

**GOVERNMENT OF INDIA  
MINISTRY OF POWER**

**LOK SABHA  
STARRED QUESTION NO.179  
TO BE ANSWERED ON 05.05.2016**

**HYDRO POWER GENERATION**

**\*179. DR. RAMESH POKHRIYAL "NISHANK":  
SHRI DHANANJAY MAHADIK:**

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

- (a) whether any survey has been conducted by the Union Government to assess the hydro-electric potential in the country and if so, the details thereof and the current hydro-electric generation capacity realised against the potential in the country;**
- (b) the quantum of hydro electricity produced in the country during the last three years and the current year; and**
- (c) whether a number of hydro-electric projects remain incomplete due to various reasons, if so, the details of the expenditure incurred and the loss occurred due to delay in completion of the projects, State-wise and project-wise?**

**A N S W E R**

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

**( SHRI PIYUSH GOYAL )**

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

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## STATEMENT

**STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (c) OF STARRED QUESTION NO.179 TO BE ANSWERED IN THE LOK SABHA ON 05.05.2016 REGARDING HYDRO POWER GENERATION.**

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**(a) : Central Electricity Authority has conducted studies from 1978 to 1987 for re-assessment of hydro-electric projects in the country. Based on the above studies, the total identified hydropower potential in the country has been assessed as 1,48,701 MW comprising a capacity of 1,45,320 MW from Hydro Electric (HE) schemes above 25 MW capacity against which about 37,998 MW (26.15%) has been exploited so far. In addition, 9 Pumped Storage Schemes of 4785 MW have also been developed.**

**(b) : The quantum of hydro electricity produced in the country during the last three years and the current year is as under:**

<b>Year</b>	<b>Annual Energy (BU)</b>
<b>2013-14</b>	<b>134.85</b>
<b>2014-15</b>	<b>129.24</b>
<b>2015-16</b>	<b>121.34</b>
<b>2016-17 (Upto 24.04.2016)</b>	<b>6.11</b>

**(c) : Presently, 45 HE schemes with an aggregate capacity of 13,502 MW including 2 Pumped Storage Schemes with an aggregate capacity of 1080 MW are under construction in the country. Out of the above, works on 15 Hydro Electric Projects (HEPs) totaling 5992 MW is affected due to various reasons like financial constraints, inter-State disputes, Court Case, Environmental issues, Commercial issues etc., as a result of which there has been a potential loss of generation of power to the extent of 19217.4 MUs, general price escalation and interest during construction. A statement indicating State-wise/Project-wise loss of generation of power is given in Annex.**

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**ANNEX REFERRED TO IN PART (c) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 179 TO BE ANSWERED IN THE LOK SABHA ON 05.05.2016 REGARDING HYDRO POWER GENERATION.**

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**INCOMPLETE HYDRO-ELECTRIC PROJECTS (STATE WISE)- HAVING MAJOR CONSTRAINTS**

Sl. No.	Name of Project/ Executing Agency / Capacity (MW)	Reasons for Stuck up	Design Energy (MU)
	<b>Andhra Pradesh</b>		
1.	<b>Polavaram Polavaram Project Authority (12x80 = 960 MW)</b>	<ul style="list-style-type: none"> <li>• Slow progress of works due to funds constraints</li> </ul>	<b>431.27 (35<sup>th</sup> Yr.)</b>
	<b>Arunachal Pradesh / Assam</b>		
2.	<b>Subansiri Lower NHPC (8x250=2000 MW)</b>	<ul style="list-style-type: none"> <li>• Since 16.12.2011 works stopped due to agitation by various activists, fearing dam safety and downstream impacts of dam.</li> </ul>	<b>7421.59</b>
	<b>Himachal Pradesh</b>		
3.	<b>Kashang – II &amp; III HPPCL (2x65 = 130 MW)</b>	<ul style="list-style-type: none"> <li>• Works on KK Link tunnel could not start due to agitation by Lipka villagers.</li> </ul>	<b>386</b>
	<b>Jammu &amp; Kashmir</b>		
4.	<b>Ratle GVK Ratle Hydro Electric Project Pvt. Ltd. (4x205+1x30=850 MW)</b>	<ul style="list-style-type: none"> <li>• No progress since July, 2014. (Local issues/ Indus Water Treaty Issues/ Issues with State Govt.)</li> </ul>	<b>3136.76</b>
	<b>Kerala</b>		
5.	<b>Pallivasal KSEB (2x30=60 MW)</b>	<ul style="list-style-type: none"> <li>• Works are almost standstill.</li> <li>• Hon'ble Minister of Power, Kerala in a meeting conducted on 22/07/2015 stated that existing contract is liable to be terminated</li> </ul>	<b>153.9 (as available at websites)</b>
6.	<b>Thottiyar KSEB (1x30+1x10=40 MW)</b>	<ul style="list-style-type: none"> <li>• Works are almost standstill.</li> <li>• The contractor has put forward a proposal for foreclosure of the Project due to their financial stringency.</li> </ul>	<b>99 (as available at websites)</b>
	<b>Madhya Pradesh</b>		
7.	<b>Maheshwar SMHPCL (10x40= 400 MW)</b>	<ul style="list-style-type: none"> <li>• Works suspended since Nov-11 due to cash flow problem with developer.</li> </ul>	<b>823</b>
	<b>Maharashtra</b>		
8.	<b>Koyna Left Bank PSS WRD, Govt. of Maharashtra (2x40=80 MW)</b>	<ul style="list-style-type: none"> <li>• Current expenditure on project has reached to almost original administrative approved cost level hence expenditure on the project is stopped</li> </ul>	<b>167.55</b>
	<b>Punjab</b>		
9.	<b>Shahpurkandi Irr. Deptt., Punjab. &amp; PSPCL (3x33+3x33+1x8 =206 MW)</b>	<ul style="list-style-type: none"> <li>• Works of Dam (J&amp;K side) stopped since 30.08.2014 due to inter-state disputes between Punjab and J&amp;K Government.</li> </ul>	<b>815.12</b>

	<b>Sikkim</b>		
<b>10.</b>	<b>Teesta VI LancoTeesta Hydro Power Ltd. (4x125=500 MW)</b>	<ul style="list-style-type: none"> <li>• Almost no progress since April, 2014. (Funds Constraints)</li> </ul>	<b>2440</b>
<b>11.</b>	<b>Rangit-IV Jal Power Corp. Ltd. (JPCL) (3x40= 120 MW)</b>	<ul style="list-style-type: none"> <li>• Works stopped since Oct-13 due to cash flow problem with developer.</li> </ul>	<b>513</b>
<b>12.</b>	<b>Panan Himagiri Hydro Energy Pvt. Ltd. (4x75 = 300 MW)</b>	<ul style="list-style-type: none"> <li>• Major Civil Works held up for want of NGT Clearance. However, since there is no stay, developers informed that work to start shortly.</li> </ul>	<b>1147.82</b>
	<b>Uttarakhand</b>		
<b>13.</b>	<b>Lata Tapovan, NTPC (3x57=171 MW)</b>	<ul style="list-style-type: none"> <li>• Construction work stopped vide Hon'ble Supreme Court order dated 7.5.2014.</li> </ul>	<b>868.89</b>
<b>14.</b>	<b>Phata Byung M/s. Lanco (2x38=76 MW)</b>	<ul style="list-style-type: none"> <li>• Works affected due to flash flood in June, 2013.</li> <li>• Slow pace of works &amp; financial constraints.</li> </ul>	<b>340.5</b>
<b>15.</b>	<b>Singoli Bhatwari M/s. L&amp;T (3x33=99 MW)</b>	<ul style="list-style-type: none"> <li>• Works affected due to flash flood in June, 2013.</li> <li>• Slow pace of works</li> </ul>	<b>473</b>
		<b>Total =</b>	<b>19217.4</b>

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