

(d) The Ministry of New and Renewable Energy is providing various fiscal and financial incentives for generation of power from various renewable energy sources including solar and wind energy. The incentives include capital/interest subsidy, generation based incentives, accelerated depreciation, concessional excise and customs duties to encourage use of alternative sources of energy in urban/rural areas. The other steps to promote renewable energy include: setting up of demonstration projects, preferential tariff for purchase of power generated from renewable sources, resource assessment, development of power evacuation and testing facilities, introduction of Renewable Energy Certificates and Renewable Purchase Obligation, etc. Wide publicity and awareness raising on the benefits of renewable energy systems have also been taken up in Hindi, English and regional languages.

#### **Encouraging alternative sources of energy**

1625. SHRI MAHENDRA SINGH MAHRA: Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

- (a) whether Government encourages the use of alternative sources of energy in urban/rural areas;
- (b) if so, the nodal agencies for it at Central, State and district levels;
- (c) the procedure for installation of infrastructure for the same; and
- (d) the incentives/subsidies available to NGOs promoting it and beneficiaries getting the infrastructure installed in their premises?

THE MINISTER OF STATE OF THE MINISTRY OF NEW AND RENEWABLE ENERGY (SHRI PIYUSH GOYAL): (a) The Ministry of New and Renewable Energy (MNRE) is providing various fiscal and financial incentives, such as capital/interest subsidy, generation based incentives, accelerated depreciation, concessional excise and customs duties to encourage use of alternative sources of energy in urban/rural areas. The other steps to promote renewable energy include: setting up of demonstration projects, preferential tariff for purchase of power generated from renewable sources, resource assessment, development of power evacuation and testing facilities, introduction of Renewable Energy Certificates and Renewable Purchase Obligation, etc. Wide publicity and awareness raising on the benefits of renewable energy systems have also been taken up in Hindi, English and regional languages.

- (b) and (c) The State-wise details of nodal agencies implementing the renewable

energy programmes at the State and district level are given in Statement-I (*See below*). Further, the Ministry supports three central technical institutions for resource assessment, testing and training activities. The details are given below:

(i.) National Institute of Solar Energy (NISE), Gurgaon, Haryana

(ii.) National Institute of Wind Energy (NIWE), Chennai, Tamil Nadu

(iii.) National Institute of Renewable Energy (NIRE), Jalandhar, Punjab

(d) The details of Central Financial Assistance being provided under various programmes to various categories including NGOs promoting renewable energy, are given in Statement-II (*See below*)

***Statement-I***

*State-wise details of State Nodal Agencies*

**Andhra Pradesh**

Non-Conventional Energy Development Corporation of  
Andhra Pradesh (NEDCAP) Ltd.,  
5-8-207/2 Pishgah Complex, Nampally  
Hyderabad-500 001

**Arunachal Pradesh**

Arunachal Pradesh Energy Development Agency,  
Urja Bhawan Tadar Tang Marg, Post Box No. 141  
Itanagar-791111

**Assam**

Assam Energy Development Agency (under Science and  
Technology Deptt., Govt. of Assam),  
Bigyan Bhawan, Near IDBI Building, G S Road,  
Guwahati-781005

**Bihar**

Bihar Renewable Energy Development Agency  
1st Floor, Sone Bhawan, Virchand Patel Marg,  
Patna - 800 001

**Chhattisgarh**

Chhattisgarh State Renewable Energy Development Agency (CREDA),  
2nd Floor, CSERC Building, Shanti Nagar,  
Raipur

**Gujarat**

Gujarat Energy Development Agency (GEDA),  
4th Floor, Block No.11 & 12 Udyog Bhawan, Sector-11,  
Gandhi Nagar-382017,  
Gujarat

**Goa**

Goa Energy Development Agency,  
DST&E Building, 1st Floor, Saligo Plateau, Opp. Seminary,  
Saligao, Bardez Goa-403511

**Himachal Pradesh**

HIMURJA, SDA Complex, Kasumpti,  
Shimla-171009

**Haryana**

Haryana Renewal Energy Development Agency (HAREDA),  
SCO 48, Sector 26, Chandigarh-160 019

**Jharkhand**

Jharkhand Renewable Energy Development Agency  
328 B, Road No.4, Ashok Nagar, Ranchi-834 002.

**Jammu and Kashmir**

Jammu & Kashmir Energy Development Agency (JAKEDA),  
12 BC Road, Rehari, Jammu-180001  
Tele:0191 - 2546495, 2552725(R), (Fax) 2546495  
Dharrilla, Raj Bagh Srinagar

**Kerala**

Agency for Non-Conventional Energy and Rural Technology (ANERT),  
Pattom P.O., PB No.1094, Kesavadasapuram,  
Thiruvananthapuram-695 004

**Karnataka**

Karnataka Renewable Energy Development Agency Ltd.,  
19, Maj. Gen. A. D. Loganadan, INA Cross, Queen's Road,  
Bangalore- 560 052

**Maharashtra**

Maharashtra Energy Development Agency (MEDA)  
S.No. 191/A, Phase I, 2nd Floor, MHADA Commercial Complex  
Opp. Tridal Nagar, Yerawada, Pune-411006

**Madhya Pradesh**

MP Urja Vikas Nigam Ltd.,  
Urja Bhawan, Main Road No.2, Shivaji Nagar,  
Bhopal-462016

**Meghalaya**

Meghalaya Non-conventional & Rural Energy Development Agency,  
Lower Lachauriere, Opp. P&T Dispensary, Near BSF Camp (Mawpat),  
Shillong-793001

**Manipur**

Manipur Renewable Energy Development Agency (MANIREDA),  
Department of Science, Technology, Minuthong Hafiz Hatta,  
Imphal-795001

**Nagaland**

Department of New and Renewable Energy Development  
Agency (NREDA),  
Nagaland Secretariat, Kohima,  
Nagaland -797 001

**Mizoram**

Zoram Energy Development Agency (ZEDA),  
Zuangtui,  
P.O. Zemabawk ,Aizawl, Mizoram - 796017

**Punjab**

Punjab Energy Development Agency,  
SCO 134-136, Sector 34-A,  
Chandigarh-160 036

**Odisha**

Orissa Renewable Energy Development Agency,  
S-59, Mancheswar Industrial Estate,  
Bhubaneswar-751 010

**Sikkim**

Sikkim Renewable Energy Development Agency,  
SREDA Bhawan, D.P.H Road, Gangtok,  
Sikkim-737 101

**Rajasthan**

Rajasthan Renewable Energy Corporation Limited,  
E-166, Yudhister Marg, 'C' Scheme,  
Jaipur-302 001

**Tripura**

Tripura Renewable Energy Development Agency,  
Vigyan Bhawan, 2nd Floor,  
Pandit Nehru Complex, West Tripura,  
Agartala-799 006

**Tamil Nadu**

Tamil Nadu Energy Development Agency (TEDA),  
EVK Sampath Building,  
Chennai-600 006

**Uttarakhand**

Uttarakhand Renewable Energy Development Agency (UREDA),  
Energy Park Campus Industrial Area, Patel Nagar,  
Dehradun-248001

**Uttar Pradesh**

New and Renewable Energy Development Agency (NEDA),  
U.P., Vibhuti Khand, Gomti Nagar,  
Lucknow-226 010

**West Bengal**

West Bengal Renewable Energy Development Agency,  
Bikalpa Shakti Bhawan, Plot- J-1/10, EP & GP Block,  
Salt Lake Electronic Complex, Sector- V,  
Kolkata- 700091

**Statement-II**

*Central Financial Assistance being provided under various  
renewable energy programmes.*

**A. Grid-Interactive Renewable Power Programmes:****1. Wind Power Projects:**

Generation Based Incentive (GBI) ₹0.50 per unit subject to max of ₹1.00  
crore/MW

Demonstration Projects in:

Special Category States (NE Region, Sikkim, J&K, HP and Uttarakhand) ₹3.00 crore X  $C^{0.646}$

Other States ₹2.50 crore X  $C^{0.646}$

C: Capacity of the project in MW; ^: raised to the power

**2. Solar Power Projects:**

Solar PV Power projects under Jawaharlal Nehru National Solar Mission (JNNSM) Phase-II, Batch-I of total 750 MW with Viability Gap Funding (VGF) support from National Clean Energy Fund (NCEF),	Minimum Project Capacity 10MW Maximum Project Capacity 50MW	VGF support upto 30% of Project Cost limited to ₹2.50 cr/MW based on reverse bidding process.
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**3. Small Hydro Power Projects:**

Support to new SHP projects in State sector:

Category	Above 100 KW and up to 1000 KW	Above 1 MW - 25 MW
Special category and NE States	75,000 per KW	7.5 crores / MW limited to ₹ 20 crore per project.
Other States	35,000 per KW	3.5 crores / MW limited to ₹ 20 crore per project.

*Support to new SHP project in private / co-operative / joint sector:*

Areas	Upto 25 MW
NE Region, J&K, H.P. & Uttarakhand (Special Category States)	1.5 crore/ MW limited to ₹5.00 crore per project
Other States	1.0 crore/ MW limited to ₹5.00 crore

**4. Biomass Power and Bagasse Cogeneration Projects:**

Private / Joint / Cooperative / Public Sector Sugar Mills:

	Special Category and NE States	Other States
Biomass Power projects	₹25 lakh per MW*	₹ 20 lakh per MW*
Bagasse Co-generation	₹18 lakh per MW*	₹ 15 lakh per MW*
Co-generation projects by cooperative/public sector sugar mills	₹40 lakh ₹50 lakh ₹60 lakh	₹40 lakh ₹50 lakh ₹60 lakh
40 bar & above	Per MW of surplus power	Per MW of surplus power
60 bar & above	(maximum support ₹ 6.0 cr/ project)	power (maximum support of ₹ 6.0 crore per project)
80 bar & above		

\*Maximum support of ₹ 1.50 crore per project.

**5. Waste to Energy Projects:**

Type of Waste	Central Financial Assistance
Municipal Solid Waste	₹2.00cr./MW, Max. Support 10 Cr. /project.
Urban Waste	₹2.00cr./MW, Max. Support 5 Cr. /project.
Industrial waste	₹ 0.20cr to ₹ 1.00 cr/MW, Max. Support ₹5.00cr/ project.

**B. Off-grid/ decentralized renewable energy programmes :**

Sl. No.	Programme	Subsidy
6.	Family type biogas plants	
	NE region states including sikkim (except plain areas of assam)	₹15,000 to ₹17,000 per plant
	Plain areas of Assam	₹10,000 to ₹11,000 per plant
	J&K, Himachal Pradesh, Uttarakhand (excluding terai region), Nilgiris of Tamil nadu, Sadar, Kurseong and Kalimpong sub-divisions of Darjeeling, Sunderbans, Andaman & Nicobar Islands and SC & ST (not included in above areas)	₹7,000 to ₹11,000 per plant
	All Others	₹5,500 to ₹9,000 per plant
7.	Solar Photovoltaic Systems	<ul style="list-style-type: none"> <li>• Subsidy of 30% of project cost</li> <li>• For solar light through NABARD, Regional Rural Banks (RRB) and other commercial bank 40% subsidy is available.</li> </ul>
8.	Solar Water Heater	60% and 30% of the benchmark cost in special category states and other states respectively. Benchmark cost in the range of ₹ 11,000/sq.m. and 8,000/sq.m for different configuration of systems.
9.	Concentrating Solar Thermal Technology	30% of the project cost.
10.	Small Aero-Generators and Hybrid Systems	₹1.00 lakh per KW

Sl. No.	Programme	Subsidy
11.	Micro-hydel plants/ Water mills	<ul style="list-style-type: none"> <li>• ₹ 1.25 lakh/kw for Micro-hydel upto 100 kw</li> <li>• ₹0.50 lakh per watermill for mechanical application</li> <li>• ₹1.50 lakh per watermill for electrical application</li> </ul>
12.	Biomass Gasifier	<ul style="list-style-type: none"> <li>• ₹ 15,000 / kW (with 100% producer gas engine)</li> <li>• ₹ 2,500/kw for duel fuel engine</li> <li>• ₹ 2.0 lakh per 300 kw for Thermal Applications</li> <li>• 20% higher CFA for special category states</li> </ul>
13.	Improved Cookstoves Family sized /domestic cook-stoves/ earthen cookstoves	50% of cost of cook-stoves with maximum ceiling of ₹ 400 for natural draft (including earthen chulhas with metal combustion chambers) and ₹800 for forced draft - average support taken at ₹ 600/- per cookstove.
	Community Cook-stoves for MDM Kitchens, Anganwadis, Tribal / SC / Backward hostels, government and forest rest houses etc.	50% of cost of cook-stoves with maximum ceiling of ₹ 2500 for natural draft and ₹ 5000 for forced draft type cook-stoves - average support taken at ₹ 3750 per cook-stove

#### **Election in PRIs**

1626.DR. T. SUBBARAMI REDDY:

SHRIMATI AMBIKA SONI:

Will the Minister of PANCHAYATI RAJ be pleased to state:

(a) in how many States, elections have been held for Panchayati Raj Institutions (PRIs), as per schedule during the last three years;