

**GOVERNMENT OF INDIA  
MINISTRY OF POWER**

**LOK SABHA  
STARRED QUESTION NO.338  
TO BE ANSWERED ON 03.01.2019**

**STREET LIGHTING NATIONAL PROGRAMME**

**\*338. SHRIMATI ANJU BALA:  
SHRI L.R. SHIVARAMA GOWDA:**

**Will the Minister of POWER  
be pleased to state:**

- (a) whether the Government is implementing the Street Lighting National Programme (SLNP) to promote the use of LED lights in place of conventional Street lights in the country and if so, the details of the scheme along with the number of streetlights installed, since its inception, State-wise;**
- (b) whether SLNP is currently being implemented only in a few selected States and if so, the details thereof and the reasons therefor;**
- (c) the total number of Local Bodies which have entered into contract with Energy Efficiency Services Ltd. (EESL) for replacement of street lights with LED lights under SLNP so far, State-wise;**
- (d) whether the Government has made any study on the implementation of the project and if so, the details thereof; and**
- (e) the steps being taken by the Government for effective implementation of SLNP?**

**A N S W E R**

**THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR POWER AND  
NEW & RENEWABLE ENERGY**

**( SHRI R.K. SINGH )**

**(a) to (e) : A Statement is laid on the Table of the House.**

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## STATEMENT

**STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (e) OF STARRED QUESTION NO.338 TO BE ANSWERED IN THE LOK SABHA ON 03.01.2019 REGARDING STREET LIGHTING NATIONAL PROGRAMME.**

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**(a) to (e) : Hon'ble Prime Minister, on 5<sup>th</sup> January, 2015, launched Street Lighting National Programme (SLNP) to replace 1.34 crore conventional street lights with energy efficient LED street lights by March, 2019. SLNP is being implemented by Energy Efficiency Services Limited (EESL), a joint venture company of Public Sector Undertakings (PSUs) under the Ministry of Power. Till date, EESL has installed over 76.77 lakh LED street lights in 28 States/UTs.**

**2. SLNP is voluntary in nature and runs without any budgetary support from Government of India. The entire investment in supply, installation and maintenance of LED Street Lights is made by EESL. Payment to EESL is made by Urban Local Bodies (ULBs) from the resultant savings achieved in terms of reductions in electricity bills and maintenance cost, in respect of the street lights covered under the programme, over a period of seven years.**

**3. SLNP is implemented in States/ULBs, which have signed the implementation agreement with EESL. As on date, it is implemented in all ULBs of 13 States and 1 Union Territory (Annexure-I) and partially in 11 other states and 3 UTs (Annexure-II), including States/UTs where demonstration projects have been successfully completed.**

**4. SLNP has not been implemented so far in the states of Arunachal Pradesh, Manipur, Mizoram, Nagaland and Meghalaya and Union Territories of Daman & Diu, Dadra and Nagar Haveli and Lakshadweep.**

**5. Till date, total 1,492 ULBs have signed the implementation agreement with EESL for replacement of conventional street lights with LED street lights. Out of these ULBs, installation work in 712 ULBs has been completed. States/UTs wise number of ULBs which have signed the implementation agreement with EESL for this programme is at Annexure-III.**

**6. EESL has conducted the studies on the implementation of SLNP in the states of Himachal Pradesh and Rajasthan. The gist of findings emerging from these studies is at Annexure IV.**

**7. For effective implementation of SLNP as well as for expediting the implementation in remaining states/UTs, the following steps have been taken by ESSL/Government:**

- (i) EESL has submitted proposals for replacement of Conventional street lights with LED street to the remaining States/UTs**
- (ii) Letters have been issued by Secretary (Power) to all the Chief Secretaries of all the States/UTs for implementation of SLNP Programme in their respective states**
- (iii) Real time monitoring is done of performance of the installed Street Lights by Centralised Control and Monitoring System (CCMS).**

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**ANNEXURE-I**

**ANNEXURE REFERRED TO IN PARTS (a) TO (e) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 338 TO BE ANSWERED IN THE LOK SABHA ON 03.01.2019 REGARDING STREET LIGHTING NATIONAL PROGRAMME.**

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**List of States where SLNP has been implemented in all ULBs as per implementation agreement signed with EESL**

<b>S. No.</b>	<b>States</b>	<b>No. of LED Street Lights installed till date</b>
<b>1.</b>	<b>Andhra Pradesh</b>	<b>21,81,615</b>
<b>2.</b>	<b>Bihar</b>	<b>1,50,203</b>
<b>3.</b>	<b>Chhattisgarh</b>	<b>3,47,251</b>
<b>4.</b>	<b>Goa</b>	<b>2,06,790</b>
<b>5.</b>	<b>Gujarat</b>	<b>8,83,097</b>
<b>6.</b>	<b>Himachal Pradesh</b>	<b>52,404</b>
<b>7.</b>	<b>Jharkhand</b>	<b>93,742</b>
<b>8.</b>	<b>Maharashtra</b>	<b>1,75,146</b>
<b>9.</b>	<b>Odisha</b>	<b>2,70,271</b>
<b>10.</b>	<b>Rajasthan</b>	<b>9,61,229</b>
<b>11.</b>	<b>Telangana</b>	<b>8,17,878</b>
<b>12.</b>	<b>Tripura</b>	<b>75,376</b>
<b>13.</b>	<b>Uttar Pradesh</b>	<b>7,74,549</b>

**List of UT where SLNP has been implemented in all ULBs as per implementation agreement signed with EESL**

<b>Sl. No.</b>	<b>UT</b>	<b>No. of LED Street Lights installed till date</b>
<b>1.</b>	<b>Chandigarh</b>	<b>41,942</b>

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## **ANNEXURE-II**

**ANNEXURE REFERRED TO IN PARTS (a) TO (e) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 338 TO BE ANSWERED IN THE LOK SABHA ON 03.01.2019 REGARDING STREET LIGHTING NATIONAL PROGRAMME.**

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**List of States where SLNP has been partially implemented in some ULBs as per implementation agreement signed with EESL**

<b>S. No.</b>	<b>States</b>	<b>No. of LED Street Lights installed till date</b>
<b>1.</b>	<b>Assam</b>	<b>23,651</b>
<b>2.</b>	<b>Haryana</b>	<b>61,500</b>
<b>3.</b>	<b>Jammu &amp; Kashmir</b>	<b>11,991</b>
<b>4.</b>	<b>Karnataka</b>	<b>9,882</b>
<b>5.</b>	<b>Kerala</b>	<b>38,301</b>
<b>6.</b>	<b>Madhya Pradesh</b>	<b>81,095</b>
<b>7.</b>	<b>Punjab</b>	<b>46,780</b>
<b>8.</b>	<b>Sikkim</b>	<b>868</b>
<b>9.</b>	<b>Tamil Nadu</b>	<b>6,689</b>
<b>10.</b>	<b>Uttarakhand</b>	<b>30,619</b>
<b>11.</b>	<b>West Bengal</b>	<b>15,307</b>

**List of UTs where SLNP has been partially implemented in some ULBs as per implementation agreement signed with EESL**

<b>Sl. No.</b>	<b>UTs</b>	<b>No. of LED Street Lights installed till date</b>
<b>1.</b>	<b>Delhi</b>	<b>3,05,082</b>
<b>2.</b>	<b>Andaman &amp; Nicobar</b>	<b>13,500</b>
<b>3.</b>	<b>Puducherry</b>	<b>450</b>

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**ANNEXURE-III**

**ANNEXURE REFERRED TO IN PARTS (a) TO (e) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 338 TO BE ANSWERED IN THE LOK SABHA ON 03.01.2019 REGARDING STREET LIGHTING NATIONAL PROGRAMME.**

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**States/UTs wise details ULBs, which have signed the implementation agreement with EESL for replacement of conventional street lights with LED street lights**

<b>Sl. No.</b>	<b>States/UTs</b>	<b>Number of ULBs signed till date</b>
<b>1.</b>	<b>Andaman &amp; Nicobar</b>	<b>1</b>
<b>2.</b>	<b>Andhra Pradesh</b>	<b>108</b>
<b>3.</b>	<b>Assam</b>	<b>3</b>
<b>4.</b>	<b>Bihar</b>	<b>143</b>
<b>5.</b>	<b>Chandigarh</b>	<b>1</b>
<b>6.</b>	<b>Chhattisgarh</b>	<b>168</b>
<b>7.</b>	<b>Goa</b>	<b>14</b>
<b>8.</b>	<b>Gujarat</b>	<b>148</b>
<b>9.</b>	<b>Haryana</b>	<b>1</b>
<b>10.</b>	<b>Himachal Pradesh</b>	<b>48</b>
<b>11.</b>	<b>Jharkhand</b>	<b>43</b>
<b>12.</b>	<b>Kerala</b>	<b>4</b>
<b>13.</b>	<b>Madhya Pradesh</b>	<b>2</b>
<b>14.</b>	<b>Maharashtra</b>	<b>351</b>
<b>15.</b>	<b>New Delhi</b>	<b>1</b>
<b>16.</b>	<b>Odisha</b>	<b>109</b>
<b>17.</b>	<b>Punjab</b>	<b>16</b>
<b>18.</b>	<b>Rajasthan</b>	<b>191</b>
<b>19.</b>	<b>Telangana</b>	<b>76</b>
<b>20.</b>	<b>Tripura</b>	<b>20</b>
<b>21.</b>	<b>Uttar Pradesh</b>	<b>43</b>
<b>22.</b>	<b>Uttarakhand</b>	<b>1</b>
<b>Total</b>		<b>1,492</b>

**In some States/ UTs demonstration projects have been successfully completed- notably in Jammu & Kashmir, Karnataka, Puducherry, Sikkim, Tamil Nadu and West Bengal.**

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**ANNEXURE-IV**

**ANNEXURE REFERRED TO IN PARTS (a) TO (e) OF THE STATEMENT LAID IN  
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The gist of the findings of the case studies on the implementation of LED street lights projects in Himachal Pradesh and Rajasthan are as follows:-

- 1. Himachal Pradesh: The energy & monetary savings achieved through implementation of Street Light National Program in Himachal Pradesh as per survey conducted by EESL, on sample basis, is as follows:-**

Sl. No	City	Total Inst. Lights	Monthly Energy Consumption with Conventional lights (in kWh)	Monthly Energy Consumption with LED (in kWh)	Monthly Energy Saving (in kWh)	% Saving	Monetary Saving Per Month (in INR)
1	Shimla	8516	358082	158199	199883	56%	9,89,419
2	Dharamshala	2910	120345	52495	67850	56%	3,35,859
3	Mandi	2189	80003	34917	45086	56%	2,23,174
4	Sundernagar	1821	62822	27023	35799	57%	1,77,205
5	Paonta Sahib	1948	114525	50654	63871	56%	3,16,159
6	Ghumarwin	608	22645	9911	12734	56%	63,033
7	Manali	798	40912	18876	22036	54%	1,09,079
<b>Total</b>		<b>18790</b>	<b>799334</b>	<b>352075</b>	<b>447258</b>	<b>56%</b>	<b>22,13,928</b>

(Average operating hours per day considered as 11; Monetary saving calculation is based on Deemed saving approach, considering unit rate of INR 4.95/kWh).

**2. Rajasthan:**

- (i) **Jhalawar Street Light Project:-** The energy savings achieved through implementation of Street Light National Programme in Jhalawar as per survey conducted by EESL, on sample basis, is as follows:-

Total Inventory of Conventional Street Lights			
Sr. No.	Earlier Wattage of Lamp (W)	Quantity	Total kW
1	High Pressure Sodium Vapour - 400	36	16
2	High Pressure Sodium Vapour - 250	120	33
3	High Pressure Sodium Vapour - 150	140	23
4	High Pressure Sodium Vapour - 70	157	13
5	Fluorescent Tube Light - 40W	1624	78
6	Compact Fluorescent Lamp - 20W	372	7
<b>Total kW</b>			<b>170</b>
Total Inventory after Installation of LED Street Lights			
Sr. No.	Wattage of LED Light	Quantity	Total kW
1	190	36	7
2	120	120	14
3	72	140	10
4	40	157	6
5	18	1624	29
6	12	372	4
<b>Total kW (New)</b>			<b>71</b>

Estimates of energy saving potential	
Earlier Load (in kW)	170
New Load (in kW)	71
Reduction in Load after Installation (in kW)	99
Annual Energy Saving in kWh	395863
Annual Energy saving in MU's	0.396
% reduction in Load	58%

(Average operating hours per day considered as 11 and operating days considered as 365).

Implementation of the LED street light project in Jhalawar has resulted in reduction of the street lighting load from 170 kW to 71 kW.

(ii) Mount Abu Street Light Project:- The energy savings achieved through implementation of Street Light National Programme in Mount Abu as per survey conducted by EESL, on sample basis is as follows:-

Total Inventory of Conventional Street Lights			
Sl. No.	Earlier Wattage of Lamp (W)	Quantity	Total kW
1	High Pressure Sodium Vapour – 400	106	42.4
2	High Pressure Sodium Vapour – 250	43	10.8
3	High Pressure Sodium Vapour – 150	492	73.8
4	High Pressure Sodium Vapour – 70	144	10.1
5	Fluorescent Tube Light – 40 W	508	20.3
6	Compact Fluorescent Lamp – 36 W	202	7.3
7	Compact Fluorescent Lamp – 72 W	6	0.432
8	Compact Fluorescent Lamp – 15 W	3	0.045
9	Compact Fluorescent Lamp – 11 W	26	0.286
Total kW			165.4

Total Inventory after Installation of LED Street Lights			
Sr. No	Wattage of LED Light	Quantity	Total kW
1	120	76	9.12
2	70	669	46.83
3	15	737	11.055
Total kW (New)			67

Estimates of energy saving potential	
Earlier Load (in kW)	165.4
New Load (in kW)	67
Reduction in Load after Installation (in kW)	98.4
Annual Energy Saving in kWh	394996
Annual Energy saving in MU's	395
% reduction in Load	59%

(Average operating hours per day considered as 11 and operating days considered as 365).  
The implementation of LED street light project in Mount Abu has resulted in reduction of the street lighting load from 165.4 kW to 67 kW.

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