

**GOVERNMENT OF INDIA
MINISTRY OF POWER**

**LOK SABHA
UNSTARRED QUESTION NO.1574
TO BE ANSWERED ON 09.03.2017**

CAPACITY OF HYDRO POWER GENERATION

†1574. DR. RAMESH POKHRIYAL "NISHANK":

SHRI RAM CHARAN BOHRA:

SHRI BHARAT SINGH:

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

- (a) total hydro power generation capacity in the country presently;**
- (b) the total hydro power being generated in various States in the country presently, State/UT-wise;**
- (c) whether the Union Government has accorded the responsibility to survey the hydro power potential in the country to various agencies and if so, the details thereof;**
- (d) total number of projects pending in the country due to various reasons and total amount spent on those projects till date;**
- (e) whether the Government has estimated the loss due to pendency; and**
- (f) if so, the details thereof, State-wise?**

A N S W E R

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

(SHRI PIYUSH GOYAL)

(a) : As on 25.02.2017, total hydro power generation capacity in the country is 44413.42 MW in respect of hydro project above 25 MW* capacity.

(b) : The total hydro power generation in the country (from Hydro Electric Projects (HEPs) above 25 MW capacity) during the year 2016-17 (upto 25.02.2017) is 113.53 Billion Units and the state-wise generation in respect of hydro project above 25 MW capacity is given at Annex-I.

(c) : The Government has sanctioned the proposal regarding Basin wise Reassessment of Hydro Potential in the country. The work has since been taken up by Central Electricity Authority through WAPCOS Ltd. (a public sector undertaking under Ministry of Water Resources, River Development & Ganga Rejuvenation (MOWR, RD & GR) for completion in about 30 months period.

(d) to (f) : Out of 44 HEPs (above 25 MW) under construction presently, 20 HEPs totalling to 6329 MW are stalled / stressed and an amount of Rs. 30,147.08 crores has already been spent on these HEPs, as per State-wise details given at Annex-II.

*** HEPs below 25 MW capacity come under the purview of Ministry of New & Renewable Energy.**

ANNEX REFERRED TO IN REPLY TO PART (b) OF UNSTARRED QUESTION NO. 1574 TO BE ANSWERED IN THE LOK SABHA ON 09.03.2017.

The state-wise generation in respect of hydro power project above 25 MW capacity

STATE	Installed Capacity (as on 25.02.2017)	Annual Energy Generation (upto 25.02.2017)*
	(MW)	(MU)
Himachal Pradesh	9578.02	35484.79
Jammu & Kashmir	3119.00	13955.97
Punjab	1096.30	3614.51
Rajasthan	411.00	860.42
Uttar Pradesh	501.60	1082.85
Uttarakhand	3756.35	12546.03
Chhattisgarh	120.00	151.85
Gujarat	1990.00	3739.87
Madhya Pradesh	2235.00	6663.70
Maharashtra	3047.00	5343.71
Andhra Pradesh	1610.00	1600.14
Telangana	2306.60	1213.29
Karnataka	3657.40	5627.05
Kerala	1881.50	3636.52
Tamil Nadu	2203.20	2240.16
Jharkhand	210.00	156.13
Odisha	2142.25	4518.47
Sikkim	1965.00	3958.66
West Bengal	1341.20	2672.90
Assam	375.00	1612.50
Meghalaya	282.00	695.96
Nagaland	75.00	254.30
Arunachal Pradesh	405.00	1197.72
Manipur	105.00	705.58
TOTAL	44413.42	113533.08

***Tentative**

ANNEX REFERRED TO IN REPLY TO PARTS (d) TO (f) OF UNSTARRED QUESTION NO. 1574 TO BE ANSWERED IN THE LOK SABHA ON 09.03.2017.

Stalled Under Construction Hydro Electric Projects

(As on 28.02.2017)

Sl. No.	Name of Project/ Executing Agency/ Capacity (MW)	State	Reasons for Stuck up	Expenditure incurred (Upto) (Rs. in crore)
	Central Sector			
1	Lata Tapovan, NTPC Limited 3x57=171 MW	Uttarakhand	Construction work stopped vide Hon'ble Supreme Court order dated 7.5.14.	146.00 (Dec-2016)
2	Subansiri Lower NHPC Limited 8x250=2000 MW	Arunachal Pradesh / Assam	-Since 16.12.2011 works stopped due to agitation by various activists, fearing dam safety and downstream impacts of dam. -Case in Hon'ble National Green Tribunal (NGT), Kolkata Bench.	8766.63 (Dec-2016)
	State Sector			
3	Kashang – II & III HPPCL 2x65 = 130 MW (1 unit already commissioned)	H.P.	-Works on KK Link tunnel could not commence since 2011, due to two separate cases (one for Environmental clearance and another for Forest clearance) which were pending in Hon'ble NGT. The case of Environmental clearance has been decided in favour of HPPCL, whereas in the case of Forest clearance, it has been directed by the Hon'ble NGT that the matter shall be placed before Gram Sabha in the presence of a Justicial Officer. The entire proceeding shall be completed not later than three months from the date of commencement of proceedings of Gram Sabha. HPPCL shall then submit the report to Hon'ble NGT. The application for challenging the Hon'ble NGT decision has been filed in the Hon'ble Supreme Court by HPPCL which has now been withdrawn as per the direction of Govt. of Himachal Pradesh on dated 08.09.2016.	1011.84 (Dec-16)

4	Shahpurkandi Irr. Deptt., Pb. & PSPCL 3x33+3x33+1x8 =206 MW	Punjab	- Works of Dam (J&K side) stopped since 30.08.2014 due to inter-state disputes between Governments of Punjab and J&K.	517.17 (May-2016)
5	Thottiyar KSEB 1x30+1x10=40 MW	Kerala	- Works are almost standstill since Nov, 2015. The contractor has put forward a proposal for foreclosure of the Project due to their financial stringency and a detailed note regarding the same was submitted to the Board for approval. It is decided to foreclose the work and the balance work may be re-arranged through open tender or through Govt. approved executing agencies like Uralungal Labour Contract Co-operative Society.	52.88 (Jun-2016)
6	Pallivasal KSEB 2x30=60 MW	Kerala	- Works are almost standstill since Jan, 2015. The contractor has put forward a proposal for foreclosure of the Project due to their financial stringency and a detailed note regarding the same was submitted to the Board for approval. It is decided to foreclose the work and the balance work may be re-arranged through open tender or through Govt. approved executing agencies like Uralungal Labour Contract Co-operative Society.	183.70 (Dec-2016)
7	Koyna Left Bank PSS WRD, Govt. of Maharashtra 2x40=80 MW	Maharashtra	- Project stalled since July, 2015. The current expenditure on the project has already reached to almost original administrative approved cost level hence expenditure on the project is stopped and project work is processing at very slow rate. Revised cost is under approval by State Govt.	334.59 (Nov-2016)
8	Lower Kalnai JKSPDC 2x24=48 MW	J&K	The works has been stalled due to financial issues with contractor. The contractor, M/s. Coastal Projects Ltd. has gone under CDR (Contract Debt Restructuring) mechanism.	71.98 (Nov-2016)
	Private Sector			
9	Maheshwar Shree Maheshwar Hydel Power Corporation Limited 10x40= 400 MW	M. P.	Works suspended since Nov-11 due to cash flow problem with the developer.	3135.00 (Mar-2015)

10	Teesta VI Lanco Teesta Hydro Power Ltd. 4x125=500 MW	Sikkim	There is almost no progress since April, 2014. (Funds constraints)	3621.00 (Dec-2016)
11	Rangit-IV Jal Power Corp. Ltd. (JPCL) 3x40= 120 MW	Sikkim	Works stopped since Oct-13 due to funds constraints with developer.	816.76 (Jun-2016)
12	Panan Himagiri Hydro Energy Pvt Ltd. 4x75 = 300 MW	Sikkim	Major Civil Works could not commence since April, 2014 for want of Clearance from Hon'ble NGT.	156.50 (Oct-2016)
13	Ratle GVK Ratle Hydro Electric Project Pvt. Ltd. 4x205+1x30=850MW	J&K	There is no progress since 11th July, 2014. (R&R issues, Local issues, Law & order problem, Indus Water Treaty etc.)	1451.00 (Mar-2015)
14	Tangnu Romai Tangnu Romai Power Generation 2x22=44 MW	H.P.	The developer informed that the project suffered due to very poor geology in HRT, due to which project got delayed and cost had increased. Further Works stalled since January, 2015 due to fund constraints.	179.00 (Mar-2013)
15	Sorang Himachal Sorang Power Ltd. 2x50=100 MW	H.P.	Works are stalled since 18.11.2015 due to rupture in the surface penstock pipe when unit#2 was under trial run.	-NA-

Total = 15 Nos. (4984 MW)

In addition to above, the following projects are also stressed:-

Sl. No.	Name of Project/ Executing Agency/ Capacity (MW)	State	Reasons for Stress	Expenditure Incurred (Upto)
	State Sector			
1	Polavaram Polavaram Project Authority(12x80 = 960 MW)	Andhra Pradesh	-Slow progress of works. - E&M works yet to be awarded. - Public hearing for construction of protective embankment to be held in Oddisha and Chhattisgarh as desired by MOEF &CC (Ministry of Environment, Forests & Climate Change).	7364.06 (Aug-2015)
	Private Sector			
2	Phata Byung M/s.Lanco 2x38=76 MW	Uttarakhand	- Works affected due to flash floods in June, 2013. - Slow pace of works. - High tariff due to time & cost over-run.	897.35 (Jan-2017)

3	Singoli Bhatwari M/s.L&T 3x33=99 MW	Uttarakhand	<ul style="list-style-type: none"> - Works affected due to flash floods in June, 2013. - Slow pace of works. - High tariff due to time & cost over-run. 	920.41 (Jan-2017)
4	Gongri Dirang Energy Pvt. Ltd. 2x72=144 MW	Arunachal Pradesh	Works stopped since 2 nd week of April, 2016 due to fund flow problem with promoter / lenders. Works restarted in July-2016 but fund constraints still exist.	521.21 (Mar-2016)
5	Rangit-II Sikkim Hydro Power Ltd. 2x33=66MW	Sikkim	Works are stalled since 2014 due to non-release of funds by lenders because of power evacuation and land acquisition issues. Developer has to infuse equity into the project. Meanwhile, the promoter of the company 'Gammon India Ltd' is under CDR. Hence, Power Finance Corporation (PFC) is unable to disburse the loan. Talks between developer & lenders is under progress, however funds are not yet disbursed by banks. The developer re-started works w.e.f. September, 2016.	-NA-

Total = 5 Nos. (1345 MW)

Grand Total = 20 Nos. (6329 MW)

Total Amount Incurred till date= Rs.30147.08 Crs.
