

**GOVERNMENT OF INDIA
MINISTRY OF POWER
LOK SABHA
STARRED QUESTION NO.7
ANSWERED ON 02.02.2023**

HYDRO POWER PROJECTS IN HIMALAYAN REGION

***7. SHRI ASADUDDIN OWAISI:**

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

- (a) the details of the number of ongoing hydro power projects in the Himalayan belt across different States in the country at present;**
- (b) whether any environmental angle was taken/proposed to be taken into account while sanctioning and starting such projects in this region and if so, the details thereof;**
- (c) the details of the number of projects affected by floods, landslides and other ecological events in this region;**
- (d) the extent to which the recent situation/events in Joshimath region has affected the power projects; and**
- (e) the steps taken/proposed to be taken by the Government to ensure that environmental, ecological and geographical angles are taken into consideration before sanctioning and starting such power projects?**

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

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

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (e) OF STARRED QUESTION NO. 7 ANSWERED IN THE LOK SABHA ON 02.02.2023 REGARDING HYDRO POWER PROJECTS IN HIMALAYAN REGION.

(a) : At present, there are 30 nos. of large Hydro Electric Projects (HEPs) (above 25 MW Installed Capacity) with aggregate Installed Capacity of 11137.50 MW which are being developed in the Himalayan belt across different States in the country. Out of these projects, 23 Nos. of Hydro Electric projects totaling to 10381.5 MW, are under active construction and 7 nos. of HEPs totaling to 756 MW, are held up. The details of these projects are enclosed at Annexure-I. Besides, there are 87 nos. HEPs with an aggregate Installed Capacity of 22982 MW in Himalayan belt across different States in the country which are operational (Annexure-II).

(b) : No hydro project above 25 MW is taken up before getting Environmental Clearance which is given by Ministry of Environment, Forest and Climate Change (MoEF&CC) only after a comprehensive assessment by an Expert Appraisal Committee (EAC).

The project proposal is also assessed from the aspect of safety by the Central Water Commission (CWC). Central Electricity Authority (CEA) examines the project proposal before giving statutory concurrence along with other appraising agencies including Geological Survey of India (GSI) and Central Soil and Materials Research Station (CSMRS). This ensures that all necessary clearances are in place before start of construction of a hydro power project.

(c) : Out of 30 under construction projects, only 2 projects namely Phata Byung (76MW) and Tapovan Vishnugad (520 MW) located in Uttarakhand were impacted due to natural events such as floods/ice avalanche in the last 10 years.

(d) : No large hydro power project lies in the close proximity of Joshimath town. The nearest power project namely Tapovan Vishnugad HEP, is also far away from the site where subsidence took place in recent past. Tapovan Vishnugad HEP remains unaffected due to subsidence incident in the Joshimath region. However, the District Administration has issued an order on 05.01.2023 to stay the construction activities at the project site until further orders.

(e) : As stated in the reply to part (b), no hydro project above 25 MW is taken up without Environmental Clearance.

As per Section 8 (1) of the Electricity Act, 2003, any generating company intending to set up a hydro generating station shall prepare and submit to the CEA for its concurrence, a scheme estimated to involve a capital expenditure exceeding such sum as may be fixed by the Central Government, from time to time (presently Rs.1000 crores).

Large hydro projects are examined from basin planning, environmental, ecological and geological angles by CEA along with other appraising agencies like Central Water Commission (CWC), Geological Survey of India (GSI), Central Soil and Materials Research Station (CSMRS) before according final clearance to the project.

GSI appraises the geology of the project components to ensure that detailed geological mapping & geophysical surveys have been done, drilling/ drifting carried out and structural features have been studied in detail before construction. CWC examines the foundation engineering and seismicity aspects of the project to ensure that site specific seismic study for a river valley project including geological setting of the area and tectonic features of the region are studied and seismic design parameters are followed. Construction material & geotechnical aspects are examined in detail by CSMRS. Hydro Power Projects are taken up for construction only after necessary statutory clearances are given by the concerned bodies.

ANNEXURE REFERRED TO IN PART (a) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 7 ANSWERED IN THE LOK SABHA ON 02.02.2023 REGARDING HYDRO POWER PROJECTS IN HIMALAYAN REGION

List of Hydro Electric Projects (above 25 MW) under implementation in the Himalayan States (As on 26.01.2023)									
Sl. No.	Name of Scheme (Executing Agency)	Sector	District	I.C. (No. X MW.)	Cap. Under Execution (MW)	River/Basin	Date of Environmental Clearance	Physical progress (in %)	Date of finish/commissioning
	Arunachal Pradesh								
1	Subansiri Lower (NHPC)	Central	Lower Subansiri	8x250	2000.00	Subansiri/Brahmaputra	16.7.2003	84%	2023-25 (June'24)#
	Sub-total: Arunachal Pradesh				2000.00				
	Assam								
2	Lower Kopli (APGCL)	State	Dima Hasao & Karbi Anglong	2x55+2x2.5+1x5	120.00	Kopili/Brahmaputra	4.9.2019	36%	2024-25 (Mar'25)
	Sub-total: Assam				120.00				
	Himachal Pradesh								
3	Parbati St. II (NHPC)	Central	Kullu	4x200	800.00	Parbati/Beas/Indus	04.06.2001	95%	2023-24 (Mar'24)
4	Luhri-I (SJVN)	Central	Kullu/Shimla	2x80+2x25	210.00	Satluj/Indus	17.03.2020	33%	2025-26 (Jan'26)
5	Dhulasidh (SJVN)	Central	Hamirpur/Kangra	2x33	66.00	Beas/Indus	21.02.2013	26%	2025-26 (Nov'25)
6	Sunni Dam (SJVN)	Central	Shimla/Mandi	4x73+1x73+1x17	382.00	Satluj	04.02.2022	Works recently awarded	2027-28 (March'28)
7	Uhi-III (BVPCL)	State	Mandi	3x33.33	100.00	Uhi/Beas/Indus	15.11.2002	93%	2024-25 (Dec'24)
8	Shongtong Karcham (HPPCL)	State	Kinnaur	3x150	450.00	Satluj/ Indus	19.05.2011	44%	2026-27 (Nov'26)
9	Chanju-III (HPPCL)	State	Chamba	3x16	48.00	Chanju Nallah	29.09.2017	Works recently awarded	2027-28 (June'27)
10	Tidong-I (Statkraft IPL)	Private	Kinnaur	3x50	150.00	Tidong/Satluj/Indus	18.06.2008/06.08.2021	90%	2023-24 (Dec'23)
11	Kutehr (JSW Energy Ltd)	Private	Chamba	3x80	240.00	Ravi/ Indus	05.07.2011	62%	2025-26 (Nov'25)
12*	Tangnu Romai (TRPG)	Private	Shimla	2x22	44.00	Pabbar/Tons/Yamuna/Ganga	01.05.2009	40%	*
	Sub-total: Himachal Pradesh				2490.00				
	Jammu & Kashmir								
13	Pakal Dul (CVPPL)	Central	Kishtwar	4x250	1000.00	Marusadar/Chenab / Indus	29.2.2008	32%	2025-26 (July'25)
14	Kiru (CVPPL)	Central	Kishtwar	4x156	624.00	Chenab/Indus	24.06.2016	15%	2025-26 (July'25)
15	Ratle (RHEPPL / NHPC)	Central	Kishtwar	4x205 + 1x30	850.00	Chenab/Indus	12.12.2012	6%	2025-26 (Feb'26)
16	Kwar (CVPPPL)	Central	Kishtwar	4x135	540	Chenab/Indus	10.04.2017	4%	2026-27 (Nov'26)
17	Parnai (JKSPDC)	State	Poonch	3x12.5	37.50	Jhelum/Indus	24.12.2010	51%	2024-25 (Jun'24)
18*	Lower Kalnai (JKSPDC)	State	Kishtwar	2x24	48.00	Chenab/Indus	22.08.2014	9%	*
	Sub-total: Jammu & Kashmir				3099.50				
	Sikkim								
19	Teesta St. VI NHPC	Central	South Sikkim	4x125	500.00	Teesta/Brahmaputra	21.09.2006	48%	2025-26 (July'25)

20	Rangit-IV (NHPC)	Central	West Sikkim	3x40	120.00	Rangit/ Teesta/ Brahmaputra	16.05.2007	55%	2024-25 (Aug'24)
21*	Bhasmey (Gati Infrastructure)	Private	East Sikkim	2x25.5	51.00	Rangpo/ Teesta/ Brahmaputra	15.05.2007	30%	*
22*	Rangit-II (Sikkim Hydro)	Private	West Sikkim	2x33	66.00	Greater Rangit/ Teesta/ Brahmaputra	16.04.2010	20%	*
23*	Panan (Himagiri)	Private	North Sikkim	4x75	300.00	Rangyongchu/ Teesta/ Brahmaputra	02.01.2007	5%	*
	Sub-total: Sikkim				1037.00				
	Uttarakhand								
24	Vishnugad Pipalkoti (THDC)	Central	Chamoli	4x111	444.00	Alaknanda/ Ganga	22.08.2007	62%	2024-25 (Mar'25)
25	Naitwar Mori (SJVNL)	Central	Uttarkashi	2x30	60.00	Tons/Yamuna/ Ganga	16.06.2016	87%	2022-23 (March'23)
26	Tapovan Vishnugad (NTPC)	Central	Chamoli	4x130	520.00	Dhauliganga / Alaknanda & /Ganga	08.02.2005	75%	2024-25 (Dec'24)
27	Tehri PSS (THDC)	Central	Tehri Garhwal	4x250	1000.00	Bhilangna/ Bhagirathi/ Ganga	19.7.1990	93%	2023-24 (Oct'23)
28*	Lata Tapovan (NTPC)	Central	Chamoli	3x57	171.00	Dhauliganga /Alaknanda & Ganga	21.02.2007	4%	*
29*	Phata Byung (LANCO)	Private	Rudraprayag	2x38	76.00	Mandakini/ Alaknanda Ganga	18.02.2008	74%	*
	Sub-total: Uttarakhand				2271.00				
	West Bengal								
30	Rammam-III (NTPC)	Central	Darjeeling	3x40	120.00	Rammam/ Rangit/Teesta Brahmaputra	17.08.2007	44%	2025-26 (July'25)
	Sub-total: West Bengal				120.00				
	Total:				11137.50				
# 4 units (1000 MW) likely to commissioned in 2023-24 and remaining 4 units (1000 MW) during 2024-25									
*Project is presently stalled, commissioning subject to re-start of works									

ANNEXURE REFERRED TO IN PART (a) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 7 ANSWERED IN THE LOK SABHA ON 02.02.2023 REGARDING HYDRO POWER PROJECTS IN HIMALAYAN REGION

State-wise / Station-wise Installed Capacity of H.E. Stations in Himalayan Region (Above 25 MW Capacity)						
Sl. No.	Stations	Utilities	Capacity (MW)	Design Energy (MU)	Year of Commissioning	District
Himachal Pradesh						
1	Bhakra Left	BBMB	612.00	3924.00	1961	BILASPUR
2	Bhakra Right	BBMB	785.00		1968	BILASPUR
3	Dehar	BBMB	990.00	3110.00	1983	MANDI
4	Pong	BBMB	396.00	1123.00	1983	KANGRA
5	Baira Siul	NHPC	180.00	779.28	1981	CHAMBA
6	Chamera-I	NHPC	540.00	1664.56	1994	DALHOUSIE
7	Chamera-II	NHPC	300.00	1499.89	2004	CHAMBA
8	Chamera-III	NHPC	231.00	1108.00	2012	CHAMBA
9	Parbati-III	NHPC	520.00	1977.23	2014	KULLU
10	Nathpa Jhakri	SJVNL	1500.00	6612.00	2004	KINNAUR
11	Rampur	SJVNL	412.00	1878.08	2014	SHIMLA
12	Koldam	NTPC	800.00	3054.79	2015	MANDI
13	Bassi	HPSEBL	66.00	346.77	1981	MANDI
14	Giri Bata	HPSEBL	60.00	240.00	1978	SIRMAUR
15	Larji'	HPSEBL	126.00	586.85	2006	KULLU
16	Sanjay	HPSEBL	120.00	518.00	1989	KINNAUR
17	Integrated Kashang	HPPCL	195.00	245.80	2017	KINNAUR
18	Sainj	HPPCL	100.00	323.23	2017	KULLU
19	Sawra Kuddu	HPPCL	111.00	386.00	2020	SHIMLA
20	Shanan	PSPCL	110.00	585.00	1982	MANDI
21	Malana	MPCL	86.00	370.93	2001	KULLU
22	Budhil	GBHPPL	70.00	291.73	2012	CHAMBA
23	Malana-II	EPPL	100.00	403.00	2011	MALANA
24	Chanju-I	IA Energy	36.00	157.82	2017	CHAMBA
25	Allain Duhangan	ADHPL	192.00	678.18	2010	MANALI
26	Baspa	HBPCL	300.00	1213.00	2003	KINNAUR
27	Karcham Wangtoo	HBPCL	1045.00	4131.06	2011	KINNAUR
28	Sorang	HSPPL	100.00	524.00	2021	Kinnaur
29	BajoliHoli	GMR	180.00	769.39	2022	Chamba
Total Himachal Pradesh			10263.00	38501.59		
JAMMU & KASHMIR						
30	Baglihar-I	JKSPDC	450.00	2643.00	2008	DODA
31	Baglihar-II	JKSPDC	450.00	1302.30	2015	DODA
32	Lower Jhelum	JKSPDC	105.00	533.00	1979	BARAMULLAH
33	Upper Sindh-II	JKSPDC	105.00	355.00	2002	GANDERBAL
34	Dulhasti	NHPC	390.00	1907.00	2007	DODA
35	Salal-I&II	NHPC	690.00	3082.00	1995	REASI
36	Uri-I	NHPC	480.00	2587.38	1997	BARAMULA
37	Uri-II	NHPC	240.00	1124.00	2014	BARAMULLAH
38	Sewa-II	NHPC	120.00	533.52	2010	KATHUA
39	Keshanganga	NHPC	330.00	1705.62	2018	BANDIPORA
Total Jammu & Kashmir			3360.00	15772.82		
LADAKH						
NHPC						
40	Chutak	NHPC	44.00	213.00	2013	KARGIL
41	NimooBazgo	NHPC	45.00	239.00	2013	LEH
Total Ladakh			89.00	452.00		
UTTARAKHAND						
42	Dhaulti Ganga	NHPC	280.00	1134.69	2005	PITHORAGARH
43	Tanakpur	NHPC	94.20	452.19	1992	CHAMPAVAT
44	Tehri St-I	THDC	1000.00	2797.00	2007	TEHRI GARHWAL

45	Koteshwar	THDC	400.00	1155.00	2012	TEHRI GARHWAL
46	Chibro (Yamuna)	UJVNL	240.00	750.00	1976	DEHRADUN
47	Chilla	UJVNL	144.00	725.00	1981	HARIDWAR
48	Dhakrani	UJVNL	33.75	169.00	1970	DEHRADUN
49	Dhalipur	UJVNL	51.00	192.00	1970	DEHRADUN
50	Khatima	UJVNL	41.40	208.00	1956	U.S. NAGAR
51	Khodri	UJVNL	120.00	345.00	1984	DAK PATHAR
52	Kulhal	UJVNL	30.00	164.00	1975	DEHRADUN
53	Maneri Bhali-I	UJVNL	90.00	395.00	1984	UTTARKASHI
54	Maneri Bhali-II	UJVNL	304.00	1566.10	2008	UTTARKASHI
55	Ramganga	UJVNL	198.00	334.00	1977	PAURI GARHWAL
56	Vyasi	UJVNL	120.00	375.24	2022	DEHRADUN
57	Shrinagar	AHPC	330.00	1396.84	2015	PAURI GARHWAL
58	Vishnu Prayag	JPPVL	400.00	1774.42	2006	CHAMOLI
59	Singoli Bhatwari	ReNew Power Private Ltd	99.00	473.00	2020	RUDRAPRAYAG
Total Uttarakhand			3975.35	14406.48		
WEST BENGAL						
60	Maithon	DVC	63.20	137.00	1958	DHANBAD
61	Teesta Low Dam-III	NHPC	132.00	594.00	2013	DARJEELING
62	Teesta Low Dam-IV	NHPC	160.00	719.67	2016	DARJEELING
63	Jaldhaka	WBSEDCL	36.00	165.00	1972	JALPAIGURI
64	Rammam	WBSEDCL	50.00	210.00	1996	DARJEELING
65	Purulia	WBSEDCL	900.00	1235.00	1996	PURULIA
Total West Bengal			986.00	1610.00		
SIKKIM						
66	Rangit	NHPC	60.00	338.61	2000	GANGTOK
67	Teesta-V	NHPC	510.00	2572.70	2008	EAST SIKKIM
68	Teesta-III	Teesta Urja Ltd.	1200.00	5214.00	2017	NORTH SIKKIM
69	Chujachen	GIPL (Gati Infra Pvt. Ltd.)	110.00	537.81	2013	EAST SIKKIM
70	Dikchu	SKPPPL	96.00	431.00	2017	EAST SIKKIM
71	Tashiding	SEPL	97.00	425.05	2017	WEST SIKKIM
72	Jorethang Loop		96.00	459.02	2015	JORETHANG
73	Rongnichu	MBPC	113.00	434.00	2021	EAST SIKKIM
Total Sikkim			2282.00	10412.19		
ARUNACHAL PRADESH						
74	Ranganadi	NEEPCO	405.00	1509.66	2002	LOWER SUBANSIRI
75	Pare	NEEPCO	110.00	506.42	2018	PAPUM PARE
76	Kameng	NEEPCO	600.00	3353.00	2021	WEST KAMENG
Total Arunachal Pradesh			1115.00	5369.08		
ASSAM						
77	Kopoli	NEEPCO	200.00	1186.14	1997	DIMA HASAO
78	Khandong	NEEPCO	50.00	363.95	1984	DIMA HASAO
79	KarbiLangpi	APGCL	100.00	390.00	2007	KARBI ANGLONG
Total Assam			350.00	1940.09		
MIZORAM						
80	Tuirial	NEEPCO	60.00	250.63	2017	KOLASIB
Total Mizoram			60.00	250.63		
NAGALAND						
81	Doyang	NEEPCO	75.00	227.24	2000	WOKHA
Total Nagaland			75.00	227.24		
MANIPUR						
82	Loktak	NHPC	105.00	448.00	1983	IMPHAL
Total Manipur			105.00	448.00		
MEGHALAYA						
83	Kyrdemkulai	MePGCL	60.00	118.00	1979	RI-BHOI
84	Umiam St. I	MePGCL	36.00	128.00	1965	RI-BHOI
85	New Umtru	MePGCL	40.00	235.00	2017	RI-BHOI
86	Umiam St. IV	MePGCL	60.00	324.00	1992	RI-BHOI
87	Myntdu St-I	MePGCL	126.00	372.69	2013	JAINTIA HILLS
Total Meghalaya			322.00	1177.69		
Total Himalayan States			22982.35	90567.81		

**GOVERNMENT OF INDIA
MINISTRY OF POWER
LOK SABHA
STARRED QUESTION NO.12
ANSWERED ON 02.02.2023**

INCREASE IN DEMAND FOR POWER

***12. SHRI SANJAY KAKA PATIL:**

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

- (a) whether any steps have been taken/proposed to be taken to meet the increased demand for power in future with regard to the record 203 days of heat waves experienced in 2022;**
- (b) if so, the details thereof and if not, the reasons therefor;**
- (c) whether the Government proposes to formulate any policy to tackle the recurring problem of power outages during summers; and**
- (d) if so, the details thereof and if not, the reasons therefor?**

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

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

STATEMENT

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (d) OF STARRED QUESTION NO. 12 ANSWERED IN THE LOK SABHA ON 02.02.2023 REGARDING INCREASE IN DEMAND FOR POWER

(a) to (d) : Indian power system has already met a record power demand of 211.6 GW in June 2022. During the current year 2023, the power demand is expected to be around 225 GW during summer. Following steps have been taken for meeting the increased demand for power:

- (i) Measures have been taken to ensure the availability of the generation capacity. The generators shall complete the maintenance work of their plants well before the period of high demand. No planned maintenance will be taken during the high demand period (say April to May 2023).
- (ii) Monitoring and Coordination with Ministries of coal and railways on a regular basis for increase in the production and dispatch of coal as much as possible.
- (iii) All generators have been asked for timely import of Coal for blending purposes so that adequate coal stock is maintained in the plant.
- (iv) All captive coal blocks have been asked to maximize the coal production to supplement the coal supply from domestic coal companies (CIL and SCCL).
- (v) Additional arrangement for gas for running gas based stations has been planned from GAIL, during high power demand months.
- (vi) The Electricity Amendment Rule, 2022 has been notified on 29th December 2022 which mandate preparation of resource adequacy plan so as to successfully meet the power demand of the consumers.

**GOVERNMENT OF INDIA
MINISTRY OF POWER
LOK SABHA
UNSTARRED QUESTION NO.15
ANSWERED ON 02.02.2023**

ONLINE NATIONAL DATABASE OF PUBLIC EV CHARGING STATIONS

15. SHRI SHRINIWAS PATIL:

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

- (a) whether the Government has created an online national database of public Electric Vehicle (EV) charging stations;**
- (b) if so, the details thereof;**
- (c) the details of the number of such charging stations currently in operation in the country;**
- (d) whether EV charging stations require registration for being operationalized along highways; and**
- (e) if so, the details thereof regarding the current density of charging stations on highways?**

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) & (b) : Ministry of Power have issued revised guidelines for public Electric Vehicle (EV) Charging Infrastructure and have tasked Bureau of Energy Efficiency (BEE) to create and maintain a national online database through a Web-Portal/Software/Mobile Application for the database of Public Charging Stations throughout the country in consultation with State Nodal Agencies (SNAs). A mobile application and web-portal, 'EV Yatra' has been launched on 14th December, 2022.

(c) : As per the data available with Bureau of Energy Efficiency (BEE), a total of 5254 Public Charging Stations (PCS) are currently operational in the country as on 23.01.2023. Details of state wise operational public EV charging stations is at Annexure-A.

(d) : As per revised consolidated Guidelines & Standards for Charging Infrastructure for Electric Vehicles (EVs) issued by Ministry of Power on 14.01.2022, no license is required for operationalization of EV charging stations.

(e) : As per data available with Bureau of Energy Efficiency (BEE), 43 public EV charging stations are currently operational on National Highways across the country. Details of national highways wise operational public EV charging stations are placed at Annexure-B.

**ANNEXURE REFERRED TO IN REPLY TO PART (c) OF UNSTARRED QUESTION NO.15
ANSWERED IN THE LOK SABHA ON 02.02.2023**

State wise operational Public EV Charging Stations (PCS)

Sl. No.	State Name	No. of PCS
1	Andaman & Nicobar	3
2	Andhra Pradesh	222
3	Arunachal Pradesh	9
4	Assam	48
5	Bihar	83
6	Chandigarh	6
7	Chhattisgarh	46
8	Delhi	539
9	Goa	44
10	Gujarat	170
11	Haryana	230
12	Himachal Pradesh	27
13	Jammu & Kashmir	24
14	Jharkhand	60
15	Karnataka	704
16	Kerala	192
17	Lakshadweep	1
18	Madhya Pradesh	174
19	Maharashtra	660
20	Manipur	16
21	Meghalaya	19
22	Nagaland	6
23	Odisha	117
24	Puducherry	4
25	Punjab	126
26	Rajasthan	254
27	Sikkim	1
28	Tamil Nadu	442
29	Telangana	365
30	Tripura	18
31	UT Administration of Dadra & Nagar Haveli and Daman & Diu	1
32	Uttar Pradesh	406
33	Uttarakhand	48
34	West Bengal	189
Total		5254

**ANNEXURE REFERRED TO IN REPLY TO PART (e) OF UNSTARRED QUESTION NO.15
ANSWERED IN THE LOK SABHA ON 02.02.2023**

National highway wise operational Public EV Charging Stations (PCS)

Sl. No.	National Highways No.	Operational PCS (No.)
1	National Highway - 22	2
2	National Highway - 8	3
3	National Highway - 1	2
4	National Highway - 11	8
5	National Highway - 8	9
6	National Highway - 48	1
7	National Highway - 16	7
8	National Highway - 4	1
9	National Highway - 8E	1
10	National Highway - 5	2
11	National Highway - 44	1
12	National Highway - 216	1
13	National Highway - 65	1
14	National Highway - 221	1
15	National Highway - 563	1
16	National Highway - 163	1
17	National Highway - 148	1
Total		43

**GOVERNMENT OF INDIA
MINISTRY OF POWER
LOK SABHA
UNSTARRED QUESTION NO.23
ANSWERED ON 02.02.2023**

PRODUCTION AND USAGE OF RENEWABLE SOURCES OF ENERGY

**23. SHRI SANJAY SADASHIVRAO MANDLIK:
SHRI BIDYUT BARAN MAHATO:
SHRI SHRIRANG APPA BARNE:
SHRI PRATAPRAO JADHAV:
SHRI SUDHEER GUPTA:
SHRI DHAIRYASHEEL SAMBAJIRAO MANE:**

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

- (a) the details of the total distribution of energy through various sources of energy in the country;**
- (b) the details of the region which has the least share in production and usage of renewable sources of energy in the country, State/UT-wise;**
- (c) the details of the value of total exports to other countries in terms of both renewable and non-renewable energy;**
- (d) the details of share and income generated from exports during each of the last three years, country-wise;**
- (e) whether any efforts have been made by the Bureau of Energy Efficiency (BEE) to harmonize energy efficiency standards for appliances with countries such as the EU and the USA and if so, the details thereof; and**
- (f) whether the Government proposes to harmonize standards which would facilitate better trade and if so, the details thereof?**

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

- (a) : The details of electricity generation through various sources of energy in the country during the last year & current year 2022-23 (upto December, 2022) are given at Annexure-I.**
- (b) : North-East Region has least share in production of renewable sources of Energy in the country. The details of region-wise and State-wise electricity production from renewable sources & its share of production during the last year & current year 2022-23 (upto December, 2022) are given at Annexure-II.**

(c) & (d) : The details of net export/ import of electricity by Indian entities during last three years& current year 2022-23 (upto December, 2022) are given at Annexure-III. Import/Export of electricity is done purely on commercial terms by buying and selling entities and Ministry of Power does not maintain any data regarding value of total exports to other countries as well as classification of power in terms of renewable and non-renewable.

(e) & (f) : Bureau of Energy Efficiency (BEE) has explored the possibility of harmonizing the standards for Room Air conditioners with countries such as European Union (EU) and United States of America (USA). It has been noted that the test conditions regarding temperature range for calculating Energy Efficiency for these countries are found to be different based on its weather and climatic conditions.

Further, it is also noted that the annual operating hours for each country is different. In view of the above, the harmonisation process of energy efficiency standards for Room Air Conditioner in India with EU and USA could not be taken further.

However, BEE has raised energy efficiency level for appliances over the years.

ANNEXURE-I**ANNEXURE REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 23 ANSWERED IN THE LOK SABHA ON 02.02.2023**

The details of electricity generation through various sources of energy in the country during the last year & current year 2022-23 (upto December, 2022).

Category	Fuel	Monitored Capacity as on 31.12.2022 MW	Generation (MU)	
			2021-22	2022-23 (up to December, 2022)
THERMAL	COAL	203985.5	1041487.4	846570.89
	LIGNITE	6620	37094.04	26998.82
	NATURAL GAS	23857.63	36015.7	18384.22
	DIESEL	589.2	117.24	134.9
	HIGH SPEED DIESEL	255	0	0
	NAPHTHA	701.58		0.83
THERMAL TOTAL		236008.91	1114714.38	892089.66
NUCLEAR		6780	47112.06	33920.02
HYDRO(LARGE)	HYDRO	46850.17	151627.33	137903.61
IMPORT FROM BHUTAN	HYDRO		7493.2	6653.2
TOTAL (Thermal, Nuclear, Large Hydro & Import) "A"		289639.08	1320946.97	1070566.49
Renewable (Excl. large Hydro) "B"		120848.3	170912.3	153052.71
Grand Total (A+B)		410487.38	1491859.27	1223619.20

**ANNEXURE REFERRED TO IN REPLY TO PART (b) OF UNSTARRED QUESTION NO. 23
ANSWERED IN THE LOK SABHA ON 02.02.2023**

The details of Region-wise and State-wise electricity production from renewable sources & its share of production during the last year& current year 2022-23 (upto December, 2022).

Region	State	Generation(MU)	% of Share	Generation(MU)	% of Share
		2022-23 (upto December, 2022)		2021-22	
Northern Region (NR)	Chandigarh	9.03	0.00	14.19	0.00
	DELHI	382.91	0.13	458.733451	0.14
	HARYANA	1113.53	0.37	1135.41922	0.34
	HIMACHAL PRADESH	37093.49	12.46	38503.3969	11.67
	JAMMU AND KASHMIR	14760.23	4.96	17489.8314	5.30
	LADAKH	359.84	0.12	405.98	0.12
	PUNJAB	6339.81	2.13	6951.884131	2.11
	RAJASTHAN	31057.32	10.44	24581.15389	7.45
	UTTAR PRADESH	5174.55	1.74	7731.61703	2.34
UTTARAKHAND	13877.82	4.66	15204.45	4.61	
NR TOTAL		110168.53	37.02	112476.66	34.08
Western Region (WR)	CHHATTISGARH	1563.99	0.53	2342.338392	0.71
	Dadra and Nagar Haveli	26.39	0.01	49.161911	0.01
	Daman & Diu	0.00	0.00	47.668342	0.01
	GOA	14.15	0.00	16.822	0.01
	GUJARAT	27469.45	9.23	27461.03868	8.32
	MADHYA PRADESH	12738.21	4.28	13403.4538	4.06
	MAHARASHTRA	17120.85	5.75	21853.0172	6.62
WR TOTAL		58933.04	19.80	65173.50	19.75
Southern Region (SR)	ANDHRA PRADESH	15846.04	5.32	18776.43615	5.69
	KARNATAKA	31861.90	10.71	42570.73521	12.90
	KERALA	8078.00	2.71	10932.064	3.31
	Lakshadweep	0.08	0.00	0.303539	0.00
	PUDUCHERRY	9.18	0.00	12.24	0.00
	TAMIL NADU	27222.61	9.15	29273.35457	8.87
TELANGANA	10898.90	3.66	12972.5212	3.93	
SR TOTAL		93916.72	31.56	114537.65	34.70
Eastern Region (ER)	ANDAMAN NICOBAR	29.52	0.01	34.770515	0.01
	BIHAR	172.46	0.06	239.8317165	0.07
	JHARKHAND	296.36	0.10	576.665427	0.17
	ODISHA	5377.92	1.81	6311.733649	1.91
	SIKKIM	10868.13	3.65	11506.25496	3.49
WEST BENGAL	4368.65	1.47	5034.929042	1.53	
ER TOTAL		21113.04	7.09	23704.19	7.18
North Eastern Region (NER)	ARUNACHAL PRADESH	4308.87	1.45	4163.41	1.26
	ASSAM	639.79	0.21	798.343799	0.24
	MANIPUR	452.73	0.15	462.202	0.14
	MEGHALAYA	948.15	0.32	886.4969752	0.27
	MIZORAM	203.98	0.07	165.5339456	0.05
	NAGALAND	266.53	0.09	164.0245	0.05
TRIPURA	4.95	0.00	7.619388478	0.00	
NER TOTAL		6825.00	2.29	6647.63	2.01
TOTAL		290956.34	97.76	322539.63	97.73
IMPORT	Bhutan (IMP)	6653.20	2.24	7493.2	2.27
GRAND TOTAL		297609.54	100.00	330032.83	100.0

ANNEXURE-III**ANNEXURE REFERRED TO IN REPLY TO PARTS (c) & (d) OF UNSTARRED QUESTION NO. 23 ANSWERED IN THE LOK SABHA ON 02.02.2023**

The details of net export/ import of electricity by Indian entities during last three years & current year 2022-23 (upto December, 2022).

	Bhutan	Nepal	Bangladesh	Myanmar
Year 2022-23 (April, 2022 to December, 2022)	6571.21 MU Import	785.64 MU Import	6577.4 MU Export	7.58 MU Export
Year 2021-22	7596.71 MU Import	1921.09 MU Export	7301.74 MU Export	8.8 MU Export
Year 2020-21	9318.17 MU Import	1865.05 MU Export	7551.99 MU Export	9.24 MU Export
Year 2019-20	6310.73 MU Import	2373.06 MU Export	6987.94 MU Export	8.61 MU Export

**GOVERNMENT OF INDIA
MINISTRY OF POWER
LOK SABHA
UNSTARRED QUESTION NO.29
ANSWERED ON 02.02.2023**

GRAM UJALA PROGRAMME

**29. SHRI BRIJBHUSHAN SHARAN SINGH:
SHRI RAMAPATI RAM TRIPATHI:
SHRI SANGAM LAL GUPTA:
SHRI P.P. CHAUDHARY:
SHRI PRATAP CHANDRA SARANGI:**

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

- (a) whether the Gram Ujala Programme is still functional and if so, the details thereof;
- (b) the details of the total number of villages in Uttar Pradesh, Rajasthan and Odisha where old bulbs have been replaced with the LED bulbs under the said scheme;
- (c) whether the scheme is functional in Gonda-Bahraich, Deoria, Pratapgarh of Uttar Pradesh, Pali of Rajasthan and Balasore of Odisha; and
- (d) if so, the details of LED bulbs replaced in the said districts of the above said States?

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a): Gram Ujala Scheme has been implemented by Convergence Energy Services Limited (CESL). Under the scheme, 1 crore LED bulbs have been distributed in rural areas of Bihar, Uttar Pradesh, Andhra Pradesh, Karnataka, and Telangana (5 states) as a Pilot Project. The distribution under the pilot of Gram Ujala has been completed.

(b) to (d): The Gram Ujala programme pilot was not implemented in the States of Rajasthan and Odisha. In the State of Uttar Pradesh, approximately 50,343 number of villages were covered under the programme. The details of LED bulbs distribution in the Gonda, Bahraich, Deoria and Pratapgarh districts of Uttar Pradesh are as follows:

Sl. No.	State	District	No. of LED distributed		Total
			7W	12W	
1.	Uttar Pradesh	Gonda	15918	57152	73070
2.	Uttar Pradesh	Bahraich	32926	21367	54293
3.	Uttar Pradesh	Deoria	30800	171948	202748
4.	Uttar Pradesh	Pratapgarh	36746	92809	129555

**GOVERNMENT OF INDIA
MINISTRY OF POWER
LOK SABHA
UNSTARRED QUESTION NO.30
ANSWERED ON 02.02.2023**

HYDRO POWER PROJECTS

**30. SHRI VINOD KUMAR SONKAR:
DR. SUKANTA MAJUMDAR:
SHRI RAJVEER SINGH (RAJU BHAIYA):
SHRI BHOLA SINGH:**

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

- (a) the details of hydro power projects constructed/under construction along with their installed capacity, State/UT-wise including West Bengal and Uttar Pradesh;**
- (b) the details of the hydro power projects in operation and the quantum of hydro power generated by each of the project during the last three years and the current year, State/UT-wise;**
- (c) the reasons for under utilisation of the installed capacity and the steps being taken by the Government to improve the efficiency of hydro power projects for generation of power as per their installed capacity;**
- (d) whether the Government proposes to revive the stalled hydro power projects in order to increase the renewable power generation across the country and if so, the details thereof; and**
- (e) the other steps taken by the Government for completion of hydro power projects in a time bound manner in the country?**

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) & (b) : As on 31.12.2022, a total of 211 no. of Hydro Electric Projects (HEPs) (above 25 MW) aggregating to an Installed capacity of 46850.15 MW were in operation in the country including West Bengal and Uttar Pradesh. The details of the HEPs and the quantum of power generated by each of the project during the last three years and the current year, State/UT-wise, is enclosed at Annexure-I.

Further, 39 HEPs (above 25 MW) aggregating to 14623.5 MW are under implementation in the country. Out of these, 30 HEPs aggregating to 13387.5 MW are under active construction and likely to be commissioned by the year 2026-27 and 9 HEPs aggregating to 1236 MW are presently stalled. The list of these HEPs is enclosed at Annexure-II.

(c) : During the last 3 years, the actual generation from HEPs has been more than the targeted generation. The generation during the year 2019-20, 2020-21 and 2021-22 was 113.76%, 107.08% and 101.39% of the target.

However, low rainfall or glacial melt in the catchment area of the river can affect the overall generation from the HEPs, which is beyond the control of the generating company.

(d) : As on 31.12.2022, 9 nos. of HEPs totalling to 1236 MW are stalled. The steps taken by developer/Government and present status for revival of these projects are enclosed at Annexure-III.

Further, in order to fast-track the development of HEPs in North Eastern Region, a basin-wise indication of projects has been undertaken to CPSUs to facilitate integrated basin-wise development.

(e) : The following steps have been taken to ensure that HEPs are completed in a time bound manner:-

- I. Notification of a “Dispute Avoidance Mechanism” through “Independent Engineer (IE)” and “Dispute Resolution Mechanism” through “Conciliation Committee of Independent Experts (CCIE)” to expeditiously and effectively address contractual disputes.**
- II. Ministry of Power, Government of India has notified guidelines dated 08.11.2019 to reduce the incidence of time and cost over-run in Hydro Power Projects by adopting various measures like preparation of realistic project schedule based on past experience of projects in vicinity, use of latest Software tools like Primavera, MS-Project etc. for monitoring of projects on regular basis, seeking prior approval of competent authority if the project is not likely to be commissioned within the prescribed time limit.**
- III. Development of an IT based monitoring system at national level to monitor the progress of under construction HEPs.**
- IV. Regular site visits and interaction with the developers & other stake holders by the Ministry of Power and Central Electricity Authority to monitor the progress of under-construction projects and facilitate faster resolution of inter-ministerial and other outstanding issues.**
- V. Incorporation of project Implementation parameters / milestones in the annual MoU signed between respective CPSUs and MoP and monitoring of the same during the Quarterly Performance Review (QPR) meetings of CPSUs.**

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 30 ANSWERED IN THE LOK SABHA ON 02.02.2023

The details of the hydro power projects (ABOVE 25 MW) and the quantum of hydro power generated by each of the project during the last three years and the current year					
REGION/ UTILITY/ STATION	INSTALLED CAPACITY AS ON 31.12.2022 (MW)	2019-20	2020-21	2021-22	2022-23 (as on 31.12.2022)
NORTHERN REGION					
HIMACHAL PRADESH					
CENTRAL SECTOR					
BBMB					
Bhakra L&R	1397.00	6129.17	5435.99	4357.67	4027.10
Dehar	990.00	3390.61	2993.31	3109.73	2732.45
Pong	396.00	1411.17	1775.60	1103.65	1138.63
Total BBMB-HP	2783.00	10930.95	10204.90	8571.05	7898.18
NHPC					
Baira Siul	180.00	331.08	457.60	587.23	494.24
Chamera-I	540.00	2662.81	2264.85	1899.27	1718.52
Chamera-II	300.00	1237.01	684.60	1358.68	1205.59
Chamera-III	231.00	1056.33	995.88	1004.26	923.54
Parbati III	520.00	691.62	616.91	613.34	0
Parbati II*		0.00	0.00	0.00	619.9
Total NHPC -HP	1771.00	5978.85	5019.84	5462.78	4961.79
SJVN					
Naptha Jhakri	1500.00	7447.48	7099.00	7067.40	6512.27
Rampur	412.00	2124.05	1995.35	1981.21	1819.64
Naitwar Mori					0
Total SJVN	1912.00	9571.53	9094.35	9048.61	8331.9
NTPC					
Kol Dam	800.00	3449.67	3221.41	3120.14	2891.6
Total NTPC	800.00	3449.67	3221.41	3120.14	2891.58
Total Central-HP	7266.00	29931.00	27540.50	26202.58	24083.46
STATE SECTOR					
HPPCL					
Kashang I	65.00	189.52	12.98	209.41	142.02
Kashang II & III	130.00				
Sainj	100.00	337.90	424.78	418.83	392.71
Swara Kuddu	111.00	0.00	0.00	21.31	295.31
Total HPPCL	406.00	527.42	437.76	649.55	830.04
HPSEB LTD					
Bassi	66.00	331.52	308.98	317.35	274.99
Giri Bata	60.00	225.00	164.75	227.63	201.97
Larji	126.00	670.24	616.31	580.87	547.42
Sanjay	120.00	585.37	474.31	642.81	582.43
Total HPSEB LTD	372.00	1812.13	1564.35	1768.66	1606.81
Beas Valley Power. Corp. Ltd. (BVPC)					
Uhi-III*		0.00	0.00	0.00	0
Total BVPC		0	0.00	0.00	0
PSPCL					
Shanan	110.00	565.00	477.07	521.90	450.97
Total PSPCL-HP	110.00	565.00	477.07	521.90	450.97
Total State Sector-HP	888.00	2904.55	2479.18	2940.11	2887.82
PRIVATE					
Allain Duhangan Power Power Ltd.					
Allain Duhangan	192.00	758.71	640.53	637.44	595.12
Everest Power Private Ltd.					
Malana-II	100.00	418.09	370.47	345.66	324.06

HBPCL					
Baspa-II	300.00	1353.33	1311.17	1320.35	1266.04
Karcham Wangtoo	1045.00	4646.53	4361.44	4243.45	3964.92
Total HBPCL	1345.00	5999.86	5672.61	5563.80	5230.96
GBHPPL					
Budhil	70.00	283.58	275.95	251.37	247.83
IA Energy Pvt. Ltd.					
Chanju I	36.00	169.75	0.00	146.54	124.9
Malana Power Company Ltd.					
Malana	86.00	369.34	159.35	314.96	298.62
NSL Tidond Power Generation Pvt. Ltd.					
Tidong*		0.00	334.88	0.00	0
Himachal Sorang Power Limited (HSPL)					
Sorang	100	0.00	0.00	57.18	294.36
GMR					
Bajoli Holi	180		0.00	0.00	400.63
Total Private-HP	2109.00	7999.33	7454	7317	7516.48
Total H.P.	10263.00	40834.88	37473.47	36459.64	34487.76
JAMMU & KASHMIR					
CENTRAL SECTOR					
NHPC					
Dulhasti	390.00	2064.97	2329.62	2216.13	1946.5
Salal-I	345.00	4010.15	3632.16	3485.52	2922.19
Salal-II	345.00				
Sewa-II	120.00	647.92	376.14	62.89	368.28
Uri	480.00	3406.44	2986.37	3037.45	2217.46
Uri -II	240.00	1794.35	1626.07	1649.52	1202.27
Kishenganga	330.00	849.09	1111.49	1506.42	1295.15
Total NHPC -J&K	2250.00	12772.92	12061.85	11957.93	9951.85
Total Central Sector - J&K	2250.00	12773	12061.85	11957.93	9951.85
STATE SECTOR					
JKSPDC					
Baglihar	450.00	2579.43	2657.85	2676.88	2313.12
Baglihar II	450.00	1918.18	1446.95	1561.02	1462.55
Lower Jhelum	105.00	605.75	561.23	622.96	465.51
Upper Sindh II	105.00	217.84	274.80	255.23	240.17
Total JKSPDC	1110.00	5321.20	4940.83	5116.09	4481.35
Total State Sector-J&K	1110.00	5321	4940.83	5116.09	4481.35
Total Jammu & Kashmir	3360.00	18094	17002.68	17074.02	14433.20
LADHAK					
CENTRAL SECTOR					
NHPC					
Chutak	44.00	98.12	158.57	170.54	154.75
Nimoo Bazgo	45.00	172.16	217.64	235.44	205.09
Total Central Sector-Ladhak	89.00	270.28	376.21	405.98	359.84
Total Ladhak	89.00	270.28	376.21	405.98	359.84
PUNJAB					
CENTRAL SECTOR					
BBMB					
Ganguwal	77.65	614.82	635.64	609.88	449.94
Kotla	77.65	621.46	637.46	613.89	452.68
Total BBMB-Punjab	155.30	1236.28	1273.10	1223.77	902.62
STATE SECTOR					
PSPCL					
A.P.Sahib I & II	134.00	603.71	573.91	396.28	425.69
Mukerian I - IV	207.00	1184.28	1401.13	926.69	867.55
Ranjit Sagar	600.00	2099.21	1498.89	1162.99	1247.62
Total PSPCL	941.00	3887.20	3473.93	2486	2541
Total State Sector-Punjab	941.00	3887	3473.93	2485.96	2540.86
Total Punjab	1096.30	5123	4747.03	3709.73	3443.48

RAJASTHAN					
STATE SECTOR					
RRVUNL					
Jawahar Sagar	99.00	315.12	257.18	210.67	211.19
Mahi Bajaj I & II	140.00	236.53	202.37	187.84	174.47
R.P. Sagar	172.00	54.53	10.08	83.33	256.87
Total RRVUNL	411.00	606.18	469.63	481.84	642.53
Total State sector-Rajasthan	411.00	606	469.63	481.84	642.53
Total Rajasthan	411.00	606	469.63	481.84	642.53
UTTAR PRADESH					
STATE SECTOR					
UPJVNL					
Khara	72.00	351.03	325.46	357.57	289.45
Matatilla	30.60	73.36	116.81	87.04	93.49
Obra	99.00	190.59	338.87	311.58	99.24
Rihand	300.00	458.50	791.21	646.49	214.62
Total UPJVNL	501.60	1073.48	1572.35	1402.68	696.80
Total State Sector-UP	501.60	1073	1572.35	1402.68	696.80
Total Uttar Pradesh	501.60	1073	1572.35	1402.68	696.80
UTTARAKHAND					
CENTRAL SECTOR					
NHPC					
Dhauliganga	280.00	1325.55	1153.23	1212.42	1210.1
Tanakpur	94.20	557.81	473.15	540.21	476.4
Total NHPC-UK	374.20	1883.36	1626	1753	1687
NTPC					
Tapovan Vishnugad		0.00	0.00	0.00	0
Total NTPC-UK		0	0	0	0
THDC LTD					
Tehri	1000.00	3041.74	3040.27	3098.11	2493.79
Koteshwar	400.00	1203.19	1221.45	1190.64	964.64
Total THDC LTD	1400.00	4244.93	4261.72	4288.75	3458.43
Total Central Sector - UK	1774.20	6128	5888.10	6041.38	5144.93
STATE SECTOR					
UJVNL					
Chibro (Y.St.II)	240.00	979.66	821.63	903.86	741.82
Chilla	144.00	791.38	733.08	799.36	639.01
Dhakrani (Y.St.I)	33.75	173.80	152.66	155.64	117.78
Dhalipur (Y.St.I)	51.00	224.44	174.05	246.78	173.88
Khatima	41.40	233.24	218.80	229.75	191.54
Khodri (Y.St.II)	120.00	436.42	375.46	430.84	355.36
Kulhal (Y.St.IV)	30.00	153.79	133.39	160.08	130.98
Maneri Bhali-I	90.00	356.85	329.23	398.98	346.85
Maneri Bhali-II	304.00	1383.32	1288.89	1412.53	1176.14
Ram Ganga	198.00	154.62	260.78	249.36	255.8
Vyasi	120.00				305.64
Total UJVNL	1372.15	4887.52	4487.97	4987.18	4434.8
Total State Sector-Uttarakhand	1372.15	4888	4487.97	4987.18	4434.80
PRIVATE SECTOR					
AHPC LTD					
Srinagar	330.00	1540.01	1438.00	1421.89	1395.64
Jaiprakash Power Venture Ltd.					
Vishnu Prayag	400.00	1998.71	1778.42	1801.24	1776.26
L&T					
Singoli Bhatwari	99.00		0.00	80.44	425.9
Total Private Sector - UK	829.00	3538.72	3216	3303.57	3597.80
Total Uttarakhand	3975.35	14555	13592	14332.13	13177.53
Total N. REGION	19696.25	80556.95	75233.86	73866.02	67241.14

WESTERN REGION					
CHHATISGARH					
STATE SECTOR					
CSPGC					
Hasdeo Bango	120.00	236.79	419.19	404.13	190.27
Total CSPGC	120.00	236.79	419.19	404.13	190.27
Total State Sector-Chhattisgarh	120.00	237	419.19	404.13	190.27
Total Chhattisgarh	120.00	237	419.19	404.13	190.27
GUJARAT					
STATE SECTOR					
GSECL					
Kadana PSS	240.00	470.40	337.06	218.26	288.69
Ukai	300.00	767.27	651.06	655.24	842.48
Total GSECL	540.00	1237.67	988.12	873.50	1131.17
SSNNL					
Sardar Sarovar CHPH	250.00	933.94	1086.96	824.27	831.62
Sardar Sarovar RBPH	1200.00	3243.07	2158.28	923.74	3203.24
Total SSNNL	1450.00	4177.01	3245.24	1748.01	4034.86
Total State Sector -Gujarat	1990.00	5415	4233.36	2621.51	5166.03
Total Gujarat	1990.00	5415	4233.36	2621.51	5166.03
MADHYA PRADESH					
CENTRAL					
NHDC					
Indira Sagar	1000.00	2877.35	2793.62	1717.17	2992.75
Omkareshwar	520.00	1288.25	1442.55	928.24	1451.45
Total NHDC	1520.00	4165.60	4236.17	2645.41	4444.20
Total Central Sector-MP		4166	4236	2645	4444
STATE SECTOR					
MPPGCL					
Bansagar Tons-I	315.00	1245.33	1184.19	1121.45	526.13
Bansagar Tons-II	30.00	93.76	111.67	85.43	54.47
Bansagar Tons-III	60.00	138.90	135.63	49.86	124.46
Bargi	90.00	377.69	434.13	382.35	331.26
Gandhi Sagar	115.00	33.81	148.38	211.68	172.81
Madhikheda	60.00	140.19	118.18	116.50	139.18
Rajghat	45.00	86.46	108.98	74.04	94.95
Total MPPGPCL	715.00	2116	2241.16	2041.31	1443.26
Total State-MP	715.00	2116	2241.16	2041.31	1443.26
SMHPCL(PVT.)					
Maheshwar*		0	0.00	0.00	0
Total M.P.	2235.00	6282	6477	4687	5887
MAHARASHTRA					
STATE SECTOR					
MAHAGENCO					
Bhira Tail Race	80.00	95.25	97.33	100.97	76.1
Ghatghar PSS	250.00	136.71	155.32	93.52	67.33
Koyna DPH	36.00	153.84	165.41	132.46	109.62
Koyna St.I&II	600.00	1236.53	1226.22	1259.39	908.13
Koyna St.III	320.00	708.33	585.21	673.90	695.97
Koyna IV	1000.00	1640.97	1195.78	1573.37	885.31
Tillari	60.00	112.82	106.54	116.72	100.09
Vaitarna	60.00	73.49	42.76	128.64	110.7
Total MAHAGENCO	2406.00	4157.94	3574.57	4079	2953
MPPGPCL					
Pench	160.00	217.28	414.90	304.48	288.51
Total MPPGPCL-Maha.	160.00	217.28	414.90	304.48	288.51
Total State Sector-Maha.	2566.00	4375	3989.47	4383.45	3241.76
PRIVATE SECTOR					
Dodson-Lindblom Hydro Power Pvt. Ltd. (DLHPPL)					
Bhandardhara - II	34.00	17.09	34.29	33.94	16.34
Total DLHP	34.00	17.09	34.29	33.94	16.34
Tata Power Company Ltd.					
Bhira	150.00	351.50	358.87	397.19	317.44
Bhira PSS	150.00	489.85	585.97	627.39	442.06

Bhivpuri	75.00	336.54	299.70	272.27	235.25
Khopoli	72.00	310.38	280.16	293.14	235.65
Total TPCL	447.00	1488.27	1524.70	1589.99	1230.40
Total Private Sector- Maharashtra	481.00	1505	1558.99	1623.93	1246.74
Total Maharashtra	3047.00	5881	5548.46	6007.38	4488.50
Total Western	7392.00	17814	16678	13720	15732.26
SOUTHERN REGION					
ANDHRA PRADESH					
STATE SECTOR					
APGENCO					
N.J.Sagar TPD	50.00	78.19	54.69	137.59	85.45
N.J.Sagar RBC	90.00	102.83	155.55	279.08	217.02
Srisaillam RB	770.00	1339.43	1157.26	1438.92	1778.73
Upper sileru I & II	240.00	641.12	620.05	362.01	251.42
Lower Sileru	460.00	851.86	1292.57	896.23	795.68
Total APGENCO	1610.00	3013.43	3280.12	3113.83	3128.30
Total State Sector-AP	1610.00	3013	3280.12	3113.83	3128.30
Total Andhra Pradesh	1610.00	3013	3280.12	3113.83	3128.30
KARNATAKA					
STATE SECTOR					
KPCL					
Almatti Dam	290.00	632.46	643.69	499.58	559.46
Bhadra	26.00	74.73	56.73	72.30	73.96
Gerusoppa	240.00	575.34	480.56	543.26	428.26
Ghatprabha	32.00	50.64	110.12	94.97	58.87
Jog	139.20	298.23	373.80	554.33	433.85
Kadra	150.00	475.50	410.34	402.14	313.02
Kalinadi	900.00	3666.11	3147.22	3686.96	2237.08
Supa DPH	100.00	584.15	443.53	609.78	246.69
Kodasali	120.00	473.62	382.99	425.56	289.33
Lingnamakki	55.00	298.58	255.53	277.88	185.06
Munirabad	28.00	79.69	102.10	132.06	90.69
Sharavathy	1035.00	5136.46	4582.71	4994.34	3813.24
Shivasamudram	42.00	259.98	321.13	301.01	232.79
Varahi	460.00	1183.64	1093.14	1137.31	923.75
Total KPCL	3617.20	13789.13	12403.59	13731.48	9886.05
APGENCO					
T.B.Dam & Hampi	72.00	225.14	183.76	204.98	138.66
Total APGENCO-Karnataka	72.00	225.14	183.76	204.98	138.66
Total State Sector-Karnataka	3689.20	14014.27	12587.35	13936.46	10024.71
Total Karnataka	3689.20	14014.27	12587.35	13936.46	10024.71
KERALA					
STATE SECTOR					
KSEB Ltd.					
Idamalayar	75.00	260.64	289.99	377.02	323.58
Idukki	780.00	1830.42	2530.15	3709.85	2573.29
Kakkad	50.00	176.25	184.86	272.56	199.66
Kuttiadi & Kuttiady Addl.	225.00	591.42	748.06	746.70	679.67
Lower Periyar	180.00	426.99	537.99	811.91	645.36
Neriamangalam	52.65	314.66	284.74	312.39	218.52
Pallivasal	37.50	141.95	134.27	162.33	116.23
Panniar	30.00	136.70	181.26	210.66	162.89
Poringalkuthu	32.00	95.32	153.46	220.41	144.47
Sabarigiri	300.00	1112.58	1227.64	2047.45	1244.26
Sengulam	48.00	150.71	117.53	183.64	126.55
Sholayar	54.00	216.40	238.44	262.52	154.54
Total KSEB LTD.	1864.15	5454.04	6628.39	9317.44	6589.02
Total State Sector-Kerala	1864.15	5454.04	6628.39	9317.44	6589.02
Total Kerala	1864.15	5454.04	6628.39	9317.44	6589.02

TAMIL NADU					
STATE SECTOR					
TANGEDCO					
Aliyar	60.00	72.91	119.21	22.64	138.55
Bhawani K Barrage-III	30.00	35.87	60.95	63.50	54.28
Bhawani K Barrage-II	30.00	56.99	81.23	78.73	89.85
Bhawani K Barrage-I	30.00	63.38	101.70	76.07	95.83
Kadamparai PSS	400.00	369.63	353.71	265.63	164.65
Kodayar I&II	100.00	175.13	293.26	246.35	268.01
Kundah I-V	555.00	1559.22	1721.44	1652.80	1250.49
Lower Mettur I-IV	120.00	245.18	290.49	291.10	293.94
Mettur Dam	50.00	145.61	133.80	135.34	191.16
Mettur Tunnel	200.00	372.03	337.16	392.49	739.05
Moyar	36.00	127.60	112.23	104.47	99.14
Papanasam	32.00	106.63	131.83	163.37	98.12
Parson's Valley	30.00	19.15	50.88	41.13	44.66
Periyar	161.00	502.06	548.03	779.16	508.67
Pykara	59.20	17.90	0.04	0.12	27.66
Pykara Ultimate	150.00	372.12	337.94	322.37	359.15
Sarkarpathy	30.00	117.94	137.29	143.41	73.76
Sholayar I	70.00	290.39	290.42	400.15	249.85
Suruliyar	35.00	115.50	111.10	33.24	0
Total TANGEDCO	2178.20	4765.24	5212.71	5212.07	4746.82
Total State Sector-TN	2178.20	4765.24	5212.71	5212.07	4746.82
Total Tamilnadu	2178.20	4765.24	5212.71	5212.07	4746.82
TELANGANA					
STATE SECTOR					
TSGENCO					
Lower Jurala	240.00	318.39	403.31	369.90	430.99
N.J.Sagar PSS	815.60	1512.73	1248.73	2262.45	2162.42
N.J.Sagar LBC	60.00	102.86	101.21	148.30	108.06
Pochampad	36.00	48.61	91.02	110.79	107.01
Priyadarshni Jurala	234.00	321.74	368.29	343.95	452.87
Pulichinthala	120.00	209.67	201.38	315.16	276.46
Srisailem LB	900.00	1993.04	1231.44	2076.08	2052.29
Total TSGENCO	2405.60	4507.04	3645.38	5626.63	5590.10
Total State Sector-Telangana	2405.60	4507.04	3645.38	5626.63	5590.10
Total Telangana	2405.60	4507.04	3645.38	5626.63	5590.10
Total Southern	11747.15	31754.02	31353.95	37206.43	30078.95
EASTERN REGION					
JHARKHAND					
CENTRAL SECTOR					
DVC					
Panchet	80.00	114.84	173.09	245.47	122.54
Total DVC	80.00	114.84	173.09	245.47	122.54
Total Central Sector-Jharkhand	80.00	114.84	173.09	245.47	122.54
STATE SECTOR					
JUUNL					
Subernarekha I&II	130.00	36.12	50.00	302.49	158.53
Total Jharkhand	130.00	36.12	50.00	302	159
Total State Sector-Jharkhand	130.00	36.12	50.00	302	159
Total Jharkhand	210.00	150.96	223.09	548	281
ODISHA					
STATE SECTOR					
OHPC					
Balimela	510.00	1521.41	1656.07	1062.04	1171.42
Hirakud I&II	359.80	790.02	952.93	975.84	844.04
Rengali	250.00	665.17	1014.76	866.39	660.18
Upper Indravati	600.00	2253.48	1757.33	1156.65	1051.08
Upper Kolab	320.00	829.12	812.82	451.20	317.25
Total OHPC	2039.80	6059.20	6193.91	4512.12	4043.97

APGENCO					
Machkund	114.75	669.57	666.06	718.51	420.63
Total APGENCO-Odisha	114.75	669.57	666.06	718.51	420.63
Total State Sector-Odisha	2154.55	6728.77	6859.97	5230.63	4464.60
Total Odisha	2154.55	6728.77	6859.97	5230.63	4464.60
SIKKIM					
CENTRAL SECTOR					
NHPC					
Rangit	60.00	354.78	288.70	337.70	314.29
Teesta-V	510.00	2831.97	2829.83	2671.82	2606.9
Total NHPC	570.00	3186.75	3118.53	3009.52	2921.19
Total Central Sector-Sikkim	570.00	3186.75	3118.53	3009.52	2921.19
STATE SECTOR					
Teesta Urja Ltd. (TUL)					
Teesta III	1200.00	6041.55	6043.98	6315.53	5702.48
Total TUL	1200.00	6041.55	6043.98	6315.53	5702.48
Total State Sector-Sikkim	1200.00	6041.55	6043.98	6315.53	5702.48
PRIVATE SECTOR					
DANS Energy Pvt. Ltd. (DEPL)					
Jorethang Loop	96.00	406.90	399.92	424.69	406.74
Shiga Energy Pvt. Ltd.(SEPL)					
Tashiding	97.00	434.91	369.75	453.07	425.33
Gati Infrastructure Pvt. Ltd. (GIPL)					
Chuzachen HEP	110.00	472.06	488.37	514.21	482.97
Sneha Kinetic					
Dikchu	96.00	485.19	458.95	481.45	507.08
MBPC					
Rongnichu	113.00		0.00	295.43	413.07
Total Private-Sikkim	512.00	1799.06	1717	2169	2235
Total Sikkim	2282.00	11027.36	10879.50	11493.90	10858.86
WEST BENGAL					
CENTRAL SECTOR					
NHPC					
Teesta Low Dam-III	132.00	581.82	541.28	601.51	570.94
Teesta Low Dam-IV	160.00	739.18	718.98	736.77	702.1
Total NHPC	292.00	1321.00	1260.26	1338.28	1273.04
DVC					
Maithon	63.20	83.63	192.38	221.42	85.1
Total DVC-WB	63.20	83.63	192.38	221.42	85.10
Total Central Sector-WB	355.20	1404.63	1452.64	1559.70	1358.14
STATE SECTOR					
WBSSEDCL					
Jaldhaka I	36.00	188.97	201.48	178.11	160.79
Purulia PSS	900.00	1075.47	1303.44	1183.71	1123.15
Rammam II	50.00	247.31	254.72	268.32	219.21
Total WBSSEDCL	986.00	1511.75	1759.64	1630.14	1503.15
Total State Sector -WB	986.00	1511.75	1759.64	1630.14	1503.15
Total West Bengal	1341.20	2916.38	3212.28	3189.84	2861.29
Total Eastern	5987.75	20823.47	21174.84	20462.33	18465.82
NORTH EASTERN REGION					
ARUNACHAL PRADESH					
CENTRAL SECTOR					
NHPC					
Lower Subansiri					
Total NHPC-Ar. Pradesh					
NEEPCO					
Ranganadi	405.00	1289.45	1399.27	1154.33	1242.45
Pare	110.00	471.52	522.32	430.57	483.62
Kameng	600.00	25.49	1529.75	2576.38	2558.7
Total NEEPCO-Arunachal Pradesh	1115.00	1786.46	3451	4161	4285
Total Central Sector-Arunachal Pradesh			3451.34	4161.28	4284.77
Total Arunachal Pradesh	1115.00	1786.46	3451.34	4161.28	4284.77

ASSAM					
CENTRAL SECTOR					
NEEPCO					
Kopili	200.00	190.48	0.00	0.00	0
Khandong	50.00	716.90	67.84	275.12	0
Total NEEPCO-Aassm	250.00	907.38	67.84	275.12	0.00
Total Central Sector-Assam	250.00	907.38	67.84	275.12	0.00
STATE SECTOR					
APGCL					
Karbi Langpi	100.00	384.30	203.03	401.12	435.53
Total APGCL	100.00	384.30	203.03	401.12	435.53
Total State Sector-Assam	100.00	384.30	203.03	401.12	435.53
Total Assam	350.00	1291.68	270.87	676.24	435.53
NAGALAND					
CENTRAL SECTOR					
NEEPCO					
Doyang	75.00	180.85	203.86	100.55	164.46
Total NEEPCO-Nagaland	75.00	180.85	203.86	100.55	164.46
Total Central Sector-Nagaland	75.00	180.85	203.86	100.55	164.46
Total Nagaland	75.00	180.85	203.86	100.55	164.46
MANIPUR					
CENTRAL SECTOR					
NHPC					
Loktak (Manipur)	105.00	366.59	621.62	455.48	446.43
Total NHPC-Manipur	105.00	366.59	621.62	455.48	446.43
Total Central Sector-Manipur	105.00	366.59	621.62	455.48	446.43
Total Manipur	105.00	366.59	621.62	455.48	446.43
MEGHALAYA					
STATE SECTOR					
MePGCL					
Kyrdemkulai	60.00	141.95	163.72	110.21	109.38
Myntdu	126.00	421.67	420.62	380.37	350.46
New Umtru	40.00	181.50	229.79	160.81	173.51
Umium St.I	36.00	108.33	149.54	64.91	100.78
Umium St.IV	60.00	164.84	188.32	125.52	153.62
Total MePGCL	322.00	1018.29	1151.99	841.82	887.75
Total State Sector-Meghalaya	322.00	1018.29	1151.99	841.82	887.75
Total Meghalaya	322.00	1018.29	1151.99	841.82	887.75
MIZORAM					
CENTRAL SECTOR					
Tuirial	60.00	177.02	158.85	137.44	166.49
Total NEEPCO-Mizoram	60.00	177.02	158.85	137.44	166.49
Total Central Sector-Mizoram	60.00	177.02	158.85	137.44	166.49
Total Mizoram	60.00	177.02	158.85	137.44	166.49
Total N.Eastern	2027.00	4820.89	5858.53	6372.81	6385.43
Total All India	46850.15	155769	150300	151627	137903.6
Total number of HE Stations are 211 as NJ Sagar HE Station (Southern Region) is having one Conventional unit and remaining seven units are PSS.					

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 30 ANSWERED IN THE LOK SABHA ON 02.02.2023

List of Hydro Electric Projects (above 25 MW) under implementation (As on 26.01.2023)				
Sl. No.	Name of Scheme (Executing Agency)	Sector	I.C. (No. X MW)	Cap. Under Execution(MW)
Andhra Pradesh				
1	Polavaram (APGENCO/ Irrigation Dept., A.P.)	State	12x80	960.00
2	Pinnapuram (Greenko AP01 IREP Private Limited)	Private	4x240 + 2x120	1200.00
Sub-total: Andhra Pradesh				2160.00
Arunachal Pradesh				
3	Subansiri Lower (NHPC)	Central	8x250	2000.00
Sub-total: Arunachal Pradesh				2000.00
Assam				
4	Lower Kopli (APGCL)	State	2x55+2x2.5+1x5	120.00
Sub-total: Assam				120.00
Himachal Pradesh				
5	Parbati St. II (NHPC)	Central	4x200	800.00
6	Luhri-I (SJVN)	Central	2x80+2x25	210.00
7	Dhauilasidh (SJVN)	Central	2x33	66.00
8	Sunni Dam (SJVN)	Central	4x73+1x73+1x17	382.00
9	Uhi-III (BVPCL)	State	3x33.33	100.00
10	Shongtong Karcham (HPPCL)	State	3x150	450.00
11	Chanju-III (HPPCL)	State	3x16	48.00
12	Tidong-I (Statkraft IPL)	Private	3x50	150.00
13	Kutehr (JSW Energy Ltd)	Private	3x80	240.00
14*	Tangnu Romai (TRPG)	Private	2x22	44.00
Sub-total: Himachal Pradesh				2490.00
Jammu & Kashmir				
15	Pakal Dul (CVPPPL)	Central	4x250	1000.00
16	Kiru (CVPPPL)	Central	4x156	624.00
17	Ratle (RHEPPL / NHPC)	Central	4x205 + 1x30	850.00
18	Kwar (CVPPPL)	Central	4x135	540
19	Parnai (JKSPDC)	State	3x12.5	37.50
20*	Lower Kalnai (JKSPDC)	State	2x24	48.00
Sub-total: Jammu & Kashmir				3099.50
Kerala				
21	Pallivasal (KSEB)	State	2x30	60.00
22	Thottiyar (KSEB)	State	1x30+1x10	40.00
23	Mankulam (KSEB)	State	2x20	40.00
Sub-total: Kerala				140.00
Madhya Pradesh				
24*	Maheshwar (SMHPCL)	Private	10x40	400.00
Sub-total: Madhya Pradesh				400.00
Maharashtra				
25*	Koyna Left Bank (WRD,MAH)	State	2x40	80.00
Sub-total: Maharashtra				80.00

	Punjab			
26	Shahpurkandi (PSPCL/ Irrigation Deptt., Pb.)	State	3x33+3x33+1x8	206.00
	Sub-total: Punjab			206.00
	Sikkim			
27	Teesta St. VI NHPC	Central	4x125	500.00
28	Rangit-IV (NHPC)	Central	3x40	120.00
29*	Bhasmey (Gati Infrastructure)	Private	2x25.5	51.00
30*	Rangit-II (Sikkim Hydro)	Private	2x33	66.00
31*	Panan (Himagiri)	Private	4x75	300.00
	Sub-total: Sikkim			1037.00
	Tamil Nadu			
32	Kundah Pumped Storage Phase-I,II&III)	State	4x125	500.00
	Sub-total: Tamil Nadu			500.00
	Uttarakhand			
33	Vishnugad Pipalkoti (THDC)	Central	4x111	444.00
34	Naitwar Mori (SJVNL)	Central	2x30	60.00
35	Tapovan Vishnugad (NTPC)	Central	4x130	520.00
36	Tehri PSS (THDC)	Central	4x250	1000.00
37*	Lata Tapovan (NTPC)	Central	3x57	171.00
38*	Phata Byung (LANCO)	Private	2x38	76.00
	Sub-total: Uttarakhand			2271.00
	West Bengal			
39	Rammam-III (NTPC)	Central	3x40	120.00
	Sub-total: West Bengal			120.00
	Total:			14623.50
*Project is presently stalled, commissioning subject to re-start of works				

ANNEXURE REFERRED TO IN REPLY TO PART (d) OF UNSTARRED QUESTION NO. 30 ANSWERED IN THE LOK SABHA ON 02.02.2023

List of Hydro Electric Projects (above 25 MW) held-up

Sl. No.	Name of Scheme (Executing Agency)	I.C. (No. X MW)	Cap. Under Execution (MW)	Present Status& steps taken to restart works
Himachal Pradesh				
1	Tangnu Romai (TRPG)	2x22	44.00	Works on hold since Aug 2016 due to fund constraints with the developer. Project is likely to be commissioned 4 years after restart of works.
Sub-total: Himachal Pradesh			44.00	
UT of Jammu & Kashmir				
2	Lower Kalnai (JKSPDC)	2x24	48.00	Works on all fronts at Dam and Power House site are stalled since the contract has been terminated by JK Govt. order no. 115-PDD of 2019 dated 08.06.2019. The Balance Work stands tendered out by JKSPDC in EPC mode vide E-NIT on 24.03.2022. Project is likely to be commissioned 4 years after restart of works.
Sub-total: UT of Jammu & Kashmir			48.00	
Madhya Pradesh				
3	Maheshwar (SMHPCL)	10x40	400.00	Works suspended since Nov-11 due to cash flow problem with developer. M.P. Power Management Company Ltd. has terminated the Power Purchase Agreement with SMHPCL on 18.04.2020. The application of PFC has been admitted in NCLT on 27.09.2022 under IBC. Project is likely to be commissioned 2 years after restart of works.
Sub-total: Madhya Pradesh			400.00	
Maharashtra				
4	Koyna Left Bank (WRD,MAH)	2x40	80.00	Project stalled since July, 2015. The current expenditure on the project has already reached to almost original administrative approved cost level. The proposal for execution with various options (By WRD/ Through BOT/ By MSPGCL in collaboration with WRD) is under process. Project is likely to be commissioned 4 years after restart of works
Sub-total: Maharashtra			80.00	
Sikkim				
5	Bhasmey (Gati Infrastructure)	2x25.5	51.00	Works stalled since Sept., 2016 due to funds constraints. Project is likely to be commissioned 4 years after restart of works.
6	Rangit-II (Sikkim Hydro)	2x33	66.00	Works stalled since Dec., 2017 due to funds constraints. Project is in NCLT since 30.07.2020. Project is likely to be commissioned 3 years after restart of works
7	Panan (Himagiri)	4x75	300.00	The permanent bridge over Mantam Lake for accessibility to Dam site is being constructed by SPWD. Project is likely to be commissioned 5 years after restart of works.
Sub-total: Sikkim			417.00	

Uttarakhand				
8	Lata Tapovan (NTPC)	3x57	171.00	Infrastructure works almost completed. Hon'ble SC stayed construction of 24 HE projects in Uttarakhand including Lata Tapovan. Project is likely to be commissioned 4 years after restart of works.
9	Phata Byung (LANCO)	2x38	76.00	Works stalled since July, 2017 due to Financial crunch. Company undergoing corporate insolvency resolution process initiated under IBC for resolution and revival of the project since June 2020. Resolution Plan is under approval by the National Company Law Tribunal. Project is likely to be commissioned 2 years after restart of works.
	Sub-total: Uttarakhand		247.00	
	Total:		1236.00	

**GOVERNMENT OF INDIA
MINISTRY OF POWER
LOK SABHA
UNSTARRED QUESTION NO.91
ANSWERED ON 02.02.2023**

SAUBHAGYA YOJANA

†91. SHRI HANUMAN BENIWAL:

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

- (a) whether the Government of Rajasthan has sought approval of the works done under the Saubhagya Yojana by extending the period of completion of work under the said scheme;
- (b) if so, the details of the action taken by the Government till now;
- (c) whether the Government proposes to provide relief by extending the completion period of the said scheme till the end of this year keeping in view the geographical conditions of Rajasthan; and
- (d) if so, the time line for the same and if not, the reasons therefor?

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) to (d) : This Ministry had received a letter dated 3rd March, 2022 from Government of Rajasthan, wherein it was requested to extend the SAUBHAGYA Scheme till 31.12.2022.

The Government of India launched Pradhan Mantri Sahaj Bijli Har Ghar Yojana – Saubhagya in October, 2017 with the objective of achieving universal household electrification, by providing electricity connections to all unelectrified households in rural areas and all poor households in urban areas in the country. Under the aegis of Saubhagya, as on 31.03.2019, all households were reported electrified by the States, except 18,734 households in Left Wing Extremists (LWE) affected areas of Chhattisgarh. Subsequently, seven States namely Assam, Chhattisgarh, Jharkhand, Karnataka, Manipur, Rajasthan and Uttar Pradesh reported that around 19.09 lakh un-electrified households, identified before 31.03.2019, which were unwilling earlier but later expressed willingness to get electricity connection. This was also sanctioned. All these seven States had reported 100% households' electrification as on 31.03.2021. A total of 2.817 crore households were electrified since the launch of Saubhagya, up to 31.03.2021. Thereafter, some States had reported that 11.84 lakh households remained

to be electrified, against which States reported that 4.43 lakh households have been electrified. A total of 2.86 crore households were electrified under the aegis of Saubhagya including additional households in two tranches that were unwilling for electrification earlier but became willing later. The scheme stands closed as on 31.03.2022.

While fresh arising of new households is a continuous process and electrification of such households is expected to be taken care of by the Distribution Utilities, the Government of India stands committed to help the States to electrify all the households which existed when Saubhagya was sanctioned. In this respect, the Government of India recently issued guidelines for their electrification under the Revamped Distribution Sector Scheme (RDSS) and the States have been advised to pose their DPRs to the Ministry of Power in this regard.

**GOVERNMENT OF INDIA
MINISTRY OF POWER
LOK SABHA
UNSTARRED QUESTION NO.113
ANSWERED ON 02.02.2023**

IMPROVEMENT IN GENERATION AND DISTRIBUTION OF POWER

†113. SHRI KUNWAR PUSHPENDRA SINGH CHANDEL:

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

- (a) whether the Government has taken any special initiative to bring reasonable improvement in generation and distribution of power;**
- (b) if so, the details thereof;**
- (c) whether the Government has also made any joint efforts to settle the bill payments of the State Governments; and**
- (d) if so, the details thereof?**

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) to (b) : Yes, Sir. The following steps have been taken by the Government to bring improvement in generation and distribution of power:

- (i) From 2014 till 31.12.2022, 175 GW of power generation capacity has been added.**
- (ii) 173459 ckt kms of transmission lines has been added to our grid, connecting the whole country into on grid capacity of transferring 112 GW power from one corner of country to another.**
- (iii) Under DDUGJY/Saubhagya/IPDS the Distribution system has been strengthened at a cost of Rs. 2.02 Lakh Crore-adding 2927 new substations, upgrading 3964 substations and adding 8.48 lakh ckt km of HT/LT lines etc.**
- (iv) 100% FDI through automatic route is allowed for projects of power generation (except atomic energy), transmission, distribution and trading.**
- (v) Notification of Revised Tariff Policy on 28.01.2016 with various provisions to encourage private sector participation in generation as well as in transmission.**
- (vi) Notification of Late Payment Surcharge Rules to bring back financial viability of the power sector in the country and thereby attract investments. The Rules have not only ensured that the outstanding dues are liquidated but have also ensured that the current dues are paid in time.**

(vii) In order to promote generation from renewable sources of energy and attract investments in this sector, Inter State Transmission System (ISTS) charges for transmission of the electricity generated from solar and wind sources have been waived for projects to be commissioned by 30.06.2025. Further, ISTS charges on transmission of electricity generated from new hydro projects waived for 18 years from the date of commissioning.

(viii) Green Open Access Rules, 2022 have been notified on 06.06.22 for promoting generation, purchase and consumption of green energy.

(ix) Setting up of Ultra Mega Renewable Energy Parks to provide land and transmission to Renewable Energy (RE) developers for installation of RE projects at large scale.

(x) With the objective of improving the quality and reliability of power supply to consumers through a financially sustainable and operationally efficient Distribution Sector in the country Government of India has launched Revamped Distribution Sector Scheme (RDSS) in July 2021. The scheme aims to reduce the Aggregate Technical & Commercial losses (AT&C) to pan-India levels of 12-15% and Average Cost of Supply-Average Realizable Revenue (ACS-ARR) gap to zero by 2024-25. The scheme has an outlay of Rs.3,03,758 crore and an estimated Gross Budgetary Support (GBS) of Rs.97,631 crore from the Central Government.

(xi) These measures have contributed to the present status wherein power availability has gone upto 22½ hrs on average in rural areas and 23½ hrs in urban areas.

(c) to (d) : Government of India promulgated Electricity (Late Payment Surcharge and Related Matters) Rules, 2022 in order to ensure discipline in the power sector value chain. These rules entail obligations upon the DISCOMs to clear their legacy dues as existing on 03.06.2022 in a time bound phased manner in equated monthly installments with benefits of non applicability of late payment surcharge after 03.06.2022. However, failure to repay the instalment of legacy dues in accordance with the Rules would invite Late Payment Surcharge (LPS) on the entire outstanding amount. These rules also provide penal framework to ensure time bound clearance of current dues through establishment of a Payment Security Mechanism as provided in PPA through disincentives of progressive withdrawal of open access as well as power regulations if the provisions of the Rules are not followed.

RDSS also aims at implementation of prepaid smart metering for all Government offices. It is expected that this will ensure timely payment of all Government Departments electricity dues including dues from Urban Local Bodies (ULBs)/ Rural Local Bodies (RLBs) to the DISCOMs.

**GOVERNMENT OF INDIA
MINISTRY OF POWER
LOK SABHA
UNSTARRED QUESTION NO.123
ANSWERED ON 02.02.2023**

CASES OF THEFT OF POWER

123. SHRI JAGDAMBIKA PAL:

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

- (a) whether the Government is aware of the cases of theft of power reported in various parts of the country;**
- (b) if so, the details thereof along with the steps taken/proposed to be taken by the Government to stop the theft of power;**
- (c) whether the Government proposes to introduce an advanced meter to address the issue of theft of power;**
- (d) if so, the details thereof; and**
- (e) the details of the theft of power by the commercial consumers during the last three years?**

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) & (b) : The Government is aware of the cases of theft of power, as reported by the distribution licensees, in various parts of the country. The measures taken by the Government of India, to control the theft of power are as follows:

(i) There are specific provisions in the Electricity Act 2003 (Section 126 and Sections 135 to 140) relating to theft and unauthorized use of electricity, including stringent penal provisions and speedy trial for such offences by Special Courts;

(ii) Ministry of Power launched Reforms-based and Results-linked, Revamped Distribution Sector Scheme (RDSS), to improve the operational efficiencies and financial sustainability of all DISCOMs/ Power Departments. This Scheme aims to reduce the Aggregate Technical and Commercial (AT&C) losses, which includes impact of power theft also, on pan-India basis, in the range of 12-15% by 2024-25. The scheme includes the provisions for funding for loss reduction measures, up-gradation of distribution infrastructure including IT interventions, installation of pre-paid Smart Meters in the country, which would facilitate in the reduction of AT&C losses.

(c) & (d) : The RDSS, with an outlay of Rs. 3,03,758 crore and estimated GBS from Central Government of Rs. 97,631 crore for the duration of 5 years i.e. from (FY 2021-22 to FY 2025-26), has been formulated with the objective of improving the quality and reliability of power supply to the consumers.

.....2.

Prepaid Smart Metering is a critical intervention envisaged under the RDSS, with an estimated outlay of ~Rs 1,50,000 Cr with ~GBS of 23,000 Cr and 25 crore prepaid Smart Meters are targeted to be installed during the Scheme period. Along with the prepaid Smart Metering for consumers, system metering at feeder and DT level with communicating feature along with associated Advanced Metering Infrastructure (AMI) would be implemented, thereby facilitating the Discoms for automatic measurement of energy flows, at all levels, as well as energy accounting and auditing without any human interference. Smart Metering is to be done in PPP mode so that the Service Level Agreements (SLAs) can be enforced for proper energy accounting for identification of defaulting consumers theft prone pockets, instances of meter tampering.

Under this scheme, advanced Information and Communication Technology (ICT) like Artificial Intelligence/Machine Learning (AI/ML) would be leveraged to analyse data generated through Smart Meters and Information Technology/Operational Technology (IT/OT) devices including System Meters to detect the theft cases and to prepare actionable MIS from system generated energy accounting reports, so as to enable the DISCOMs to take informed decisions on power theft along with loss reduction, demand forecasting, asset management etc.

At present, under the RDSS, ~20.46 crore prepaid Smart Meters, ~54.12 lakh numbers of DT Meters and ~1.98 lakh numbers of Feeder Meters have been sanctioned across 28 States/46 Discoms, with a total sanctioned cost of Rs. 1,35,001.72 Cr and GBS of Rs. 24,908.7 Cr.

(e) : The commercial losses due to power theft, billing efficiency, collection efficiency are part of the AT&C losses. The Power Finance Corporation (PFC) has published a report titled “Performance of State Power Utilities”, wherein the details of Billing Efficiency, Collection Efficiency and AT&C loss % for the year FY from 2018-19 to 2020-21 are given below:

Parameter	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-2022 (Provisional)
Billing Efficiency (%)	83.90	85.41	84.07	85.75
Collection Efficiency (%)	93.39	92.80	92.40	97.16
AT&C loss %	21.64	20.73	22.32	16.68

**GOVERNMENT OF INDIA
MINISTRY OF POWER
LOK SABHA
UNSTARRED QUESTION NO.126
ANSWERED ON 02.02.2023**

SETTING UP OF HYDEL PROJECTS

126. SHRI V.K. SREEKANDAN:

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

- (a) whether the Government has received any proposal from the State Government of Kerala for setting up of hydel projects in joint venture with the Union Government;**
- (b) if so, the details thereof;**
- (c) whether the Government has held any discussions with the State Government to explore the vast opportunities/potential of hydel projects in Kerala; and**
- (d) if so, the details thereof?**

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) & (b): No, Sir.

(c) & (d): The Government of India holds discussions with various State Governments from time to time to harness the hydro power potential of the Country. The State of Kerala is endowed with the hydro power potential of almost 4433 Mega Watt (MW). Out of this, an aggregate capacity of 1864 MW has been developed. At present, two number of Hydro Electric Projects (HEPs) namely Pallivasal (60 MW) and Thottiyar (40 MW) are under construction and one number of HEP namely Idukki Extension Scheme with installed capacity of 800 MW is under Survey and Investigation. Besides, THDC India Ltd., a CPSE under administrative control of Ministry of Power has signed an Memorandum of Understanding with Government of Kerala to develop two Pumped Storage Plants.

**GOVERNMENT OF INDIA
MINISTRY OF POWER
LOK SABHA
UNSTARRED QUESTION NO.135
ANSWERED ON 02.02.2023**

POWER TRANSFORMERS IN BIHAR

135. SHRI CHANDESHWAR PRASAD:

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

- (a) whether most of the power transformers remain impaired/non-functional due to the large number of customers availing power supply from these low Watt capacity transformers in rural areas of the country especially in Bihar;**
- (b) if so, the details thereof and if not, the reasons therefor, State/UT-wise; and**
- (c) the steps taken/being taken by the Government in this regard?**

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) to (c) : As per Electricity Act 2003, distribution of electricity is a licensed activity and it is the duty of a distribution licensee to take necessary action for repairing / replacing the impaired transformers within a specified time limit as notified in Standards of Performance (SOP) by respective State Electricity Regulatory Commission (SERC) / Joint Electricity Regulatory Commission (JERC). SERCs/JERCs have issued the Standards of Performance to be followed by the Distribution utilities which also include the time line for repairing of any impaired distribution transformer in rural and urban areas.

Government of India vide notification dated 31st December, 2020 have also notified the Electricity (Rights of Consumers) Rules, 2020 wherein provisions regarding reliability of supply by the distribution licensee, standards of performance, compensation mechanism, provision of call centres for consumer services, grievance redressal mechanism etc. have been dealt with in detail.

The power supply to the number of consumers from a distribution transformer is generally provided by respective distribution utilities after taking into account the capacity of the transformer and the total contracted demand of consumers being supplied from a distribution transformer with a view to avoid overloading of transformers. Under various schemes of Government of India, a total of 6,95,035 no. of Distribution Transformers (DTs) have been installed upto 31.3.2022, including 87,401 no of DTs in Bihar.

.....2.

It is the responsibility of respective Distribution Utilities to regularly upgrade & augment their distribution system including power/distribution transformers to avoid the overloading of the system and to meet the expected load of the area to provide quality and reliable power supply in their area of operation. Government of India supplements the efforts of the States by launching various schemes from time to time to enable States to improve and augment their Sub-transmission and Distribution Infrastructure including transformers in rural & urban areas. Government of India launched DDUGJY, IPDS and Saubhagya schemes for providing funding to States/UTs for renovation and augmentation of Distribution Infrastructure in rural & urban areas in the country. Under DDUGJY/IPDS/Saubhagya schemes, central funding was provided to States for strengthening of sub-transmission and distribution network including Power /distribution transformers in rural areas of the country, including Bihar, for electrification works and for providing reliable power supply to the consumers.

Government of India have recently approved Revamped Distribution Sector Scheme (RDSS) – Reforms based and Results linked Scheme with the objective of improving the quality and reliability of power supply to consumers through a financially sustainable and operationally efficient distribution sector. The Scheme has an outlay of Rs.3,03,758 crore and an estimated Gross Budgetary support of Rs 97,631 Crores from Govt. of India. The duration of the scheme is 5 Years (2021-22 to 2025-26). Under the scheme, eligible DISCOMs (all State-owned Distribution companies and State / UT Power Departments excluding private Sector power companies) are being provided financial support for upgradation of the Sub-transmission & Distribution Infrastructure, including Power/distribution Transformers along with IT intervention and communicable system metering & installation of pre-paid smart meters pan India for 25 crore consumers.

**GOVERNMENT OF INDIA
MINISTRY OF POWER
LOK SABHA
UNSTARRED QUESTION NO.158
ANSWERED ON 02.02.2023**

POLICY OF BIOMASS UTILIZATION FOR POWER GENERATION

158. SHRIMATI SUNITA DUGGAL:

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

- (a) whether the Government proposes to increase the percentage of biomass for co-firing in coal based power plants vis-a-vis the Policy of Biomass utilization for power generation through co-firing in coal based power plants issued in October 2021 and if so, the details thereof;**
- (b) the details of the rate remuneration offered to farmers for providing biomass for co-firing in coal based power plants vis-a-vis the Policy of Biomass utilization for power generation through co-firing in coal based power plants;**
- (c) whether the agro-residue pellets are obtained directly from farmers and if so, the details thereof; and**
- (d) whether the Government is implementing/proposes to implement other measures in order to increase the farmers incomes' by utilisation of stubble in power sector and if so, the details thereof?**

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) : No, Sir. Presently, emphasis is on ensuring implementation of notified policy.

(b) & (c) : As per the policy, biomass pellets are to be procured by Thermal Power Plants, through competitive bidding, from different vendors, including Farmers Producers Organizations (FPOs).

(d) : The development of biomass supply chain mechanism is expected to generate source of revenue for the farmers through procurement of raw biomass from farmers by pellet manufacturers/aggregators.

**GOVERNMENT OF INDIA
MINISTRY OF POWER
LOK SABHA
UNSTARRED QUESTION NO.170
ANSWERED ON 02.02.2023**

GREEN WINDOW PROGRAMME FOR GREEN ENERGY

†170. SHRI NIHAL CHAND:

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

- (a) whether the Government proposes to create a green window programme for green energy within the country;**
- (b) if so, the details thereof along with the estimated amount for the said programme;**
- (c) the details of the areas to be covered under the said program in other States/Union Territories of the country including Rajasthan; and**
- (d) the details of the targets set under the said programme and the time by which this programme is likely to be launched?**

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) to (d): Yes, Sir. Ministry of Power has notified the Electricity (Promoting Renewable Energy through Green Energy Open Access) Rules, 2022 on 06th June 2022 with the aim of accelerating India's ambitious renewable energy programmes. Reduction in the limit of open access transactions from 1 MW to 100 kW for green energy has enabled small consumers to purchase renewable power through open access. For captive consumers, there is no minimum limit. Ministry of Power vide notification dated 08th July, 2022 has notified Grid Controller of India Limited (Grid-India) as Central Nodal Agency to set up and operate a single window green energy open access system for renewable energy under the Rules.

Further, a web portal <https://greenopenaccess.in> on Green Energy Open Access has been launched on 11th November, 2022. All the applications related to green energy open access are being submitted on the portal and routed to concerned nodal agencies as notified by the Appropriate Commissions for grant of open access. This Portal serves the consumers from all States/Union Territories of the country including Rajasthan.

**GOVERNMENT OF INDIA
MINISTRY OF POWER
LOK SABHA
UNSTARRED QUESTION NO.204
ANSWERED ON 02.02.2023**

GRAM UJALA SCHEME

†204. SHRI SUKHBIR SINGH JAUNAPURIA:

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

- (a) whether the Government has implemented the Gram Ujala Scheme;**
- (b) whether the districts of Rajasthan have been identified to be covered under the first phase of the said scheme;**
- (c) if so, the details thereof;**
- (d) the details of the steps taken by the Government to create awareness among the beneficiaries of the said scheme;**
- (e) the time by which the said scheme is likely to be started by the Government; and**
- (f) the details of the number of villages and Dhans of district Tonk and district Sawai Madhopur of Rajasthan included therein?**

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) to (c) : Gram Ujala Scheme has been implemented by Convergence Energy Services Limited (CESL). Under Gram UJALA Scheme, 1 crore LED bulbs have been distributed in rural areas of Bihar, Uttar Pradesh, Andhra Pradesh, Karnataka, and Telangana as a Pilot Project. The distribution under the pilot of Gram Ujala has been completed and currently, no further distribution activity is underway.

(d) : Various awareness activities are being done by CESL/ authorised agencies for the usage of LED bulbs amongst beneficiaries such as - local/national media outreach, information dissemination through radio/TV and other modes of media like banners, posters, leaflets etc.

(e) & (f) : The scheme has been implemented in rural areas of Bihar, Uttar Pradesh, Andhra Pradesh, Karnataka, and Telangana only as a pilot project. Further, implementation would depend upon assessment of pilot project.

**GOVERNMENT OF INDIA
MINISTRY OF POWER
LOK SABHA
UNSTARRED QUESTION NO.211
ANSWERED ON 02.02.2023**

NATIONAL THERMAL POWER CORPORATION

**211. SHRI ANTO ANTONY:
ADV. ADOOR PRAKASH:
PROF. SOUGATA RAY:**

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

- (a) the details of the ongoing power projects in the Himalayan Region of the country;**
- (b) whether any probe has been conducted/proposed to be conducted about the impact of the tunnel projects of National Thermal Power Corporation (NTPC) with regard to the sinking of Joshimath and if so, the details along with the findings thereof;**
- (c) whether the Government has noticed/ascertained that the construction of hydel power plant/projects by NTPC has led to the sinking of land at Joshimath in Uttarakhand and nearby areas and if so, the details thereof;**
- (d) whether the Government had conducted any environmental impact assessment/study before setting up of the said plant and if so, the details thereof;**
- (e) whether there is any proposal to stop the ongoing construction of such hydel power projects and if so, the details thereof;**
- (f) whether NTPC has given any compensation to the villagers on any occasion earlier due to such natural calamities/other reasons; and**
- (g) if so, the details thereof and the reasons therefor?**

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) : At present, there are 30 nos. of large Hydro Electric Projects (HEPs) (above 25 MW Installed Capacity) with aggregate Installed Capacity of 11137.50 MW which are being developed in the Himalayan belt across different States in the country. Out of these projects, 23 Nos. of Hydro Electric projects totalling to 10381.5 MW, are under active construction and 7 nos. of HEPs totalling to 756 MW, are held up. Besides, there are 87 nos. HEPs with an aggregate Installed Capacity of 22982 MW in Himalayan belt across different States in the country which are operational.

(b) &(c) : The land subsidence in Joshimath is a very old issue. It was observed way back in 1976. This was noted by Government of Uttar Pradesh and they constituted a Committee, headed by Shri M.C. Mishra, Commissioner, Garhwal to examine reasons for the instability of the land in Joshimath. The observations of M.C. Mishra Committee are as under:

- Joshimath is not situated on in situ rocks. It situates on weathered, landslide mass of big un- settled boulders in the loose matrix of fine micaceous sandy and clayey material. The rocks are crystalline consisting of schistose gneissic and quartzitic.**

- **Joshimath lies on an ancient landslide. This landslide zone extends upto big nala near Parsari in the east, in the west upto north-west ridge and nala near Gaukh, in north upto river-bed where some in-situ out crops are noted on the Southern bank, while Northern bank consists of solid in-situ bed rock (Hathi Parbat) and in the South upto and beyond Auli which may extend upto the high mountain ridge forming the water shed.**
- **Probable cause of subsidence/ cracks can be hill wash, natural angle of repose, cultivation area because of seepage and soil erosion.**

The construction for Tapovan Vishnugad Hydro Power Project was started in the year 2006. The area of subsidence in Joshimath is 15 km upstream from the project components. The tunnel is at a horizontal distance of around 1.1 km away from the outer boundary of Joshimath town and vertically around 1.1 km below the ground level. There are no signs of sinking around the tunnel alignment at the over ground surface.

The State Authorities constituted a multi-institutional committee in July 2022, after the reports of land subsidence in Joshimath town. Experts from the Wadia Institute of Himalayan Geology (WIHG), CSIR-CBRI, IIT Roorkee, Geological Survey of India (GSI) and the Uttarakhand State Disaster Management Authority (USDMA) were part of the team that carried out the geological and geotechnical investigation in the area of Joshimath town of Chamoli District to identify the causes of the ongoing subsidence and suggest remedial measures. The report of the committee has no mention of NTPC Tapovan Vishnugad Hydro Power Project causing land subsidence in Joshimath.

(d) : Tapovan Vishnugad Hydro Power Project was started in 2006 after detailed examination for Environmental Impact, Geological Studies, Hydrological Studies & Seismic Studies by Geological Survey of India (GSI), Central Water Commission (CWC) & National Council of Seismic Design Parameters (NCSDP). Techno Economic Clearance was given by Central Electricity Authority (CEA). Actual construction of the project started only after obtaining Environment Clearance (EC) from Ministry of Environment, Forest & Climate Change (MoEF&CC).

(e) : After the reports of land subsidence in Joshimath Town, the ADM, Chamoli has issued an order on 05.01.2023, to stop all the construction activities at NTPC Tapovan Project, till further orders. Accordingly, all the construction activities at NTPC Tapovan Project have been stopped w.e.f. 05.01.2023.

(f) & (g) : NTPC has not given any compensation to the villagers earlier due to any natural calamities or any other reasons.

**GOVERNMENT OF INDIA
MINISTRY OF POWER
LOK SABHA
UNSTARRED QUESTION NO.222
ANSWERED ON 02.02.2023**

GROWING DEMAND FOR ELECTRIC VEHICLES

**222. SHRI PARBATBHAI SAVABHAI PATEL:
SHRI PRADEEP KUMAR SINGH:
SHRI PRATAP CHANDRA SARANGI:**

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

- (a) whether the Government is aware of the growing demand for Electric Vehicles (EVs) in the segment of two/three-wheelers;**
- (b) if so, the details of the projections made in this regard and if not, the reasons therefor;**
- (c) whether the charging infrastructure in the country is in sync with the growing sales of EVs; and**
- (d) if so, the details of the progress made with regard to the expansion of the charging network during the Financial Years 2020-21 and 2021-22, State/UT-wise?**

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) & (b) : Yes, Sir. As per e-vahan4 portal of Ministry of Road Transport & Highways (MoRTH), there are 20,40,624 electric vehicles registered in the country as on 31.01.2023. The data of Electric Vehicle in the segment of two and three-wheeler category for last five years is placed at Annexure-A.

(c) & (d) : Government of India has taken several initiatives to promote electricity mobility including Charging Infrastructure for Electric Vehicles. To increase the number of the charging stations across the country following steps have been taken:

- i. Ministry of Power has issued clarification that the charging of batteries of electric vehicles through charging station does not require any license.**
- ii. Central Electricity Authority (CEA) has issued amendments in the regulations regarding Technical Standards pertaining to Grid Connectivity and Safety of supply for Charging Stations.**
- iii. Revised consolidated Guidelines & Standards for charging infrastructure have been issued by the Ministry of Power on 14.01.2022 (amended on 07.11.2022) to accelerate the E-Mobility transition in the country.**

- iv. **Bureau of Energy Efficiency (BEE) has been selected as the Central Nodal Agency to take various initiatives for promotion of Charging Infrastructure for Electric Vehicles.**
- v. **Ministry of Power along with Ministry of Road Transport and Highways, Ministry of Heavy Industries and NITI Aayog has launched a nationwide “Go Electric” Campaign on 19.02.2021 to educate the general public on the benefits of electric vehicles.**
- vi. **Action plans for 9 major cities have been prepared by Bureau of Energy Efficiency (BEE) for installation of Public Charging Stations. As per the initial estimates, a total of 46,397 Public Charging Stations (PCS) are being targeted in these cities by 2030.**
- vii. **All the central Ministries and state Governments have been requested to join the Government of India’s initiative on transformative mobility and to convert their fleet of official vehicles from present Petrol/Diesel Vehicles with Electric Vehicles.**
- viii. **Ministry of Housing and Urban Affairs has issued amendments in Model Building By-Laws and Urban and Regional Development Plans, Formulation and Implementation Guidelines regarding Charging Infrastructure for Electric Vehicles.**

As per data available with Bureau of Energy Efficiency (BEE), 5254 Public Charging Stations (PCS) are currently operational in the country. Details of State/UT wise operational public EV charging stations are placed at Annexure-B. Details of State/UT wise public EV charging stations added during FY 2020-21 and FY 2021-22 are placed at Annexure-C.

ANNEXURE-A**ANNEXURE REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 222 ANSWERED IN THE LOK SABHA ON 02.02.2023**

Year	e-2W	e-3W
2018	16943	108351
2019	30063	131453
2020	28936	88239
2021	155422	153718
2022	628670	338608
2023(till 30-01-2023)	57447	30022
Grand Total	917481	850391

Disclaimer:

- 1. Andhra Pradesh and Madhya Pradesh are in the process of migrating to Vahan and the data shown above is only partial, as available in Vahan DB.**
- 2. Further, Telangana and Lakshadweep data are not available in Online Vahan DB and hence not provided.**

**ANNEXURE REFERRED TO IN REPLY TO PARTS (c) & (d) OF UNSTARRED
QUESTION NO. 222 ANSWERED IN THE LOK SABHA ON 02.02.2023**

State/UT-wise operational Public EV Charging Stations (PCS)

Sl. No.	State Name	No. of PCS
1	Andaman & Nicobar	3
2	Andhra Pradesh	222
3	Arunachal Pradesh	9
4	Assam	48
5	Bihar	83
6	Chandigarh	6
7	Chhattisgarh	46
8	Delhi	539
9	Goa	44
10	Gujarat	170
11	Haryana	230
12	Himachal Pradesh	27
13	Jammu & Kashmir	24
14	Jharkhand	60
15	Karnataka	704
16	Kerala	192
17	Lakshadweep	1
18	Madhya Pradesh	174
19	Maharashtra	660
20	Manipur	16
21	Meghalaya	19
22	Nagaland	6
23	Odisha	117
24	Puducherry	4
25	Punjab	126
26	Rajasthan	254
27	Sikkim	1
28	Tamil Nadu	442
29	Telangana	365
30	Tripura	18
31	UT Administration of Dadra & Nagar Haveli and Daman & Diu	1
32	Uttar Pradesh	406
33	Uttarakhand	48
34	West Bengal	189
Total		5254

**ANNEXURE REFERRED TO IN REPLY TO PARTS (c) & (d) OF UNSTARRED
QUESTION NO. 222 ANSWERED IN THE LOK SABHA ON 02.02.2023**

State/UT-wise Public EV Charging Stations (PCS) added in FY 2020-21 and FY 2021-22

Sl. No.	State Name	PCS in FY 2020-21	PCS in FY 2021-22
1	Andhra Pradesh	3	71
2	Arunachal Pradesh	2	2
3	Assam	7	7
4	Bihar	4	4
5	Chandigarh	2	4
6	Chhattisgarh	-	4
7	Delhi	38	305
8	Goa	6	8
9	Gujarat	9	27
10	Haryana	35	46
11	Himachal Pradesh	5	7
12	Jharkhand	4	7
13	Karnataka	33	137
14	Kerala	14	69
15	Madhya Pradesh	9	27
16	Maharashtra	19	438
17	Manipur	1	1
18	Meghalaya	1	12
19	Nagaland	2	2
20	Puducherry	-	1
21	Punjab	8	9
22	Rajasthan	27	26
23	Tamil Nadu	20	228
24	Telangana	35	153
25	Tripura	2	2
26	Uttar Pradesh	24	105
27	Uttarakhand	4	18
28	West Bengal	2	22
	Total	316	1742

**GOVERNMENT OF INDIA
MINISTRY OF POWER
LOK SABHA
UNSTARRED QUESTION NO.225
ANSWERED ON 02.02.2023**

VISHESH ABHIYAN-2

**†225. SHRI ANIL FIROJIYA:
SHRI DIPSINH SHANKARSINH RATHOD:**

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

- (a) the details of the salient features of the portal of Vishesh Abhiyan-2; and**
- (b) the details of the scheme being prepared to reduce the emission of Hydrogen co-firing Carbon dioxide in gas turbine?**

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a): Vishesh Abhiyan 2.0 or Special Campaign 2.0 was conducted by Department of Administrative Reform & Public Grievances (DARPG) from October 2-31, 2022 with objective of institutionalizing swachhata and reducing pendency in Government Offices. The Special Campaign 2.0 was implemented all over India in central Government offices and was monitored on a digital portal www.pgportal.gov.in/scdpm22. The cleanliness campaign was conducted in 1.01 lac office spaces, space freed was 89.95 lac sq feet and Rs. 371.88 cr revenue was earned from scrap disposal. 4.55 lac public grievances were disposed along with 0.24 lac public grievance appeals. 63 Ministries/Departments reported best practices. The Special Campaign 2.0 was reviewed on a weekly basis at senior levels in Government. The progress of the Special Campaign 2.0 has been widely reported in social media with over 67,000 social media tweets by Ministries/Departments. 127 PIB Statements were issued by Ministries/Departments. The effective coordination by DARPG at multiple levels in the Government has helped in achieving synergy in the activities of the Ministries and maximize overall impact and outcome of the special campaign.

(b): No such specific scheme has been proposed by Ministry of Power.

**GOVERNMENT OF INDIA
MINISTRY OF POWER
LOK SABHA
UNSTARRED QUESTION NO.229
ANSWERED ON 02.02.2023**

ONGOING POWER PROJECTS IN MAHARASHTRA

229. DR. AMOL RAMSING KOLHE:

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

- (a) the details and the number of ongoing power projects being undertaken in Maharashtra;
- (b) the funds sanctioned, allocated and utilized under these projects during the last two years alongwith the current status of these projects;
- (c) whether some of these projects are facing huge cost/time overrun and if so, the details thereof; and
- (d) the action taken/being taken by the Government for timely completion of these projects?

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) : One thermal project namely Bhusawal Thermal Power Project, Unit no.- 06 (660 MW), Taluka-Bhusawal, Distt.-Jalgaon is being implemented by Mahagenco (MSPGCL).

(b) & (c) : Details of Funds Sanctioned, Allocated and utilized during the last two years along with the Time / Cost overruns and current status for the projects is as under:

Projects	Implementing Agency	Sanctioned Cost (In Rs. Cr.)	Time overrun	Cost overrun	Utilisation of Funds		Remarks
					2020-21	2021-22	
Bhusawal Thermal Power Project, Unit No. 6 (660 MW)	Mahagenco (MSPGCL)	4550.97	10 months	230 crores	1381.85	1173.8	On the backdrop of COVID-19 & Nationwide Lockdown thereon progress of project got hampered.

Presently, the project activities are in full swing. Boiler Drainable Hydraulic test carried out on 04.11.2022 and Non-Drainable Hydraulic test is scheduled in Feb 2023. Boiler light up is scheduled in Feb.'2023 and trial run is scheduled in June'2023.

(d) : For timely completion of Bhusawal Thermal Power Project-Unit No. 6 (660 MW) rigorous follow up with EPC contractor i.e. M/s BHEL and other stakeholders of the project is being done. Also, higher level official meetings are being conducted.
