQ ABDULLAH): (a) Yes, Sir.

(b) Yes Sir, the targets of 1st Phase have been achieved the details of which are as below:

Application Segment	Target for Phase-I (2010-13)	Achievement for Phase-I
Grid solar power (large plants, rooftop and distribution grid plants)	1,100 MW	1,684.4355 MW (including those under state initiative)
Off -grid solar applications allotment	200 MW	252.5 MW
Solar Thermal Collectors (SWHs, solar cooking, solar cooling, industrial process heat applications, etc.)	7 million sq. meters	7.001 million sq. meters

(c) The details of amount spent so far in this Mission are given in the Statement (*See* below). The total budget allocation for solar programmes for the current year is Rs. 652 crore.

Statement

The details of amount spent so far under JNNSM

1. Solar Water Heating Programme

Sl.No.	Year	Expenditure (in crore)
1.	2010-11	30
2.	2011-12	106.50
3.	2012-13	108

2. Solar City and Green Building Programme

Sl.No.	Year	Expenditure (in crore)
1.	2010-11	6.88
2.	2011-12	6.92
3.	2012-13	15.17

3. Off-grid SPV systems/projects

Sl.No.	Year	Expenditure (in crore)
1.	2010-11	254.45
2.	2011-12	483.26
3.	2012-13	399.16

4. Grid Solar Power

Sl.No.	Year	Expenditure (in crore)
1.	2010-11	29.94
2.	2011-12	41.50
3.	2012-13	79.83

RVEP in Maharashtra

4293. SHRI RAJKUMAR DHOOT: Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

(a) the number of remote villages in Maharashtra which have been provided renewable energy systems for basic facilities of electricity under the Remote Village Electrification Programme (RVEP) by Government; and

(b) the number of remote villages still to be covered under RVEP in the State and by when Government proposes to cover them under the programme?