

| 1                 | 2 | 3     | 4    | 5    | 6      |
|-------------------|---|-------|------|------|--------|
| 15. Manipur       |   | 143   | 345  | 0    | 616    |
| 16. Meghalaya     |   | 13    | 1022 | 482  | 1678   |
| 17. Mizoram       |   | 36    | 53   | 5    | 94     |
| 18. Nagaland      |   | 43    | 22   | 9    | 88     |
| 19. Odisha        |   | 5890  | 1039 | 119  | 14391  |
| 20. Punjab*       |   | 0     | 0    |      | 0      |
| 21. Rajasthan     |   | 1258  | 182  | 138  | 4144   |
| 22. Sikkim        |   | 20    | 5    | 0    | 25     |
| 23. Tamil Nadu    |   | 0     | 0    |      | 0      |
| 24. Tripura       |   | 65    | 49   | 16   | 143    |
| 25. Uttar Pradesh |   | 23    | 0    | 3    | 27750  |
| 26. Uttarakhand   |   | 28    | 2    | 0    | 1511   |
| 27. West Bengal   |   | 63    | 0    | 16   | 4185   |
| Total             |   | 18306 | 7934 | 2587 | 107415 |

\*In the States of Andhra Pradesh, Gujarat, Haryana, Kerala, Maharashtra, Punjab and Tamil Nadu, no un-electrified village was proposed in the DPRs by these States. However, intensive electrification of already electrified villages are being undertaken in these States.

#### Assessment of demand and supply of power in the states

309. DR. T.N. SEEMA: Will the Minister of POWER be please to state:

(a) whether Government has conducted ay assessment of demand and supply of power in various States including Kerala;

(b) if so, the details thereof;

(c) the time schedule by which supply of power will match the demands of the States and the steps proposed to be taken by Union Government thereon;

(d) the total funds required in this regard; and

(e) the steps taken/being taken by Government to address the issue of developing sustainable energy policy for future and ensuring the energy security across the country, State-wise?

THE MINISTER OF STATE OF THE MINISTRY OF POWER (SHRI JYOTIRADITYA MADHAVRAO SCINDIA): (a) and (b) The 18th Electric Power Survey (EPS) of India conducted by Central Electricity Authority (CEA) have made year-wise forecast for Electrical Energy Requirement and Peak Electric Load at Power Station Bus Bars (utilities only) of the 12th Plan (i.e. 2012-13 to 2016-17) for all States/UTs including Kerala.

The State-wise forecast of electrical energy requirement and peak electrical load by the end of 12th Plan (*i.e.* 2012-13 to 2016-17) is given in the Statement-I (*See below*)

(c) As per Planning Commission, the capacity addition of 88,537 MW has been planned from conventional sources for the 12th Five Year Plan on an All India basis. With this capacity addition, the projected demand for the power on an All India basis is like to be fully met by the terminal year of the 12th Plan (2016-17). The Government has advised various States to expedite the process of Power Procurement in accordance with their demand supply scenario.

(d) As per 12th Five Year Plan documents prepared by the Planning Commission an amount of Rs. 15,01,666 crore (at current price level) has been projected as the required fund for Electricity Generation from conventional sources.

(e) The steps taken by the Government to address the issue of developing sustainable energy policy for future and ensuring the energy security across the country, *inter-alia*, include stepping up the domestic production of coal, oil and gas and other energy sources and providing a stable and attractive policy regime to ensure substantial foreign investment in oil and natural gas blocks. It also includes

providing robust policy framework for facilitating addition of new capacities in renewable energy for sustained economic growth.

As per the energy chapter of 12th Plan document, Planning Commission has advised action points to improve the power supply in the country which, *inter-alia*, includes addition of 88,537 MW generating capacity excluding capacity addition of 30,000 MW in the Renewable Energy Sources. The State-wise capacity addition programme for the 12th Plan is given in the Statement-II

**Statement - I**

*All India and State wise/UT wise forecast Energy Requirement and Peak Electric Load at Power Station Bus Bars by the end of 12th Plan (Utilities Only)*

| State/UTs              | Energy Requirement by the<br>end of 12th Plan in MU | Peak Electric Load by the<br>end of 12th Plan in MW |
|------------------------|---|---|
|                        | 2016-17   | 2016-17   |
| 1                      | 2   | 3   |
| Delhi                  | 37529   | 6398  |
| Haryana                | 56681   | 10273   |
| Himachal Pradesh       | 10901   | 1900  |
| Jammu and Kashmir      | 16298   | 2687  |
| Punjab                 | 69410   | 12342   |
| Rajasthan              | 77907   | 13886   |
| Uttar Pradesh          | 138854  | 23081   |
| Uttarakhand            | 12751   | 2189  |
| Chandigarh             | 2165  | 426   |
| <b>Northern Region</b> | <b>422498</b>                                       | <b>60934</b>  |

| 1                       | 2             | 3            |
|-------------------------|---------------|--------------|
| Goa                     | 4853          | 815          |
| Gujarat                 | 108704        | 19091        |
| Chhattisgarh            | 24222         | 4687         |
| Madhya Pradesh          | 77953         | 13904        |
| Maharashtra             | 169353        | 28645        |
| Dadara and Nagar Haveli | 6286          | 944          |
| Daman and Diu           | 2817          | 441          |
| <b>Western Region</b>   | <b>394188</b> | <b>62015</b> |
| Andhra Pradesh          | 129767        | 22445        |
| Karnataka               | 78637         | 13010        |
| Kerala                  | 26584         | 4669         |
| Tamil Nadu              | 119251        | 20816        |
| Puducherry              | 3586          | 630          |
| <b>Southern Region</b>  | <b>357826</b> | <b>57221</b> |
| Bihar                   | 29447         | 5018         |
| Jharkhand               | 27691         | 4616         |
| Odisha                  | 35772         | 5672         |
| West Bengal             | 70352         | 11793        |
| Sikkim                  | 528           | 144          |
| <b>Eastern Region</b>   | <b>163790</b> | <b>24303</b> |

| 1                      | 2            | 3           |
|------------------------|--------------|-------------|
| Assam                  | 8947         | 1817        |
| Manipur                | 1241         | 346         |
| Meghalaya              | 2243         | 445         |
| Nagaland               | 834          | 185         |
| Tripura                | 1401         | 340         |
| Arunachal Pradesh      | 552          | 135         |
| Mizoram                | 936          | 285         |
| <b>North E. Region</b> | <b>16154</b> | <b>2966</b> |
| Andaman and Nicobar    | 366          | 67          |
| Lakshadweep            | 52           | 11          |
| All India              | 1354874      | 199540      |

**Statement - II**

*State-wise capacity is addition programme for 12th Plan*

| Sl. No. | State/UTs         | Capacity (MW) |
|---------|-------------------|---------------|
| 1.      | Delhi             | 750           |
| 2.      | Haryana           | 1160          |
| 3.      | Himachal Pradesh  | 3583          |
| 4.      | Jammu and Kashmir | 1109          |
| 5.      | Punjab            | 3920          |
| 6.      | Rajasthan         | 2930          |

| Sl. No. | State/UTs              | Capacity (MW) |
|---------|------------------------|---------------|
| 7.      | Uttar Pradesh          | 4730          |
| 8.      | Uttarakhand            | 1025          |
| 9.      | Chandigarh             | 0             |
| 10.     | Chhattisgarh           | 12840         |
| 11.     | Gujarat                | 4252          |
| 12.     | Maharashtra            | 10300         |
| 13.     | Madhya Pradesh         | 7380          |
| 14.     | Goa                    | 0             |
| 15.     | Daman and Diu          | 0             |
| 16.     | Dadra and Nagar Haveli | 0             |
| 17.     | Andhra Pradesh         | 8770          |
| 18.     | Karnataka              | 0             |
| 19.     | Kerala                 | 100           |
| 20.     | Tamil Nadu             | 7270          |
| 21.     | Puducherry             | 0             |
| 22.     | Bihar                  | 4690          |
| 23.     | Jharkhand              | 2080          |
| 24.     | Odisha                 | 3960          |
| 25.     | Sikkim                 | 2066          |
| 26.     | West Bengal            | 2092          |
| 27.     | Arunachal Pradesh      | 1710          |
| 28.     | Assam                  | 850           |

| Sl. No. | State/UTs                  | Capacity (MW) |
|---------|----------------------------|---------------|
| 29.     | Manipur                    | 0             |
| 30.     | Mizoram                    | 60            |
| 31.     | Meghalaya                  | 82            |
| 32.     | Nagaland                   | 0             |
| 33.     | Tripura                    | 828           |
| 34.     | Andman and Nicobar Islands | 0             |
| 35.     | Lakshdweep                 | 0             |
| TOTAL   |                            | 88537         |

#### Demand and supply gap in power sector

310. SHRI DHIRAJ PRASAD SAHU: Will the Minister of POWER be pleased to state:

- (a) whether power sector of the country has been caught in multiple crisis;
- (b) if so, the details thereof;
- (c) whether the power problem lies not in installation flaws or generation capacity but the real problem lies in the estimation of demand and the actual availability;
- (d) if so, the details thereof; and
- (e) the corrective measures taken by Government in this regard?

THE MINISTER OF STATE OF THE MINISTRY OF POWER (SHRI JYOTIRADITYA MADHAVRAO SCINDIA): (a) and (b) Power sector is facing numerous challenges, which, *inter alia*, include shortage of fuel such as coal and gas, poor financial health of Distribution Companies (DISCOMs), transmission and distribution losses, etc.