

## Summary of Large Hydro Power Development in Jammu and Kashmir

### I. Conventional Projects

		Nos.	I.C. (MW)
Exploitable Large Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		32	12264.5
<b>Breakup of Hydro Power Potential (2017-23 Study)</b>			
<b>A</b>	Projects in operation	10	3360
<b>B</b>	Projects under active construction	5	3051.5
<b>C</b>	Projects on which construction is held up	1	48
<b>D</b>	Projects concurred by CEA and yet to be taken up for construction#	4	3119
<b>E</b>	Projects returned to project authorities	1	390
<b>F</b>	Projects under S&I	2	1060
<b>G</b>	Projects allotted for development on which S&I is held up/ yet to be taken up	1	370
<b>H</b>	Balance Capacity*	7	710

\*Balance Capacity is different from arithmetic calculation from the potential accessed due to change in capacity of the Projects, addition/deletion of the projects and merger of two projects into one etc.

# In addition to this ,DPR of one project namely Ujh Multipurpose Project (196 MW) is accepted by 148th meeting of Advisory Committee of DOWR, RD&GR on Irrigation, Flood Control & Multipurpose on 17.01.2022 but the PIB doesn't support proposal of Department of Water Resources, River Department and Ganga Rejuvenation in respect of Ujh Multipurpose project.

**I. Conventional Projects****Details of Exploitable Large Hydro Power Projects**

S.no	Name	River	Type	I.C. (MW)
1	Uri-I (Uri)	Jhelum	R	480
2	Uri-II (Uri)	Jhelum	R	240
3	Lower Jhelum	Jhelum	R(P)	105
4	Upper Sindh II & Ext.	Sindh nallah	R(P)	105
5	Kishanganga (Karalpur)	Kishanganga	R(P)	330
6	Dulhasti	Chenab	R(P)	390
7	Salal I & II (Salal)	Chenab	R	690
8	Baglihar-I (Baglihar)	Chenab	R(P)	450
9	Baglihar-II (Baglihar)	Chenab	R(P)	450
10	Sewa-II (Sewa)	Sewa	R(P)	120
11	Parnai	Suran	R	37.5
12	Ratle	Chenab	R (P)	850
13	Lower Kalnai	Kalnai	R	48
14	Pakaldul	Marusudar	S	1000
15	Kiru	Chenab	R	624
16	Kwar	Chenab	R (P)	540
17	Kirthai-II (Naunut)	Chenab	R (P)	930
18	Sawalkot	Chenab	R (P)	1856
19	New Ganderbal	Sindh Nallah	R (P)	93
20	Uri-I Stage-II (Uri)	Jhelum	R	240
21	Kishanganga- II (Wangam)	Kishanganga	R	42
22	Chandanwari- Laripura	Chandanwari	R	81
23	Gangbal	Kanknang	S	48
24	Kirthai-I (Sho)	Chenab	R (P)	390
25	Bursar MPP	Marusudar	S	800
26	Ujh	Ujh	S	196
27	Dulhasti- Stage-II (Dulhasti )	Chenab	R	260
28	Shamnot	Chenab	R	330
29	Barinium	Chenab	R	180
30	Bichlari	Bichlari	R	64
31	Warddwan Bursar	Wardwan	S	255
32	Ans I	Ans	R	40
<b>32</b>	<b>TOTAL</b>			<b>12264.5</b>

**A. H.E. Projects in Operation:**

Sl.No.	UTILITY/ STATIONS	NO. OF STATIONS	NO. OF UNITS X CAPACITY (MW)	RIVER/BASIN*	DISTRICT	I.C. (MW)	Type (R/S/R(P))	YEAR OF COMMISSIONING
<b>JKSPDC</b>								
1	BAGLIHAR-I	1	(3X150)	CHENAB	RAMBAN	450	R(P)	2008
2	BAGLIHAR II	1	(3X150)	CHENAB	RAMBAN	450	R(P)	2015
3	LOWER JHELUM	1	(3X35)	JHELUM	BARAMULLAH	105	R(P)	1978-1979
4	UPPER SINDH-II	1	(3X35)	SINDH	GANDERBAL	105	R(P)	2001-2002
	<b>TOTAL JKSPDC</b>	<b>4</b>				<b>1110</b>		
<b>NHPC</b>								
1	DULHASTI	1	(3X130)	CHENAB	KISTWAR	390	R(P)	2007
2	SALAL - I&II	1	(6X115)	CHENAB	REASI & UDAMPUR	690	R	1987-95
3	URI-I	1	(4X120)	JHELUM	BARAMULA	480	R	1996-1997
4	URI-II	1	(4X60)	JHELUM	BARAMULA	240	R	2013-14
5	SEWA-II	1	(3X40)	SEWA	MAHKA	120	R(P)	2010-11
6	KISHENGANGA	1	(3X110)	KISHENGANGA	BANDIPORA	330	R(P)	2018
	<b>SUB-TOTAL NHPC</b>	<b>6</b>				<b>2250</b>		
<b>10</b>	<b>TOTAL J&amp;K</b>	<b>10</b>				<b>3360</b>		

\* ALL PROJECTS ARE IN INDUS BASIN.

**B. H.E. Projects Under Active Construction:**

Sl.No.	Name of Project	Agency	Basin	District	I.C. (MW)	Type (R/S/R(P))	Likely Commissioning
1	Pakal Dul	CVPPL	Indus	Kishtwar	1000	S	2026-27 (Sept'26)
2	Parnai	JKSPDC	Indus	Poonch	37.5	R	2024-25 (Jun'24)
3	Kiru	CVPPL	Indus	Kishtwar	624	R	2025-26 (Mar'26)
4	Ratle	RHEPPL / NHPC	Indus	Kishtwar	850.00	R(P)	2025-26 (Feb'26)
5	Kwar	CVPPL	Indus	Kishtwar	540.00	R(P)	2026-27 (Nov'26)
<b>5</b>	<b>Total</b>				<b>3051.5</b>		

**C. H.E. Projects on which Construction is held up:**

Sl.No.	Name of Project	Agency	Basin	District	I.C. (MW)	Type (R/S/R(P))	Status & Likely Commissioning
1	Lower Kalnai	JKSPDC	Indus	Kishtwar	48	R	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. *
<b>1</b>	<b>Total</b>				<b>48</b>		

\* The Project is presently stalled. Commissioning is subject to restart of works

Note: R= Run of River, S=Storage &amp; R(P)= Run of River with Pondage, MPP= Multipurpose project

**D. H.E. Projects concurred by CEA and yet to be taken up for construction:**

Sl No.	Name of Project	Agency	River	District	I.C. (MW)	Date of CEA Concurrence	Type (R/S/R(P))	Status
1	New Ganderwal	JKSPC	Sindh Nallah	Ganderwal	93	10.06.14	R(P)	EC accorded on 27.9.13 & FC accorded on 02.04.2012.. #
2	Kirthai-II	CVPPPL	Chenab	Kishtwar	930	14.06.2019	R(P)	EC recommended by MoEF&CC on 15.04.2021. FC yet to be obtained by developer.. ###
3	Sawalkote	NHPC	Chenab	Ramban & Udhampur	1856	18.04.18	R(P)	EC recommended by EAC in its meeting dated 31.01.2017. Formal letter will be issued after FC-I. (MoEF&CC delisted EC for the project on 04.08.2017 and further relisted on 24.01.2022). FC yet to be obtained. ####
4	Uri-I Stage-II HE Project	NHPC	Jhelum	Baramula	240	16.02.2023	R	EC & FC yet to be obtained by developer
<b>4</b>	<b>Total</b>				<b>3119</b>			

# Award of contract packages is under progress. PPA signed with State Government. Loan agreement to be signed with finances.

### Survey under process. The project was handed over to NHPC vide MoU signed on 03.01.21. The project will be executed by CVPPPL ( A JV of NHPC, JSKPDCL). CEA vide OM dated 29.12.2021 transferred the appraisal of Kirthai-II HEP in the name of M/s. CVPPPL. CEA vide letter dated 29.08.2022 extended the validity of appraisal upto 13.06.2024.

####The project was handed over to NHPC vide MoU signed on 03.01.21. The project will be executed by NHPC on BOOT basis. Transfer of Appraisal of Sawalkote HE Project from M/s JKSPDC to M/s NHPC Ltd. and Extension of validity of Appraisal for further 3 years (i.e.beyond 18.04.2021 to 17.04.2024) on same terms & conditions as contained in OM 18.04.2018 was granted vide HPA letter dated 25.03.2022.

**Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage**

**E. H.E. Projects Returned to Project Authorities for re-submission after compliance of observations:**

Sl. No.	Name of Project	Agency	I.C. (MW)	Type (R/S/R(P))	Month of Return
1	Kirthai -I	JKSPDC	390	R(P)	Jul'21
<b>1</b>	<b>Total</b>		<b>390</b>		

**F. H.E. Projects Under Survey & Investigation:**

Sl. No.	Name of Project	Basin/River	Agency for DPR	District	I.C. (MW)	Type (R/S/R(P))	Date of MoA	Target date of preparation of DPR
1	Dulhasti St-II	Indus/ Chenab	NHPC	Kishtwar	260	R	03.01.2021	12/23
2	Bursar	Indus/ Marusudar	NHPC	Kishtwar	800	S		
<b>2</b>	<b>Total</b>				<b>1060</b>			

**G. H.E. Projects allotted for development on which Survey & Investigation is held up/ yet to be taken up:**

Sl. No.	Project	Agency	District	I. C. (MW)	Date of Allotment/ MoA	Status
1	Shamnot	NHPC	Doda	370	-	S&I held up as the project will submerge National Highway.
<b>1</b>	<b>Total</b>			<b>370</b>		

**Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage, MPP=Multipurpose project**

**H. Balance Capacity**

<b>Sl.No.</b>	<b>Name of Project</b>	<b>River</b>	<b>Type</b>	<b>I.C. (MW)</b>	<b>District</b>
1	Bichlari	Bichlari	R	64	Doda
2	Kishenganga-II (Wangam)	Kishanganga	R	42	Bandipora
3	Barinium (Shaus)	Chenab	R	180	Doda
4	Chandanwari Laripora	Chandanwari	R	81	Anantnang
5	Gangbal	Kanknang	S	48	Ganderbal
6	Wardwan Bursar	Wardwan	S	255	Kisthwar
7	Ans-I	Ans	R	40	Reasi
<b>7</b>	<b>Total</b>			<b>710</b>	

Note: R –Run of the River & S - Storage

## Summary of Large Hydro Power Development in Ladakh

### I. Conventional Projects

		Nos.	I.C. (MW)
Exploitable Large Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		10	707
<b>Breakup of Hydro Power Potential (2017-23 Study)</b>			
<b>A</b>	Projects in operation	2	89
<b>B</b>	Projects under S&I	1	95
<b>C</b>	Balance Capacity*	8	618

\*Balance Capacity is different from arithmetic calculation from the potential accessed due to change in capacity of the Projects, addition/deletion of the projects and merger of two projects into one etc.

## I. Conventional Projects

### Details of Exploitable Large Hydro Power Projects

S. No	Name	River	Type	I.C. (MW)
1	Nimu Bazgo (Nimu)	Indus	R(P)	45
2	Chutak	Suru	R	44
3	Leh	Indus	R	67
4	Dumkhar	Indus	R	28
5	Khalsti	Indus	R	60
6	Achinthang-Sanjak (Achingthang + Kanyunche)	Indus	R	108
7	Parfila	Zaskar	S	102
8	Tahanus	Shingo	R	49
9	Ulitopo (Nurla)	Indus	R	48
10	Sunit (Batalik)	Indus	R	156
<b>10</b>	<b>TOTAL</b>			<b>707</b>

**A. H.E. Projects in Operation:**

Sl.No.	UTILITY/ STATIONS	NO. OF STATION S	NO. OF UNITS X CAPACITY (MW)	RIVER/BASIN*	DISTRICT	Type (R/S/R(P))	I.C.(MW)	YEAR OF COMMISSIONING
<b>NHPC</b>								
1	CHUTAK	1	(4X11)	SURU/INDUS	KARGIL	R	44	2012-13
2	NIMOO BAZGO	1	(3X15)	INDUS	LEH	R(P)	45	2013
<b>SUB-TOTAL NHPC</b>		<b>2</b>					<b>89</b>	
<b>TOTAL LADAKH</b>							<b>89</b>	

**B. H.E. Projects Under Survey & Investigation:**

Sl. No.	Name of Project	Agency for DPR	Basin/River	District	Type (R/S/R(P))	I.C. (MW)
1	Drass Suru Link Project	JKPDCL	Indus/Drass Suru	Kargil		95
<b>1</b>	<b>Total</b>					<b>95</b>

**C. Balance Capacity**

Sl.No.	Name of Project	River	District	Type	I.C. (MW)
1	Parfila	Zaskar	Leh	S	102
2	Ulitopo (Nurla)	Indus	Leh	R	48
3	Khalsti (Khalsi)	Indus	Leh	R	60
4	Dumkhar	Indus	Leh	R	28
5	Achingthang-sanjak (Achingthang + Kanyunche)	Indus	Leh	R	108
6	Sunit (Batalik)	Indus	Kargil	R	156
7	Tahanus	Shingo	Kargil	R	49
8	Leh	Indus	Leh	R	67
<b>8</b>	<b>Total</b>				<b>618</b>

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

## Summary of Large Hydro Power Development in Himachal Pradesh

### I. Conventional Projects

		Nos.	I.C. (MW)
Exploitable Large Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		72	18305
<b>Breakup of Hydro Power Potential (2017-23 Study)</b>			
<b>A</b>	Projects in operation	29	10263
<b>B</b>	Projects under active construction	9	2446
<b>C</b>	Projects on which construction is held up	1	44
<b>D</b>	Projects concurred by CEA and yet to be taken up for construction	4	937
<b>E</b>	Projects returned to project authorities	1	400
<b>F</b>	Projects under S&I	4	1144
<b>G</b>	Projects allotted for development on which S&I is held up/ yet to be taken up	7	2700
<b>H</b>	Balance Capacity*	17	1037

\*Balance Capacity is different from arithmetic calculation from the potential accessed due to change in capacity of the Projects, addition/deletion of the projects and merger of two projects into one etc.

### II. Pumped Storage Projects

		Nos.	I.C. (MW)
Exploitable Large Hydro Power Potential from Pump Storage Projects		6	7260
<b>Breakup of Hydro Power Potential from Pumped Storage Projects</b>			
<b>a</b>	Balance Capacity	6	7260

**I. Conventional Projects****Details of Exploitable Large Hydro Power Projects**

<b>S.no</b>	<b>Name</b>	<b>River</b>	<b>Type</b>	<b>I.C. (MW)</b>
1	Budhil	Budhil	R (P)	70
2	Bairasiul	Siul	R (P)	180
3	Chamera-I (Chamera)	Ravi	S	540
4	Chamera-II (Gwar)	Ravi	R(P)	300
5	Chamera-III (Hibra)	Ravi	R (P)	231
6	Chanju-I	Chanju nallah	R (P)	36
7	Bajoli Holi	Ravi	R	180
8	Allain Duhangan (Allain Nallah +Duhangan)	Allain	R (P)	192
9	Malana	Mallana Nallah	R (P)	86
10	Dehar ( Pandoh Diversion Dam)	Beas	R (P)	990
11	Pong (Pong Dam)	Beas	S	396
12	Malana-II	Malana	R (P)	100
13	Parbati-III (Sainj-IV)	Sainj	R (P)	520
14	Sainj (Sainj Kartha-II+Sainj)	Sainj	R (P)	100
15	Larji	Beas	R (P)	126
16	Bassi & Extn.	Uhl	R (P)	66
17	Shanan Ext. (Uhl at Joginder Nagar)	Uhl	R(P)	110
18	Baspa( Baspa-II)	Baspa	R (P)	300

19	Karcham Wangtoo	Satluj	R (P)	1045
20	Sanjay (Bhabha (Sanjay))	Bhabha Khad	R(P)	120
21	Integrated Kashang	Kashang/Kirankhar	R (P)	195
22	Nathpa Jhakri	Satluj	R (P)	1500
23	Rampur (Rampur Nanjah)	Satluj	R	412
24	Kol Dam	Satluj	S	800
25	Bhakra Left (Bhakra Nangal)	Satluj	S	612
26	Bhakra right (Bhakra Nangal)	Satluj	S	785
27	Sorang	Sorang khar	R	100
28	Giri& Bata	Giri	R(P)	60
29	Sawara kudu	Pabar	R	111
30	Kutehr (Machhetri)	Ravi	R	240
31	Uhl III (Rana Khad)	Rana & Nerikhar	R	100
32	Parbati-II	Parbati	R	800
33	Dhulasidh	Beas	R	66
34	Tindong-I	Tidong	R	150
35	Shongtong Kharcham	Satluj	R	450
36	Luhri St-I (Luhri)	satluj	R	210
37	Chhatru	Chandra	R (P)	126
38	Miyar (Udaipur)	Miyar Nallah	R (P)	120
39	Dugar	Chenab	R (P)	500
40	Thana Plaun	Beas	R cum S	191
41	Baggi	Beas	R	42
42	Chango Yangthang	Spiti	R	180

43	Sunni (Sunni Chaba Dam)	Satluj	R(P)	382
44	Reoli Dugli (Raoli)	Chenab	R	456
45	Seli	Chenab	R (P)	400
46	Purthi	Chenab	R	232
47	Bardang	Chenab	R	175
48	Sach Khas	Sarchu	R	288
49	Gyspa	Bhaga	S	350
50	Kulu	Beas	R	52
51	Sainj-I	Sainj	R	68
52	Triveni Mahadev	Beas	R	50
53	Jangi thopan Powari (Jangi Thopan+Thopan Powari)	Satluj	R	804
54	Luhri St.-II (Luhri-II)	Satluj	R	172
55	Sumte Kothang (Thibda)	Spiti	R	50
56	Lara Sumte (kyurik)	Spiti	R	40
57	Yangthang khab	Spiti	R	158
58	Khab-I	Satluj	R	310
59	Khab-II	Satluj	R	150
60	Kashang Stage IV (Taiti-I)	Kashang & kerang	R	48
61	Shangling (Khoskar)	Chandra	R	35
62	Telling (Railing)	Chandra	S	65
63	Tandi Rashil (Jhalma)	Chenab	R	166
64	Chota Dara	Chandra	R	52

65	Lujai	Lujai Nallah	R	49
66	Tandi Rashil (Rashil)	Chenab	R	75
67	Chanju-III	Chanju nallah	R	48
68	Deothal Chanju	Chanju nallah	R	30
69	Surgani Sundla	Suil	R	48
70	Tangnu Romai-I	Pabar	R	44
71	Renukaji Dam	Giri	S	40
72	Baroti	Suil	S	30
<b>72</b>	<b>TOTAL</b>			<b>18305</b>

**A. H.E. Projects in Operation:**

S. NO.	UTILITY/STATIONS	NO. OF STNS.	NO. OF UNITS	NO. OF UNITS X CAPACITY (MW)	RIVER/ /BASIN*	DISTRICT	I.C. (MW)	Type (R/S/R(P))	YEAR OF COMMISSIONING
	<b>CENTRAL SECTOR</b>								
	<b>BBMB</b>								
1	BHAKRA LEFT	1	5	(1X108+ 4x126)	SUTLEJ	BILASPUR	612	S	1960-1961
2	BHAKRA RIGHT	1	5	(5X157)	SUTLEJ	BILASPUR	785	S	1966-1968
3	DEHAR	1	6	(6X165)	BEAS	MANDI	990	R(P)	1977-1983
4	PONG	1	6	(6X66)	BEAS	KANGRA	396	S	1978-1983
	<b>SUB-TOTAL BBMB</b>	<b>4</b>	<b>22</b>				<b>2783</b>		
	<b>NHPC</b>								
5	BAIRA SIUL	1	3	(3X60)	SIUL	CHAMBA	180	R(P)	1980-1981
6	CHAMERA- I	1	3	(3X180)	RAVI	Type (R/S/R(P))	540	S	1994
7	CHAMERA- II	1	3	(3X100)	RAVI	CHAMBA	300	R(P)	2003-2004
8	CHAMERA- III	1	3	(3X77)	RAVI	CHAMBA	231	R(P)	2012
9	PARBATI-III	1	4	(4X130)	SAINJ	KULLU	520	R(P)	2014
	<b>SUB-TOTAL NHPC</b>	<b>5</b>	<b>16</b>				<b>1771</b>		
	<b>SJVNL</b>								
10	NATHPA JHAKRI	1	6	(6X250)	SATLUJ	SHIMLA	1500	R(P)	2003-2004
11	RAMPUR	1	6	(6X68.67)	SATLUJ	SHIMLA	412	R	2014-15
	<b>SUB-TOTAL SJVNL</b>	<b>2</b>	<b>12</b>				<b>1912</b>		
	<b>NTPC LTD.</b>								
12	KOLDAM	1	4	(4X200)	SATLUJ	BILASPUR	800	S	2015
	<b>SUB-TOTAL NTPC LTD.</b>	<b>1</b>	<b>4</b>				<b>800</b>		
	<b>TOTAL CENTRAL SECTOR</b>	<b>12</b>	<b>54</b>				<b>7266</b>		
	<b>STATE SECTOR</b>								
	<b>HPSEBL</b>								
13	BASSI	1	4	(4X16.5)	UHL	MANDI	66	R(P)	1970-1981
14	GIRI BATA *	1	2	(2X30)	GIRI	SIRMAUR	60	R(P)	1978
15	LARIJ	1	3	(3X42)	BEAS	KULLU	126	R(P)	2006
16	SANJAY	1	3	(3X40)	Bhabha Khad	KINNAUR	120	R(P)	1989
	<b>TOTAL HPSEBL</b>	<b>4</b>	<b>12</b>				<b>372</b>		
	<b>HPPCL</b>								
17	INTEGRATED KASHANG	1	3	(3X65)	Kashang/Kiran khar	KINNAUR	195	R (P)	2016-17
18	SAINJ	1	2	(2X50)	SAINJ	KULLU	100	R(P)	2017

19	SWARA KUDDU	1	3	(3X37)	Pabbar/Tons/ Yamuna	SHIMLA	111	R	2020
	<b>TOTAL HPPCL</b>	<b>3</b>	<b>8</b>				<b>406</b>		
	<b>PSPCL</b>								
20	SHANAN (Uhl at Joginder Nagar)	1	5	(1X50)+ (4X15)	UHL & Lamba Dug River	MANDI	110	R(P)	1932-1982
	<b>TOTAL PSPCL</b>	<b>1</b>	<b>5</b>				<b>110</b>		
	<b>TOTAL STATE</b>	<b>8</b>	<b>25</b>				<b>888</b>		
	<b>PRIVATE SECTOR</b>								
	<b>MPCL</b>								
21	MALANA	1	2	(2X43)	MALANA	KULLU	86	R(P)	2001
	<b>TOTAL MPCL</b>	<b>1</b>	<b>2</b>				<b>86</b>		
	<b>GBHPPL</b>								
22	BUDHIL	1	2	(2X35)	BUDHIL	CHAMBA	70	R(P)	2012
	<b>TOTAL GBHPPL</b>	<b>1</b>	<b>2</b>				<b>70</b>		
	<b>EPPL</b>								
23	MALANA-II	1	2	(2X50)	MALANA	KULLU	100	R(P)	2011-12
	<b>TOTAL EPPL</b>	<b>1</b>	<b>2</b>				<b>100</b>		
	<b>IA ENERGY</b>								
24	CHANJU-I	1	3	(3X12)	Chanju nallah	CHAMBA	36	R(P)	2017
	<b>TOTAL IA ENERGY</b>	<b>1</b>	<b>3</b>				<b>36</b>		
25	ALLAIN DUHANGAN	1	2	(2X96)	ALLAIN NALLAH		192	R(P)	2010-11
	<b>TOTAL ADHPL</b>	<b>1</b>	<b>2</b>				<b>192</b>		
	<b>HBPCL</b>								
26	BASPA	1	3	(3X100)	BASPA	KINNAUR	300	R(P)	2003
27	KARCHAM WANGTOO	1	4	(4X261.25)	SATLAJ	KINNAUR	1045	R(P)	2011 (1000 MW)
	<b>TOTAL JSWHEL</b>	<b>2</b>	<b>7</b>				<b>1345</b>		
	<b>HSPPL</b>								
28	Sorang	1	2	2x50	Sorang	Kinnaur	100	R	2021 (100 MW)
	<b>GMR BAJOLI HOLI HYDRO POWER PVT. LTD.</b>								
29	Bajoli Holi	1	3	3x60	Ravi	CHAMBA	180	R	2022
	<b>TOTAL PVT</b>	<b>9</b>	<b>23</b>				<b>2109</b>		
<b>29</b>	<b>TOTAL HP</b>	<b>29</b>	<b>102</b>				<b>10263</b>		

\* ALL PROJECTS EXCEPT GIRI BATA & SWARA KUDDU (GANGA BASIN) ARE IN INDUS BASIN

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

<b>B H.E. Projects Under Active Construction:</b>								
Sl. No.	Name of Project	Agency	District	River	Basin	I.C. (MW)	Type (R/S/R(P))	Likely Commissioning
1	Parbati St--II	NHPC	Kullu	Parbati/Beas	Indus	800	R	2024-25 (June'24)
2	Uhl- III	Beas Valley Power Corp. Ltd. (BVPC)	Mandi	Rana & Nerikhar	Indus	100	R	2024-25 (Dec'24)
3	Tidong-I	M/s NSL Tidong	Kinnaur	Tidong	Indus	150	R	2024-245 (June'24)
4	Shontong Karcham	HPPCL	Kinnaur	Satluj	Indus	450	R	2026-27 (Nov'26)
5	Kutehr	JSW Energy (Kutehr) Power Ltd. (JSWEPL)	Chamba	Ravi	Indus	240	R	2025-26 (Nov'25)
6	Luhri St.I	SJVNL	Shimla/Kullu	Satluj	Indus	210	R	2025-26 (Jan'26)
7	DhauLasidh	SJVNL	Hamirpur/Kangra	Beas	Indus	66	R	2025-26 (Nov'25)
8	Sunni Dam	SJVNL	Shimla/Mandi	Satluj	Indus	382	R(P)	2027-28 (March'28)
9	Chanju-III	HPPCL	Chamba	Chanju Nallah	Indus	48.00	R	2027-28 (June'27)
<b>9</b>	<b>Total</b>					<b>2446</b>		

### C. H.E. Projects on which Construction is held up:

Sl. No.	Name of Project	Agency	District	River	Basin	I.C. (MW)	Type (R/S/R(P))	Status & Likely Commissioning
1	Tangu Romai	Tangu Romai Power Generation	Shimla	Pabar	Ganga	44	R	Works are on hold since Aug 2016 due to fund constraints with developer. *
<b>1</b>	<b>Total</b>					<b>44</b>		

\* The Project is presently stalled. Commissioning is subject to restart of works

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

**D. H.E. Projects concurred by CEA and yet to be taken up for construction:**

Sl. No.	Name of Project	Agency	River	District	I.C. (MW)	Date of CEA Concurrence	Type (R/S/R(P))	Status
1	Miyar	NTPC	Miyar Nallah	Lahul & Spiti	120	07.02.2013	R(P)	EC accorded on 30.07.12. FC-I accorded on 27.07.12. FC-II yet to be obtained. FRA compliance under process #
2	Chhatru	DSIL	Chandra	Lahaul-Spiti	126	15.01.15	R(P)	EC recommended by EAC on 24.02.15, Letter will be issued after FC-I. FC-I & FC-II yet to be obtained. .###
3	Thana Plaun	HPPCL	Beas	Mandi	191	07.09.2021	R cum S	EAC in its meeting dated 27.11.2018 has recommended Environmental Clearance (EC) to MoEF&CC subject to condition of Stage-I FC and adherence to the condition of Cumulative EIA study of Beas Basin . FC yet to be obtained.####
4	Dugar	NHPC	Chenab	Chamba	500	26.04.22	R(P)	EC recommended by EAC on 06.09.2022. FC yet to be obtained
<b>4</b>	<b>Total</b>				<b>937</b>			

**Note: All projects are in Indus basin**

#MoU was signed between Government of Himachal Pradesh and NTPC Ltd. on 25.10.2019 to set-up the hydro project. Validity of Concurrence to the project expired on 07.02.2016. GoHP vide letter dated 25.07.2022 cancelled allotment of the project to NTPC.

###Govt of Himachal Pradesh vide its letter dated 3.10.2019 has since cancelled allotment of Chhatru HEP which was allotted on 28.7.2007 to M/S DCM Shriram Infrastructure limited, and terminated the Pre- Implementation Agreement (PIA) signed on 15.2.2008. Further, validity of Concurrence to project expired on 15.01.2020

#### CAT Plan has been approved by Government of Himachal Pradesh on 03.01.2019. Forest Case has been recommended by State Govt. for further submission to MoEF&CC, New Delhi.

Social Impact Assessment (SIA) study for acquisition of Private land has been completed and approved from GoHP vide notification dated 16.12.2020.

Financial tie-up under process. Land Aquisition shall be processed after achieving financial closure. HPPCL exploring possibility of funding from ADB, PFC and other commercial banks.

**E. Projects returned to project authorities**

Sl. No.	Name of Project	Agency	I.C. (MW)	Type (R/S/R(P))	Month of Return
1	Seli	SHPCL	400	R(P)	May-19
<b>1</b>	<b>Total</b>		<b>400</b>		

**Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage**

**F. H.E. Projects Under Survey & Investigation:**

Sl. No.	Name of Project	Basin*/River	Agency for DPR	I.C. (MW)	District	Type (R/S/R(P))	Date of MoA	Target date of Preparation of DPR
1	Purthi	Chenab	SJVNL	234	Lahaul & Spiti	R	25.09.2019	12/24
2	Bardang	Chenab	SJVNL	166	Lahaul & Spiti	R	25.09.2019	03/24
3	Sach khas	Sarchu	SJVNL	288	Chamba	R	05.01.21	07/24
4	Reoli Dugli HEP	Chenab	SJVN Ltd.	456	Lahaul & Spiti	R	18.03.2021	12/23
<b>4</b>	<b>Total</b>			<b>1144</b>				

\* All projects are in Indus Basin

**G. H.E. Projects allotted for development on which Survey & Investigation is held up/ yet to be taken up:**

Sl. No.	Project	I.C. (MW)	Agency	Date of Allotment/ MoA	District	Status
<b>Satluj Basin</b>						
1	Khab	636	HPPCL	22.09.2009	Kinnaur	Govt. of HP has confirmed the TWL of Upstream project i.e. Yangthang Khab and FRL of Downstream project Jhangi Thopan vide letter dated 15.06.2017. Accordingly a revised PFR for Khab HEP is being prepared considering the scheme to be single stage RoR and considering the virgin stretch of river as per MoEF&CC guidelines.
2	Tidong-II	60	Tidong Hydro Power Ltd.	20.01.2012	Kinnaur	S&I is held up due to local public agitation & there is no progress in the S&I activities of the project for a long time.
3	Jangi Thopan Powari	804	SJVN Ltd.	25.09.2019	Kinnaur	Pre-DPR Chapters returned after there is no progress in the S&I activities by the developer
4	Luhri St.-II	172	SJVNL	25.09.2019	Mandi & Kullu	SJVN vide letter dt. 01.09.23 informed that domain allotment is pending with GoHP and layout of the project could not be finalized.
<b>Sub Total</b>		<b>1672</b>				
<b>Chenab Basin</b>						
5	Gyspa Dam	300	HPPCL	22.09.2009	Lahaul & Spiti	S&I held up due to sustained opposition from local people.
6	Tandi Rashil HEP	268	SJVN Ltd.	30.09.2022	Lahaul & Spiti	Developer vide letter dt. 01.09.23 has informed that no significant progress has been made in S&I work as locals have been resisting entry into project area since March,2022
<b>Sub Total</b>		<b>568</b>				
<b>Beas Basin</b>						
5	Nakhtan (Parbati-I)	460	HPPCL	22.09.2009	Kullu	Request of HPPCL for monitoring of Nakhtan HEP to be put on hold received on 31.12.18 on account of CEIA study of Beas Basin & Hearing of court case on regular basis.
<b>Sub-Total</b>		<b>460</b>				
<b>7</b>	<b>Total</b>	<b>2700</b>				

Note: R= Run of River, S=Storage &amp; R(P)= Run of River with Pondage

**H. Balance Capacity**

Sl.No.	Name of Project	River	Type	I.C. (MW)	Reamrks
1	Kashang Stage-IV (Taiti-I)	Chenab	R	48	
2	Baroti	Siul	S	30	
3	Chhota Dara	Chandra	R	52	
4	Shangling (Khoskar)	Chandra	R	35	
5	Telling (Railing)	Chandra	S	65	
6	Kulu	Beas	R	52	
7	Sainj-I	Sainj	R	68	
8	Yangthang Khab	Spiti	R	158	
9	Lujai	Lujai Nallah	R	49	
10	Renukaji Dam	Giri	S	40	
11	Triveni Mahadev	Beas	R	50	
12	Baggi	Beas	R	42	
13	Deothal Chanju	Chanju Nallah	R	30	
14	Sugani Sundla	Suil	R	48	
15	Chango Yangthang	Spiti	R	180	
16	Sumte Khotang	Spiti	R	50	<ul style="list-style-type: none"> <li>•Initially allotted to Reliance Power Ltd. (M/s Sumte Kothang HPPL)</li> <li>•Project was in S&amp;I held up due to opposition from locals and NGOs.</li> <li>•Project stands terminated on 28.07.2017.</li> </ul>
17	Lara Sumte	Spiti	R	40	<ul style="list-style-type: none"> <li>•Initially allotted to Reliance Power Ltd. (M/s Sumte Kothang HPPL)</li> <li>•Project was in S&amp;I held up due to opposition from locals and NGOs.</li> <li>•Project stands terminated on 28.07.2017.</li> </ul>
<b>17</b>	<b>Total</b>			<b>1037</b>	

Note: R –Run of the River &amp; S- Storage

## II. Pumped Storage Projects

### Exploitable Large Hydro Power Potential from Pumped Storage Projects

S.No.	Name	District	I.C. (MW)
1	Majra	Kangra	700
2	Renukaji (Renuka)	Sirmaur	1630
3	Dhulasidh( Sadda)	Hamirpur	180
4	Koldam PSP-I &II		2400
5	Lehri	Bilaspur	850
6	Raipur/Dobar Uparla	Una	1500
<b>6</b>	<b>TOTAL</b>		<b>7260</b>

#### a. Balance Capacity

S.No.	SCHEMES	Agency	District	River		I.C. (MW)	Remarks
				Upper Reservoir	Lower Reservoir		
1	Majra	• Indicated by MoP to BBMB	Kangra	Sarhyali Khad	Govind Sagar	700	Yet to be allotted by the State for development
2	Renukaji (Renuka)	•HPPCL (Himachal Pradesh Power Corporation Ltd.)	Sirmaur	Jogar ka Khala	Dadahu Storage	1630	Preliminary Report Prepared
3	Dhulasidh( Sadda)	•Indicated by MoP to SJVNL	Hamirpur	at Sadda (in a Depression)	Dhulasidh HEP Reservoir (for both the alternatives)	180	•Yet to be allotted by the State for development • PFR Prepared
4	Koldam PSP-I &II	•Indicated by MoP to NTPC(self identified)		to be constructed (off Stream)	Koldam reservoir	2400	•Yet to be allotted by the State for development •PFR Prepared
5	Lehri	Indicated by MoP to BBMB(self identified)	Bilaspur		Bhakra reservoir	850	Yet to be allotted by the State for development
6	Raipur/Dobar Uparla	•Indicated by MoP to BBMB(self identified)	Una	To be constructed	Bhakra reservoir	1500	•Yet to be allotted by the State for development •PFR Prepared
<b>6</b>	<b>Total</b>					<b>7260</b>	

## Summary of Large Hydro Power Development in Punjab

### I. Conventional Projects

		Nos.	I.C. (MW)
Exploitable Large Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		10	1300.73
<b>Breakup of Hydro Power Potential (2017-23 Study)</b>			
<b>A</b>	Projects in operation	9	1096.3
<b>B</b>	Projects under active construction	1	206

**I. Conventional Projects**

<b>Details of Exploitable Large Hydro Power Projects</b>				
<b>S.no</b>	<b>Name</b>	<b>River</b>	<b>Type</b>	<b>I.C. (MW)</b>
1	Ranjit Sagar Dam (Thein)	Ravi	S	600
2	Shahpurkhandi (Shahpur)	Ravi	R	206
3	Mukerian Phase I	Tail water of pong dam	R	45
4	Mukerian Phase II	Tail water of pong dam	R	45
5	Mukerian Phase III	Tail water of pong dam	R	58.5
6	Mukerian Phase IV	Tail water of pong dam	R	58.5
7	Anandpur Sahib-I	AHC (Canala)	R	67
8	Anandpur Sahib-II	AHC (Canala)	R	67
9	Kotla	Satluj	R	77.34
10	Ganguwal	Satluj	R	76.39
<b>10</b>	<b>TOTAL</b>			<b>1300.73</b>

**A. H.E. Projects in Operation:**

S.No	UTILITY/ STATIONS	NO. OF STATIONS	NO. OF UNITS X CAPACITY (MW)	RIVER/ BASIN*	DISTRICT	I.C. (MW)	Type (R/S/R(P))	YEAR OF COMMISSIONING
<b>PSPCL</b>								
1	ANANDPUR SAHIB-I	1	(2X33.5)	AHC (CANAL)	RUPNAGAR	67	R	1985
2	ANANDPUR SAHIB-II	1	(2X33.5)	AHC (CANAL)	RUPNAGAR	67	R	1985
3	MUKERIAN-I	1	(3X15)	TAIL WATER OF PONG DAM	HOSHIARPUR	45	R	1983
4	MUKERIAN-II	1	(3X15)	TAIL WATER OF PONG DAM	HOSHIARPUR	45	R	1988-89
5	MUKERIAN-III	1	(3X19.5)	TAIL WATER OF PONG DAM	HOSHIARPUR	58.5	R	1989
6	MUKERIAN-IV	1	(3X19.5)	TAIL WATER OF PONG DAM	HOSHIARPUR	58.5	R	1989
7	RANJIT SAGAR	1	(4X150)	Reservoir on River Ravi	PATHANKOT	600	S	2000
<b>TOTAL PSPCL</b>		<b>7</b>				<b>941</b>		
<b>BBMB</b>								
8	GANGUWAL	1	(2X24.2)+ (1X29.25)	SATLUJ	RUPNAGAR	Type (R/S/R(P))	R	1955-1962
9	KOTLA	1	(2X24.2)+ (1X29.25)	SATLUJ	RUPNAGAR	77.65	R	1956-1961
<b>SUB-TOTAL BBMB (PUNJAB)</b>		<b>2</b>				<b>155.3</b>		
<b>9</b>	<b>TOTAL PUNJAB</b>	<b>9</b>				<b>1096.3</b>		

\* ALL PROJECTS ARE IN INDUS BASIN

Note: R= Run of River, S=Storage &amp; R(P)= Run of River with Pondage

**B. H.E. Projects under active Construction:**

Sl. No.	Name of Project	Implementing Agency	River /Basin	District	I. C. (MW)	Type (R/S/R(P))	Likely Commissioning
1	Shahpurkandi	Irr. Deptt. & PSPCL	Ravi /Indus	Gurdaspur	206	R	2025-26 (Oct.'25)
<b>1</b>	<b>Total</b>				<b>206</b>		

## Summary of Large Hydro Power Development in Haryana

### I. Conventional Projects

	Nos.	I.C. (MW)	River	Type
Exploitable Large Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)	-	-	-	-

#Western Yamuna Canal Project (64 MW) has been developed in 4 stages each having Installed Capacity below 25 MW.

## Summary of Large Hydro Power Development in Rajasthan

### I. Conventional Projects

		Nos.	I.C. (MW)
Exploitable Large Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		4	411
<b>Breakup of Hydro Power Potential (2017-23 study)</b>			
<b>A</b>	Projects in operation	4	411

### II. Pumped Storage Projects

		Nos.	I.C. (MW)
Exploitable Large Hydro Power Potential from Pump Storage Projects		<b>3</b>	<b>5560</b>
<b>Breakup of Hydro Power Potential from Pumped Storage Projects</b>			
<b>a</b>	Projects Under Survey & Investigation	3	5560

**I. Conventional Projects****Details of Exploitable Large Hydro Power Projects**

<b>S.No.</b>	<b>Name</b>	<b>River</b>	<b>Type</b>	<b>I.C. (MW)</b>
1	Rana Pratap Sagar	Chambal	S	172
2	Jawahar Sagar	Chambal	R(P)	99
3	Mahi Bajaj-I	Mahi	S	50
4	Mahi Bajaj-II	Mahi	R (P)	90
<b>4</b>	<b>Total</b>			<b>411</b>

**A. H.E. Projects in Operation:**

SL. NO.	UTILITY/ STATIONS	NO. OF STATIONS	NO. OF UNITS X CAPACITY (MW)	RIVER	BASIN	DISTRICT	I.C. (MW)	Type (R/S/R(P))	YEAR OF COMMISSIONING
1	JAWAHAR SAGAR	1	(3X33)	CHAMBAL	GANGA	BUNDI	99	R(P)	1972-1973
2	R P SAGAR	1	(4X43)	CHAMBAL	GANGA	CHITTORGARH	172	S	1968
3	Mahi Bajaj-I	1	2	Mahi	CIR	BANSWARA	50.00	MP	1986 (50 MW)
4	Mahi Bajaj-II	1	2	Mahi	CIR	BANSWARA	90.00	R(P)	1989 (90 MW)
<b>4</b>							<b>411</b>		

**Note-**Gandhi Sagar (115 MW) is In Operation in the state of Madhya Pradesh

## II. Pumped Storage Projects

### Exploitable Large Hydro Power Potential from Pumped Storage Projects

S.No.	Name	District	I.C. (MW)
1	Sukhpura Off-Stream	Chittorgarh	2560
2	Shahpur	Baran	1800
3	Sirohi	Sirohi	1200
<b>3</b>	<b>TOTAL</b>		<b>5560</b>

#### a. PSP under Survey & Investigation

S.No.	SCHEMES	Agency	District	River	INSTALLED CAPACITY		Remarks
					No. of units x Unit size(MW)	I.C. (MW)	
1	Sukhpura Off-Stream	Greenco	Chittorgarh	UR &LR-Off stream, Both Upper Reservoir & Lower Reservoirs are to be constructed	7x320 + 2x160	2560	<ul style="list-style-type: none"> <li>•Target date for preparation of DPR – 11/2023</li> <li>•Date of MOA- 24.01.2023</li> </ul>
2	Shahpur	Greenco	Baran	Upper Reservoir &Lower Reservoir -off stream	5x300 +2x150	1800	<ul style="list-style-type: none"> <li>•Target date of preparation of DPR- 12/2023</li> <li>•Date of MOA- 18.12.2021</li> </ul>

3	Sirohi	JSW Energy	Sirohi	Upper Reservoir- off stream  Lower Reservoir- located across a minor rivulet draining into Sili Nallah, a tributary of Sipu river in West Banas river basin	3x400	1200	<ul style="list-style-type: none"> <li>•Target date of preparation of DPR- 03/24</li> <li>•Date of MOA- 24.01.2022 (acknowledgment letter to LOI)</li> </ul>
3	<b>Total</b>					5560	

## Summary of Large Hydro Power Development in Uttarakhand

### I. Conventional Projects

		Nos.	I.C.(MW)
Exploitable Large Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		55	13481.35
<b>Breakup of Hydro Power Potential (2017-23 Study)</b>			
A	Projects in operation	18	3975.35
B	Projects under active construction	4	1324
C	Projects on which construction is held up	2	247
D	Projects concurred by CEA/State Govt. #	3	815
E	Projects returned to project authorities	7	939
F	Projects under S&I	2	732
G	Projects allotted for development on which S&I is held up/ yet to be taken up	4	628
H	Balance Capacity*	15	2979
*Balance Capacity is different from arithmetic calculation from the potential accessed due to change in capacity of the Projects, addition/deletion of the projects and merger of two projects into one etc.			

#In addition to above,for one project namely Sirkari Bhyol Rupsiabagar,it has been initmated by UJVNL that total cost has been estimated at Rs. 964.12crore at price level of March 2023 and as per Section 8(1) of Electricity Act ,M/S UJVNL is required to submit the DPR to State Government

### II. Pumped Storage Projects

		Nos.	I.C. (MW)
Exploitable Large Hydro Power Potential from Pump Storage Projects		1	1000
<b>Breakup of Hydro Power Potential from Pumped Storage Projects</b>			
a	Under Active Construction	1	1000

**I. Conventional Projects****Details of Exploitable Large Hydro Power Projects**

S No.	Name of the Project	River	Type	I.C. (MW)
1	Chibro	Tons	R (P)	240
2	Khodri	Tons	R (P)	120
3	Vyasi (Lakhwar Vyasi-II)	Yamuna	R (P)	120
4	Dhakrani	Yamuna	R	33.75
5	Dhalipur	Yamuna	R	51
6	Kulhal	Tons	R	30
7	Maneri Bhalli-I	Bagirathi	R (P)	90
8	Maneri Bhalli-II	Bagirathi	R (P)	304
9	Tehri	Bagirathi	S	1000
10	Koteswar	Bagirathi	R(P)	400
11	Chilla (Rishikesh Hardwar)	Ganga	R	144
12	Vishnu Prayag	Alaknanda	R	400
13	Singoli Bhatwari (Mandakini)	Mandakini	R	99
14	Srinagar	Alaknanda	R (P)	330
15	Ramganga	Ramganga	S	198
16	Tanakpur	Sarda	R	94.2
17	Khatima	Sarda	R	41.4
18	Dhauliganga (Khet Tawaghat)	Dhauliganga	R (P)	280
19	Naitwar Mori	Tons	R (P)	60
20	Lata Tapovan	Dhauliganga	R	171
21	Tapovan Vishnugad (Tapoban Chunar)	Dhauliganga	R	520
22	Vishnu Gad Pipalkoti	Alaknanda	R	444
23	Phata Byung	Mandakini	R	76
24	Jakhol Sankari	Supin	R	44
25	Goriganga IIIA (Devibagar Khartoli)	Goriganga	R	150
26	Bowala Nand Prayag	Alaknanda	R	300
27	Pancheswar MPP (Pancheshwar-I)	Sarda	S	2400
28	Rupaligad Regulating Dam (Pancheshwar-II)	Sarda	S	120
29	Kishau Dam	Tons	S	660
30	Lakhwar MPP (Lakhwar Vyasi-I)	Yamuna	S	300

31	Kuwa ford	Yamuna	R	106
32	Arakot Tiuni (Nakot Patlasu)	Tons	R	100
33	Tiuni Plasu (Tuini)	Tons	R	62
34	Mori Hanol (Ugmir)	Tons	R	26
35	Hanol Tiuni	Tons	R	62
36	Nand Prayag Langasu	Alaknanda	R	106
37	Uttyasu Dam	Alaknanda	S	720
38	Bampa Kurkuti	Dhaulti Ganga	R	31
39	Jhelum Tamak	Dhauliganga	R (P)	135
40	Tamak Lata	Dhauliganga	R	130
41	Tikh Kunwargarh (Tikh Gurupha)	Pindar	R	82
42	Bagoli Dam	Pindar	R	126
43	Devasari Dam	Pindar	R	164
44	Garba Tawaghat	Sarda	R	398
45	Tawaghat Dharchula	Sarda	R	470
46	Kalika Dantu	Sarda	R	190
47	Bokang Bailing	Dhauliganga	R	192
48	Chunger Chal	Dhauliganga	R	130
49	Sela Urthing	Dhauliganga	R	126
50	Urthing Sobla	Dhaulti Ganga	R	228
51	Sobala Jhimirigaon	Dhaulti Ganga	R	118
52	Mapang Bogidiyar	Goriganga	R	280
53	Bogidiyar Sirkaribhyol	Goriganga	R	100
54	Sirkari Bhyol Rupsiyabagar	Goriganga	R	135
55	Ramganga Dam	Ram Ganga	S	44
<b>55</b>	<b>TOTAL</b>			<b>13481.35</b>

**A. H.E. Projects in Operation:**

S. NO.	UTILITY/ STATIONS	NO. OF STNS.	NO. OF UNITS X CAPACITY (MW)	RIVER	DISTRICT	I.C. (MW)	Type (R/S/R(P))	YEAR OF COMMISSIONING
	<b>CENTRAL SECTOR</b>							
	<b>NHPC</b>							
1	DHAULI GANGA	1	(4X70)	DHAULIGANGA	PITHORAGARH	280	R(P)	2005
2	TANAKPUR	1	(3X31.4)	SARDA	CHAMPAVAT	94.2	R	1992
	<b>SUB-TOTAL NHPC</b>	<b>2</b>				<b>374.2</b>		
	<b>THDC</b>							
3	TEHRI ST-I	1	(4X250)	BHAGIRATHI	TEHRI GARHWAL	1000	S	2006-2007
4	KOTESHWAR	1	(4X100)	BHAGIRATHI	TEHRI GARHWAL	400	R(P)	2010-12
	<b>TOTAL THDC</b>	<b>2</b>				<b>1400</b>		
	<b>SUB TOTAL CENTRAL</b>	<b>4</b>				<b>1774.2</b>		
	<b>STATE SECTOR</b>							
	<b>UJVNL</b>							
5	CHIBRO (YAMUNA)	1	(4X60)	Tons River at Ichari Dam	DEHRADUN	240	R(P)	1975-1976
6	CHILLA	1	(4X36)	GANGA	HARIDWAR	144	R	1980-1981
7	DHAKRANI	1	(3X11.25)	Tons & Yamuna Rivers at Dakpathar Barrage	DEHRADUN	33.75	R	1965-1970
8	DHALIPUR	1	(3X17)	Tons & Yamuna Rivers at Dakpathar Barrage	DEHRADUN	51	R	1965-1970
9	KHATIMA	1	(3X13.8)	SHARDA	UDHAM SINGH NAGAR	41.4	R	1955-1956
10	KHODRI	1	(4X30)	TONS	DAK PATHAR	120	R(P)	1984
11	KULHAL	1	(3X10)	TONS	DEHRADUN	30	R	1975
12	MANERI BHALI- I	1	(3X30)	BHAGIRATHI	UTTARKASHI	90	R(P)	1984
13	MANERI BHALI- II	1	(4X76)	BHAGIRATHI	UTTARKASHI	304	R(P)	2008
14	RAMGANGA [ RAMGANGA DAM (KALAGARH)]	1	(3X66)	RAMGANGA	PAURI GARHWAL	198	S	1975-1977
15	VYASI	1	(2x60)	YAMUNA/GANGA	DEHRADUN	120	R(P)	2022
	<b>TOTAL UJVNL</b>	<b>11</b>				<b>1372.15</b>		
	<b>PRIVATE</b>							
	<b>AHPC</b>							
16	SHRINAGAR JPPVL	1	(4X82.50)	ALAKNANDA	TRHRI & PAURI	330	R(P)	2015
17	VISHNU PRAYAG ReNew Power	1	(4X100)	ALAKNANDA		400	R	2006
18	SINGOLI BHATWARI	1	(3X33)			99	R	2020
	<b>SUB TOTAL</b>	<b>3</b>				<b>829</b>		
<b>18</b>	<b>TOTAL UTTARAKHAND</b>	<b>18</b>				<b>3975.35</b>		

Note: ALL PROJECTS ARE IN GANGA BASIN

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

**B. H.E. Projects under active Construction:**

Sl. No.	Name of Project	Agency	District	I.C. (MW)	River	Basin	Type (R/S/R(P)/MPP)	Likely Commissioning
1	Vishnugad Pipalkoti	THDC	Chamoli	444	Alaknanada	Ganga	R	2026-27 (Jun'26)
2	Naitwar Mori	SJVNL	Uttarkashi	60	Tons/ Yamuna	Ganga	R(P)	2023-24 (Nov'23)
3	Tapovan Vishnugad	NTPC	Chamoli	520	Dhauliganga	Ganga	R	2025-26 (Dec'25)
4	Lakhwar MPP	UJVNL	Dehradun & Tehri Garhwal	300	Yamuna	Ganga	MPP	2028-29 (Oct'28)
<b>4</b>	<b>Total</b>			<b>1324</b>				

Note : In addition to above, one pumped storage project, namely Tehri (4x250 = 1000 MW) is under active construction and is likely to be commissioned by 2024-25 ( Sept 24)

##Trial run of Unit-2 and Unit-1 completed during April'22 and May'22 respectively.

**C. H.E. Projects on which Construction is held up:**

Sl. No.	Name of Project	Agency	District	I.C. (MW)	River	Basin	Type (R/S/R(P))	Status & Likely Commissioning
1	Lata Tapovan	NTPC	Chamoli	171	Dhauliganga	Ganga	R	Infrastructure works almost completed. As per Hon'ble Supreme Court vide its order dated 07.05.2014 stayed the construction of 24 Hydro projects in Uttarakhand including Lata Tapovan HEPP. According all construction activities stopped since 08.05.14. Main works to re-start after clearance from Hon'ble Supreme Court. *
2	Phata Byung	LANCO	Rudraprayag	76	Mandakini	Ganga	R	Works stalled since July, 2017 due to Financial crunch with the contractor / developer. The company is undergoing a corporate insolvency resolution process initiated under IBC for resolution and revival of the project since June 2020. Under this process, the resolution professional appointed by the NCLT initiated the process for inviting prospective investors for the project. On 25.02.2022, the CoC approved the Final Statkraft IH Holding AS Resolution Plan by a majority of 100%. The Resolution Professional has filed for approval of the resolution Plan Application before the Hon'ble NCLT. Once the Resolution Plan is approved by the NCLT, the successful Resolution Applicant will take over the company and revive the project. *
<b>2</b>	<b>Total</b>			<b>247</b>				

\* The Project is presently stalled. Commissioning is subject to restart of works

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

**D. H.E. Projects concurred by CEA and yet to be taken up for construction:**

Sl. No.	Name of Project	River	Agency	District	I.C. (MW)	Type (R/S/R(P))	Status
1	Kotlibhel St-IA	Bhagirathi	NHPC	Tehri Garhwal	195	R	EC accorded on 9.05.07. However, NHPC vide email dated 02.04.2021 furnished that EC expired in May'2012 FC-I accorded on 13.10.11 & for FC-II, Compliance Report is awaited from State Govt. However, NHPC vide email dated 02.04.2021 furnished that FC-I expired in Oct'2016. #
2	Kotlibhel St-IB	Alaknanda	NHPC	Pauri & Tehri Garhwal	320	R	EC accorded earlier by MoEF&CC on 14.08.07 was quashed by NEEA on 15.09.2010. Thereupon MoEF&CC withdrew the EC on 22.11 2010. MoEF&CC declined FC-I on 7.07.11.##
3	Alaknanda (Badri Nath)	Alaknanda	GMR	Chamoli	300	R	EC accorded on 12.3.08. FC-I accorded on 8.11.11. FC-II accorded on 09.11.2012. The project is included in the list of 24 projects under review by Hon'ble Supreme Court. Validity of Concurrence expired on 07.08.2019.
<b>3</b>	<b>Total</b>				<b>815</b>		

# The project is included in the list of 24 projects under review by Hon'ble Supreme Court. Hon'ble Supreme Court vide order dated 13.08.2013 directed the MoEF&CC as well as State of Uttarakhand not to grant any further Environmental Clearance for any hydropower projects in the State of Uttarakhand until further orders. In compliance to the above order, MoEF & CC constituted an Expert Body vide order dated 12.05.2015. Expert Body has recommended, in its report to MoEF&CC issued in Sept, 2017, that the project should operate to run one turbine continuously during lean season to minimize peaking impact at Devprayag. Hon'ble Supreme Court vide order dated 24.11.2015 directed MoP, MoEF&CC and MoWR to arrive at a common policy framework amongst three ministries which is yet to be formulated.

M/s. NHPC vide letter dated 22.10.2021 informed that the project has been closed w.e.f. 01.04.2021 vide NHPC office order dated 12.04.2021. Further, MoEF&CC has filed the affidavit dated 17.08.2021 before Hon'ble Supreme Court of India incorporating the responses of MoP and MoJS. It has been mentioned in the affidavit that there is consensus on only 7 projects, where substantial progress and sizeable investment have already been made, for implementation amongst the three Ministries and the Govt. of Uttarakhand. Kotlibhel- 1A HE Project of NHPC does not figure in this list.

##The project is included in the list of 24 projects under review by Hon'ble Supreme Court. Hon'ble Supreme Court vide order dated 13.08.2013 directed the MoEF&CC as well as State of Uttarakhand not to grant any further Environmental Clearance for any hydropower projects in the State of Uttarakhand until further orders. Further, MoEF&CC has filed the affidavit dated 17.08.2021 before Hon'ble Supreme Court of India incorporating the responses of MoP and MoJS. It has been mentioned in the affidavit that there is consensus on only 7 projects, where substantial progress and sizeable investment have already been made, for implementation amongst the three Ministries and the Govt. of Uttarakhand. Kotlibhel- 1B HE Project of NHPC does not figure in this list.

**Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage**

**E. Hydro Projects Returned to Project Authorities for re-submission after compliance of observations:**

Sl. No.	Name of Project	River	Agency	Sector	Type (R/S/R(P))	I.C. (MW)	Month of Return
1	Nand Prayag Langasu	Alaknanda	UJVNL	State	R	100	Apr-11
2	Mori Hanol	Tons	KKHPL	Private		63	Feb-10
3	Bogudiyar Sirkari Bhyol	Gori Ganga	GGHPL	Private	R	146	Sep-10
4	Tiuni Plasu	Tons	UID	State	R	72	Oct-10
5	Jhelum Tamak	Dhauliganga	THDCIL	Central	R(P)	108	Aug-19
6	Bowala Nand Prayag	Alaknanda	UJVNL	State	R	300	Sep-22
7	Goriganga-III A	Goriganga	NHPC	Central	R	150	Jan-23
<b>7</b>	<b>Total</b>					<b>939</b>	

**Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage**

**F. H.E. Projects under Survey & Investigation:**

Sl. No.	Name of Project	Basin/River	I.C. (MW)	Agency	District	Type (R/S/R(P))	Date of MOA	Target date of preparation of DPR
1	Kishau MPP	Ganga/Tone	660	UJVNL	Dehradun	MPP		
2	Arakot -Tiuni HEP	Tons	72	UJVNL	Uttarkashi	R	..,2003	06/24
2	<b>Total</b>		<b>732</b>					

**G. H.E. Projects allotted for development on which Survey & Investigation is held up/ yet to be taken up:**

Sl. No.	Project	River	I. C. (MW)	Agency	District	Date of Allotment/ MoA	Status
1	Chhunger - Chal	Dhauliganga	120	NHPC	Pithoragarh	21.11.2005	S&I was held up due to MoEF Clearance. Project in Askot wild life Sanctuary. PCCF (Wildlife) and Chief Warden Wildlife, Dehradun has since granted permission for S&I on 17.05.2016. NHPC vide letter dated 09.04.2018 intimated GoUK that it is not presently prudent to proceed further with implementation of Chungar Chal HE Project. State Govt. has requested NHPC to inform about their final decision on the project.
2	Devsari	Pinder	194	SJVN Ltd.	Chamoli	Nov., 2005	Pre-DPR Chapters returned after there is no progress in the S&I activities by the developer
3	Sela Urthing	Dhauliganga	114	UJVNL	Pithoragarh	09.12.2004	S&I held up due to MOJS is not in favour of construction of any other HEP in Ganga Basin
4	Bokang Bailing	Dhauliganga	200	THDC	Pithoragarh	Type (R/S/R(P))	S&I held up due to MOJS is not in favour of construction of any other HEP in Ganga Basin
4	<b>Total</b>		<b>628</b>				

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

**H. Balance Capacity**

Sl.No.	Name of Project	River	Type	I.C.(MW)	District	Remarks
1	Ram Ganga Dam	Ram Ganga	S	44	Pithoragarh	
2	Kuwa ford	Yamuna	R	106	Uttarkashi	
3	Bampa Kurkuti	Dhauliganga	R	31	Chamoli	
4	Tikh Kunwargarh (Tikh Gurupha)	Pindar	R	82	Bageshwar	
5	Uttyasu Dam	Alaknanda	S	720	Rudraprayag	
6	Sobla Jhimirigaon	Dhauliganga	R	118	Pithoragarh	
7	Tawaghat Dharchula	Sarda	R	470	Pithoragarh	
8	Kalika Dantu	Sarda	R	140	Pithoragarh	
9	Hanol tiuni	tons	R	62	Uttarkashi	
10	Bagoli Dam	Pindar	R	126	chamoli	
11	Jakhol sankari	Supin	R	44	Uttarkashi	
12	Urthing Sobla	Dhauliganga	R	228	Pithoragarh	
13	Mapang Bogidiyar	Goriganga	R	280	Pithoragarh	
14	Garba Tawaghat	MahaKali	R	398	Pithoragarh	<ul style="list-style-type: none"> <li>Initially allotted to NHPC</li> <li>MoEF&amp;CC has issued draft notification on 29.01.2019 regarding proposed ESZ of Askot Wildlife Sanctuary. Publication of final notification of boundaries is still awaited. Being located on Mahakali River, the project would need to be developed jointly with Nepal under the provision of Mahakali Treaty.</li> </ul>
15	Tamak Lata	Dhauliganga	R	130	Chamoli	<ul style="list-style-type: none"> <li>Initially allotted to UJVNL</li> <li>Project included in the list of 24 HE project named in PIL under consideration by Hon'ble Supreme Court.</li> </ul>
15	<b>Total</b>			<b>2979</b>		

Note: R –Run of the River & S- Storage

## II. Pumped Storage Projects

### Exploitable Large Hydro Power Potential from Pumped Storage Projects

S.No.	Name	River	I.C. (MW)
1	Tehri	Bhagirathi river	1000
<b>1</b>	<b>Total</b>		<b>1000</b>

#### a. PSP under Active Construction

S.No.	Name	Agency	District	River	No. of units x Unit size(MW)	I.C. (MW)	Remarks
1	Tehri	THDC	Tehri Garhwal	Bhagirathi river	4x250	1000	Likely to be Commissioned by 2024-2025 (Sept.'24)
<b>1</b>	<b>Total</b>					<b>1000</b>	

## Summary of Large Hydro Power Development in Uttar Pradesh

### I. Conventional Projects

		Nos.	I.C. (MW)
Exploitable Large Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		4	501.6
<b>Breakup of Hydro Power Potential (2017-23 Study)</b>			
A	Projects in operation	4	501.6

### II. Pumped Storage Projects

		Nos.	I.C. (MW)
Exploitable Large Hydro Power Potential from Pump Storage Projects		2	5340
<b>Breakup of Hydro Power Potential from Pumped Storage Projects</b>			
a	Under Survey & Investigation	2	5340

**I. Conventional Projects****Details of Exploitable Large Hydro Power Projects**

S.No	Name	River	Type	I.C. (MW)
1	Khara	Yamuna	R (P)	72
2	Matatila	Betwa	S	30.6
3	Obra	Rihand	S	99
4	Rihand	Rihand	S	300
<b>4</b>	<b>Total</b>			<b>501.6</b>

**A. Projects in operation**

SL. NO.	STATIONS	NO. OF STATIONS	NO. OF UNITS X CAPACITY (MW)	RIVER/ BASIN*	DISTRICT	I. C. (MW)	Type (R/S/R(P))	YEAR OF COMMISSIONING
1	KHARA	1	(3X24)	YAMUNA LINK CHANNEL	SUNEBHADRA	72	R(P)	1992
2	MATATILLA	1	(3X10.2)	BETWA	LALITPUR	30.6	S	1965
3	OBRA	1	(3X33)	RIHAND	SUNEBHADRA	99	S	1970-1971
4	RIHAND	1	(6X50)	Rihand	SINGRAULI	300	S	1961-1965
<b>4</b>	<b>TOTAL UPJVNL</b>	<b>4</b>				<b>501.6</b>		

## II. Pumped Storage Projects

### Exploitable Large Hydro Power Potential from Pumped Storage Projects

S.No.	Name	District	L.C. (MW)
1	Kandhaura	Sonbhadra	1680
2	UP01	Sonbhadra	3660
2	<b>Total</b>		<b>5340</b>

#### a. PSP under Survey & Investigation

S.No.	SCHEMES	Agency	District	River	INSTALLED CAPACITY		Remarks
					No. of units x Unit size(MW)	L.C. (MW)	
1	Kandhaura	JSW Energy	Sonbhadra	Off Stream	5x280+2x140	1680	•Target date of preparation of DPR-12/23 •Date of MOA-25.11.2022
2	UP01	Greenko	Sonbhadra	Off Stream	11x305+2x152.5	3660	•Target date of preparation of DPR-02/24 •Date of MOA-01.02.2023
2	<b>Total</b>					<b>5340</b>	

## Summary of Large Hydro Power Development in Madhya Pradesh

### I. Conventional Projects

		Nos.	I.C. (MW)
Exploitable Large Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		14	2819
<b>Breakup of Hydro Power Potential (2017-23 Study)</b>			
<b>A</b>	Projects in operation	9	2235
<b>B</b>	Projects on which construction is held up	1	400
<b>C</b>	Balance Capacity*	4	0

### II. Pumped Storage Projects

		Nos.	I.C. (MW)
Exploitable Large Hydro Power Potential from Pump Storage Projects		4	4245
<b>Breakup of Hydro Power Potential from Pumped Storage Projects</b>			
<b>a</b>	Under S&I	3	3245
<b>b</b>	Balance Capacity	1	1000

## I. Conventional Projects

### Details of Exploitable Large Hydro Power Projects

S.No.	Name of Project	River	Type	I.C.(MW)
1	Bargi	Narmada	S	90
2	Indira Sagar (Narmada Sagar)	Narmada	S	1000
3	Omkareshwar	Narmada	S	520
4	Maheshwar	Narmada	R	400
5	Basania	Narmada	S	56
6	Hoshangabad (Jahanpur)	Narmada	R	58
7	Bauras	Narmada	R	44
8	Burhner	Burhner	S	26
9	Gandhi Sagar	Chambal	S	115
10	Rajghat	Betwa	S	45
11	Madhikheda	Sindh	S	60
12	Bansagar-III (Bansagar)	Sone	R	60
13	Bansagar-II (Beehar)	Sone	S	30
14	Bansagar-I (Tons )	Tons	R(P)	315
<b>14</b>	<b>Total</b>			<b>2819</b>

**A. H.E. Projects in Operation:**

S. No.	Utility/ Stations	No. of Stns.	No. Of units x Capacity (MW)	River	Basin	District	I.C. (MW)	Type (R/S/R(P))	Year of commissioning
<b>NHDC</b>									
1	INDIRA SAGAR	1	(8X125)	NARMADA	CIR	KHANDWA	1000	S	2004-2005
2	OMKARESHWAR	1	(8X65)	NARMADA	CIR	KHANDWA	520	S	2007
	<b>SUB-TOTAL NHDC</b>	<b>2</b>					<b>1520</b>		
	<b>TOTAL CENTRAL</b>	<b>2</b>					<b>1520</b>		
<b>MPPGCL</b>									
3	BANSAGAR TONS-I	1	(3X105)	TONS	GANGA	SATNA	315	R(P)	1991-1992
4	BANSAGAR TONS-III	1	(2X15)	SONE	GANGA	SATNA	30	R	2000-2002
5	BANSAGAR TONS-II	1	(3X20)	SONE	GANGA	REWA	60	S	2002
6	BARGI	1	(2X45)	NARMADA	CIR	JABALPUR	90	S	1988
7	GANDHI SAGAR	1	(5X23)	CHAMBAL	GANGA	MANDSAUR	115	S	1960-1966
8	MADHIKHERA	1	(3X20)	KALI SINDH	GANGA	SHIVPURI	60	S	2006-2007
9	RAJGHAT	1	(3X15)	BETWA	GANGA	ASHOK NAGAR	45	S	1999
	<b>SUB-TOTAL MPPGCL</b>	<b>7</b>					<b>715</b>		
<b>9</b>	<b>TOTAL MP</b>	<b>9</b>					<b>2235</b>		

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

**B. H.E. Projects on which Construction is held up:**

Sl. No.	Name of Project	I. C. (MW)	District	River	Basin	Agency	Type (R/S/R(P))	Status & Likely Commissioning
1	Maheshwar (Pvt.)	400	Khargone & Khandwa	Narmada	CIR	SMHPCL	R	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.
<b>1</b>	<b>Total</b>	<b>400</b>						

\* The Project is presently stalled. Commissioning is subject to restart of works

**C. Balance Capacity**

S.No.	Name of Project	I.C. (MW)	District	River	Type
1	Burhner	26	Mandla	Burhner	S
2	Basania	56	Mandla	Narmada	S
3	Hoshangabad (Jahanpur)	58	Hoshangabad	Narmada	R
4	Bauras	44	Raisen	Narmada	R
<b>4</b>	<b>Total</b>	<b>184</b>			

Note: R –Run of the River & S- Storage

## II. Pumped Storage Projects

### Exploitable Large Hydro Power Potential from Pumped Storage Projects

S.No.	Name	District	I.C. (MW)
1	Indira Sagar-Omkareshwar PSP	Khandwa	525
2	MP30 Gandhi Sagar	Neemach	1920
3	Tekwa-2	Khargone	800
4	Satpura-2	Chhindwara	1000
<b>4</b>	<b>Total</b>		<b>4245</b>

#### a. PSP under Survey & Investigation

S.No.	SCHEMES	Agency	District	River		I.C. (MW)		Remarks
				Upper Reservoir	Lower Reservoir	No. of units x Unit size(MW)	MW	
1	Indira Sagar-Omkareshwar PSP	NHDC	Khandwa	ISP Reservoir	Omkareshwar reservoir	6x80+1x45	525	•Target date of DPR preparation-12/25 •Date of MOA-07.06.2023
2	MP30 Gandhi Sagar	Greenko	Neemach	Off Stream	Chambal	7x240+2x120	1920	•Target date of DPR preparation-11/23 •Date of MOA-13.10.2021
3	Tekwa-2	NHDC	Khargone	Off Stream	Off Stream	4x200	800	• Target date of preparation of DPR- 12/25
<b>3</b>	<b>Total</b>						<b>3245</b>	

#### b. Balance Capacity

S.No.	SCHEMES	Agency	District	River		I.C. (MW)	Remarks
				Upper Reservoir	Lower Reservoir		
1	Satpura-2	•Indicated by MoP to NHPC	Chhindwara	Latitude - 22.4043° Longitude - 78.8169°	Latitude - 22.4283° Longitude - 78.7933°	1000	•Yet to be allotted by the State for development •PFR Prepared
<b>1</b>	<b>Total</b>					<b>1000</b>	

## Summary of Large Hydro Power Development in Chhattisgarh

### I. Conventional Projects

		Nos.	I.C.(MW)
Exploitable Large Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		11	1311
<b>Breakup of Hydro Power Potential (2017-23 Study)</b>			
<b>A</b>	Projects in operation	1	120
<b>B</b>	Balance Capacity	10	1191

### II. Pumped Storage Projects

		Nos.	I.C. (MW)
Exploitable Large Hydro Power Potential from Pump Storage Projects		2	3500
<b>Breakup of Hydro Power Potential from Pumped Storage Projects</b>			
<b>a</b>	Balance Capacity	2	3500

**I. Conventional Projects****Details of Exploitable Large Hydro Power Projects**

<b>Sl.No.</b>	<b>Name of Project</b>	<b>River</b>	<b>Type</b>	<b>I. C. (MW)</b>
1	Hasdeo Bango	Hasdeo	S	120
2	Bodhghat	Indravati	S	252
3	Kutru-I	Indravati	S	96
4	Kutru-II	Indravati	S	275
5	Nugur-I	Indravati	S	272
6	Kotri	Kotri	S	44
7	Konta	Sabari	R	68
8	Joka	Kanhar	S	30
9	Pasal	Rihand	S	82
10	Duniadhih (Duniahin)	Rehar	S	46
11	Rehar-II (Karri)	Rehar	S	26
<b>11</b>	<b>Total</b>			<b>1311</b>

**A. H.E. Projects in Operation:**

S. No.	Utility/ Stations	No. of Station	No. of units x Capacity (MW)	I.C. (MW)	River/ Basin	District	Type (R/S/R(P))	Year of commissioning
<b>CSPGCL</b>								
1	HASDEO BANGO	1	(3X40)	120	HASDEO/ CIR	KORBA	S	1994-1995
1	<b>TOTAL CSPGCL</b>	<b>1</b>		<b>120</b>				

**B. Balance Capacity**

Sl. No.	Name of Project	River	I.C. (MW)	District	Type
1	Bodhghat	Indravati	252	Dantewada	S
2	Kutru-I	Indravati	96	Bastar	S
3	Kutru-II	Indravati	275	Bastar	S
4	Nugur-I	Indravati	272	Dantewada	S
5	Kotri	Kotri	44	Bastar	S
6	Konta	Sabari	68	Dantewada	R
7	Joka	Kanhar	30	Surguja	S
8	Pasal	Rihand	82	Surguja	S
9	Duniadhih	Rehar	46	Surguja	S
10	Rehar-II (Karri)	Rehar	26	Surguja	S
<b>10</b>	<b>Total</b>		<b>1191</b>		

**Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage**

## II. Pumped Storage Projects

### Exploitable Large Hydro Power Potential from Pumped Storage Projects

S.No.	Name	District	I.C. (MW)
1	Dangari	Jashpur	1400
2	Rauni	Raigarh	2100
<b>2</b>	<b>Total</b>		<b>3500</b>

#### a. Balance Capacity

S.No.	SCHEMES	Agency	River		District	I.C. (MW)	Remarks
			Upper Reservoir	Lower Reservoir			
1	Dangari	CSPGCL	Bichri Nala	Goer river	Jashpur	1400	<ul style="list-style-type: none"> <li>•Yet to be allotted by the State for development</li> <li>•Techno Commerical Feasibility Report (TCFR) has been prepared for IC of 1400 MW</li> </ul>
2	Rauni	CSPGCL	Kamarima Nala	Dorki Nadi	Raigarh	2100	<ul style="list-style-type: none"> <li>•Yet to be allotted by the State for development</li> <li>•Techno Commerical Feasibility Report (TCFR) has been prepared for IC 2100 MW</li> </ul>
<b>2</b>	<b>TOTAL</b>					<b>3500</b>	

## Summary of Large Hydro Power Development in Gujarat

### I. Conventional Projects

		Nos.	I.C. (MW)
Exploitable Large Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		2	550
<b>Breakup of Hydro Power Potential (2017-23 Study)</b>			
<b>A</b>	Capacity in operation	2	550

### II. Pumped Storage Projects

		Nos.	I.C. (MW)
Exploitable Large Hydro Power Potential from Pump Storage Projects		2	1440
<b>Breakup of Hydro Power Potential from Pumped Storage Projects</b>			
<b>a</b>	In Operation	2	1440

Two pumped storage projects, namely Kadana (4x60 = 240 MW) and Sardar Sarovar (6x200 = 1200 MW) are constructed but not working in pumping mode. Kadana is not operating in pumping mode due to vibration problem. Sardar Sarovar Project is an interstate project of Gujarat, MP & Maharashtra and the operation of this project in pumping mode is under discussion with Narmada Control Authority (NCA) and concerned State Govts.

## I. Conventional Projects

### Details of Exploitable Large Hydro Power Projects

S.no	Name	River	I.C. (MW)	Type
1	Ukai	Tapti	300	S
2	Sardar Sarovar CHPH	Narmada	250	R(P)
2	<b>TOTAL</b>		<b>550</b>	

### A. H.E. Projects in Operation:

S. No.	Utility/ Stations	No. of Stns.	No. of units x Capacity (MW)	River / Basin*	District	I.C. (MW)	Type (R/S/R(P))	Year of commissioning
	<b>GSECL</b>							
1	UKAI	1	(4X75)	TAPI	TAPI	300	S	1974-1976
	<b>SUB-TOTAL GSECL</b>	<b>1</b>				<b>300</b>		
	<b>SSNNL</b>							
2	SARDAR SAROVAR CHPH	1	(5X50)	NARMADA	NARMADA	250	R(P)	2004
	<b>SUB-TOTAL SSNNL</b>	<b>1</b>				<b>250</b>		
2	<b>TOTAL GUJARAT</b>	<b>2</b>				<b>550</b>		

\* All projects are in CIR Basin

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

## II. Pumped Storage Projects

### Exploitable Large Hydro Power Potential from Pumped Storage Projects

S.No.	Name	District	I.C. (MW)
1	Kadana	Panchmahal	240
2	Sardar Sarover	Baharuch	1200
<b>2</b>	<b>Total</b>		<b>1440</b>

#### a. PSP In Operation

S.No.	SCHEMES	Agency	River		District	I.C. (MW)	Remarks
			Upper Reservoir	Lower Reservoir			
1	Kadana	GSECL	Mahi	Mahi	Panchmahal	240	Not Working in Pumping Mode
2	Sardar Sarover	SSNNL	Narmada	Narmada	Baharuch	1200	Not Working in Pumping Mode
<b>2</b>	<b>TOTAL</b>					<b>1440</b>	

## Summary of Large Hydro Power Development in Maharashtra

### I. Conventional Projects

		Nos.	I.C. (MW)
Exploitable Large Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		16	3144.0
<b>Breakup of Hydro Power Potential (2017-23)</b>			
<b>A</b>	Projects in operation	12	2647
<b>B</b>	Balance Capacity	4	497

### II. Pumped Storage Projects

		Nos.	I.C. (MW)
Exploitable Large Hydro Power Potential from Pump Storage Projects		29	32505
<b>Breakup of Hydro Power Potential from Pumped Storage Projects</b>			
<b>a</b>	In Operation	2	400
<b>b</b>	Construction Held Up	1	80
<b>c</b>	Under S&I	9	13600
<b>d</b>	Balance Capacity	17	18425

**I. Conventional Projects**

<b>Details of Exploitable Large Hydro Power Projects</b>				
<b>S.no</b>	<b>Name</b>	<b>River</b>	<b>Type</b>	<b>I.C. (MW)</b>
1	Vaitarna (Vaitarna I)	Vaitarna	S	60
2	Bhira Tail Race	Kundalika	R (P)	80
3	Tillari	Tillari	R (P)	60
4	Bhandardara St-II	Pravara	R (P)	34
5	Pench	Pench	S	160
6	Wainganga	Wainganga	S	138
7	Samda	Wainganga	R	45
8	Kunghara	Wainganga	R	100
9	Pranhita	Pranhita	S	214
10	Bhivpuri	Andhra	S	75
11	Khopoli	Indrayani	S	72
12	Bhira	Neela& Mula	S	150
13	Koyna Dam P/H	Koyna	S	36
14	Koyna St. I & II	Koyna	S	600
15	Koyna St. III	water discharge d from units(St-I, II & IV	R (P)	320
16	Koyna St. IV	Koyna	S	1000
<b>16</b>	<b>TOTAL</b>			<b>3144</b>

**A. H.E. Projects in Operation:**

S. No.	Utility/	No. Of stns.	No. Of units x Capacity (MW)	River	Basin	District	I.C. (MW)	Type (R/S/R(P))	Year of commissioning
<b>MAHAGENCO</b>									
1	BHIRA TAIL RACE	1	(2X40)	KUNDALIKA	WFR	RAIGAD	80	R(P)	1987-1988
2	KOYNA DPH	1	(2X18)	KOYNA	EFR	SATARA	36	S	1980-1981
3	KOYNA-I&II	1	(4X70)+ (4X80)	KOYNA	EFR	PATAN	600	S	1962-1967
4	KOYNA-III	1	(4X80)	Water let out through ulestward units (St-I,II & IV)	EFR	RATNAGIRI	320	R(P)	1975-1978
5	KOYNA-IV	1	(4X250)	KOYNA	EFR	SATARA	1000	S	1999-2000
6	TILLARI	1	(1X60)	TILLARI	WFR	KOLHAPUR	60	R(P)	1986
7	VAITARNA	1	(1X60)	VAITARNA	WFR	NASIK	60	S	1976
	<b>SUB-TOTAL MAHAGENCO</b>	<b>7</b>					<b>2156</b>		
<b>MPPGCL</b>									
8	PENCH	1	(2X80)	PENCH	EFR	CHINDWARA	160	S	1986-1987
	<b>SUB-TOTAL MPPGCL</b>	<b>1</b>					<b>160</b>		
	<b>TOTAL STATE SECTOR</b>	<b>8</b>					<b>2316</b>		
<b>PRIVATE</b>									
<b>DODSON-LINDBLOM HYDRO POWER PVT. LTD. (DLHP)</b>									
9	BHANDARDHARA ST-II	1	(1X34)	PRAVARA	EFR		34	R(P)	1996
	<b>SUB-TOTAL DLHP</b>	<b>1</b>					<b>34</b>		
	<b>TATA POWER COMPANY (PVT.)</b>								
10	BHIRA	1	(6X25)	NEELA & MULA	EFR	RAIGAD	150	S	1927-1949
11	BHIVPURI	1	(3X24) + (2X1.5)	ANDHRA	EFR	RAIGAD	75	S	1997-1999
12	KHOPOLI	1	(3X24)	INDRAYANI	EFR	RAIGAD	72	S	2001-2003
	<b>SUB-TOTAL TPCL</b>	<b>3</b>					<b>297</b>		
	<b>TOTAL PVT (MAHARASHTRA)</b>	<b>4</b>					<b>331</b>		
<b>12</b>	<b>TOTAL MAHARASHTRA</b>	<b>12</b>					<b>2647</b>		

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

**B. Balance Capacity**

Sl .No.	Name of Project	River	Type	I.C.(MW)	District
1	Wainganga	Wainganga	S	138	Border of Gadchiroli and Chandrapur district
2	Samda	Wainganga	R	45	Border of Gadchiroli and Chandrapur district
3	Kunghara	Wainganga	R	100	Border of Gadchiroli and Chandrapur district
4	Pranhita	Pranhita	S	214	Gadchiroli
<b>4</b>	<b>Total</b>			<b>497</b>	

Note: R –Run of the River & S- Storage

## II. Pumped Storage Projects

### Exploitable Large Hydro Power Potential from Pumped Storage Projects

S.No.	Name	District	I.C. (MW)
1	Ghatghar Stage-II	Ahmednagar	125
2	Malshej Ghat	Ahmednagar/ Thane	700
3	Mutkhel	Ahmednagar	110
4	Warasgaon	Pune/Raigad	1200
5	Bhira	Raigad	150
6	Ghatgar	Thana	250
7	Kengadi	Thane	1550
8	Jalond	Thane	2400
9	Amba	Pune	800
10	Savitri	Satara	2250
11	Jalvara	Ratnagiri/Belgaum	2220
12	Koyna Left Bank	Satara	80
13	Varandhghat	Pune	800
14	Panshet	Satara	1600
15	Nive	Pune	1200
16	Kodali	Kolhapur	220

17	Bhavali	Nashik/ Thane	1500
18	Atvan	Pune/raigad	500
19	Koyna St-VI	Satara	400
20	Patgaon	Sindhudurg and Kolhapur	2100
21	Kundi	Ratnagiri	600
22	Pane	Raigad	1500
23	Tarali	Satara	1500
24	Malshej Ghat Bhorande	Pune & Thane	1500
25	Aruna	Kolhapur	1950
26	Humbarli Birmani	Satara/ Ratnagiri	1000
27	Shirwata	Pune	1800
28	Bhivpuri	Raigad	1000
29	Warasgaon Warangi	Pune-Raigad	1500
<b>29</b>	<b>Total</b>		<b>32505</b>

**a. PSP in Operation**

S.No.	SCHEMES	Agency	District	River		I.C. (MW)	Remarks
				Upper Reservoir	Lower Reservoir		
1	Bhira	TATA power	Raigad	Mulla & Neela		150	
2	Ghatgar	MAHAGENCO	Thana	Pravara		250	
2	<b>Total</b>					<b>400</b>	

**b. PSP Construction Held Up**

S.No.	SCHEMES	Agency	District	River		I.C. (MW)	Remarks
				Upper Reservoir	Lower Reservoir		
1	Koyna Left Bank	WRD , Maharashtra	Satara	Koyna		80	Likely Commissioning by 2026-27
1	<b>Total</b>					<b>80</b>	

**c. PSP under S&I**

S.No.	SCHEMES	Agency	District	River		I.C. (MW)	Remarks
				Upper Reservoir	Lower Reservoir		
1	Warasgaon	WRD, Maharashtra	Pune/Raigad	Mose river	Kal river	1200	• Target date of DPR preparation-05/24
2	Bhavali	JSW Energy	Nashik/ Thane	downstream of Bhavali Dam	Ulhas river	1500	•Target date of DPR preparation-12/23 •Date of MOA-14.09.2021
3	Patgaon	Adani Green Energy Ltd.	Sindhudurg and Kolhapur	existing Patgaon reservoir	to be constructed on tributary of Karli river	2100	•Target Date of DPR preparation- 12/23 •Date of MOA-28.06.2022
4	Pane	JSW Energy	Raigad	Off Stream	connected to a small stream which joins the downstream Kal river	1500	•Target date of DPR preparation-06/24 •Date of MOA-29.09.2022
5	Tarali	Adani Green Energy Ltd.	Satara	Off Stream	existing Tarali reservoir	1500	•Target date of DPR preparation-04/24 •Date of MOA-28.06.2022
6	Malshej Ghat Bhorande	Adani Green Energy Ltd.	Pune & Thane	on Minor nallah draining into Kukadi river	on Minor nallah draining Into Kalu rive	1500	•Target date of DPR preparation-05/24 •Date of MOA-28.06.2022
7	Shirwata	TATA power	Pune	offstream	existing Shirawata reservoir	1800	• Target date ofDPR preparation-06/24 •Date of MOA- 08.08.2023
8	Bhivpuri	TATA power	Raigad	existing Thokerwadi reservoir	offstream	1000	• Target date ofDPR preparation-06/24 •Date of MOA- 08.08.2023

9	Warasgaon Warangi	Adani Green	Pune-Raigad	on minor nallah draining into Ambi river	on minor nallah draining into Kal river	1500	• Target date ofDPR preparation-06/24 •Date of MOA- 28.06.2022
<b>9</b>	<b>Total</b>					<b>13600</b>	

**d. Balance Capacity**

S.No.	SCHEMES	Agency	District	River		I.C. (MW)	Remarks
				Upper Reservoir	Lower Reservoir		
1	Ghatghar Stage-II	WRD, Maharashtra	Ahmednagar	Pravara river	Shahi Nalla	125	PFR Prepared in March-21. Use of both reservoirs of Ghatghar PSP St.I
2	Malshej Ghat	Indicated by MoP to THDCIL	Ahmednagar/ Thane	Kalu river		700	Yet to be allotted by the State for development. Implementation agreement yet to be signed with Govt. of Maharashtra. DPR Prepared in May-2010.
3	Mutkhel	WRD, Maharashtra	Ahmednagar	Pravara		110	PFR Prepared in May-15
4	Kengadi	Indicated by MoP to NHPC	Thane	Thane	Kengadi river	1550	Yet to be allotted by the State for development
5	Jalond	Indicated by MoP to NHPC	Thane	Thane	Mula river	2400	Yet to be allotted by the State for development
6	Amba	Indicated by MoP to NTPC	Pune	Pune	Lonauli Lake	800	Yet to be allotted by the State for development
7	Savitri	Indicated by MoP to NHPC	Satara	Satara	Krishna river	2250	Yet to be allotted by the State for development
8	Jalvara	Indicated by MoP to SJVNL	Ratnagiri/ Belgaum	Ratnagiri/ Belgaum	Hajatar river	2220	Yet to be allotted by the State for development
9	Varandhghat	WRD, Maharashtra	Pune	Welvandi River	Kharak River	800	Preliminary Investigation Report prepared in Dec 16
10	Panshet	WRD, Maharashtra	Satara	Mose River	Kal River	1600	Preliminary Investigation Report Prepared in March-17
11	Nive	WRD, Maharashtra	Pune	Kundalika River	Kundalika River	1200	PFR Prepared in August-2015
12	Kodali	WRD, Maharashtra	Kolhapur	Kodali River	Kharal River	220	PFR Prepared in April-2014
13	Atvan	WRD, Maharashtra	Pune/raigad	pawana	uttara	500	PFR prepared
14	Koyna St-VI	WRD, Maharashtra	Satara	Koyna	Koyna	400	Yet to be allotted by the State for development
15	Kundi	Indicated by MoP to NTPC	Ratnagiri	Varna river	Nibera Vahal river	600	Yet to be allotted by the State for development
16	Aruna	Indicated by MoP to THDCIL	Kolhapur	Kumbli river	Aruna river	1950	Yet to be allotted by the State for development PFR Prepared
17	Humarli Birmani	Indicated by MoP to THDCIL	Satara/ Ratnagiri	minor nallah flowing to koyna river basin	On initial reaches of a nallah flowing to suk river	1000	Yet to be allotted by the State for development PFR Prepared
<b>17</b>	<b>Total</b>					<b>18425</b>	

## Summary of Large Hydro Power Development in Goa

### I. Conventional Projects

	No.	I.C. (MW)
Exploitable Large Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)	*	*

## Summary of Large Hydro Power Development in Andhra Pradesh

### I. Conventional Projects

		Nos.	I.C. (MW)
Exploitable Large Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		8	2826
<b>Breakup of Hydro Power Potential (2017-23)</b>			
<b>A</b>	Projects in operation	5	1610
<b>B</b>	Projects under active construction	2	1190
<b>C</b>	Balance Capacity	1	26

### II. Pumped Storage Projects

		Nos.	Capacity (MW)
Exploitable Large Hydro Power Potential from Pump Storage Projects		20	21870
<b>Breakup of Hydro Power Potential from Pumped Storage Projects</b>			
<b>a</b>	Under Active Construction	1	1200
<b>b</b>	Under S&I	16	17120
<b>c</b>	Concurred	1	1350
<b>d</b>	S&I Held Up	2	2200

## I. Conventional Projects

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### Details of Exploitable Large Hydro Power Projects

Sl.No.	Name of Project	River	Type	I.C. (MW)
1	Upper Sileru-I&II (Upper Sileru)	Sileru	S	240
2	Lower Sileru	Sileru	S	460
3	Polavaram	Godavari	S	960
4	Balimela Dam Toe	Sileru	S	26
5	Srisaillam	Krishna	S	770
6	Nagarjunasagar RBC & Ext (Nagarjunasagar RBC)	Krishna	S	90
7	Nagarjunasagar TPD	Krishna	R (P)	50
8	Lower sileru extension	Sileru	R (P)	230
<b>8</b>	<b>Total</b>			<b>2826</b>

**A. H.E. Projects in Operation:**

S. No.	Utility/ Stations	No. Of stns.	No. of units x Capacity (MW)	River / Basin*	District	I.C. (MW)	Type (R/S/R(P))	Year of commissioning
1	LOWER SILERU	1	(4X115)	SILERU	KHAMMAM	460	S	1976-1978
2	NAGARJUNA SGR RBC & EXT.	1	(3X30)	KRISHNA	SATRASALA	90	S	1983-90
3	SRISAILAM	1	(7X110)	KRISHNA	MAHABUBNA GAR	770	S	1982-1987
4	UPPER SILERU-I&II	1	(4X60)	SILERU	VISHAKAPAT NAM	240	S	1967-1995
5	NJ SAGAR TPD	1	(2X25)	KRISHNA	GUNTUR	50	R(P)	2017
<b>5</b>	<b>TOTAL</b>	<b>5</b>				<b>1610</b>		

\* All projects are in EFR Basin

**B. H.E. Projects under active construction:**

Sl. No.	Name of Project	Agency	River/ Basin	District	I. C. (MW)	Type (R/S/R(P))	Likely Commissioning
1	Polavaram	APGENCO/ Irrigation Dept., A.P	Godavari/ EFR	East & West Godavari	960	S	2024-26 (Mar'26)
2	Lower sileru extension	APGENCO	Sileru/EFR	Alluri Sitharamaraju	230	R(P)	2025-26 (Mar'26)
<b>2</b>	<b>Total</b>				<b>1190</b>		

Note :R= Run of River, S=Storage & R(P)= Run of River with Pondage

**C. Balance Capacity**

Sl.No.	Name of Project	River	Type	I. C. (MW)	District	Remarks
1	Balimela Dam Toe	Sileru	S	26	Malkangri	<ul style="list-style-type: none"> <li>• The Government of Orissa and Government of Andhra Pradesh agreed in year 1962 that AP will construct a 60 MW Power House at Balimela toe for its own use at its cost, using AP's 50% share of water. Though the Dam is situated in orissa, 100% cost and benefits go to State of A.P. as per the agreement</li> <li>• This project could not be taken up due to non-issue of NOC by Govt of Odisha for blasting material for power House excavation in spite of lot of correspondence from Govt of AP.</li> <li>• The Govt. of Odisha had informed the Govt. of AP on 08-09-2010 to take up the construction of this project jointly by both APGENCO &amp; OHPC on 50:50 basis.</li> <li>• The correspondence has been done with Govt. of Odisha from year 2013 to till date on the finalization of the clauses of draft modified agreement to be entered by both Govt. of AP &amp; Govt. of Odisha as the implementation of Balimela Dam Toe HE Project would be taken up jointly by both APGENCO &amp; OHPC duly sharing the costs and benefits in 50:50 ratio as per the decisions of Project Administrative committee (PAC) and after signing of modified agreement.</li> <li>• At present, the draft modified agreement is submitted to the Govt. of AP vide dt:07-07-18 for approval. After receiving approval from Govt. of AP, the draft modified agreement will be sent to M/s OHPC for arranging consent of Govt. of Odisha.</li> </ul>
<b>1</b>	<b>Total</b>			<b>26</b>		

Note: R –Run of the River &amp; S- Storage

## II. Pumped Storage

### r Potential from Pumped Storage Projects

S.No.	Name	District	I.C. (MW)
1	Upper Sileru	Vishakhapatnam	1350
2	Kurukutti	Vizianagaram	1200
3	Karrivalasa	Vizianagaram	1000
4	Yerravaram PSP	Vishakhapatnam	1200
5	Pinnapuram	Kurnool	1200
6	Gandikota	Kadapa	1000
7	Chitravathi	Ananthapuramu	500
8	Somasila	Kadapa	900
9	Owk	Kurnool	800
10	Paidipalem East	YSR	1200
11	Singanamala	Ananthapuramu	800
12	Paidipalem North	YSR	1000
13	Veeraballi Off-Stream	Annamayya	1800
14	Vempalli	YSR Kadapa	1500
15	Gujjili	Alluri Sitharama Raju	1500
16	Raiwada	Anakapalle	850
17	Chittamvalasa	Alluri Sitarama Raju	800
18	Yaganti	Nandyal	1000
19	Kamalapadu	Ananthapuramu	950
20	Aravetipalli	YSR	1320
<b>20</b>	<b>Total</b>		<b>21870</b>

**a. PSP Under Active Construction**

S.No.	SCHEMES	Agency	District	River		I.C. (MW)	Remarks
				Upper Reservoir	Lower Reservoir		
1	Pinnapuram	Greenko	Kurnool	Near Gorakallu reservoir in Pannapuram Village Lat 15°36'26" N Long 78°15'13" E	In Pannapuram Village Lat 15°37'26" N Long 78°15'30" E	1200	Likely to be Commissioned by 2024-2025(Dec'24)
1	<b>Total</b>					<b>1200</b>	

**b. PSP Under S&I**

S.No.	SCHEMES	Agency	District	River		I.C. (MW)	Remarks
				Upper Reservoir	Lower Reservoir		
1	Yerravaram PSP	Shirdi Sai Electricals Ltd.	Vishakhapatnam	Nallah/Stream flowing into the Thandava reservoir,	Nallah/Stream flowing into the Thandava reservoir,	1200	•Target date of DPR preparation-03/25 •Date of MOA-19.01.2023
2	Gandikota	Adani Green Energy Ltd.	Kadapa	Off Stream	Gandikota reservoir on Penna River	1000	•Target date of DPR preparation-12/23
3	Chitravathi	Adani Green Energy Ltd.	Ananthapuramu	Off Stream	Chitravathi	500	•Target date of DPR preparation-12/23 •Date of MOA-29.06.2022
4	Somasila	Shirdi Sai Electricals Ltd.	Kadapa	Off Stream	Off Stream,	900	•Target date of DPR preparation-12/23 •Date of MOA-19.01.2023
5	Owk	Aurobindo Realty & Infrastructure Pvt. Ltd.	Kurnool	Off Stream	Owk reservoir on Penna River	800	•Target date of DPR preparation-03/24 •Date of MOA-12.09.2022
6	Paidipalem East	Indosol Solar Power Pvt. Ltd.	YSR	new proposed Off Stream	new proposed draws water Paidipalem Balancing reservoir	1200	•Target date of DPR preparation-07/24 •Date of MOA-12.09.2022
7	Singanamala	Aurobindo Realty & Infrastructure Pvt. Ltd.	Ananthapuramu	Off Stream	Off Stream	800	•Target date of DPR preparation-09/24 •Date of MOA-12.09.2022
8	Paidipalem North	Indosol Solar Power Pvt. Ltd.	YSR	new proposed Off Stream	new proposed draws water Paidipalem Balancing reservoir	1000	•Target date of DPR preparation-07/24 •Date of MOA-12.09.2022
9	Veeraballi Off-Stream	Astha Green Energy Ventures India PVT. LTD.	Annamayya	Off Stream	Off Stream	1800	•Target date of DPR preparation-02/24 •Date of MOA-12.09.2022
10	Vempalli	JSW Energy	YSR Kadapa	Off Stream	Off Stream	1500	•Target date of DPR preparation-03/25 •Date of MOA-25.01.2022
11	Gujjili	NREDCAP	Alluri Sitharama Raju	Off Stream	Off Stream	1500	•Target date of DPR preparation-03/25 •Date of MOA-25.01.2022

12	Raiwada	Adani Green Energy Ltd.	Anakapalle	on a tabletop hill across a minor rivulet draining into a nallah	across Sarada river	850	•Target date of DPR preparation-01/24 •Date of MOA-23.05.2022
13	Chittamvalasa	NREDCAP	Alluri Sitarama Raju	Off Stream	Off Stream	800	•Target date of DPR preparation-08/24
14	Yaganti	APGENCO	Nandyal	Minor rivulet	Minor rivulet	1000	•Target date of DPR preparation-08/24 •Date of MOA- 23.08.2023
15	Kamalapadu	APGENCO	Ananthapuramu	Off Stream	Off Stream	950	•Target date of DPR preparation-08/24 •Date of MOA- 23.08.2023
16	Aravetipalli	APSPCL	YSR	Off Stream	Off Stream	1320	•Target date of DPR preparation-08/24
<b>16</b>	<b>Total</b>					<b>17120</b>	

**c. PSP Concurred**

S.No.	SCHEMES	Agency	District	River		I.C. (MW)	Remarks
				Upper Reservoir	Lower Reservoir		
1	Upper Sileru	APGENCO	Vishakhapatnam	Guntawada reservoir	Donkarayi reservoir	1350	EC & FC yet to be obtained by developer.
<b>1</b>	<b>Total</b>					<b>1350</b>	

**d. PSP under S&I Held Up**

S.No.	SCHEMES	Agency	District	River		I.C. (MW)	Remarks
				Upper Reservoir	Lower Reservoir		
1	Kurukutti	Adani Green Energy Ltd.	Vizianagaram	Minor nallah draining into Boduru Gedda river	Boduru Gedda river	1200	•Project site (partly) falls within the disputed boundary between Govt. of Andhra Pradesh and Govt. of Odisha. Drilling Held up.
2	Karrivalasa	Adani Green Energy Ltd.	Vizianagaram	Minor nallah draining into Boduru Gedda river	Boduru Gedda river	1000	•Project site (partly) falls within the disputed boundary between Govt. of Andhra Pradesh and Govt. of Odisha. Drilling Held up.
<b>2</b>	<b>Total</b>					<b>2200</b>	

## Summary of Large Hydro Power Development in Telangana

### I. Conventional Projects

		Nos.	Capacity (MW)
Exploitable Large Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		8	1302.00
<b>Breakup of Hydro Power Potential (2017-23 Study)</b>			
<b>A</b>	Projects in operation	6	800
<b>B</b>	Projects returned to project authorities	1	320
<b>C</b>	Balance Capacity*	1	240

\*Balance Capacity is different from arithmetic calculation from the potential accessed due to change in capacity of the Projects, addition/deletion of the projects and merger of two projects into one etc.

### II. Pumped Storage Projects

		Nos.	Capacity (MW)
Exploitable Large Hydro Power Potential from Pump Storage Projects		2	1605.6
<b>Breakup of Hydro Power Potential from Pumped Storage Projects</b>			
<b>a</b>	In Operation	2	1605.6

## I. Conventional Projects

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### Details of Exploitable Large Hydro Power Projects

Sl.No.	Name of Project	River	Type	I.C. (MW)
1	Pochampad	Godavari	S	36
2	Dummugudem	Godavari	R	262
3	Tupakulagudem	Godavari	S	240
4	Priyadarshini Jurala	Krishna	R (P)	234
5	Lower Jurala	Krishna	R (P)	240
6	Nagarjunasagar (Nagarjunasagar Dam PH)	Krishna	S	110
7	Nagarjunasagar LBC	Krishna	R	60
8	Pulichintala	Krishna	R (P)	120
<b>8</b>	<b>Total</b>			<b>1302</b>

**A. H.E. Projects in Operation:**

S. No.	Utility/ Stations	No. of Stns.	No. of units x Capacity (MW)	River / Basin*	District	I.C. (MW)	Type (R/S/R(P))	Year of commissioning
<b>TSGENCO</b>								
1	PRIYADARSHNI JURALA	1	(6X39)	KRISHNA	MAHABOOB NAGAR	234	R(P)	2008-2011
2	POCHAMPAD	1	(4X9)	GODAVARI	NIZAMABAD	36	S	1987-1988, 2010
3	NAGARJUNA SGR	1	(1X110)	KRISHNA	NALGONDA	110	S	1978-85
4	NAGARJUNA SGR LBC	1	(2X30)	KRISHNA	GUNTUR	60	R	1983
5	LOWER JURALA	1	(6X40)	KRISHNA	WANPARTHY	240	R(P)	2015-16
6	PULINCHINTHALA	1	(4X30)	KRISHNA	SURAPETA	120	R(P)	2016-17
<b>6</b>	<b>TOTAL TSGENCO</b>	<b>6</b>				<b>800</b>		

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

**B. H.E. Projects Returned to project Authorities:**

Sl. No.	Name of Project	Agency	Month of Return	I.C. (MW)	Reason for Return
1	Dummugudem	APGENCO	Mar-06	320	Returned due to non-replying of various comments such as hydro planning, cost of E&M works, hydel civil Engineering, geological aspects etc.
<b>1</b>	<b>Total</b>			320	

**C. Balance Capacity**

Sl.No.	Name of Project	River	District	I.C.(MW)	Type
1	Tupakulagudem	Godavari	Mulugu	240	S

## II. Pumped Storage Projects

### Exploitable Large Hydro Power Potential from Pumped Storage Projects

S.No.	Name	District	I.C. (MW)
1	Nagarjuna Sagar	Karnool	705.60
2	Srisaillam LBPH	Nalgonda	900
2	<b>Total</b>		<b>1605.6</b>

#### a. PSP in Operation

S.No.	SCHEMES	Agency	District	River	I.C. (MW)	Remarks
1	Nagarjuna Sagar	TSGENCO	Karnool	Krishna	705.60	
2	Srisaillam LBPH	TSGENCO	Nalgonda	Krishna	900	
2	<b>Total</b>				<b>1605.6</b>	

## Summary of Large Hydro Power Development in Karnataka

### I. Conventional Projects

		Nos.	I.C. (MW)
Exploitable Large Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		20	4414.4
<b>Breakup of Hydro Power Potential (2017-23 Study)</b>			
<b>A</b>	Projects in operation	16	3689.2
<b>B</b>	Projects returned to project authorities	2	665
<b>C</b>	Balance Capacity*	4	747

\*Balance Capacity is different from arithmetic calculation from the potential accessed due to change in capacity of the Projects, addition/deletion of the projects and merger of two projects into one etc.

### II. Pumped Storage Projects

		Nos.	I.C. (MW)
Exploitable Large Hydro Power Potential from Pumped Storage Projects		<b>5</b>	<b>6900</b>
<b>Breakup of Hydro Power Potential from Pumped Storage Projects</b>			
<b>a</b>	Under S&I	<b>3</b>	<b>3900</b>
<b>b</b>	Balance	<b>2</b>	<b>3000.00</b>

## I. Conventional Projects

### Details of Exploitable Large Hydro Power Projects

Sl.No.	Name of Project	River	Type	I. C. (MW)
1	Almatti	Krishna	S	290
2	Ghatprabha	Ghataprabha	S	32
3	Bhadra (Bhadra Dam PH)	Bhadra	S	39.2
4	Munirabad	Tungbhadra	S	38
5	Hampi	Tungbhadra	S	36
6	T B Dam (Tungbhadra RBC)	Tungbhadra	S	36
7	Shivasamudram	Cauvery	R (P)	42
8	Kalinadi Supa	Kali	S	100
9	Kalinadi (Nagjhari)	Kali	S	855
10	Kodasalli (Kalinadi I (Kadassali))	Kali	S	120
11	Kadra Kalinadi I(Kadra)	Kali	S	150
12	Gangavali St.II (Gangavali (Sonda ) St.II)	Gangavali	R	600
13	Linganamakki	Sharavathy	S	55
14	Mahatma Gandhi Jog	Sharavathy	S	139.2
15	Sharavathy ( Sharavathi )	Sharavathy	S	1035
16	Gerusoppa (Sharavathy Tail Race)	Sharavathy	R (P)	240
17	Varahi	Varahi	R (P)	460
18	Netravathy	Netravathy	S	41
19	Sirpadi	Netravathy	R	36
20	Kumaradhari	Kumaradhari	S	70
<b>20</b>	<b>TOTAL</b>			<b>4414.4</b>

**A. H.E. Projects in Operation:**

S. No.	Utility/ Stations	No. of Stns.	No. Of units x capacity (MW)	River	Basin	District	I.C. (MW)	Type (R/S/R(P))	Year of commissioning
<b>KPCL</b>									
1	ALMATTI	1	(5X55) +(1X15)	KRISHNA	EFR	BIJAPUR	290	S	2004-2005
2	GERUSOPPA (SHARAVATHY TAIL RACE)	1	(4X60)	SHARAVATHY	WFR	UTTARA KANNADA	240	R(P)	2001-2002
3	GHAT PRABHA	1	(2X16)	GHATPRABHA	EFR	BELGAUM	32	S	1992
4	MAHATMA GANDHI JOG	1	(4X21.6) +(4X13.2)	SHARAVATHY	WFR	SHIMOGA	139.2	S	1949-1952
5	KADRA	1	(3X50)	KALI	WFR	UTTARA KANNADA	150	S	1997-1999
6	KALINADI (NAGJHARI)	1	6x 150	KALI	WFR	UTTARA KANNADA	900	S	1979-1984
7	KALINADI SUPA	1	(2X50)	KALI	WFR	UTTARA KANNADA	100	S	1985
8	KODASALI	1	(3X40)	KALI	WFR	UTTARA KANNADA	120	S	1998-1999
9	LINGNAMAKKI	1	(2X27.5)	SHARAVATHY	WFR	SHIMOGA	55	S	1979-1980
10	MUNIRABAD	1	(2X9) +(1X10)	TUNGABHADRA	EFR	KOPPAL	28	S	1962-1965
11	SHARAVATHY	1	(10X103.5)	SHARAVATHY	WFR	SHIMOGA	1035	S	1965-1977
12	SIVASAMUNDRU M	1	(4X6)+(6X3)	CAUVERY	EFR	MANDYA	42	R(P)	1922-1934
13	VARAHI	1	(4X115)	VARAHI	WFR	UDUPI	460	R(P)	1989-2009
14	BHADRA	1	(2x12)+(1x2)	BHADRA	EFR	CHICKMAGALUR	26	S	1965
	<b>TOTAL KPCL</b>	<b>14</b>					<b>3617.2</b>		
<b>APGENCO</b>									
15	T B DAM *	1	(4X9)	TUNGABHADRA	EFR	BELLARI	36	S	1957-1964
16	HAMPI *	1	(4X9)	TUNGABHADRA	EFR	BELLARI	36	S	1958-1964
	<b>SUB-TOTAL APGENCO</b>	<b>2</b>					<b>72</b>		
<b>16</b>	<b>TOTAL KARNATAKA</b>	<b>16</b>					<b>3689.2</b>		

\* Utilities are in Andhra Pradesh

Note: R= Run of River, S=Storage &amp; R(P)= Run of River with Pondage

**B. Hydro Projects Returned to Project Authorities for re-submission after compliance of observations:**

Sl. No.	Name of Project	Agency	I.C. (MW)	Reason of Return
1	Sivasamudram	KPCL	345	Presentation meeting held on 16.5.2012 as it involves interstate issues; DPR could not be processed and returned the same for resubmission after resolution of interstate aspects.
2	Mahadayi	KPCL	320	Returned due to non-tie up of inputs/clearances, the project involves interstate aspects.
<b>2</b>	<b>Total</b>		<b>665</b>	

**C. Balance Capacity**

Sl.No.	Name of Project	District	I.C. (MW)	Type	River
1	Netravathy	Dakshina Kannada	41	S	Netravathy
2	Sirpadi	Dakshina Kannada	36	R	Netravathy
3	Kumaradhari	Dakshina Kannada	70	S	Kumaradhari
4	Gangavali St.II (Gangavali (Sonda ) St.II)	Uttara Kannada	600	R	Gangavali
<b>4</b>	<b>Total</b>		<b>747</b>		

Note: R –Run of the River &amp; S- Storage

## II. Pumped Storage

### Exploitable Large Hydro Power Potential from Pumped Storage Projets

Sl. No.	Name of project	District	I.C. (MW)
1	Varahi	Dakshina Kannada	1500
2	Sharavathy	Shimoga & Uttara Kannada	2000
3	Saundatti	Belgavi	1600
4	Netravathy Stage I	Hasan	1500
5	Narihalla	Bellary	300
5	<b>TOTAL</b>		<b>6900</b>

#### a. PSP Under S&I

Sl. No	Name of Project	District	Agency	River		I.C. (MW)	Remarks
				Upper reservoir	Lower Reservoir		
1	Sharavathy	Shimoga & Uttara Kannada	KPCL	Upper Reservoir is on Existing Talakalale reservoir	Lower Reservoir is on Existing Gerusappa reservoir	2000.00	•Target date of DPR preparation-12/24 •Date of MoA-07.12.2017
2	Narihalla	Bellary	JSW Energy	Upper Reservoir is proposed on minor rivulet draining into Narihalla Reservoir	Lower Reservoir- Narihalla Reservoir existing on Narihalla River	300	• Target date of DPR preparation- 03/24 •Date of MOA-28.11.2022
3	Saundatti	Belgavi	Greenko	Upper Reservoir is proposed Off Stream	Lower Reservoir is on RenukaSagar which is existing on Malaprabha river	1600	•Target date for preparation of DPR – 11/23 •Date of MOA-12.03.18. Revised approval on 27.02.19
3	<b>TOTAL</b>					<b>3900.00</b>	

#### b. Balance Capacity

Sl. No	Name of Project	District	Agency	River		I.C. (MW)	Remarks
				Upper reservoir	Lower Reservoir		
1	Varahi	Dakshina Kannada	Govt. of Karnataka allotted to KPCL	Varahi		1500.00	•Indicated by MoP and allotted by Govt. of Karnataka to KPCL •Existing Varahi pick-up Dam as upstream reservoir. •Lower reservoir to be constructed.
2	Netravathy Stage I	Hasan	Yet to be allotted by the State for development	Kaginahare	Kempohle	1500	•Indicated by MoP to NTPC •PFR prepared
2	<b>TOTAL</b>					<b>3000.00</b>	

## Summary of Large Hydro Power Development in Kerala

### I. Conventional Projects

		Nos.	I.C. (MW)
Exploitable Large Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		23	2472.75
<b>Breakup of Hydro Power Potential (2017-23 Study)</b>			
<b>A</b>	Projects in operation	14	2048.5
<b>B</b>	Projects under active construction	3	140
<b>C</b>	Projects under S&I	1	800
<b>D</b>	Balance Capacity*	6	419

\*Balance Capacity is different from arithmetic calculation from the potential accessed due to change in capacity of the Projects, addition/deletion of the projects and merger of two projects into one etc.

### II. Pumped Storage Projects

		Nos.	I.C. (MW)
Exploitable Large Hydro Power Potential from Pumped Storage Projects		2	<b>1200</b>
<b>Breakup of Hydro Power Potential from Pumped Storage Projects</b>			
<b>a</b>	Balance	2	<b>1200.00</b>

## I. Conventional Projects

### Details of Exploitable Large Hydro Power Projects

Sl.No.	Name of Project	River	Type	I.C. (MW)
1	Kuttiyadi (Kuttiyadi)	Kuttiyadi	S	75
2	Kuttiyadi Extension (Kuttiyadi)	Kuttiyadi	S	50
3	Kuttiyadi Addl. Extension (Kuttiyadi)	Kuttiyadi	S	100
4	Chalipuzha	Baypore	S	80
5	Idukki (Idukki I&II & Idukki III)	Periyar	S	780
6	Lower Periyar	Periyar	R(P)	180
7	Pallivasal (Pallivasal Replacement)	Muthirapuzha	S	37.5
8	Pallivasal Extension	Muthripuzha	R	60
9	Thottiyar	Thottiyar	R	40
10	Sengulam	Periyar (Muthripuzha)	S	51.2
11	Panniar	Panniar	S	32.4
12	Neriamangalam	Muthripuzha	S	52.65
13	Manali	Idamalayar	S	26
14	Kudal	Idamalayar	S	56
15	Idamalayar	Idamalyar	S	75
16	Sholaiyar	Sholayar	S	54
17	Poringalkuthu (Proringalkuthu (L.B.))	Chalakydy	S	36
18	Athirapilly (Adirapally)	Chalakydy	R	163
19	Sabarigiri	Pamba	S	340
20	Kakkad	Pamba	R (P)	50
21	Lower Sabarigiri	Pamba	S	68
22	Twin-Kallar (Twin Kallar Multipurpose)	Achankovil	S	26
23	Mankulam	Velacherry Ar	S	40
<b>23</b>	<b>Total</b>			<b>2472.75</b>

**A. Hydro Electric Projects in Operation:**

S. No.	Utility/Stations	I.C. (MW)	No. of units x Capacity (MW)	River	District	Type (R/S/R(P))	Year of commissioning
<b>KSEB</b>							
1	IDAMALAYAR	75	(2X37.5)	IDAMALAYAR	ERNAKULAM	S	1987
2	IDUKKI	780	(6X130)	PERIYAR	IDUKKI	S	1976-1986
3	KAKKAD	50	(2X25)	PAMBA	PATHANAMTHITTA	R(P)	1999
4	KUTTIYADI	75	(3X25)	KUTTIYADI	KOZHIKODE	S	1972
5	KUTTIYADI EXTN.	50	(1X50)	KUTTIYADI	KOZHIKODE	S	2001
6	KUTTIYADI ADDN EXTN	100	(2X50)	KUTTIYADI	KOZHIKODE	S	2010
7	LOWER PERIYAR	180	(3X60)	PERIYAR	IDUKKI	R(P)	1997
8	NERIAMANGLAM	237	(3X17.55)	MUTHIRAPUZHA	IDUKKI	S	1961-63
9	PALLIVASAL	37.5	(3X5) +(3X7.5)	MUTHIRAPUZHA	IDUKKI	S	1948-2001
10	PANNIAR	30	(2X15)	PANNIAR	IDUKKI	S	1963-2001
11	PORINGALKUTTU	32	(4X8)	CHALAKUDY	COIMBATORE	S	1957-1960
12	SABARIGIRI	300	(6X50)	PAMBA	PATHANAMTHITTA	S	1960-1967
13	SENGULAM	48	(4X12)	MUTHIRAPUZHA	IDUKKI	S	1954-2001
14	SHOLAYAR	54	(3X18)	SHOLAYAR	COIMBATORE	S	1956-1968
<b>14</b>	<b>TOTAL</b>	<b>2048.5</b>					

**B. H.E. Schemes under active Construction:**

Sl. No.	Name of Project	I.C. (MW)	Type (R/S/R(P))	River	District	Agency	Likely Commissioning
1	Pallivasal Extension	60	R	Mudirapuzha/WFR	Idukki	KSEB	2023-24 (Jun'23)
2	Thottiyar	40	R	Thottiyar/ WFR	Idukki	KSEB	2022-24 (Jun'23)*
3	Mankulam	40	S	Melachery	Idukki	KSEB	2026-27 (May'26)
<b>3</b>	<b>Total</b>	<b>140</b>					

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

\* 1 unit (10 MW) likely during 2022-23 & 1 unit (30 MW) during 2023-24

**C. H.E. Projects under Survey & Investigation:**

Sl. No.	Name of Project	River	I.C. (MW)	Agency	District	Type (R/S/R(P))	Target date of preparation of DPR
1	Idukki Extension Scheme	Periyar	800	KSEB	Idukki	S	03/24
<b>1</b>	<b>TOTAL</b>		<b>800</b>				

**D. Balance Capacity**

Sl. No.	Name of Project	River	I.C. (MW)	District	Type
1	Chalipuzha	Baypore	80	Wayanad	S
2	Manali	Idamlayar	26	Idukki	S
3	Kudal	Idamlayar	56	Ernakulam	S
4	Lower Sabarigiri	Pamba	68	Pathanamthitta	S
5	Twin-Kallar	Achankovil/Kallar	26	Pathanamthitta	S
6	Athirapilly	Chalakydy	163	Thrissur	R
<b>6</b>	<b>Total</b>		<b>419</b>		

**II. Pumped Storage****Exploitable Large Hydro Power Potential from Pumped Storage Projects**

Sl. No.	Name of project	District	I.C. (MW)
1	Idukki	Idukki	600
2	Pallivasal	Idukki	600
<b>2</b>	<b>TOTAL</b>		<b>1200</b>

**a. Balance Capacity**

Sl. No	Name of Project	River	I.C. (MW)	Agency	District	Remarks
1	Idukki	Periyar/cheruthoni/Ki lli Valli Thodu	600	Yet to be allotted by the State for development	Idukki	Indicated by MoP to THDCIL Existing Idukki reservoir.
2	Pallivasal	Mudirapuzha	600	Yet to be allotted by the State for development	Idukki	Indicated by MoP to THDCIL Existing Palliavsal reservoir.
<b>2</b>	<b>TOTAL</b>		<b>1200.00</b>			

## Summary of Large Hydro Power Development in Tamil Nadu

### I. Conventional Projects

		Nos.	I.C. (MW)
Exploitable Large Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		26	1785.20
<b>Breakup of Hydro Power Potential (2017-23 Study)</b>			
<b>A</b>	Projects In Operation	26	1778.2

### II. Pumped Storage Projects

		Nos.	I.C. (MW)
Exploitable Large Hydro Power Potential from Pumped Storage Projects		17	15400
<b>Breakup of Hydro Power Potential from Pumped Storage Projects</b>			
<b>a</b>	In Operation	1	400
<b>b</b>	Under S&I	1	1000
<b>c</b>	Under S&I Held Up	1	1500
<b>d</b>	Under Active Construction	1	500
<b>e</b>	Balance Capacity	13	12000

## I. Conventional Projects

### Details of Exploitable Large Hydro Power Projects

S.no	Name	River	Type	I.C. (MW)
1	Aliyar (Upper Aliyar)	Bharatapuzha/Aliyar	S	60
2	Sarkarpathy (Sarkarpathi)	Parabikulam	R (P)	30
3	Sholayar I	Sholayar	S	70
4	Periyar (Periyar Lake)	Periyar	S	168
5	Kodayar I	Kodayar	S	60
6	Kodayar II	Kodayar	S	40
7	Kundah-I (Avalanche Em'ld(Kundah-I))	Avalanche Stream	S	60
8	Bhavani Kattalai Barrage -I	Cauvery	R (P)	30
9	Bhavani Kattalai Barrage -II	Cauvery	R (P)	30
10	Bhavani Kattalai Barrage -III	Cauvery	R (P)	30
11	Kundah-II (Kundapallam (Kundah-II))	Kundah	S	175
12	Lower Mettur-I (Lower Mettur)	Cauvery	R (P)	30
13	Lower Mettur-II (Lower Mettur)	Cauvery	R (P)	30
14	Lower Mettur-III (Lower Mettur)	Cauvery	R (P)	30
15	Lower Mettur-IV (Lower Mettur)	Cauvery	R (P)	30
16	Mettur Dam	Cauvery	S	50
17	Mettur Tunnel	Cauvery	S	200
18	Moyar	Moyar	S	36
19	Parson's valley	Bhavani	S	30
20	Kundah-III (Pengumbahalla (Kundah-III))	Pegumbahallah	S	180
21	Kundah-IV	Bhavani	S	100
22	Pykara (Pykara (Singara))	Pykara	S	59.2
23	Pykara Ultimate	Pykara	S	150
24	Kundah-V	Bhavani	S	40
25	Papanasam	Thamirabarani	S	32
26	Suruliyar	Ervalangar	S	35
<b>26</b>	<b>Total</b>			<b>1785.2</b>

**A. H.E. Projects in Operation:**

S. No.	Utility/ Stations	No. Of stns.	No. of units x Capacity (MW)	River	Basin	District	I.C. (MW)	Type (R/S/R(P))	Year of commissioning
<b>TANGEDCO</b>									
1	ALIYAR	1	(1X60)	Aliyar	WFR	COIMBATORE	60	S	1970
2	BHAVANI KATTALAI BARRAGE-I	1	(2X15)	CAUVERY	EFR	ERODE	30	R(P)	2006
3	BHAVANI KATTALAI BARRAGE-II	1	(2X15)	CAUVERY	EFR	ERODE	30	R(P)	2013
4	BHAVANI KATTALAI BARRAGE-III	1	(2X15)	CAUVERY	EFR	ERODE	30	R(P)	2012
5	KODAYAR-I	1	(1X60)	KODAYAR	WFR	KANYAKUMARI	60	S	1970
6	KODAYAR-II	1	(1X40)	KODAYAR	WFR	KANYAKUMARI	40	S	1971
7	KUNDAH-I	1	(3X20)	AVLANCHE STREAM	EFR	NILGRIS	60	S	1960-1964
8	KUNDAH-II	1	(5X35)	KUNDAH	EFR	NILGRIS	175	S	1960-1965
9	KUNDAH-III	1	(3X60)	PENGUNBAHAL LAH	EFR	COIMBATORE	180	S	1965-1978
10	KUNDAH-IV	1	(2X50)	BHAVANI	EFR	COIMBATORE	100	S	1966-1978
11	KUNDAH-V	1	(2X20)	BHAVANI	EFR	NILGRIS	40	S	1964-1988
12	LOWER METTUR-I	1	(2X15)	CAUVERY	EFR	SALEM	30	R(P)	1988
13	LOWER METTUR-II	1	(2X15)	CAUVERY	EFR	SALEM	30	R(P)	1988
14	LOWER METTUR-III	1	(2X15)	CAUVERY	EFR	SALEM	30	R(P)	1987-1988
15	LOWER METTUR-IV	1	(2X15)	CAUVERY	EFR	SALEM	30	R(P)	1988-1999
16	METTUR DAM	1	(4X12.5)	CAUVERY	EFR	SALEM	50	S	1937-1946
17	METTUR TUNNEL	1	(4X50)	CAUVERY	EFR	SALEM	200	S	1965-1966
18	MOYAR	1	(3X12)	MOYAR	EFR	NILGRIS	36	S	1952-1953
19	PAPANASAM	1	(4X8)	THAMBRAPAR ANI	EFR	TIRUNELVELI	32	S	1944-1951
20	PARSON'S VALLEY	1	(1X30)	BHAVANI	EFR	NILGIRIS	30	S	2000
21	PERIYAR	1	(3X42)+ (1X35)	PERIYAR	WFR	IDUKKI	161	S	1958-1965
22	PYKARA	1	(3X7)+ (2X13.6)+ (1X11)	PYKARA	EFR	NILGRIS	59.2	S	1932-2005
23	PYKARA ULTMATE	1	(3X50)	PYKARA	EFR	NILGRIS	150	S	2005
24	SARKARPATHY	1	(1X30)	PARABIKULAM	WFR	KOZHICODE	30	R(P)	1966
25	SHOLAYAR I	1	(2X35)	SHOLAYAR	WFR	COIMBATORE	70	S	1971
26	SURULIYAR	1	(1X35)	ERAVANGALAR	EFR	TIRUNELVELI	35	S	1978
<b>26</b>	<b>TOTAL</b>	<b>26</b>					<b>1778.2</b>		

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

## II. Pumped Storage

## Exploitable Large Hydro Power Potential from Pumped Storage Projets

Sl. No.	Name of project	I.C. (MW)	District
1	Sillahalla St.-I	1000	Nilgiri
2	Kundah Pumped Storage (Stage I,II,III&IV)	500	Nilgiri
3	Kadamparai	400	Coimbatore
4	Kodayar	1500	Kanyakumari
5	Sandynalla	1200	Nilgiris
6	Upper Bhavani	1000	Nilgiris
7	Sigur	800	Nilgiris
8	Manalar	1200	Theni
9	Chattar	1100	kanyakumari
10	Karayar	1000	Tirunelveli District
11	Aliyar	700	Coimbatore
12	Palar-Porathalar	1100	Dindigul
13	Athur	300	Dindigul
14	Manjalar	500	Theni
15	Mettur	1000	Erode
16	Velimalai	1100	Kanyakumari
17	Sillahalla Stage-II	1000	Nilgiris & Coimbtore
17	<b>TOTAL</b>	<b>15400</b>	

## a. PSP In Operation

Sl. No	Name of Project	River	I.C. (MW)	Agency	District	Remarks
1	Kadamparai	Kadamparai	400	TANGEDCO	Coimbatore	*Status-In Operation
1	<b>TOTAL</b>		<b>400</b>			

## b. PSP Under S&amp;I

Sl. No	Name of Project	River	I.C. (MW)	Agency	District	Remarks
1	Sillahalla St.-I	Sillahalla	1000	TANGEDCO	Nilgiri	*Date of MOA-23.01.2019 *Target date of DPR Preparation-02/24
1	<b>TOTAL</b>		<b>1000</b>			

## c. PSP Under S&amp;I Held Up

Sl. No	Name of Project	River		I.C. (MW)	Agency	District	Remarks
		Upper Reservoir	Lower Reservoir				
1	Kodayar	Kodayar reservoir-existing	PWD's Pechiparai reservoir-existing	1500	TANGEDCO	Kanyakumari	Pre-DPR Chapters returned after there is no progress in the S&I activities by the developer
1	<b>TOTAL</b>			<b>1500</b>			

## c. PSP Under Active Construction

Sl. No	Name of Project	River	I.C. (MW)	Agency	District	Remarks
1	Kundah Pumped Storage (Stage I,II,III&IV)	Bhawani	500	TANGEDCO	Nilgiri	Likely to be Commissioned by 2024-2025(Oct24)
1	<b>TOTAL</b>		<b>500</b>			

## c. Balance Capacity

Sl. No	Name of Project	River		I.C. (MW)	Agency	District	Remarks
		Upper Reservoir	Lower Reservoir				
1	Sandynalla	Kundah	Kundah	1200	Indicated by MoP to NTPC	Nilgiris	Yet to be allotted by the State for development
2	Upper Bhavani	Bhavani	Kundah	1000	Indicated by MoP to NTPC	Nilgiris	Yet to be allotted by the State for development
3	Sigur	Sigur	Sigur	800	Indicated by MoP to NTPC	Nilgiris	Yet to be allotted by the State for development
4	Manalar	Existing Manalar Reservoir	Proposed	1200	TANGEDCO along with Tractbel Pvt Ltd	Theni	Feasibility report prepared
5	Chattar	Chattar Nallah	Kodayar	1100	TANGEDCO along with TATA Consultancy energy Pvt Ltd	Kanyakumari	PFR prepared
6	Karayar	Manpidi Ar	Thamirabarani	1000	TANGEDCO along with TATA Consultancy energy Pvt Ltd	Tirunelveli District	PFR prepared
7	Aliyar	Aliyar River		700	PFR prepared by TANGEDCO	Coimbatore	PFR prepared
8	Palar-Porathalar	Poranthalar	Palar & Poranthalar	1100	TANGEDCO along with TATA Consultancy energy Pvt Ltd	Dindigul	PFR prepared
9	Athur	Kodaganar	Kodaganar	300	TANGEDCO along with TATA Consultancy energy Pvt Ltd	Dindigul	PFR prepared
10	Manjalar	Iruttar River	Manjalar	500	TANGEDCO along with TATA Consultancy energy Pvt Ltd	Theni	PFR prepared
11	Mettur	Palar	Periya Pallam	1000	TANGEDCO along with TATA Consultancy energy Pvt Ltd	Erode	PFR prepared
12	Velimalai	Palayar / Pazhayar	Valliyar	1100	TANGEDCO along with TATA Consultancy energy Pvt Ltd	Kanyakumari	PFR Prepared
13	Sillahalla Stage-II	New Reservoir Lat 11°16'47.79" N Long 76°47'51.85" E	Bhavani	1000	Indicated by MoP to NTPC	Nilgiris & Coimbtore	Yet to be allotted by the State for development
13	<b>TOTAL</b>			<b>12000</b>			

## Summary of Large Hydro Power Development in Jharkhand

### I. Conventional Projects

		Nos.	I.C. (MW)
Exploitable Large Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		4	300
<b>Breakup of Hydro Power Potential (2017-23 Study)</b>			
<b>A</b>	Projects in operation	3	210
<b>B</b>	Balance Capacity	1	90

### II. Pumped Storage Projects

		Nos.	I.C. (MW)
Exploitable Large Hydro Power Potential from Pumped Storage Projects		1	1500
<b>Breakup of Hydro Power Potential from Pumped Storage Projects</b>			
<b>a</b>	Under S&I	1	1500

## I. Conventional Projects

### Details of Exploitable Large Hydro Power Projects

Sl.No.	Name of Project	River	Type	I. C. (MW)
1	Subernarekha-I	Subernarekha	S	65
2	Subernarekha-II	Subernarekha	R(P)	65
3	Lower Sankh	Sankh	S	90
4	Panchet (Panchet Hill)	Damodar	S	80
<b>4</b>	<b>TOTAL</b>			<b>300</b>

**A. H.E. Projects in Operation:**

S. NO.	UTILITY / STATIONS	RIVER	Type (R/S/R(P))	I.C. (MW)	DISTRICT	NO. OF UNITS X CAPACITY (MW)	YEAR OF COMMISSIONING
<b>DVC</b>							
1	PANCHET	DAMODAR	S	80	DHANBAD	(2X40)	1990
<b>SUB-TOTAL DVC</b>				80			
<b>JUUNL</b>							
1	SUBERNREKHA -I	SUBERNAREKHA	S	65	RANCHI	(1X65)	1977
2	SUBERNREKHA -II	SUBERNAREKHA	R(P)	65	RANCHI	(1X65)	1980
<b>TOTAL JUUNL</b>				130			
3	<b>TOTAL JHARKHAND</b>			210			

**B. Balance Capacity**

Sl. No.	Name of Project	River	Type	I.C. (MW)	District
1	Lower Sankh	Sankh	S	90	Simdega
1	<b>Total</b>			90	

Note: R= Run of River, S=Storage &amp; R(P)= Run of River with Pondage

**II. Pumped Storage****Exploitable Large Hydro Power Potential from Pumped Storage Projets**

Sl. No.	Name of project	I.C. (MW)	District
1	Lugupahar	1500	Bokaro
1	<b>TOTAL</b>	1500	

**a. PSP Under S&I**

Sl. No	Name of Project	River		I.C. (MW)	Agency	District	Remarks
		Upper Reservoir	Lower Reservoir				
1	Lugupahar	Kairo Jharna Nala	across Bokaro River	1500	DVC	Bokaro	•Target date of DPR Preparation-12/24
1	<b>TOTAL</b>			1500			

## Summary of Large Hydro Power Development in Bihar

### I. Conventional Projects

		Nos.	I.C. (MW)
Exploitable Large Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		1	130.1
<b>Breakup of Hydro Power Potential (2017-23 Study)</b>			
A	Projects returned to project authorities	1	130.1

### I. Conventional Projects

#### Details of Exploitable Large Hydro Power Projects

S.No.	Name	River	IC	Type
1	Dagmara	Kosi	130.1	R
1	<b>Total</b>		<b>130.1</b>	

#### A. H.E. Projects Returned to Project Authorities for re-submission after compliance of observations:

Sl.No	Name of Project	River	I.C. (MW)	Date of returned
1	Dagmara	Kosi	130.1	22-Jan
	<b>Total</b>		<b>130.1</b>	

## Summary of Large Hydro Power Development in Odisha

### I. Conventional Projects

		Nos.	I.C. (MW)
Exploitable Large Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		13	2824.50
<b>Breakup of Hydro Power Potential (2017-23 Study)</b>			
<b>A</b>	Projects In Operation	7	2039.8
<b>B</b>	Balance Capacity*	6	677
*Balance Capacity is different from arithmetic calculation from the potential accessed due to change in capacity of the Projects, addition/deletion of the projects and merger of two projects into one etc.			

### II. Pumped Storage Projects

		Nos.	I.C. (MW)
Exploitable Large Hydro Power Potential from Pumped Storage Projects		3	1420
<b>Breakup of Hydro Power Potential from Pumped Storage Projects</b>			
<b>a</b>	Under S&I	3	1420

**I. Conventional Projects****Details of Exploitable large Hydro Power Projects**

Sl.No.	Name of Project	River	Type	I.C. (MW)
1	Bhimkund	Baitarni	S	30
2	Baljori	Baitarni	S	230
3	Lodani	Brahmani	S	64
4	Rengali	Brahmani	S	250
5	Tikarpara	Mahanadi	S	220
6	Hirakud (Burla)	Mahanadi	S	275.5
7	Hirakud (Chiplima)	Mahanadi	R (P)	72
8	Salki	Salki	S	70
9	Kharag	Kharag	R	63
10	Upper Indravati	Indravati	S	600
11	Upper Kolab	Kolab	S	320
12	Machkund	Machkund	S	120
13	Balimela	Sileru	S	510
<b>13</b>	<b>Total</b>			<b>2824.5</b>

**A. H.E. Projects in Operation:**

S. NO.	UTILITY/ STATIONS	NO. OF STNS.	NO. OF UNITS X CAPACITY (MW)	RIVER	DISTRICT	I.C. (MW)	Type (R/S/R(P))	YEAR OF COMMISSIONING
<b>OHPC</b>								
1	BALIMELA	1	(6X60)+ (2X75)	SILERU	MALKANGIRI	510	S	1973-1977, 2008
2	HIRAKUD (BURLA)	1	(2X43.65)+ (1X37.5)+(2X49.5) +(2X32)	MAHANADI	SAMBALPUR	287.8	S	1956-1990
3	HIRAKUD (CHIPLIMA)	1	(3X24)	MAHANADI	SAMBALPUR	72	R(P)	1962-1964
4	RENGALI	1	(5X50)	BRAHMANI	ANGUL	250	S	1985-1992
5	UPPER INDRAVATI	1	(4X150)	INDRAVATI	KALAHANDI	600	S	1999-2001
6	UPPER KOLAB	1	(4X80)	KOLAB	KORAPUT	320	S	1988-1993
	<b>TOTAL OHPC</b>	<b>6</b>				<b>2039.8</b>		
<b>APGENCO</b>								
1	MACHKUND	1	(3X17)+ (3X21.25)	MACHKUND	KORAPUT	114.75	S	1959
	<b>SUB-TOTAL APGENCO</b>	<b>1</b>						
<b>7</b>	<b>TOTAL ODISHA</b>	<b>7</b>				<b>2039.8</b>		

Note: Hirakud (Burla & Chiplima) and Rengali are in CIR basin & others are in EFR Basin.

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

**B. Balance Capacity**

Sl.No.	Name of Project	River	Type	I.C. (MW)	District	Remarks
1	Bhinkund	Baitarni	S	30	Keonjhar	
2	Baljori	Baitarni	S	230	Keonjhar	
3	Lodani	Brahmani	S	64	Sundergarh	
4	Tikkarpara	Mahanadi	S	220	Angul	
5	Salki	Salki	S	70	Boudh	<ul style="list-style-type: none"> <li>Initially allotted to OHPCL</li> <li>Project was shifted to S&amp;I held up as no progress in the S&amp;I activities of project reported by developer.</li> </ul>
6	Kharag	Kharag	R	63	Kandhmal	<ul style="list-style-type: none"> <li>Initially allotted to OHPCL</li> <li>Project was shifted to S&amp;I held up as no progress in the S&amp;I activities of project reported by developer.</li> </ul>
<b>6</b>	<b>Total</b>			<b>677</b>		

**II. Pumped Storage****Exploitable Large Hydro Power Potential from Pumped Storage Projects**

Sl. No.	Name of project	I.C. (MW)	District
1	Upper Indravati	600	Kalahandi
2	Balimela	500	Malkangiri
3	Upper Kolab	320	Koraput
<b>3</b>	<b>TOTAL</b>	<b>1420</b>	

**a. PSP Under S&I**

Sl. No	Name of Project	River		I.C. (MW)	Agency	District	Remarks
		Upper Reservoir	Lower Reservoir				
1	Upper Indravati	Upper Indravati HEP reservoir	To be constructed	600	OHPCL	Kalahandi	<ul style="list-style-type: none"> <li>Date of MOA-29.07.2015</li> <li>DPR is being prepared by WAPCOS.</li> <li>Target date of DPR preparation-12/23</li> </ul>
2	Balimela	Upper Reservoir is existing on Upper Kolab HEP reservoir (Existing Hydro Project)	to be constructed on Kharika Johra Stream	500	OHPCL	Malkangiri	<ul style="list-style-type: none"> <li>Target date of DPR preparation-12/24</li> <li>Agency- OHPCL</li> </ul>
3	Upper Kolab	Upper Reservoir is existing on Balimela HEP reservoir (Existing Hydro Project)	To be constructed.	320	OHPCL	Koraput	<ul style="list-style-type: none"> <li>Target date of DPR preparation-12/24</li> </ul>
<b>3</b>	<b>TOTAL</b>			<b>1420</b>			

## Summary of Large Hydro Power Development in West Bengal

### I. Conventional Projects

		Nos.	I.C. (MW)
Exploitable Large Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		10	809.2
<b>Breakup of Hydro Power Potential (2017-23 Study)</b>			
<b>A</b>	Projects in operation	5	441.2
<b>B</b>	Projects under active construction	1	120
<b>C</b>	Projects under S&I	1	90
<b>D</b>	Balance Capacity*	3	196

\*The capacity yet to be allotted by the State for development is different from arithmetic calculation from the potential accessed due to change in capacity of the projects, addition/deletion of the projects and merger of two projects into one etc.

### II. Pumped Storage Projects

		Nos.	I.C. (MW)
Exploitable Large Hydro Power Potential from Pumped Storage Projects		6	5500
<b>Breakup of Hydro Power Potential from Pumped Storage Projects</b>			
<b>a</b>	In Operation	1	900
<b>b</b>	Concurred	1	1000
<b>c</b>	Balance	4	3600

**I. Conventional Projects****Details of Exploitable Large Hydro Power Projects**

<b>S.no</b>	<b>Name</b>	<b>River</b>	<b>Type</b>	<b>Installed Capacity(MW)</b>
1	Rammam I	Rammam	R	60
2	Rammam II	Rammam	R	50
3	Rammam III	Rammam	R	120
4	Tessta Low dam -IV	Teesta	R (P)	160
5	Teesta Low Dam III	Teesta	R (P)	132
6	TLDP- I&II	Great Rangit	R	56
7	Teesta Intermediate	Teesta	R	52
8	Teesta Low Dam Project V	Teesta	R	80
9	Jaldhaka (Jaldhaka I)	Jaldhaka	R (P)	36
10	Maithon	Barakar	S	63.2
<b>10</b>	<b>TOTAL</b>			<b>809.2</b>

**A. H.E. Projects in Operation:**

Sl.No.	Name of Project	Agency	District	River /Basin*	I. C.	Type (R/S/R(P))	Year of Commissioning
1	Jaldhaka	WBSEDCL	KALIMPONG	Jaldhaka	36	R(P)	1967- 72,2012
2	Rammam-II	WBSEDCL	DARJEELING	Rammam	50	R	1995-96
3	Teesta Low Dam-III	NHPC	DARJEELING	Teesta	132	R(P)	2013-14
4	Maithon	DVC	WEST DHANBAD	Basakar	63.2	S	1957-58
5	Teesta Low Dam-IV	NHPC	DARJEELING	Teesta	160	R(P)	2016
<b>5</b>	<b>Total</b>				<b>441.2</b>		

\* Maithon is in Ganga and others are in Brahmaputra Basin.

**B. H.E. Projects under active Construction:**

Sl. No.	Name of Project	Agency	District	River	I. C. (MW)	Type (R/S/R(P))	Likely Commissioning
1	Rammam-III	NTPC	Darjeeling	Ramman	120	R	2025-26 (July25)
<b>1</b>					<b>120</b>		

**C. H.E. Projects Under Survey & Investigation:**

Sl. No.	Name of Project	Basin/River	Agency for DPR	I.C. (MW)	District	Type (R/S/R(P))	Target date of Preparation of DPR
1	Teesta Intermediate	Teesta	WBSEDCL	90	Darjeeling	ROR	12/23
<b>1</b>				<b>90</b>			

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

**D. Balance Capacity**

Sl.No.	Name of Project	River	Type	I.C.(MW)	District	Remarks
1	Rammam-I	Rammam	RoR	60	Darjeeling	
2	Teesta Low Dam Project V	Teesta	RoR	80	Darjeeling	
3	TLDP-I&II	Badi rangit	RoR	56	Darjeeling	• The project was allotted to NHPC. However, withdrawal of consent for the project by Govt. of Sikkim on 30.01.2017.
<b>3</b>	<b>Total</b>			<b>196</b>		

Note: R –Run of the River

**II. Pumped Storage****Exploitable Large Hydro Power Potential from Pumped Storage Projets**

Sl. No.	Name of project	I.C. (MW)	District
1	Kulbera	800	Purulia
2	Bandhu	900	Purulia
3	Panchet Hill	1000	Purulia
4	Purulia	900	Purulia
5	Turga PSS	1000	Purulia
6	Kathlajal	900	Purulia
<b>6</b>	<b>TOTAL</b>	<b>5500</b>	

**a. PSP In Operation**

Sl. No	Name of Project	River	I.C. (MW)	Agency	District	Remarks
1	Purulia	Kisto Bazar Nalla	900	WBSEDCL	Purulia	
<b>1</b>	<b>TOTAL</b>		<b>900</b>			

**b. PSP Concurred by CEA**

Sl. No	Name of Project	River	I.C. (MW)	Agency	District	Remarks
1	Turga	Turga Nala	1000	WBSEDCL	Purulia	•Date of concurrence-05.10.2016 •EC accorded on 02.07.2018. FC-I accorded on 12.04.18 and FC-II accorded on 13.10.2022.
<b>1</b>	<b>TOTAL</b>		<b>1000</b>			

**c. Balance Capacity**

Sl. No	Name of Project	River		I.C. (MW)	Agency	District	Remarks
1	Kulbera	Rupai Nala	Kulbera Nala	800	Indicated by MoP to DVC	Purulia	Yet to be allotted by the State for development
2	Bandhu	Bandhu Nala	Bandhu Nala	900	WBSEDCL	Purulia	PFR under preparation
3	Panchet Hill	Panchet Reservoir	Panchet Reservoir	1000	Indicated by MoP to DVC	Purulia	Yet to be allotted by the State for development
4	Kathlajal	Kathlajal nala	Kathlajal nala	900	WBSEDCL	Purulia	Yet to be taken up under S&I
4	<b>TOTAL</b>			<b>3600</b>			

## Summary of Large Hydro Power Development in Sikkim

### I. Conventional projects

		Nos.	I.C. (MW)
Exploitable Large Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		34	6051
<b>Breakup of Hydro power Potential (2017-23)</b>			
<b>A</b>	Projects in operation	8	2282
<b>B</b>	Projects under active construction	2	620
<b>C</b>	H.E. Projects on which Construction is held up	3	417
<b>D</b>	Projects concurred by CEA and yet to be taken up for construction	1	520
<b>E</b>	Balance Capacity*	20	2212

\*Balance Capacity is different from arithmetic calculation from the potential accessed due to change in capacity of the Projects, addition/deletion of the projects and merger of two projects into one etc.

## I. Conventional projects

### Details of Exploitable Large Hydro Power Projects

S.no	Name	River	Type	I.C. (MW)
1	Kalep	Tista	R	54
2	Talem	Tista	R	44
3	Jedang	Lhonak	R	160
4	Teesta-I (zeema)	Teesta	R	320
5	Serum	Sebokung	R	115
6	Lachung	Lachung	R	75
7	Teesta-II	Lachen Chu	R	410
8	Lachen (Chunthang)	Teesta	R	160
9	Ringpi	Ringpi	R	120
10	Rukel	Rongni chu	R	26
11	Rangyong	Rongni chu	R	248
12	Panan	Toulng	R	300
13	Teesta-III (Singhik)	Teesta	R (P)	1200
14	Teesta St-IV (Mangan)	Teesta	R (P)	520
15	Dikchu	Dikchu	R (P)	96
16	Teesta- V (samdong)	Teesta	R (P)	510
17	Lower lagyap	Rongni	R	26
18	Chhot pathing	Rangpo	R	55
19	Rongnichu (Rongni Storage)	Rangpo	R	113
20	Mana	G. Rangit	R	44
21	Lethang (Yoksam)	Ranhang chu	R	98
22	Namlum	G. Rangit	R	50
23	Rangit -III (Gompa+ Ligship)	Rangit	R (P)	60
24	Chujachen	Rangpo	R (P)	110
25	Jorethang Loop	Rangit	R (P)	96

26	Rangit-II	Rimbi	R	66
27	Teesta-VI	Teesta	R	500
28	Rangit-IV	Rangit	R	120
29	Bhasmey	Rangpo	R	51
30	Tashiding	Ranthing chu	R (P)	97
31	Kalez Khola	KalezKhola	R	34
32	Suntaleytar	Rangpo Chu	R	32
33	Bimkyong	Lachung Chu	R	66
34	BOP	Lachung Chu	R	75
<b>34</b>	<b>TOTAL</b>			<b>6051</b>

## A. H.E. Projects in Operation:

S. NO.	UTILITY/ STATIONS	NO. OF STNS.	NO. OF UNITS X CAPACITY (MW)	RIVER / BASIN*	DISTRICT	I.C. (MW)	Type (R/S/R(P))	YEAR OF COMMISSIONING
<b>NHPC</b>								
1	RANGIT	1	(3X20)	Teesta	GANGTOK	60	R(P)	2000
2	TEESTA-V	1	(3X170)	TEESTA	EAST SIKKIM	510	R(P)	2008
<b>SUB-TOTAL NHPC</b>		<b>2</b>				<b>570</b>		
<b>STATE</b>								
<b>TEESTA URJA LTD. (TUL)</b>								
3	TEESTA-III	1	(6X200)	TEESTA	NORTH SIKKIM	1200	R(P)	2017
<b>SUB-TOTAL TUL</b>		<b>1</b>				<b>1200</b>		
<b>PRIVATE</b>								
<b>GIPL (GATI INFRA PRIVATE LTD.)</b>								
4	CHUZACHEN	1	(2*55)	RONGLI & RANGPO	EAST SIKKIM	110	R(P)	2013
<b>SNEHA KINETIC POWER PROJECTS PVT LTD (SKPPPL)</b>								
5	DIKCHU	1	(2*48)	Rangpo	EAST & NORTH SIKKIM	96	R(P)	2017
<b>SHIGA ENERGY PVT LTD (SEPL)</b>								
6	TASHIDING	1	(2*48.50)	RATHANG CHU		97	R(P)	2017
<b>DANS ENERGY PVT LTD. (DEPL)</b>								
7	JORETHANG LOOP	1	(2*48)	RANGIT	SOUTH /WEST	96	R(P)	2015
<b>Madhya Bharat Pvt Company (MBPC)</b>								
8	RONGNICHU	1	2*56.5	Rangpo	EAST SIKKIM	113	R	2021
<b>SUB-TOTAL PRIVATE</b>		<b>5</b>				<b>512</b>		
<b>8</b>	<b>TOTAL SIKKIM</b>	<b>8</b>				<b>2282</b>		

\* All projects are in Brahmaputra Basin

**B. H.E. Projects under active Construction:**

Sl. No.	Name of Project	Agency	District	I.C. (MW)	River/ Basin	Type (R/S/R(P))	Likely Commissioning
1	Teesta St. VI	NHPC	South Sikkim	500	Teesta/ Brahmaputra	R	2026-27 (August'26)
2	Rangit-IV	NHPC	West Sikkim	120	Rangit/ Brahmaputra	R	2024-25 (Aug'24)
2	<b>Total</b>			<b>620</b>			

**C. H.E. Projects on which Construction is held up:**

Sl. No.	Name of Project	Agency	District	I.C. (MW)	River/ Basin	Type (R/S/R(P))	Status & Likely Commissioning
1	Bhasmey	Gati Infrastructure	East Sikkim	51	Rangpo/ Teesta Brahmaputra	R	Works are stalled since Sept., 2016 due to funds constraints with developer. *
2	Rangit-II	Sikkim Hydro	West Sikkim	66	Rimbi Brahmaputra	R	Works are stalled since December, 2017 due to funds constraints with developer. Project is in NCLT since 30.07.2020. *
3	Panan	Himagiri	North Sikkim	300	Toulng Brahmaputra	R	Construction of bridge on Mantham lake for accessibility of site is now being started. The works are likely to start soon after accessibility to Dam site is achieved. *
3	<b>Total</b>			<b>417</b>			

\* The Project is presently stalled. Commissioning is subject to restart of works

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

**D. H.E. Projects concurred by CEA and yet to be taken up for construction:**

Sl. No	Name of Project	Agency	District	I.C. (MW)	River	Type (R/S/R(P))	Date of CEA Concurrence	Status
1	Teesta St-IV	NHPC	North Sikkim	520	Teesta	R(P)	13.05.10	EC accorded on 09.01.14. FC-I accorded on 26.02.13. FC-II is yet to be obtained. . #
1	<b>Total</b>				<b>520</b>			

#• NHPC on 21.8.2020 has requested DC (North), Sikkim to intervene into the matter of pending Gram Sabha meetings at remaining 3 GPU's for settlement of rights under FRA, 2006.

• NHPC vide letter dt. 15.03.2021 has again requested DC (North), Sikkim to intervene into the matter of pending Gram Sabha meetings at remaining 3 GPU's and completion of settlement of rights under FRA, 2006

• CMD, NHPC along with Senior Officers of NHPC had a meeting with Chief Secretary & Addl. Chief Secretary of Sikkim on 02.03.2021 and with Sh. Prem Singh Tamang, Hon'ble CM of Sikkim on 20.03.21. During the meetings, various pending issues related to the project were discussed and they assured all possible cooperation and assistance of the State Government to NHPC

• CMD, NHPC vide DO letter dated 24.05.2021 has requested Hon'ble Minister, Rural

Development, Cooperation and Ecclesiastical department, Govt. of Sikkim for expeditious resolution of issues related Forest Clearance St-II and private land acquisition of Teesta-IV HEP.

• CMD, NHPC met Hon'ble Chief Minister, Sikkim on 29.10.2022 to discuss early implementation of Teesta Stage-IV HE Project. NHPC vide letter dated 12.11.2022 requested Chief Secretary, Govt of Sikkim for completion of remaining Gram Sabha meetings and process of settlement of rights.

• A meeting was chaired by Hon'ble Minister of Power and NRE and attended by Secretary (Power), CMD, NHPC and senior officials of MoP & NHPC on 16.02.23 wherein issues related to pending compliance of Forest Clearance Stage-I w.r.t consent under FRA-2006 in remaining 3 GPU's was discussed

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

**E. Balance Capacity**

Sl.No.	Name of Project	River	Type (R/S/R(P))	I.C. (MW)	District	Reamrks
1	Kalep	Tista	R	54	North Sikkim	
2	Talem	Tista	R	44	North Sikkim	
3	Jedang	Lhonak	R	160	North Sikkim	
4	Teesta-I (zeema)	Tista	R	320	North Sikkim	
5	Serum	Sebokung	R	115	North Sikkim	
6	Lachung	Lachung	R	75	North Sikkim	
7	Ringpi	Ringpi	R	120	North Sikkim	
8	Rukel	Rongnichu	R	26	North Sikkim	
9	Rangyong	Rongnichu	R	248	North Sikkim	
10	Chhota Pathing	Rongpo	R	55	East Sikkim	
11	Mana	G.Ranjit	R	44	South Sikkim	
12	Namlum	G.Ranjit	R	50	North Sikkim	
13	Lower Lagyap	Rongpi	R	26	East Sikkim	
14	Teesta St-II	Lachen chu	R	410	North Sikkim	
15	Lachen (Chunthang)	Teesta	R	160	North Sikkim	
16	Bimkyong	Lachung Chu	R	66	North Sikkim	
17	BOP	Lachung Chu	R	75	North Sikkim	
18	Lethang (Yoksam)	Ranhang chu	R	98	West Sikkim	
19	Kalez khola	Kalez Khola	R	34	West Sikkim	•Project was in S&I held up due to objection raised by local people against Topographical Survey.
20	Suntaleytar	Rangpo Chu	R	32	East sikkim	•Initially allotted to Hindustan Electric Power Ltd. •Project was in S&I Held up as MOA was not finalised
<b>20</b>	<b>Total</b>			<b>2212</b>		

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

## Summary of Large Hydro Power Development in Meghalaya

### I. Conventional Projects

		Nos.	I.C. (MW)
Exploitable Large Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		22	2026
<b>Breakup of Hydro Power Potentia (2017-23 Study)</b>			
<b>A</b>	Projects In Operation	5	322
<b>B</b>	Projects concurred by CEA and yet to be taken up for construction	1	0
<b>C</b>	Projects under S&I	2	270
<b>D</b>	Projects allotted for development on which S&I is held up/ yet to be taken up	1	170
<b>E</b>	Balance Capacity*	13	1434

### II. Pumped Storage Projects

		Nos.	Capacity (MW)
Exploitable Large Hydro Power Potential from Pump Storage Projects		1	1000
<b>Breakup of Hydro Power Potential from Pumped Storage Projects</b>			
<b>a</b>	Under S&I	1	1000

## I. Conventional Projects

### Details of Exploitable Large Hydro Power Projects

S. No.	Name	River	Type	Installed Capacity
1	Kyrdamkulai (Umiam Umtru-III)	Umtru	R(P)	60
2	Umiam (Umtru) St IV	Tail Water of Umiam st. III	R(P)	60
3	Umium- Ummtru VI	Umtru	S	39
4	Umlamphang	Umiam	R	28
5	Umiam Stage - I	Umiam	S	36
6	New Umtru	Umtru	R(P)	40
7	Selim	Myntdu	R	54
8	Umanghot	Umngot	R	220
9	Umjaut	Umiew	R	72
10	Umduna (Umduma)	Umiam	R	60
11	Wan Umiam Stage-III (Mawhu+ Nonglyngkien )	Umiew	R	85
12	Umngi Stage-I (Umngi Storage+)	Umngi	S	30

13	Nongam	Umngi	R	165
14	Mawpat	Umngi	R	30
15	Kynshi II (Mawthaba)	Kynshi	R	278
16	Kynshi I (Mawsyrpat+	Kynshi	S	270
17	Nangmawlar (Nongmawlar)	Kynshi	R	106
18	Mawblei Storage	Wahblei	S	110
19	Simsang Dam P/H	Someshri	MPP	66
20	Amagam	Rongdi	S	26
21	Myntdu	Myntdu	R(P)	126
22	Myntdu	Myntdu	R	65
<b>22</b>	<b>TOTAL</b>			<b>2026</b>

**A. H.E. Projects in Operation:**

S. No.	Utility/Stations	No. of Stns.	No. of units x Capacity (MW)	River / Basin*	District	I.C. (MW)	Type (R/S/R(P))	Year of commissioning
<b>MePGCL</b>								
1	KYRDEMKULAI	1	(2X30)	Umtru	RI-BHOI	60	R(P)	1979
2	UMIAM ST-I	1	(4X9)	UMIAM	RI-BHOI	36	S	1965
3	NEW UMTRU	1	(2X20)	UMTRU	RI-BHOI	40	R(P)	2017
4	UMIAM ST-IV	1	(2X30)	Tail water of Stage-III PH & own catchment	RI-BHOI	60	R(P)	1992
5	MYNTDU ST-I	1	(3X42)	MYNTDU	JAINZIA HILLS	126	R(P)	2012
<b>5</b>	<b>TOTAL MePGCL</b>	<b>5</b>				<b>322</b>		

\* All projects are in Brahmaputra Basin

**B. H.E. Projects concurred by CEA and yet to be taken up for construction:**

Sl No.	Name of Project	Agency	Date of CEA Concurrence	District	I.C. (MW)	Type (R/S/R(P))	Status
1	Wah Umiam Stage-III	NEEPCO	26.07.2021	East Khasi Hills	85	R	EC recommended by EAC on 26.02.2018. However, EC will be issued immediately on submission of Stage-I Forest Clearance. FC yet to be obtained.
<b>1</b>	<b>Total</b>				<b>85</b>		

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

**C. H.E. Projects Under Survey & Investigation:**

Sl. No.	Name of Project	Basin /River	Agency	I.C. (MW)	District	Type (R/S/R(P))	Date of MOA	Target date of Preparation of DPR
1	Myntdu Leshka st-II	Myntdu	MePGCL	210	West Jaintia Hills	R	20.4.12	12/23
2	Simsang Dam Project	Someshri	Brahmaputra Board	60	South Garo Hills	MPP		
2	<b>Total</b>			<b>270</b>				

**D. H.E. Projects allotted for development on which Survey & Investigation is held up/yet to be taken up:**

Sl. No.	Name of Project	Agency	I. C. (MW)	District	Date of Allotment/ MoA	Status
1	Selim	MePGCL	170	East & West Jaintia Hills	2008	S&I held up due to irregular allocation/release of funds, the hostile terrain, non and non-availability of geologists from GSI, India. <b>MePGCL vide their letter dated 01.11.2019 informed that installed capacity is likely to be 60 MW.</b>
1	<b>Total</b>		<b>170</b>			

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

**E. Balance Capacity**

Sl.No.	Name of Project	River	Type	I.C (MW)	District	Reamrks
1	Umium-Ummtru VI	Umtru	S	39	Ri-Bhoi	
2	Umlamphang	Umiam	R	28	Ri-Bhoi	
3	Nongam	Umngi	R	165	East Khasi Hills	
4	Mawpat	Umngi	R	30	West Khasi Hills	
5	Nangmawlar	Kynshi	R	106	West Khasi Hills	
6	Amagam Storage	Rongdi	S	26	East Garo hills	
7	Umjaut	Umiew	R	72	Umiew	
8	Umduna (Umduma)	Umiam	R	60	Umiam	
9	Umngi Stage-I (Umngi Storage+ Rangmaw)	Umngi	S	30	Umngi	
10	Kynshi I (Mawsyrpat+ Kynshi -I storage)	Kynshi	S	270	Kynshi	
11	Mawblei Storage	Wahblei	S	110	Wahblei	
12	Umanghot (Umngot Stor.)	Umngot	R	220	Umngot	
13	Kynshi-II	Kynshi	R	278	West Khasi Hills	<ul style="list-style-type: none"> <li>•Initially allotted to GoMe &amp; Jaiprakash Power Venture Ltd. (JV)</li> <li>• Project was in S&amp;I held up on account of non-finalisation of dam location/height due to deposit of Uranium. I.C. revised to 325 MW. GoMe informed vide their letter dated 28.11.2019 that project has been kept in abeyance since 2012 due to presence of Uranium deposits within the Dam &amp; Reservoir areas of the project.</li> </ul>
13	<b>Total</b>			<b>1434</b>		

Note: R –Run of the River & S- Storage

## II. Pumped Storage

### Exploitable Large Hydro Power Potential from Pumped Storage Projects

S.No.	Name	District	I.C. (MW)
1	Kynshi St. 1A	West Khasi Hills & Southwest Kashi Hills	1000
1	Total		1000

#### a. PSP Under S&I

S.No.	SCHEMES	Agency	District	River		I.C. (MW)	Remarks
				Upper Reservoir	Lower Reservoir		
1	Kynshi St. 1A	ATHENA KYN Shi POWER PRIVATE LIMITED	West Khasi Hills & Southwest Kashi Hills	Off Stream	to be constructed on Kynshi River	1000	Open Loop
1	TOTAL					1000	

### Summary of Large Hydro Power Development in Tripura

No Large Hydroelectric Project has been identified in the Tripura State. However, a small Hydel power station in south Tripura named Gumti Hydel project having only 3x5 MW capacities. The details are as under:

Name of Project	Unit	Installed Capacity (MW)	Year of Installation	Phase	RIVER	TYPE
Gumti H.E. Project	Unit-I	5.00 MW	1976	Phase I	Gumti	S
	Unit-II	5.00 MW	1976			
	Unit-III	5.00 MW	1984	Phase II		

## Summary of Large Hydro Power Development in Manipur

### I. Conventional Projects

		Nos.	Capacity (MW)
Exploitable Large Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		9	615
<b>Breakup of Hydro Power Potential (2017-23 Study)</b>			
<b>A</b>	Projects in operation	1	105
<b>B</b>	Balance Capacity*	8	510

\*Balance Capacity is different from arithmetic calculation from the potential accessed due to change in capacity of the Projects, addition/deletion of the projects and merger of two projects into one etc.

**I. Conventional Projects****Details of Exploitable Large Hydro Power projects**

S. No.	Name	I.C. (MW)	River	Type
1	Khongem Chakha II	40	Barak	S
2	Khongem Chakha III	28	Barak	R
3	Irang	60	Irang	S
4	Pabaram	213	Barak	S
5	Nungnag	28	Irang	S
6	Loktak D/s (Khunou)	66	Leimatak	R
7	Loktak	105	Imphal	S
8	Thinghat	45	Tuival	S
9	Maklang - Tuyungbi	30	Maklang Tuyungbi	S
<b>9</b>	<b>TOTAL</b>	<b>615</b>		

**A. H.E. Projects in Operation:**

Sl.No.	Name of Project	Agency	I. C. (MW)	River/ Basin	District	Type (R/S/R(P))	Year of Commissioning
<b>NHPC</b>							
1	Loktak	NHPC	105	Imphal/ Brahmaputra	Churachandpur	S	1983
<b>1</b>	<b>Total</b>		<b>105</b>				

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

**B. Balance Capacity**

Sl.No.	Name of Project	I.C.(MW)	River	District	Type
1	Khongnem Chakha-II	40	Barak	Senapati	S
2	Khongnem Chakha-III	28	Barak	Senapati	R
3	Nungnag	28	Irang	Tamenglong	S
4	Thinghat	45	Tuivai	Churachandpur	S
5	Irang	60	Irang	Tamenglong	S
6	Pabaram	213	Barak	Tamenglong	S
7	Maklang - Tuyungbi	30	Maklang & Tuyungbi	Ukhrul	S
8	Loktak D/S (Khunou)	66	Leimetak	Tamenglong	R
<b>8</b>	<b>Total</b>	<b>510</b>			

Note: R –Run of the River & S- Storage

## Summary of Large Hydro Power Development in Assam

### I. Conventional Projects

		Nos.	Capacity (MW)
Exploitable Large Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		8	643
<b>Breakup of Hydro Power Potential (2017-23 study)</b>			
<b>A</b>	Projects in operation	3	350
<b>B</b>	Projects under active construction	1	120
<b>C</b>	Projects returned to project authorities	1	60
<b>D</b>	Balance Capacity*	3	143

\*Balance Capacity is different from arithmetic calculation from the potential accessed due to change in capacity of the Projects, addition/deletion of the projects and merger of two projects into one etc.

### II. Pumped Storage Projects

		Nos.	I.C. (MW)
Exploitable Large Hydro Power Potential from Pumped Storage Projects		1	320
<b>Breakup of Hydro Power Potential from Pumped Storage Projects</b>			
<b>a</b>	Balance Capacity	1	320

## I. Conventional Projects

### Details of Exploitable Large Hydro Power Projects

S.no	Name	River	Type	Installed Capacity (MW)
1	Dilli (Dilli Stor.)	Disang	S	28
2	Diyung Dam P/H	Jamuna	S	45
3	Khandong (Kopili-I)	Kopili	S	50
4	Kopili (Kopili II )	Umrong	S	200
5	Amring	Amring	S	70
6	Karbi Langpi (Upper Borpani)	Borpani	S	30
7	Karbi langpi (Lower Borpani)	Borpani	R(P)	100
8	Lower Kopili	Kopili	R	120
<b>8</b>	<b>TOTAL</b>			<b>643</b>

**A. H.E. Projects in Operation:**

S.No	UTILITY/ STATIONS	NO. OF STATION S	No. of Units	NO. OF UNITS X CAPACITY (MW)	RIVER/ BASIN*	DISTRICT	I.C. (MW)	Type (R/S/R(P))	YEAR OF COMMISSIONING
<b>NEEPCO</b>									
1	KOPILI	1	4	(4X50)	Umrong	DIMA HASAO	200	S	1988
2	KHONDONG	1	2	(2X25)	KOPILI	DIMA HASAO	50	S	1984
	<b>SUB-TOTAL NEEPCO</b>	<b>2</b>	<b>6</b>				<b>250</b>		
<b>APGCL</b>									
3	KARBI LANGPI [Lower Borpani]	1	2	(2X50)	BORPANI	KARBI ANGLONG	100	R(P)	2007
	<b>SUB-TOTAL APGCL</b>	<b>1</b>	<b>2</b>				<b>100</b>		
<b>3</b>	<b>TOTAL ASSAM</b>	<b>3</b>	<b>8</b>				<b>350</b>		

\* All projects are in Brahmaputra Basin

**B. H.E. Projects under active construction:**

SI No.	Name of Project	Agency	River / Basin*	District	I.C.(MW)	Type (R/S/R(P))	Likely Commissioning
1	Lower Kopili	APGCL	Kopili / Brahmaputra	Karbi Anglong & Dima Hasao	120	R	2024-25 (Mar'25)
<b>1</b>	<b>Total</b>				<b>120</b>		

Note :R= Run of River, S=Storage &amp; R(P)= Run of River with Pondage

**C. H.E. Projects Returned to Project Authorities for re-submission after compliance of observations:**

Sl. No	Name of Project	Agency	I.C. (MW)	Month of Return/Reason of Return
1	Karbi Langpi (Upper Borpani)	ASEB	60	Returned on 12/08 due to involvement of interstate aspects with Meghalaya, updated hydrology not been utilized for carrying out power potential study, cost estimates not framed at current PL and inadequate geological investigations etc.
<b>1</b>	<b>Total</b>		<b>60</b>	

**D. Balance Capacity**

Sl.No.	Name of Project	River	Type	I.C.(MW)	District
1	Dilli Stor.	Disang	S	28	Dibrugarh
2	Diyung Dam P/H	Diyung	S	45	Cachar
3	Amring	Amring	S	70	Karbi Anglong
<b>3</b>	<b>Total</b>			<b>143</b>	

Note: R –Run of the River & S- Storage

## II. Pumped Storage

### Exploitable Large Hydro Power Potential from Pumped Storage Projets

Sl. No.	Name of project	District	I.C.(MW)
1	Kopili	Dima Hasao	320
<b>1</b>	<b>Total</b>		<b>320</b>

#### a. Balance Capacity

Sl. No	Name of Project	Agency	District	River		I.C. (MW)	Remarks
				Upper Reservoir	Lower Reservoir		
1	Kopili	Indicated by MoP to NEEPCO	Dima Hasao	Khandong	Umrong	320	Yet to be allotted by the State for development
<b>1</b>	<b>Total</b>					<b>320</b>	

## Summary of Large Hydro Power Development in Nagaland

### I. Conventional Projects

		Nos.	Capacity (MW)
Exploitable Large Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		4	325
<b>Breakup of Hydro Power Potential (2017-23 Study)</b>			
<b>A</b>	Projects in operation	1	75
<b>B</b>	Projects concurred by CEA and yet to be taken up for construction	1	186
<b>C</b>	Balance Capacity	2	64

### Details of Exploitable Large Hydro Power Projects

S.no	Name	River	Type	Installed Capacity (MW)
1	Dikhu (Dikhu Dam P.H.)	Dikhu	Seasonal Storage cum Run-of River	186
2	Yangnyu (Yangnyu Stor.)	Yangnyu	S	36
3	Jhanzi Storage	Jhanzi	S	28
4	Doyang (Doyang V)	Doyang	S	75
<b>4</b>	<b>TOTAL</b>			<b>325</b>

**A. H.E. Projects in Operation:**

S. No.	Utility/Stations	No. of Stns.	No. of units x Capacity (MW)	River / Basin	District	I.C.(MW)	Type (R/S/R(P))	Year of commissioning
<b>NEEPCO</b>								
1	DOYANG	1	(3X25)	DOYANG / Brahamputra	WOKHA	75	S	2000
1	<b>TOTAL NAGALAND</b>	<b>1</b>				<b>75</b>		

**B. H.E. Projects concurred by CEA and yet to be taken up for construction:**

Sl No.	Name of Project	Agency	Date of CEA Concurrence	River / Basin	District	I.C. (MW)	Type (R/S/R(P))	Status
1	Dikhu	NMPPL	31.03.2014	Dikhu / Brahamputra	Longleng	186	Seasonal S cum R	EC yet to be obtained by developer. TOR issued on 27/12/2018. FC not applicable as forest land is not involved.#
1	<b>Total</b>					<b>186</b>		

# EIA/EMP studies are in progress and are likely to be completed soon. Consent of PPA as per CERC Tariff is obtained. Govt. of Nagaland has forwarded PPA tariff calculations for the approval of Nagaland Regulatory Commission. CEA vide letter dated 21.09.2023 extended validity of Concurrence upto 31.03.2025

**C. Balance Capacity**

Sl.No.	Name of Scheme	River	District	I.C.(MW)	Type
1	Yangnyu (Yangnyu Stor.)	Yangnyu	Longleng	36	S
2	Jhanji storage	Jhanji	Mokokchung	28	S
2	<b>Total</b>			<b>64</b>	

Note: R –Run of the River & S- Storage

## Summary of Large Hydro Power Development in Arunachal Pradesh

### I. Conventional Projects

		Nos.	I.C. (MW)
Exploitable Large Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		109	50394.00
<b>Breakup of Hydro Power Potential (2017-23 Study)</b>			
<b>A</b>	Projects in operation	3	1115
<b>B</b>	Projects under active construction	2	4880
<b>C</b>	Projects concurred by CEA and yet to be taken up for construction	14	13798
<b>D</b>	Projects returned to project authorities	13	5323
<b>E</b>	Projects under S&I	4	14599
<b>F</b>	Projects allotted for development on which S&I is held up/ yet to be taken up	3	1520
<b>G</b>	Balance Capacity*	69	11186

\*Balance Capacity is different from arithmetic calculation from the potential accessed due to change in capacity of the Projects, addition/deletion of the projects and merger of two projects into one etc.

### II. Pumped Storage Projects

		Nos.	I.C. (MW)
Exploitable Large Hydro Power Potential from Pumped Storage Projects		1	660
<b>Breakup of Hydro Power Potential from Pumped Storage Projects</b>			
<b>a</b>	Balance Capacity	1	660

## I. Conventional Projects

### Details of Exploitable Large Hydro Power Projects

S.no	Name	River	Type	Installed Capacity
1	Mihundon	Dibang (Dri)	R	226
2	Amulin	Matun	R	212
3	Emini	Matun	R	326
4	Agoline	Dibang or Dri	R	220
5	Attunli	Tangon	R(P)	680
6	Etalin	Dri& Tangon	R	3097
7	Emra-I	Emra	R	450
8	Emra-II	Emra	R	210
9	Elango	Ahi	R	128
10	Dibang (Dibang Stor.)	Dibang	MPP	2880
11	Sissiri (Sesseri)	Sesseri	S	60
12	Ithun I	Ithun	R	76
13	Ithun II	Ithun	R	48
14	Etabue	Ange Pani	R	122
15	Jidu (Yangsang)	Yangsang	R	90
16	Rigong	Ringong	R	85
17	Mirak	Sigong	R	78
18	Pango (Minnying)	Sirapatang/ Sigong	R	72
19	Pauk	Yarjep	R	128
20	Heo	Yarjep	R	240
21	Hirong	Siyom	R	500
22	Tato-II	Siyom	R(P)	700

23	Tato-I	Yarjep	R	186
24	Naying	Siyom	R	1000
25	Yamne-I	Yamne	R	106
26	Yamne St II	Yamne	R	70
27	Lower Siang (Passighat)	Siang	R(P)	2700
28	Siyom (Middle) (Passighat)	Siyom	R	1000
29	Tagurshit	Tagurshit	R	52
30	Pemashelphu	Yargyap Chu	R	78
31	Kangtangshri	Siyom	R(P)	68
32	Lower Yamne-I (Jaru)	Yamne	R	66
33	Rapum	Siyom	R	60
34	Rego	Siyom	R	63
35	Lower Yamne St-II (Yapin)	Yamne	R	74
36	Sippi	Ringong	R	75
37	Simang I	Simang	R	32
38	Simang- II	Simang	R	32
39	Siang Upper Stage-II (Passighat)	Siang	S	3750
40	Saing Upper Stage-I (Passighat)	Siang	S	6834
41	Kalai-I (Kalai)	Lohit	S	1140
42	Hutong -II (Hutong)	Lohit	R	900
43	Demwe Lower (Demwe)	Lohit	R(P)	1750
44	Demwe Upper St-I (Demwe)	Lohit	R	210
45	Demwe Upper St-II (Demwe)	Lohit	R	210

46	Demwe Upper St-III (Demwe)	Lohit	R	150
47	Gimliang	Dau	R	82
48	Raigam	Delai	R	180
49	Tidding -I	Tidding	R	82
50	Tidding -II	Tidding	R	70
51	Kalai II (Kalai)	Lohit	R(P)	1200
52	Anjaw	Lohit	R	230
53	Oju (Oju-I + Oju-II)	Subansiri / Si Nigit	R	2060
54	Niare	Subansiri	R	860
55	Naba	Subansiri/ Si Ngit	R	905
56	Milli	kurung	R	138
57	Sape	kurung	R	65
58	Chomi	Kurung	R	165
59	Chela	Kurung	R	180
60	Nyepin	Payam	R	48
61	Hiya	Payam	R	65
62	Kurung (Kurung Dam I + Kurung Dam II)	Kurung	S	300
63	Hegio	Kurung	R	320
64	Subansiri Lower (Subansiri Dam)	Subansiri	R(P)	2000
65	Tago I	Kale	R	48
66	Ranganadi St II (Yazali Storage)	Ranganadi	S	100
67	Nalo	Subansiri	S	372
68	Dengser	Subansiri	R	545
69	Subansiri Upper	Subansiri	S	1320

70	Subansiri Middle (kamla) (Tamen)	Kamala	S	1500
71	Panyor	Panyor (Ranganadi)	R	130
72	Ranganadi St-I (Yazali Div. -II)	Ranganadi	R(P)	405
73	Turu	Dikrong	R	100
74	Par	Dikrong	R	85
75	Dardu	Dikrong	R	85
76	Doimukh [Dudmukh Storage]	Dikrong	R	34
77	Pare	Dikrong	R(P)	110
78	Tipang	Tirap	S	26
79	Chanda	Kameng	R	115
80	Badao	Kameng	R	94
81	Para	Para	R	144
82	Talong Londa (Talong)	Kameng	R(P)	225
83	Pachuk II (Satuk)	Pachuk	R	54
84	Pachuk II Lower (Kapak Leyak)	Pachuk	R	62
85	Phanchung	Pachi	R	36
86	Utung	Bichom	R	76
87	Dibbin	Bichom	R	120
88	Khuitam	Digen	R	62
89	Dinchang (But +Maithing)	Digo	R	295
90	Kameng HEP (Bichom storage-I + Bichom-II)	Bichom/ Tenga	R(P)	600
91	Papu	Papu	R	100

92	Jameri (Tenga)	Tenga	R	172
93	Kimi	Bichom	R	535
94	Gongri	Gongri	R	144
95	Nafra	Bichom (Kameng)	R(P)	120
96	Meyong	Tim Kong Rong	R	32
97	Marjingla	Kameng	R	38
98	Marijingla Lower	Kameng	R	44
99	Pachuk I	Pachuk	R	95
100	Pakke Bung I	Pakke Bung	R	48
101	Papu Valley	Papu	R	45
102	Tawang St-I	Tawang Chu	R	600
103	Tawang St-II	Tawang Chu	R	800
104	Magochu	Mago Chu	R	48
105	Nyukcharong Chu	Nyukcharong Chu	R	160
106	Rho	Tawang Chu	R	145
107	Tsa Chu - I Lower	Nykrong Chu	R	145
108	Tsa Chu - II	Nykrong Chu	R	148
109	New Melling	Mago Chu	R	48
<b>109</b>	<b>Total</b>			<b>50394</b>

**A. H.E. Projects in Operation:**

S. No.	Name of Project	Agency	District	I.C. (MW)	River	Type (R/S/R(P))	Year of commissioning
1	RANGANADI	NEEPCO	Lower Subansiri	405	RANGANADI	R(P)	2002
2	PARE	NEEPCO	Papum Pare	110	BRAHAMPUTRA	R (P)	2018
3	Kameng	NEEPCO	West Kameng	600	Bichom & Tenga / Kameng	R (P)	2020-21
3	<b>Total</b>			<b>1115</b>			

Note: All projects are in Brahmaputra Basin

**B. H.E. Projects Under Active Construction:**

Sl. No.	Name of Project	Agency	District	I.C. (MW)	River	Type (R/S/R(P))	Likely Commissioning
1	Subansiri Lower	NHPC	L.Subansiri/ Dhemaji	2000	Subansiri	R(P)	2023-25 (Mar'25) # {2 units during 2023-24}
2	Dibang Multipurpose Project	NHPC	Lower Dibang valley	2880	Dibang/Brahmaputra	S	2031-32 (feb'32)
2	<b>Total</b>			<b>4880</b>			

Note: All projects are in Brahmaputra Basin

# 2 units (500 MW) likely during 2023-24 and remaining 6 units (1500 MW) during 2024-25

\* 2 units (500 MW) likely during 2022-23 & 6 units (1500 MW) during 2023-24

Note :R= Run of River, S=Storage & R(P)= Run of River with Pondage

**C. H.E. Projects concurred by CEA and yet to be taken up for construction:**

SI No.	Name of Project	Agency	District	River	I.C. (MW)	Date of CEA Concurrence	Type (R/S/R(P))	Status
1	Lower Siang	JAVL	East Siang	Siang	2700	16.02.10	R(P)	EC & FC yet to be obtained by developer. MoEF&CC in Jan'2016 closed the proposal due to non-response of developer. Developer is required to carry out fresh EIA/EMP studies. #
2	Tawang St-I	NHPC	Tawang	Tawang Chu	600	10.10.11	R	EC accorded on 10.06.2011 (valid till June 2021). EAC in its 13th meeting held on 16.06.2021 has recommended an extension of validity of EC for 3 years. FC-I & FC-II are pending. ##
3	Tawang St-II	NHPC	Tawang	Tawang Chu	800	22.09.11	R	EC accorded on 10.06.2011 (valid till June 2021). MoEF&CC vide letter dated 18.10.2021 accorded extension of validity of EC for 3 years till 09.06.2024. FC-I accorded on 08.01.2014. FC-II yet to be obtained. ###
4	Demwe Lower	ADPL	Lohit	Lohit	1750	20.11.09	R(P)	EC accorded on 12.02.2010. EC extended till 11.02.2023. FC-I accorded on 01.03.2012. FC-II accorded on 03.05.2013. However, an appeal was filed against grant of FC before the NGT on 03.05.2014. ####
5	Hirong	JAPL	West Siang	Siyom	500	10.04.2013	R	EC & FC yet to be obtained by developer. EIA/EMP report being revised as per Siang BSR. FC-I under process at state level. However, as per MoEF&CC, matter of FC is closed vide letter dated 02.12.2015 #####
6	Talonga Londa	GMR	East Kameng	Kameng	225	16.08.2013	R(P)	EC accorded on 07.08.2015. FC-I & FC-II yet to be obtained. #####
7	Etalin	SJVNL	Dibang Valley	Dri & Tangon	3097	12.07.2013	R	EC recommended by EAC on 31.01.2017. Letter will be issued after FC-I. FC-I & FC-II yet to be obtained. #####
8	Naying HEP	NEEPCO	West Siang	Siyom	1000	11.09.2013	R	EC & FC yet to be obtained by developer. \$
9	Kalai -II	Kalai PPL	Anjaw	Lohit	1200	27.3.2015	R(P)	EC accorded 20.05.2015. Final order will be issued after obtaining FC-I. FC-I and FC-II yet to be obtained. Land acquisition under process. Validity of Concurrence to the project expired on 27.03.2018. MOP vide letter dated 22.12.2021 indicated Kalai-II HEP to be pursued by THDC.
10	Heo	NEEPCO	West Siang	Yarjep	240	28.07.2015	R	EC accorded on 10.11.2015. FC-I accorded on 27.10.2015. FC-II yet to be obtained. The issue of shifting of quarry is pending with FAC which is linked with Pauk, Heo and Tato-I and needs to be resolved for accord of FC-II. Observations of Regional Office awaited. Land acquisition is in progress. Validity of Concurrence to the project expired on 29.07.2020. MOP vide letter dated 22.12.2021 indicated that Heo HEP to be pursued by NEEPCO. MoA signed on 12.08.2023
11	Tato-I	NEEPCO	West Siang	Yarjep	186	28.10.2015	R	EC accorded on 10.11.2015. FC-I accorded on 27.10.2015. FC-II yet to be obtained. MoEF&CC stated that the matter of shifting of quarry area was considered by FAC and observations of Regional office are being sought & thereafter it will be again considered by FAC. Land acquisition is in progress. Validity of Concurrence to the project expired on 29.10.2020. MOP vide letter dated 22.12.2021 indicated that Tato-I HEP to be pursued by NEEPCO. MoA signed on 12.08.2023
12	Attunli	AHEPCL	Dibang Valley	Tangon	680	02.07.18	R(P)	Both EC and FC are yet to be obtained. MoEF&CC stated that fresh ToR was issued in May'2019. Forest survey under progress. DISCOMS are reluctant to sign long term PPA's for the Hydro Projects. Land Acquisition under process. MOP vide letter dated 22.12.2021 indicated that Attunli HEP to be pursued by SJVNL. Validity of Concurrence to the project expired on 02.07.2021. MoA signed on 12.08.2023
13	Nafra	NEEPCO	West kameng	Bichom Kameng	120	11.02.11	R(P)	EC accorded on 19.08.2013. FC-I accorded on 12.07.2011 & FC-II accorded on 26.06.2012. \$\$
14	Tato-II	NEEPCO	West Siang	Siyom	700	22.05.12	R(P)	EC accorded on 27.6.2011. FC is linked to Cumulative Impact Assessment Study of Siang Basin which has been carried out and accepted by MoEF&CC. There is no need to change in IC but as per recommendations in BSR, FRL needs to be reduced for free flow stretch and hence there may be change in other parameters including shift in location of Dam/ Barrage etc. MOP vide letter dated 22.12.2021 indicated that Tato-II HEP will be pursued by NEEPCO. MoA signed on 12.08.2023
14	<b>Total</b>				<b>13798</b>			

**Note: All projects are in Brahmaputra Basin**

# As per Cumulative Impact Assessment recommendations for Siang basin, parameter of Lower Siang HEP has been suggested to be altered and enhance the e-flows which has great impact on design and installation capacity of this project. The final decision on the parameters of the project and norms for e-flows needs to be taken by State Government and Government of India. Validity of Concurrence to the project expired on 16.02.2019. MoP vide letter dated 22.12.2021 indicated that Lower Siang HEP to be pursued by NHPC.

##FRA is under process. In the review meeting held on 29.05.2019 in CEA, Developer stated that FC-II of Tawang-I will be taken up after obtaining FC-II of Tawang-II. There is issue of habitation of Black Necked Crane in the project area. MoEF&CC informed that the report of WII on Black Necked Crane for the project is submitted to MoEF&CC and is under review. MOP vide letter dated 22.12.2021 indicated that Tawang-I HEP to be pursued by NEEPCO. Validity of Concurrence to the project expired on 11.10.2021.

###For FC-II, additional information sought by MoEF&CC vide letter 23.02.2017. NHPC informed that local resident are not cooperating. Minister of State (I/C), MOP through DO letter dated 02.02.2018 requested Hon'ble CM, Ar. Pr. to intervene in the matter for submitting compliance report under FRA 2006 by State Govt. to MoEF for accord of FC-II. CMD NHPC vide DO letter dated 28.10.19 and 2.12.2020 had again requested Chief Secretary, Govt. of Arunachal Pradesh to intervene in the matter. Matter is being pursued with District Administration. NHPC vide letter dated 11.12.2020 has again requested IG (FC), MoEF&CC to extend the validity of FC-I clearance of the project by another 5 years. MOP vide letter dated 22.12.2021 indicated that Tawang-II HEP to be pursued by NEEPCO. Proposal for Revalidation of Concurrence submitted By M/s NHPC Ltd vide their Letter dated 15.06.2021 for another two years i.e. up to 22.09.2023 has been return on 28.04.2022 due to non-submission of desired information sought vide this office letter dated.07.09.2021. Validity of Concurrence to the project expired on 23.09.2021.

##### Hon'ble NGT vide its Order dated 24th October, 2017 dismissed the Forest Clearance appeal of the project and directed the Standing Committee of NBWL to reconsider the issue relating to Demwe Lower HEP and pass appropriate orders. Till such orders are passed, the forest clearance of the project stands suspended. Developer informed that the project is under NCLT since 2017 and fate of project will be decided after NCLT proceedings are over. Validity of Concurrence to the project expired on 19.05.2017. MOP vide letter dated 22.12.2021 indicated that Demwe lower HEP to be pursued by THDC.

##### . As per Cumulative Impact Assessment recommendations for Siang basin, parameter of Hironng HEP has been suggested to be altered and enhance the e-flows which has great impact on design and installation capacity of this project. The final decision on the parameters of the project and norms for e-flows needs to be taken by State Government and Government of India. Government of Arunachal Pradesh vide letter dated 09.07.201 informed CEA that allotment of Hironng HEP to M/s. JAPL has been withdrawn/ cancelled vide GoAP letter dated 21.04.2021 . Further, validity of Concurrence to project expired on 10.04.2016. MOP vide letter dated 22.12.2021 indicated that Hironng HEP to be pursued by NEEPCO. Govt. of Arunachal Pradesh has approved the allotment of Hironng HEP to NEEPCO Ltd. on 13.01.2023. MoA signed on 12.08.2023

##### The Environmental Clearance (EC) is approved in-principle by MoEF&CC, but its formal issuance is pending for want of Stage-1 Forest Clearance, which is under process. (GOAP has been requested for necessary recommendation to MOEF&CC to grant the Forest clearance vide developer's submission dated 29.6.2020.) Subsequently, request for grant of FC- stage- 1 was made to MOEF&CC, Arunachal Pradesh by developer vide its letter dated 08th Dec'20. MOP vide letter dated 22.12.2021 indicated that Talong Londa HEP to be pursued by NEEPCO. Validity of Concurrence to the project expired on 15.08.2016.

##### The Biodiversity studies have been completed by Wild Life Institute of India (WII) in July 2019 after which FAC considered it in October 2019 wherein it recommended that a Sub-Committee shall be formed who shall visit the project site and submit its report on grant of forest Clearance for the project considering various aspects. Sub-Committee submitted its report to MOEF&CC and is available in their website. Sub-Committee recommended for the forest clearance of the project. FAC in its meeting held on 11.05.2022 has recommended to constitute two committees and will submit their reports within three weeks from their constitution. MoEF&CC vide letter dated 02.02.2023 conveyed that "FAC in its meeting held on 27.12.2022 opined that the instant proposal cannot be considered in the present form and the revised proposal may be submitted for further consideration by the State Government". Validity of Concurrence to the project expired on 12.07.2021. MOP vide letter dated 22.12.2021 indicated that Etalin HEP to be pursued by SJVNL. MoA signed on 12.08.2023

S- EC is linked with Siang BSR, which is completed and accepted by MoEF&CC. FC-I pending with State Govt. MoEF&CC stated that developer needs to apply afresh for EC online as old proposal is not valid anymore. DISCOMs are reluctant to sign PPA. Government of Arunachal Pradesh vide letter dated 09.07.201 informed CEA that allotment of Naying HEP to M/s. NDSCL has been withdrawn/ cancelled vide GoAP letter dated 27.04.2021 . Further, validity of Concurrence to project expired on 11.09.2019. MOP vide letter dated 22.12.2021 indicated that Naying HEP to be pursued by NEEPCO. Govt. of Arunachal Pradesh has approved the allotment of Naying HEP to NEEPCO Ltd. on 13.01.2023. MoA signed on 12.08.2023

\$\$Government of Arunachal Pradesh vide letter dated 09.07.2021 informed CEA that allotment of Nafra HEP to M/s. SNEL has been withdrawn/ cancelled vide GoAP letter dated 23.12.2019. Further, validity of Concurrence to project expired on 01.01.2017. NEEPCO vide letter dated 23.08.2021 to HPA informed that it has signed MoA with GoAP on 14.08.2021 for Nafra HEP. Subsequently, HPA Division vide letter dated 31.08.2021 requested NEEPCO to submit allotment letter of GoAP and fresh DPR as per revised e-flows under Cumulative Basin Studies of Bichom Basin. NEEPCO vide letter dated 03.09.2021 submitted Allotment letter. MOP vide letter dated 22.12.2021 indicated that Nafre HEP will be pursued by NEEPCO. NEEPCO vide letter dated 10.01.2022 submitted updated hydrology chapter for vetting by CWC. NEEPCO vide letter dated 02.06.2022 (received on 03.06.2022) submitted PPS of Nafra HEP based on updated hydrology with incorporation of e-flow based on BSR for examination and vetting of CEA. Recommendation of HPA division on PPS chapter issued vide HPA letter dated 24.06.2022 for installed capacity of 95 MW. Developer vide letter dated 06.07.2022 has requested CEA to maintain installed capacity of 120 MW citing various reasons. HPA division vide letter dated 07.07.2022 requested developer to carry out commercial viability at 120 MW and submit proposal to CEA. Commercial viability of the project is being ascertained by developer.

**Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage**

**D. H.E. Projects Returned to Project Authorities for re-submission after compliance of observations:**

Sl. No.	Name of Project	Agency	I.C. (MW)	Type (R/S/R(P))	Month of Return/Reason of Return
1	Ranganadi St-II	NEEPCO	130	S	Returned on 04/06 and NEEPCO has been asked to review the Project and resubmit DPR after cost and tariff are brought down. MOU with State Govt. yet to be signed.
2	Yamne St-II	SSYEVPL	84	R	DPR returned on 05/11 due to inadequate geological investigations at dam site, diversion tunnel, surge shaft & power house etc.
3	Hutong –II	MFIPL	1200	R	The DPR was returned on 5.12 as the Project is now to be developed as storage Project. Hydrology & PPS cleared on 9.5.2011 & 27.3.2012.
4	Kalai-I	MFIPL	1352	S	Returned on 05/12 and STC decided that M/S MFIPL should carry out the detailed investigation for the revised DPR as per CEA's letter dt 24.5.2012.
5	Pemashelphu HEP	MHPL	90	R	Returned on 02/13 due to non-replying of the comments and likely change in location of Dams benefits from the project, DPR of project has been returned.
6	Sissiri HEP	SSHPL	100	S	Returned on 02/13 reason being DPR could not be accepted to detailed examination as representation of State Govt. pointed out that irrigation and drinking water component should be internal part of two project and cost of same should be included in cost of project. DPR returned to developer for sort out the issue with State Govt.
7	Gimiliang	SKI Pvt. Ltd.	80	R	DPR returned on 06/13 during presentation meeting held on 03.5.2013 due to inadequate geological investigation. Developer was told to submit revised DPR after carrying out necessary investigation and IC got fixed by CEA.
8	Raigam	SKI Pvt. Ltd.	141	R	DPR returned on 06/13 during presentation meeting held on 03.5.2013 due to inadequate geological investigation. Developer was told to submit revised DPR after carrying out necessary investigation and IC got fixed by CEA.
9	Kangtangshiri	KHPPL	80	R(P)	Returned on 29.07.2013 due to inadequate investigation and in proper layout etc.
10	Nyukcharong Chu	SNCPCCL	96	R	Returned on 04/15 due to non-submission of investigation suggested by GSI.
11	Subansiri Middle (Kamla)	KHEPCL	1800	S	Returned on 29.01.2018. All the partial clearances issued till date were rescinded as no progress has been made by the Developer towards resolving the issues pending with various appraising groups.
12	Magochu	MCPCCL	96	R	
13	Tagurshit	L&T Power Development Ltd	74	R	Returned in 06/19.
<b>13</b>	<b>Total</b>		<b>5323</b>		

**Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage**

**E. H.E. Projects Under Survey & Investigation:**

Sl. No.	Name of Project	River	Agency for DPR	I.C. (MW)	District	Type (R/S/R(P))	Date of MOA	Target date of Preparation of DPR
1	Demwe UpperSt-I	Lohit	Lohit Urja Pvt Ltd	270	Anjaw	R	09.07.2007	06/24
2	Niare	Subansiri	Andra Power Private Limited	909	Upper Subansiri	R	02.05.2011	06/24
3	Upper Siang Project	Siang	NHPC	11200	Upper siang	S		
4	Oju Hydro-Electric Project	Subansiri/ Singit	Oju Subansiri Hydro Power Corporation Pvt. Ltd.	2220	Upper Subansiri	R		12/23
<b>4</b>	<b>Total</b>			<b>14599</b>				

**F. H.E. Projects allotted for development on which Survey & Investigation is held up/ yet to be taken up:**

Sl. No.	Name of Project	River	Agency	I.C. (MW)	District	Date of Allotment/ MoA	Status
1	Pauk	Yarjep	Velcan Energy Pvt Ltd	145	West Siang	30.06.2007 (rev MOA-31.07.09)	S&I held up due to land disputes between clans and law & order problem.
2	Anjaw	Lohit	Athena Energy Ventures Ltd.	270	Anjaw	09.07.2007	
3	Naba	Subansiri	Naba Power Private Ltd.	1105	Upper Subansiri	21.06.2010	
<b>3</b>	<b>Total</b>			<b>1520</b>			

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

**G. Balance Capacity**

Sl.No.	Name of Project	River	Type	I.C. (MW)	District	Remarks
1	Agoline	Dibang/Dri	R	220	Dibang valley	
2	Elango	Ahi	R	128	Dibang valley	
3	Rigong	Rigong	R	85	Upper Siang	
4	Mirak	Sigong	R	78	Upper Siang	
5	Hegio	Kurung	R	320	Kra Daadi	
6	Doimukh [Dudmukh Storage]	Dikrong	R	34	Papum pare	
7	Kimi	Bichom	R	535	West Kameng	
8	Chanda	Kameng	R	115	East Kameng	
9	Milli	Kurung	R	138	Kurung Kumey	
10	Sape	Kurung	R	65	Kurung Kumey	
11	Nyepin	Payam	R	48	Kurung Kumey	
12	Hiya	Payam	R	65	Kurung Kumey	
13	Par	Dikrong	R	85	Papum Pare	
14	Tago-I	Kale	R	48	Lower Subansiri	
15	Utung	Bichom	R	76	West Kameng	
16	Tipang	Tirap	S	26	Changlang	
17	Jameri (tenga)	Tenga	R	172	West Kameng	
18	Meyong	Timkong Rong	R	32	West Kameng	
19	Gongri	Gongri	R	144	West Kameng	
20	Badao	Kameng	R	94	East Kameng	
21	Amulin	Mathun	R	212	Dibang valley	
22	Emini	Mathun	R	326	Dibang valley	
23	Mihumdon	Dibang/Dri	R	226	Dibang valley	

24	Lower Yamne St-II (Yapin)	Yamne	R	74	Upper Siang	
25	Nalo	Subansiri	R	372	Upper Subansiri	
26	New Melling	Magochu	R	48	Tawang	
27	Tsa Chu-I Lower	Nykrongchu	R	145	Tawang	
28	Demwe Upper St-II	Lohit	R	210	Anjaw	
29	Demwe Upper St-III	Lohit	R	150	Anjaw	
30	Etabue	Ange Pani	R	122	Dibang Valley	•Indicated to SJVN
31	Simang I	Simang	R	32	East Siang	
32	Ithun II	Ithun	R	48	Ithun	
33	Simang- II	Simang	R	32	Simang	
34	Turu	Dikrong	R	100	Dikrong	
35	Phanchung	Pachi	R	36	Pachi	
36	Khuitam	Digen	R	62	Digen	
37	Pachuk I	Pachuk	R	95	Pachuk	
38	Pakke Bung I	Pakke bung	R	48	Pakke bung	
39	Papu Valley	Pappu	R	45	Pappu	
40	Dibbin	Bichom	R	120	Bichom	
41	Siyom (Passighat)	Siyom	R	1000	West Siang	
42	Papu	Papu	R	100	East Kameng	<ul style="list-style-type: none"> <li>•Yet to be indicated and allotted to CESC Ltd.</li> <li>•issue of interference of levels with the upstream project of M/s Vensar Energy Ltd i.e papu valley HEP requires to be resolved.</li> </ul>
43	Emra-I	Emra	R	450	Dibang Valley	<ul style="list-style-type: none"> <li>•Indicated to SJVN and earlier allotted to Athen Energy Ventures Pvt. Ltd .</li> <li>•No approach road the project site and intent to terminate by GoAP under since 25/07/2018</li> </ul>

44	Rho	Tawang Chu	R	145	Tawang	<ul style="list-style-type: none"> <li>•Yet to be indicated and earlier allotted to SEW energy.</li> <li>•No visible progress since 2015 . Drift work pending. •letter issued to the developer to resolve issue with CEA/CWC/GSI on 17/9/19</li> </ul>
45	Dardu	Dikrong	R	85	Papum pare	<ul style="list-style-type: none"> <li>•Yet to be indicated and earlier allotted to KVk energy &amp; infrastructure Ltd.</li> <li>•No activity/progress in project. Local public demanding to hand over the project to CPSU. Dikrong study not yet finalised . Interntion to trminated by GOAP is under process since10/04/18.</li> </ul>
46	Dengser	Subansiri	R	545	Upper Subansiri	<ul style="list-style-type: none"> <li>•Indicated to NHPC and earlier allotted to Coastal Infrastructure Pvt. Ltd.</li> <li>•Unapproachable area/ difficult &amp; inhospitable terrain and local law &amp; order problem</li> </ul>
47	Yamne-I	Yamne	R	106	Upper Siang	<ul style="list-style-type: none"> <li>• Indicated to NEEPCO and earlier allotted to S. S. yamne Power Pvt. Ltd.</li> <li>•Local law and order problem. Under process for termination since 18/05/18</li> </ul>
48	Dinchang	Digo	R	295	West Kameng	<ul style="list-style-type: none"> <li>• Indicated to NEEPCO and earlier allotted to KSK Energy Ventures Ltd..</li> <li>•Project under process for termination by GOAP since 13.03.2018</li> </ul>
49	Ithun-I	Ithun	R	76	Lower Dibang Valley	<ul style="list-style-type: none"> <li>• Yet to be indicated and earlier allotted to JVKIL consortium.</li> <li>•Non-operationalization of Hunli-Desali road. Very slow progress, hence under process for Intent to Terminate by GoAP since 19/07/2018</li> </ul>

50	Kurung	Kurung	S	300	Kra Daadi	<ul style="list-style-type: none"> <li>• Indicated to NEEPCO and earlier also allotted to NEEPCO.</li> <li>• Proposal for sanction of Pre-Investment expenditure is on hold and Secy(Power), MoP concern over some of the clauses of MoA between NEEPCO and GoAP</li> </ul>
51	Chomi	Kurung	R	165	Kurung Kumey	<ul style="list-style-type: none"> <li>• Yet to be indicated and earlier allotted to Adveta Power.</li> <li>• MoA to be renewed</li> </ul>
52	Chela	Kurung	R	180	Kurung Kumey	<ul style="list-style-type: none"> <li>• Yet to be indicated and earlier allotted to Adveta Power.</li> <li>• MoA to be renewed</li> </ul>
53	Para	Para	R	144	East Kameng	<ul style="list-style-type: none"> <li>• Yet to be indicated and earlier allotted to Coastal Projects Pvt. Ltd..</li> <li>• M/s Coastal projects Ltd (Developer of Para HE Project) are in the Resolution process under NCLT. DPR would be prepared after resolution Process is completed.</li> </ul>
54	Tidding-I	Tidding	R	82	Anjaw	<ul style="list-style-type: none"> <li>• Yet to be indicated and earlier allotted to Sai Krishnodaya Ind. (P) Ltd.</li> <li>• There is no progress in the S&amp;I activities of project. ToR has not been obtained and there is no progress in geotechnical investigations.</li> </ul>
55	Tidding-II	Tidding	R	70	Anjaw	<ul style="list-style-type: none"> <li>• Yet to be indicated and earlier allotted to Sai Krishnodaya Ind. (P) Ltd.</li> <li>• There is no progress in the S&amp;I activities of project. ToR has not been obtained and there is no progress in geotechnical investigations.</li> </ul>
56	Pango (Minnying)	Sirapatang/ Sigong	R	72	Upper Siang	<ul style="list-style-type: none"> <li>• Yet to be indicated and earlier allotted to Meenakshi Power Ltd.</li> <li>• Held up due to lack of infrastructure, poor communication network and remoteness of site.</li> </ul>

57	Sippi	Ringong	R	75	Upper Siang	<ul style="list-style-type: none"> <li>• Yet to be indicated and earlier allotted to Meenakshi Power Ltd.</li> <li>• Held up due to lack of infrastructure, poor communication network and remoteness of site.</li> </ul>
58	Jidu (Yangsang)	Yangsang	R	90	Upper Siang	<ul style="list-style-type: none"> <li>• Yet to be indicated and earlier allotted to Meenakshi Power Ltd.</li> <li>• Held up due to lack of infrastructure, poor communication network and remoteness of site.</li> </ul>
59	Pachuk-II (Satuk)	Pachuk	R	54	Pachuk	<ul style="list-style-type: none"> <li>• Yet to be indicated and earlier allotted to Energy Development Co. Ltd.</li> <li>• No progress in the S&amp;I activities of project reported by developer.</li> </ul>
60	Tsa Chu -II	Nykrong Chu	R	148	Nykcharong chu	<ul style="list-style-type: none"> <li>• Yet to be indicated and earlier allotted to Energy Development Co. Ltd.</li> <li>• No progress in the S&amp;I activities of project reported by developer.</li> </ul>
61	Pachuk II Lower (kapak Leyak)	Pachuk	R	62	Pakke Bung	<ul style="list-style-type: none"> <li>• Yet to be indicated and earlier allotted to Energy Development Co. Ltd.</li> <li>• No progress in the S&amp;I activities of project reported by developer.</li> </ul>
62	Marijingla	Kameng	R	38	Kameng	<ul style="list-style-type: none"> <li>• Yet to be indicated and earlier allotted to Energy Development Co. Ltd.</li> <li>• No progress in the S&amp;I activities of project reported by developer.</li> </ul>
63	Marijingla Lower	Kameng	R	44	Kameng	<ul style="list-style-type: none"> <li>• Yet to be indicated and earlier allotted to Energy Development Co. Ltd.</li> <li>• No progress in the S&amp;I activities of project reported by developer.</li> </ul>

64	Rego	Siyom	R	63	West Siang	<ul style="list-style-type: none"> <li>• Yet to be indicated and earlier allotted to Greenko Energies Ltd.</li> <li>•No progress in the S&amp;I activities of project reported by developer.</li> </ul>
65	Rapum	Siyom	R	60	West Siang	<ul style="list-style-type: none"> <li>• Yet to be indicated and earlier allotted to Greenko Energies Ltd.</li> <li>•No progress in the S&amp;I activities of project reported by developer.</li> </ul>
66	Panyor	Panyor (Ranganadi)	R	130	Lower Subansiri	<ul style="list-style-type: none"> <li>• Yet to be indicated and earlier allotted to Rajratan Energy Holing Pvt . Ltd.</li> <li>•No progress in the S&amp;I activities of project reported by developer.</li> </ul>
67	Lower Yamne St-I (Jaru)	Yamne	R	66	Upper Siang	<ul style="list-style-type: none"> <li>• Yet to be indicated and earlier allotted to Yamne Power Pvt. Ltd.</li> <li>•No progress in the S&amp;I activities of project reported by developer.</li> </ul>
68	Emra-II	Emra	R	210	Dibang valley	<ul style="list-style-type: none"> <li>•Indicated to NHPC and earlier allotted to Athena Emra power pvt ltd</li> <li>•No road connectivity to project site.local issue , communication problem.Intent to terminate under process since 5/07/2018</li> </ul>
69	Subansiri Upper	Singit	S	1320	Upper Subansiri	<ul style="list-style-type: none"> <li>•Earlier the project was allotted to KSK Energy Ventures Ltd. The Project has been allotted to NHPC in July 2023</li> </ul>
<b>69</b>	<b>Total</b>			<b>11186</b>		

Note: R –Run of the River & S- Storage

**II. Pumped Storage****Exploitable Large Hydro Power Potential from Pumped Storage Projects**

Sl. No.	Name of project	I.C. (MW)	District
1	Panyor	660	Lower Subansiri
1	<b>TOTAL</b>	<b>660</b>	

**a. Balance Capacity**

Sl. No	Name of Project	River		I.C. (MW)	Agency	District	Remarks
		Upper Reservoir	Lower Reservoir				
1	Panyor	Pit Nalah	Panyor / Ranganadi	660	Indicated by MoP to NEEPCO	Lower Subansiri	Yet to be allotted by the State for development
1	<b>TOTAL</b>			<b>660</b>			

## Summary of Large Hydro Power Development in Mizoram

### I. Conventional Projects

		Nos.	I.C. (MW)
Exploitable Large Hydro Power Potential from Hydroelectric Projects (Projects having capacity above 25 MW) (2017-23 Study)		11	1926.7
<b>Breakup of Hydro Power Potential (2017-23 study)</b>			
<b>A</b>	Projects in operation	1	60
<b>B</b>	Balance Capacity	10	1866.7

### II. Pumped Storage Projects

		Nos.	I.C. (MW)
Exploitable Large Hydro Power Potential from Pumped Storage Projects		4	5550
<b>Breakup of Hydro Power Potential from Pumped Storage Projects</b>			
<b>a</b>	Balance Capacity	4	5550

**I. Conventional Projects****Details of Exploitable Large Hydro Power Projects**

<b>S.no</b>	<b>Name</b>	<b>River</b>	<b>Type</b>	<b>Installed Capacity</b>
1	Tuivai (Bungpuilong)	Tuival	R	140
2	Tuirial (Sonai)	Tuirial	S	60
3	Lunglang	Tyao	S	474
4	Mat	Mat	S	41.7
5	Boinu	Boinu	S	498
6	Kaldan	kaldan	S	159
7	Bhairabi	Dhaleshwari	S	50
8	Tlawng	Dhaleshwari/ Tlawng	S	37
9	Tuivawl	Tuivawl	R	50
10	Tuichang	Tuichang	S	57
11	Kolodyne Stage - II	Kolodyne	S	360
<b>11</b>	<b>TOTAL</b>			<b>1926.7</b>

**A. H.E. Projects in Operation:**

S. No.	Utility/Stations	River	Type (R/S/R(P))	District	No. of units x Capacity (MW)	I.C. (MW)	Year of commissioning
<b>NEEPCO</b>							
1	TUIRIAL	TUIRIAL	S	KOLASIB	(2X30)	60	2017
<b>1</b>	<b>TOTAL MIZORAM</b>					<b>60</b>	

**B. Balance Capacity**

Sl.No.	Name of Project	River	Type	I.C.(MW)
1	Lunglang	Tyao	S	474
2	Boinu	Boinu	S	498
3	Kaldan	Kaldan	S	159
4	Bhairabi	Dhaleshwari	S	50
5	Mat	Mat	S	41.7
6	Tlawng	Dhaleshwari /Tlawng	S	37
7	Tuivawl	Tuivawl	R	50
8	Tuichang	Tuichang	S	57
9	Tuivai	Tuival	R	140
10	Kolodyne St-II	Koldyan	S	360
<b>10</b>	<b>Total</b>			<b>1866.7</b>

Note: R= Run of River, S=Storage & R(P)= Run of River with Pondage

**II. Pumped Storage****Exploitable Large Hydro Power Potential from Pumped Storage Projets**

Sl. No.	Name of project	I.C. (MW)	District
1	Leiva Lui	1500	Aizawl
2	Tuiphai Lui	1650	Aizawl
3	Nghasih	400	Lunglai
4	Daizo Lui	2000	Lunglai
4	<b>TOTAL</b>	<b>5550</b>	

**a. Balance Capacity**

Sl. No	Name of Project	River		I.C. (MW)	Agency	District	Remarks
		Upper Reservoir	Lower Reservoir				
1	Leiva Lui	Pharsih river	Leiva Lui river	1500	Indicated by MoP to NEEPCO	Aizawl	Yet to be allotted by the State for development
2	Tuiphai Lui	Tuiphai Lui river	Tuikual Lui river	1650	Indicated by MoP to NEEPCO	Aizawl	Yet to be allotted by the State for development
3	Nghasih	Khawiva Lui river	Nghasih Lui river	400	Indicated by MoP to NEEPCO	Lunglai	Yet to be allotted by the State for development
4	Daizo Lui	Koladyne river	Daizolui river	2000	Indicated by MoP to SJVNL	Lunglai	Yet to be allotted by the State for development
4	<b>TOTAL</b>			<b>5550</b>			