

**Status of Large Hydro Power Development in Haryana**

	<b>Nos.</b>	<b>Capacity (MW)</b>	<b>Percentage (%)</b>
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)#	1	64	100

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

## Status of Large Hydro Power Development in Himachal Pradesh

		Nos.	Capacity (MW)	
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		67	18470	
Large Projects Identified after Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		16	2114	
Projects identified below 25 MW capacity in Reassessment Study and developed above 25 MW capacity		2	240	
Change in Projects due to splitting of projects (identified during reassessment study in 1978-87)		2	-59	
Change in Projects due to merging of projects (identified during reassessment study in 1978-87)		-4	-1314	
<b>Total</b>		<b>83</b>	<b>19451</b>	
I	Projects in operation	27	9920	
II A	Projects under active construction	8	2180	
II B	Projects on which construction is held up	1	44	
III	Projects allotted by States for development			
	(i)	Projects concurred by CEA and yet to be taken up for construction	2	502
	(ii)	Projects under Examination in CEA	2	691
	(iii)	Projects returned to project authorities	3	867
	(iv)	Projects under S&I	5	1819
	(v)	Projects allotted for development on which S&I is held up/ yet to be taken up	6	1690
IV	Projects dropped due to Basin studies/ Other reasons	7	689	
V	Projects stuck due to Inter-State/ Other Issues	1	126	
VI	Projects yet to be allotted by the State for development*	21	1707	

Note - One project Seawa (70 MW) was identified in HP but presently this project is in operation in J&K.

\*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.

**1 (A). Additional Projects (Identified after Re-Assessment Studies)**

Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Chango Yangthang	Spiti	180	Dropped
2	Chanju-I	Chanju Nallah	36	In Operation
3	Integrated Kashang	Satluj	195	In Operation
4	Malana-II	Malana	100	In Operation
5	Dugar	Chenab	449	Returned
6	Chiroti Saichu	Saichu Nallah	26	Dropped
7	Saichu	Saichu Nallah	58	Dropped
8	Saichu Sach Khas	Saichu Nallah	117	Dropped
9	Tinget	Miyar	145	Dropped
10	Stingiri	Chenab	98	Dropped
11	Patam	Chenab	65	Dropped
12	Thana Plaun	Beas	191	UE
13	Sorang	Sorang/Satluj	100	Under Construction
14	Tangu Romai-I	Pabbar/Tons/ Yamuna	44	Under Construction
15	Uhl-III	Uhl/Beas	100	Under Construction
16	Purthi	Chenab	210	S&I
<b>16</b>	<b>Sub Total</b>		<b>2114</b>	

**1 (B). Project identified below 25 MW capacity in Reassessment Study and developed above 25 MW capacity**

Sl.No.	Name of Project	River	I.C. (MW)	Status	Remarks
1	Giri Bata	Giri & Jalal	60	In Operation	Giri Bata - 24MW
2	Bajoli Holi	Ravi	180	Under Construction	Holi - 13 MW
<b>2</b>	<b>Sub Total</b>		<b>240</b>		

**1 (C). Change in Projects due to splitting of projects (identified during reassessment study in 1978-87)**

Before Splitting					After Splitting				
Sl.No.	Name of Project	River	I.C. (MW)	Status	Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Bhakra Nangal	Sutlej	1395	Identified	1	Bhakra Left	Sutlej	594	In Operation
					2	Bhakra Right	Sutlej	785	In Operation
2	Luhri	Sutlej	425	Identified	3	Luhri St. I	Sutlej	210	Concurred
					4	Luhri St. II	Sutlej	172	S&I
<b>2</b>	<b>Sub Total</b>		<b>1820</b>		<b>4</b>			<b>1761</b>	
Net Change in Numbers			<b>2</b>	Increase					
Net Change in Capacity			<b>-59</b>	Decrease					

**1 (D). Change in Projects due to merging of projects (identified during reassessment study in 1978-87)**

Before Merging					After Merging				
Sl.No.	Name of Project	River	I.C. (MW)	Status	Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Allain Nallah	Allain	46	Identified	1	Allain Duhangan	Allain Nallah	192	In Operation
2	Duhangan	Duhangan	29	Identified					
3	Khab-I	Sutlej	1640	Identified	2	Khab	Sutlej	636	Held Up
4	Khab-II	Sutlej	425	Identified					
5	Jangi Thopan	Sutlej	410	Identified	3	Jungi Thopan Powari	Sutlej	780	PFR
6	Thopan Powari	Sutlej	650	Identified					
7	Sainj (Parbati-III)	Sainj	215	Identified	4	Parbati-III	Sainj	520	In Operation
8	Sainj-IV	Sainj	27	Identified					
<b>8</b>	<b>Sub Total</b>		<b>3442</b>		<b>4</b>	<b>Sub Total</b>		<b>2128</b>	
Net Change in Numbers			<b>-4</b>	Decrease					
Net Change in Capacity			<b>-1314</b>	Decrease					

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

S. NO.	UTILITY/STATIONS	NO. OF STNS.	NO. OF UNITS	NO. OF UNITS X CAPACITY (MW)	RIVER/ /BASIN*	DISTRICT	CAPACITY (MW)	YEAR OF COMMISSIONING
	<b>CENTRAL SECTOR</b>							
	<b>BBMB</b>							
1	BHAKRA LEFT (BHAKRA NANGAL)	1	5	(2X108+ 3x126)	SUTLEJ	BILASPUR	594	1960-1961
2	BHAKRA RIGHT (BHAKRA NANGAL)	1	5	(5X157)	SUTLEJ	BILASPUR	785	1966-1968
3	DEHAR (PANDOH DIVERSION)	1	6	(6X165)	BEAS	MANDI	990	1977-1983
4	PONG (PONG DAM)	1	6	(6X66)	BEAS	KANGRA	396	1978-1983
	<b>SUB-TOTAL BBMB</b>	<b>4</b>	<b>22</b>				<b>2765</b>	
	<b>NHPC</b>							
5	BAIRA SIUL	1	3	(3X60)	RAVI	CHAMBA	180	1980-1981
6	CHAMERA- I (CHAMERA SHERPUR)	1	3	(3X180)	RAVI	DALHOUSIE	540	1994
7	CHAMERA- II (GWAR)	1	3	(3X100)	RAVI	CHAMBA	300	2003-2004
8	CHAMERA- III (HIBRA)	1	3	(3X77)	RAVI	CHAMBA	231	2012
9	PARBATI-III [SAINJ (PARBATI - III)]	1	4	(4X130)	SAINJ	KULLU	520	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	2003-2004
11	RAMPUR (RAMPUR NANJAH)	1	6	(6X68.67)	SATLUJ	SHIMLA	412	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	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>7248</b>	
	<b>STATE SECTOR</b>							
	<b>HPSEBL</b>							
13	BASSI	1	4	(4X16.5)	BEAS	MANDI	66	1970-1981
14	GIRI BATA *	1	2	(2X30)	YAMUNA	SIRMAUR	60	1978
15	LARJI	1	3	(3X42)	Beas River & its tributaries Sainj & Tirthan	KULLU	126	2006
16	SANJAY [BHABA (SANJAY)]	1	3	(3X40)	SATLUJ	KINNAUR	120	1989
	<b>TOTAL HPSEBL</b>	<b>4</b>	<b>12</b>				<b>372</b>	
	<b>HPPCL</b>							
17	INTEGRATED KASHANG	1	3	(3X65)	SATLUJ	KINNAUR	195	2016-17
18	SAINJ (SAINJ KARTAH-II)	1	2	(2X50)	SAINJ	KULLU	100	2017
19	SWARA KUDDU (Pangula Sanail)	1	3	(3X37)	Pabbar/Tons/ Yamuna	SHIMLA	111	2020
	<b>TOTAL HPPCL</b>	<b>3</b>	<b>8</b>				<b>406</b>	

S. NO.	UTILITY/STATIONS	NO. OF STNS.	NO. OF UNITS	NO. OF UNITS X CAPACITY (MW)	RIVER/ /BASIN*	DISTRICT	CAPACITY (MW)	YEAR OF COMMISSIONING
	<b>PSPCL</b>							
20	SHANAN	1	5	(1X50)+ (4X15)	UHL & Lamba Dug River	MANDI	110	1932-1982
	<b>TOTAL PSPCL</b>	<b>1</b>	<b>5</b>				<b>110</b>	
	<b>TOTAL STATE SECTOR</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	2001
	<b>TOTAL MPCL</b>	<b>1</b>	<b>2</b>				<b>86</b>	
	<b>GBHPPL</b>							
22	BUDHIL	1	2	(2X35)	RAVI	CHAMBA	70	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	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)	RAVI	CHAMBA	36	2017
	<b>TOTAL IA ENERGY</b>	<b>1</b>	<b>3</b>				<b>36</b>	
25	ALLAIN DUHANGAN (ALLAIN NALLAH & DUHANGAN)	1	2	(2X96)	ALLAIN NALLAH		192	2010-11
	<b>TOTAL ADHPL</b>	<b>1</b>	<b>2</b>				<b>192</b>	
	<b>JSWHEL</b>							
26	BASPA (BASPA-II)	1	3	(3X100)	BASPA	KINNAUR	300	2003
27	KARCHAM WANGTOO	1	4	(4X250)	SATLAJ	KINNAUR	1000	2011-12
	<b>TOTAL JSWHEL</b>	<b>2</b>	<b>7</b>				<b>1300</b>	
	<b>TOTAL PVT</b>	<b>7</b>	<b>18</b>				<b>1784</b>	
<b>27</b>	<b>TOTAL HP</b>	<b>27</b>	<b>97</b>				<b>9920</b>	

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

**3A. H.E. Projects Under Active Construction:**

Sl. No.	Name of Project	Agency	District	River	Basin	I.C. (MW)	Likely Commissioning
1	Parbati St--II (Parbati -II)	NHPC	Kullu	Parbati/Beas	Indus	800	2021-22 (Jul'22)
2	Uhl- III	Beas Valley Power Corp. Ltd. (BVPC)	Mandi	Uhl/Beas	Indus	100	2022-23 (Dec'22)
3	Sorang	Himachal Sorang Power	Kinnaur	Sorang/Satluj	Indus	100	2021-22 (Dec.'21)
4	Tidong-I	M/s NSL Tidong	Kinnaur	Tidong/Satluj	Indus	100	2022-23 (June'22)
5	Shontong Karcham	HPPCL	Kinnaur	Satluj	Indus	450	2024-25 (Mar.'25)
6	Bajoli Holi	GMR Bajoli Holi Hydro Power Pvt. Ltd.	Chamba	Ravi	Indus	180	2021-22 (Dec.'21)
7	Kutehr	JSW Energy (Kutehr) Power Ltd. (JSWEPL)	Chamba	Ravi	Indus	240	2025-26 (Nov'25)
8	Luhri St.I	SJVNL	Shimla/Kullu	Satluj	Indus	210	2025-26 (Jan'26)
8	<b>Total</b>					<b>2180</b>	

**3B. H.E. Projects on which Construction is held up:**

Sl. No.	Name of Project	Agency	District	River	Basin	I.C. (MW)	Status & Likely Commissioning
1	Tangu Romai-I	Tangu Romai Power Generation	Shimla	Pabbar/Tons/ Yamuna	Ganga	44	Works are stalled since January, 2015 due to fund constraints with developer. 2024-25*
1	<b>Total</b>					<b>44</b>	

\* Subject to re-start of work in immediate future

**4. 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	Status
1	Miyar (Udaipur)	Miyar Hydro Power Company Ltd. (MHPCL)	Chenab /Miyar Nallah	Lahul & Spiti	120	07.02.2013	EC accorded on 30.07.12. FC-I accorded on 27.07.12. FC-II yet to be obtained. #
2	Sunni Dam	SJVNL		Shimla & mandi	382	11.02.2021	EC recommended by MoEF&CC on 07.01.2021 FC are yet to be obtained. ##
2	<b>Total</b>				<b>502</b>		

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

# FRA compliance under process. MoU was signed between Government of Himachal Pradesh and NTPC Ltd. on 25.10.2019 to set-up the hydro project.

## Revised case for diversion of forest land submitted to Forest Department, GoHP on 06.11.19. Three forest divisions i.e. Kotgarh, Karsog and Shimla involved. Complete case was forwarded by Co-ordinating Officer to Nodal Officer (FCA) on 05.01.2021. Case further put up to GoHP on 18.01.2021. CAT plan re-submitted to CCF (CAMP), Shimla on 30.12.2020 for approval. Meeting held with PCCF (HoFF) on 21.01.2021 wherein some modifications were suggested. CAT plan is to be revised accordingly.

**5. H.E. Projects Under Examination/Scrutiny in CEA:**

Sl. No.	Name of Project	Sector	I.C. (MW)	Agency	Month of receipt
1	Thana Plaun	State	191	HPPCL	18-Feb
2	Dugar	Central	500	NHPC	01-Dec
2	<b>Total</b>		<b>691</b>		

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

Sl. No.	Name of Project	Agency	I.C. (MW)	Reason of Return
	<b>Ravi Basin</b>			
1	Bara Banghal (Chulan)	MPCL	200	DPR returned due to inadequate geological investigations, environmental & wild life issues, review of I.C. & Cost.
2	Seli	SHPCCL	400	
3	Sach Khas	L&T HHPL	267	
3	<b>Total</b>		<b>867</b>	



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

Sl. No.	Name of Project	Basin*/River	Agency for DPR	I.C. (MW)	Date of MoA	Target date of Preparation of DPR
1	Luhri St.-II (Luhri)	Satluj	SJVNL	172	25.09.2019	Mar'22
2	Jangi Thopan Powari	Satluj	SJVNL	804	25.09.2019	Sep'22
3	Reoli Dugli	Chenab	SJVNL	458	06.11.2019	Mar'22
4	Purthi	Chenab	SJVNL	210	25.09.2019	Dec'22
5	Bardang	Chenab	SJVNL	175	25.09.2019	Dec'22
<b>5</b>	<b>Total</b>			<b>1819</b>		

\* All projects are in Indus Basin

**8. 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	Status
	<b>Satluj Basin</b>				
1	Khab (Khab-I & Khab-II)	636	HPPCL	22.09.2009	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	Sumte Kothang (Thibda)	130	Reliance Power Ltd.	31.12.2012	S&I held up due to opposition from locals and NGOs. <b>Project stands terminated on 28.07.2017.</b>
3	Lara Sumta	104	Reliance Power Ltd.	31.12.2012	S&I held up due to opposition from locals and NGOs. <b>Project stands terminated on 28.07.2017.</b>
4	Tidong-II	60	Tidong Hydro Power Ltd.	20.01.2012	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.
	<b>Sub Total</b>	<b>930</b>			
	<b>Chenab Basin</b>				
1	Gyspa Dam (Gyspa)	300	HPPCL	22.09.2009	S&I held up due to sustained opposition from local people.
	<b>Sub Total</b>	<b>300</b>			
	<b>Beas Basin</b>				
1	Nakhtan (Parbati-I)	460	HPPCL	22.09.2009	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>6</b>	<b>Total</b>	<b>1690</b>			

**9. Projects dropped due to Basin studies/ Other reasons:**

Sl. No.	Project	I.C. (MW)	River	Basin	Remarks
1	Chango Yangthang	180	Spiti	Indus	Project has been surrendered by developer vide letter dated 11.07.2017 as the project became unviable due to increased e-flow, local protests etc.
2	Chiroti Saichu	26	Chenab	Indus	Projects dropped after final report of basin studies on cumulative impact
3	Saichu	58	Chenab	Indus	
4	Saichu Sach Khas	117	Chenab	Indus	
5	Tinget	145	Chenab	Indus	
6	Stingiri	98	Chenab	Indus	
7	Patam	65	Chenab	Indus	
7	<b>Total</b>	<b>689</b>			

**10. Projects stuck due to Inter-State/ Other Issues**

1	Chhatru	126	Chenab	Indus	EC recommended by EAC on 24.02.15, Letter will be issued after FC-I. FC-I & FC-II yet to be obtained. 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 and further forfeited the upfront money of Rs.21.87 Cr paid by DCM Shriram Infrastructure limited in year 2007. DCM Shriram Infrastructure limited filed a Petition before the High Court of Himachal Pradesh in Shimla.
<b>1</b>	<b>Total</b>	<b>126</b>			

**11. H. E. Projects yet to be allotted by the State for development**

Sl.No.	Name of Project	River	Type	I.C.(MW)
1	Ropa	Ropa	S	31
2	Taiti-I	Taiti	S	50
3	Homte	Bhaba	R	60
4	Gandharni	Beas	R	49
5	Gharopa	Beas	R	85
6	Tirthan-I	Tirthan	R	32
7	Tirthan-III	Tirthan	R	26
8	Rana Khad	Rana Khad	R	29
9	Tundah	Tundah	R	34
10	Baroti	Siul	S	40
11	Chhota Dara	Chandra	R	50
12	Khoksar	Chandra	R	80
13	Telling (Railing)	Chandra	S	155
14	Gondhala	Chandra	R	90
15	Jhalma	Chenab	R	275
16	Baspa-I	Baspa	S	335
17	Manali	Manalasu	R	37
18	Kulu	Beas	R	90
19	Uhl	Uhl	R	70
20	Gaj	Gaj Khad	R	34
21	Sainj-I	Sainj	R	55
<b>21</b>	<b>Total</b>	<b>21 Nos. of Projects</b>		<b>1707</b>

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

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

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		32	11567
Large Projects Identified after Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		4	375
Change in Projects due to splitting of projects (identified during reassessment study in 1978-87)		4	38
Project identified above 25 MW capacity in Reassessment Study but developed below 25 MW capacity#		-3	-200
<b>Total</b>		<b>37</b>	<b>11780</b>
I	Projects in operation	10	3360
II A	Projects under active construction	3	1661.5
II B	Projects on which construction is held up	2	898
III	Projects allotted by States for development		
	(i) Projects concurred by CEA and yet to be taken up for construction	4	3419
	(ii) Multi purpose Projects approved by MoWR	2	996
	(iii) Projects under Examination in CEA	1	390
	(iv) Projects under S&I	2	498
	(v) Projects allotted for development on which S&I is held up/ yet to be taken up	1	370
IV	Projects dropped as per Reconciliation Study by CEA in 2014	4	1030
V	Projects yet to be allotted by the State for development*	8	1332

\*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, etc.

# Dunadi (60 MW) has been developed below 25 MW as Ranjala Dunadi (15 MW) as per Reconciliation Study by CEA in 2014.

**1(A). Identified Projects during Reassessment study:**

Sl.No.	Name of Project	River	Type	I.C. (MW)
1	Shuas	Chenab	R	505
2	Berinaum	Chenab	R	435
3	Sho	Chenab	R	215
4	Naunut	Chenab	R	1120
5	Kiru	Chenab	R	295
6	Kwar	Chenab	R	440
7	Pakaldul	Marsudar	R	765
8	Bursar	Marsudar	S	195
9	Dulhasti	Chenab	R	1120
10	Naga	Kal Nai	R	29
11	Kiwa	Kal Nai	R	37
12	Tipri	Kal Nai	R	36
13	Dunadi	Kagune Garh	R	60
14	Ratle	Chenab	R	515
15	Shamnot	Chenab	R	200
16	Baglihar	Chenab	R	750
17	Bichlari	Bichlari	R	75
18	Sawalkot	Chenab	R	1350
19	Salal	Chenab	R	780
20	Sonmarg	Sind	S	155
21	Upper Sindh-I	Sind	R	65
22	Upper Sindh-II	Sind	R	140
23	Gangbal	Kankanag	S	55
24	Ganderbal	Sind	R	75
25	Karalpur	Kishan Ganga	S	280
26	Wangam	Bonar	R	60
27	Lower Jhelum	Jhelam	R	170
28	Uri	Jhelam	R	600
29	Chakothe	Jhelam	R	285
30	Chinari	Jhelam	R	475
31	Hatian	Jhelam	R	215
32	SEWA-II [Seawa]	Seawa	R	70
<b>32</b>	<b>Total</b>	<b>32 Nos. of Projects</b>		<b>11567</b>

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

**1 (B). Additional Projects (Identified after Re-Assessment Studies)**

Sl.No.	Name of Project	River	I.C. (MW)	Status
1	New Ganderwal	Jhelum/Sindh	93	Concurred
2	Lower Kalnai	Chenab	48	Under Construction
3	Parnai	Jhelam	37.5	Under Construction
4	Ujh MPP		196	Under Examination (Approved by MoWR)
<b>4</b>	<b>Sub Total</b>		<b>374.5</b>	

**1 (C). Change in Projects due to splitting of projects (identified during reassessment study in 1978-87)**

Before Splitting					After Splitting				
Sl.No.	Name of Project	River	I.C. (MW)	Status	Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Baglihar	Chenab	750	Identified	1	Baglihar	Chenab	450	In Operation
					2	Baglihar II	Chenab	450	In Operation
2	Uri	Jhelum	600	Identified	3	Uri I	Jhelum	480	In Operation
					4	Uri II	Jhelum	240	In Operation
					5	Uri-I (Stage-II)	Jhelum	240	S&I
3	Dulhasti	Chenab	1120	Identified	6	Dulhasti	Chenab	390	In Operation
					7	Dulhasti St-II	Chenab	258	S&I
<b>3</b>	<b>Sub Total</b>		<b>2470</b>		<b>7</b>			<b>2508</b>	
	Net Change in Numbers		<b>4</b>	Increase					
	Net Change in Capacity		<b>38</b>	Increase					

**1 (D). Project identified above 25 MW capacity in Reassessment Study but developed below 25 MW capacity**

Sl. No.	Name of Project	State	River	Type	I.C. (MW)	Status
1	Dunadi	Jammu & Kashmir	Kagunegarh	R	60	In Operation as Ranjala Dunadi (15 MW) As per reconciliation study 2014
2	Upper Sindh-I	Jammu & Kashmir	Sind	R	65	In Operation in 22.60 MW
3	Ganderbal	Jammu & Kashmir	Sind	R	75	In Operation in 15 MW
<b>3</b>	<b>Total</b>				<b>200</b>	

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

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

\* ALL PROJECTS ARE IN INDUS BASIN.

**3A. H.E. Projects Under Active Construction:**

Sl.No.	Name of Project	Agency	District	I.C. (MW)	River	Basin	Likely Commissioning
1	Pakal Dul	CVPPL	Kishtwar	1000	Marusadar/Chenab	Indus	2025-26 (July'25)
2	Parnai	JKSPDC	Poonch	37.5	Jhelum	Indus	2022-23 (Mar.'23)
3	Kiru	CVPPL	Kishtwar	624	Chenab	Indus	2024-25 (Aug.'24)
<b>3</b>	<b>Total</b>			<b>1661.5</b>			

**3B. H.E. Projects on which Construction is held up:**

Sl.No.	Name of Project	Agency	District	I.C. (MW)	River	Basin	Status & Likely Commissioning
1	Lower Kalnai	JKSPDC	Kishtwar	48	Chenab	Indus	Works on all fronts at Dam and Power House site are stalled since 24.01.2018 due to payment dispute with subcontractors and due to non-settlement of extension of time of the contract by the JKSPDC. 2025-26**
2	Ratle	RHEPPL	Kishtwar	850	Chenab	Indus	Project is stalled since 11.07.2014 due to various issues viz. R&R issues, Local issues, Law & order problem etc. Earlier, it was under execution by private sector developer and some works already have been done. There is no progress since 11th July, 2014. JV of Govt. of UT of J&K and NHPC has been formed. CCEA clearance received. Award of works is to be done. 2025-26**
<b>2</b>	<b>Total</b>			<b>898</b>			

\*\* Subject to re-start of work in immediate future

**4. 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	Status
1	New Ganderwal	JKSPC	Jhelum/Sindh	Ganderwal	93	10.06.14	EC accorded on 27.9.13 & FC accorded on 02.04.2012. #
2	Kwar	CVPP	Chenab	Kishtwar	540	23.02.17	EC accorded on 10.04.17. FC accorded on 08.08.14. ##
3	Kirthai-II (Naunut)	JKPDC	Chandrabhaga /Chenab	Kishtwar	930	14.06.2019	EC & FC yet to be obtained by developer. ###
4	Sawalkot	JKSPC	Chenab	Ramban & Udampur	1856	18.04.18	Fresh EC will be required for Sawalkote HEP as MoEF&CC delisted EC for the project on 04.08.2017. FC yet to be obtained. ####
<b>4</b>	<b>Total</b>				<b>3419</b>		

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

## Investment Proposal is pending with MoP, GoI for want of sanction of concessions by GoJK to make the project commercially viable. Revised Draft PIB note to MoP GoI considering exemptions accorded by GoJK and appraised cost by CEA at Sep2020 PL submitted on 21.12.2020. Board of CVPPPL decided that the tender process of the project be cancelled and tenders be re-invited through e-tender mode, due to the delay in PIB/CCEA approval of the project. Subsequently the tendering process of all the work packages was scrapped and retendering in process. PIB Proposal at September, 2020 PL for investment approval is in process in MoP.

### 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 and PTC India limited) . All clearances and TEC are yet to be transferred in favour of M/s. CVPPPL.

#### Joint survey under process. The project was handed over to NHPC vide MoU signed on 03.01.21. The project will be executed by NHPC on BOOT basis. All clearances and TEC are yet to be transferred in favour of M/s. NHPC.

**5. Multipurpose projects approved by MoWR:**

Sl. No.	Name of Project	Sector	I.C. (MW)	Month of receipt	Status
1	Bursar	Central	800	Jan-17	Cleared: PPS (14.12.16)
2	Ujh (Including Dam Toe PH)	State	196	Jan-18	Cleared: PPS (29.10.18)
<b>2</b>	<b>Total</b>		<b>996</b>		

**6. Hydro Projects Under Examination in CEA:**

Sl. No.	Name of Project	Sector	I.C. (MW)	Agency	Month of receipt
1	Kirthai -I (Sho)	State	390	JKSPDC	17-Jul-18
<b>1</b>	<b>Total</b>		<b>390</b>		

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

Sl. No.	Name of Project	Basin/River	Agency for DPR	I.C. (MW)	Date of MoA	Target date of preparation of DPR
1	Uri-I (Stage-II)	Indus/ Jhelum	NHPC	240	03.01.2021	Dec'21
2	Dulhasti St-II	Indus/ Chenab	NHPC	258	03.01.2021	Sep'22
<b>2</b>	<b>Total</b>			<b>498</b>		

**8. 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	Status
1	Shamnot	370	NHPC	-	S&I held up as the project will submerge National Highway.
<b>1</b>	<b>Total</b>	<b>370</b>			



**9. Projects dropped as per Reconciliation Study by CEA in 2014**

Sl. No.	Project Name	River	Type	I.C. (MW)	Remarks
1	Chakothe	Jhelam	R	285	Project located in POK. Hence dropped
2	Chinari	Jhelam	R	475	
3	Hatian	Jhelam	R	215	
4	Gangbal	Kankanag	S	55	Dropped due to Environmental issue
<b>4</b>	<b>Total</b>			<b>1030</b>	

**10. H. E. Projects yet to be allotted by the State for development**

Sl.No.	Name of Project	River	Type	I.C. (MW)
1	Shuas	Chenab	R	505
2	Berinaum	Chenab	R	435
3	Naga	Kal Nai	R	29
4	Kiwa	Kal Nai	R	37
5	Tipri	Kal Nai	R	36
6	Bichlari	Bichlari	R	75
7	Sonmarg	Sind	S	155
8	Wangam	Bonar	R	60
<b>8</b>	<b>Total</b>	<b>8 Nos. of Projects</b>		<b>1332</b>

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

## Status of Large Hydro Power Development in Ladakh

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		23	2046
Large Project Identified after Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		1	44
<b>Total</b>		<b>24</b>	<b>2090</b>
I	Projects in operation	2	89
II	Projects yet to be allotted by U.T. of Laddakh for development*	22	1866

\*The capacity yet to be allotted by U.T. of Laddakh for development is different from arithmetic calculation from the potential assessed due to change in capacity of the projects, addition of the projects, etc.

**1. Identified Projects during Reassessment study:**

Sl.No.	Name of Project	River	Type	I.C. (MW)
1	Kiari	Indus	R	28
2	Parfila	Zaskar	R	45
3	Paidar	Zaskar	R	46
4	Tillarchu	Zaskar	R	39
5	Nurla (Ulitopo)	Indus	R	65
6	Khalsi (Khalsti)	Indus	R	170
7	Takmaching	Indus	R	75
8	Dumkar	Indus	R	130
9	Achinthang	Indus	R	140
10	Kanyunche	Indus	R	105
11	Batalik (Sunit)	Indus	R	235
12	Parkhachik (Parkhachik Panikar)	Suru	R	110
13	Dandal (Drass Suru-I)	Drass	R	26
14	Khabru (Drass Suru-II)	Drass	R	30
15	Tahanus	Shingo	R	120
16	Karkit	Shingo	R	190
17	Gunderman	Suru	R	120
18	Chalunka	Shyok	R	45
19	Chechesna	Suru	R	47
20	Leh	Indus	R	29
21	Kesar	Indus	R	42
22	Thambas	Suru	R	29
23	Nimu	Indus	S	180
	<b>Total</b>			<b>2046</b>
24	Chutak (Suru) #	Suru	R	44
<b>24</b>	<b>Grand Total</b>	<b>24 Nos. of Projects</b>		<b>2090</b>

# Project was identified below 25 MW capacity in Reassessment Study and developed above 25 MW capacity:

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

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

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

**3. H. E. Projects yet to be allotted by U.T. of Laddakh for development**

Sl.No.	Name of Project	River	Type	I.C. (MW)
1	Kiari	Indus	R	28
2	Parfila	Zaskar	R	45
3	Paidar	Zaskar	R	46
4	Tillarchu	Zaskar	R	39
5	Nurla (Ulitopo)	Indus	R	65
6	Khalsi (Khalsti)	Indus	R	170
7	Takmaching	Indus	R	75
8	Dumkar	Indus	R	130
9	Achinthang	Indus	R	140
10	Kanyunche	Indus	R	105
11	Batalik (Sunit)	Indus	R	235
12	Parkhachik (Parkhachik Panikar)	Suru	R	110
13	Dandal (Drass Suru-I)	Drass	R	26
14	Khabru (Drass Suru-II)	Drass	R	30
15	Tahanus	Shingo	R	120
16	Karkit	Shingo	R	190
17	Gunderman	Suru	R	120
18	Chalunka	Shyok	R	45
19	Chechesna	Suru	R	47
20	Leh	Indus	R	29
21	Kesar	Indus	R	42
22	Thambas	Suru	R	29
<b>22</b>	<b>Total</b>	<b>22 Nos. of Projects</b>		<b>1866</b>

Note: R –Run of the River

## Status of Large Hydro Power Development in Punjab

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		5	971
Large Projects Identified after Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		3	205.3
Change in Projects due to splitting of projects (identified during reassessment study in 1978-87)		4	0
Project identified above 25 MW capacity in Reassessment Study but developed below 25 MW capacity		-1	-90
<b>Total</b>		<b>11</b>	<b>1086.3</b>
I	Projects in operation	9	1096.3
II	Projects under active construction	1	206
III	Projects held up due to Inter-State aspects	1	50

\*The capacity yet to be allotted by the State for development is different from arithmetic calculation from the potential assessed due to change in capacity of the projects, addition of projects, etc.

### 1 (A). Identified Projects during Reassessment study:

Sl.No.	Name of Project	River	I. C.(MW)
1	Mukerian-I,II, III & IV [Mukerian Canal]	Beas	207
2	Anadpur Sahib-I & II [Anadpur Sahib, Ph-I & II]	Sutlej	134
3	Ranjit Sagar [Thein]	Ravi	325
4	Shahpurkandi [Shahpur]	Ravi	215
5	UBDC	Ravi	90
<b>5</b>	<b>TOTAL</b>		<b>971</b>

**1 (B). Additional Projects (Identified after Re-Assessment Studies)**

Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Ganguwal	Satluj	77.65	In Operation
2	SYL		50	Inter-State
3	Kotla	Satluj	77.65	In Operation
<b>3</b>	<b>Sub Total</b>		<b>205.3</b>	

**1 (C). Change in Projects due to splitting of projects (identified during reassessment study in 1978-87)**

Before Splitting					After Splitting				
Sl.No.	Name of Project	River	I.C. (MW)	Status	Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Anandpur Sahib PH I & II	Sutlej	134	Identified	1	Anandpur Sahib I	Sutlej	67	In Operation
					2	Anandpur Sahib II	Sutlej	67	In Operation
2	Mukerian Canal	Beas	207	Identified	3	Mukerian I	Beas	45	In Operation
					4	Mukerian II	Beas	45	In Operation
					5	Mukerian III	Beas	58.5	In Operation
					6	Mukerian IV	Beas	58.5	In Operation
<b>2</b>	<b>Sub Total</b>		<b>341</b>		<b>6</b>			<b>341</b>	
	Net Change in Numbers		<b>4</b>	Increase					
	Net Change in Capacity		<b>0</b>	No Change					

**1 (D). Project identified above 25 MW capacity in Reassessment Study but developed below 25 MW capacity**

Sl. No.	Name of Project	State	River	Type	I.C. (MW)	Status
1	UBDC	Punjab	Ravi	R	90	**
<b>1</b>	<b>Total</b>				<b>90</b>	

\*\* All three units of UBDC Stage-I have been developed in different locations with (.C. (15 MW) less than 25 MW each. The distance between different locations varies from 3 to 5 km. In UBDC Stage-II also three units have been developed in different locations as above. The distance between each unit of Stage-II w.r.t. corresponding unit of Stage-II is approxi. 100m

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

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

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

Sl. No.	Name of Project	Implementing Agency	District	River /Basin	I. C. (MW)	Likely Commissioning
1	Shahpurkandi [Shahpur]	Irr. Deptt. & PSPCL	Gurdaspur	Ravi /Indus	206	2023-24 (Dec.'23)
<b>1</b>	<b>Total</b>				<b>206</b>	

**4. H.E. Projects held up due to Inter-State aspects:**

Sl. No.	Name of Project	I.C. (MW)	Location (State)	States Involved	Status
1	SYL (2x18+2x7 =50 MW)	50	Punjab	Punjab/ Haryana/ Rajasthan.	<ul style="list-style-type: none"> <li>•Cleared by CEA in 12/1987 at an estimated cost of Rs.101.28 crores (5/1985 PL).</li> <li>•Work on the canal on which project is located is held up.</li> <li>• Haryana and Rajasthan have raised question regarding their shares of power as it envisages utilizing common facilities and water belonging to all three states, viz. Haryana, Punjab &amp; Rajasthan.</li> </ul>
<b>1</b>	<b>Total</b>	<b>50</b>			



## Status of Large Hydro Power Development in Rajasthan

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		5	483
Project(s) Identified in this State but developed/being developed in other State(s) #		-1	-115
<b>Total</b>		<b>4</b>	<b>368</b>
<b>I</b>	<b>Projects in operation</b>	4	411

# Gandhi Sagar (115 MW) was identified in Rajasthan but has been developed in Madhya Pradesh.

### 1. Identified Projects during Reassessment study:

Sl. No.	Name of Project	River	I. C. (MW)
1	Gandhi Sagar	Chambal	115
2	Rana Pratap Sagar	Chambal	172
3	Jawahar Sagar	Chambal	99
4	Mahi Bajaj - I [Mahi Bajaj Sagar St-II]	Mahi	60
5	Mahi Bajaj - I [Mahi Bajaj Sagar St-I]	Mahi	37
<b>5</b>	<b>TOTAL</b>		<b>483</b>

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

SL. NO.	UTILITY/ STATIONS	NO. OF STATIONS	NO. OF UNITS X CAPACITY (MW)	RIVER	BASIN	DISTRICT	I.C. (MW)	YEAR OF COMMISSIONING
1	JAWAHAR SAGAR	1	(3X33)	CHAMBAL	GANGA	BUNDI	99	1972-1973
2	MAHI BAJAJ-I [Mahi Bajaj Sagar St-I]	1	(2X25)	MAHI	CIR	BANSWARA	50	1986
3	MAHI BAJAJ-II [Mahi Bajaj Sagar St-II]	1	(2X45)	MAHI	CIR	BANSWARA	90	1989
4	R P SAGAR	1	(4X43)	CHAMBAL	GANGA	CHITTORGARH	172	1968
<b>4</b>	<b>TOTAL RRVUNL</b>	<b>4</b>					<b>411</b>	

**Note: Mahi Bajaj Sagar I & II (140 MW) were identified for I.C. of 97 MW.**

## Status of Large Hydro Power Development in Uttar Pradesh

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		6	664
Large Project Identified after Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		1	90
Project identified above 25 MW capacity in Reassessment Study but developed below 25 MW capacity		-1	-35
Project(s) Identified in this State but developed/being developed in other State(s) #		-1	-39
<b>Total</b>		<b>5</b>	<b>680</b>
I	Projects in operation	4	501.6
II	Projects held up due to Inter-State aspects	1	90

# One project, Orchha is under Inter-State issue in the State of M.P. for 90 MW.

**1 (A). Identified Projects during Reassessment study:**

Sl. No.	Name of Project	River	Type	I. C. (MW)
1	Khara	Yamuna	R	160
2	Matatila	Betwa	S	31
3	Orchha #	Betwa	R	39
4	Rihand	Rihand	S	300
5	Obra	Rihand	R	99
6	Eastern Yamuna Canal ##	Yamuna	R	35
<b>6</b>	<b>TOTAL</b>			<b>664</b>

# Orchha is under Inter-State issue in the State of M.P. for 90 MW.

## Eastern Yamuna Canal project (35 MW) has been developed in 2 stages each having Installed Capacity below 25 MW

**1 (B). Additional Projects (Identified after Re-Assessment Studies)**

Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Panchnaad MPP		90	Inter-State
<b>1</b>	<b>Sub Total</b>		<b>90</b>	

**1 (C). Project identified above 25 MW capacity in Reassessment Study but developed below 25 MW capacity**

Sl. No.	Naome of Project	State	River	Type	I.C. (MW)	Status
1	Eastern Yamuna Canal	Uttar Pradesh	Yamuna	R	35	Developed in 2 stages below 25 MW
<b>1</b>	<b>Total</b>				<b>35</b>	

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

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

\* ALL PROJECTS ARE IN GANGA BASIN.

**3. H.E. Projects held up due to Inter-State aspects:**

Sl. No.	Name of Project	I.C. (MW)	Location (State)	States Involved	Status
1	Panchnad MPP (6x15 = 90MW)	90	U.P.	U.P./M.P/ Rajasthan	DPR with Project estimated cost of Rs 559 Crores (6/1983 PL) returned. Involves submergence in MP and Rajasthan.
1		90			

### Status of Large Hydro Power Development in Uttarakhand

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		84	17998
Large Project Identified after Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		1	76
Change in Projects due to splitting of projects (identified during reassessment study in 1978-87)		2	-830
Change in Projects due to merging of projects (identified during reassessment study in 1978-87)		-4	184
<b>Total</b>		<b>83</b>	<b>17428</b>
I	Projects in operation	17	3855.35
II A	Projects under active construction	3	624
II B	Projects on which construction is held up	3	767
III	Projects allotted by States for development		
	(i) Projects concurred by CEA and yet to be taken up for construction	3	815
	(ii) Projects under Examination in CEA	1	300
	(iii) Projects returned to project authorities	5	489
	(iv) Multi Purpose Projects (International Projects) under examination by India and Nepal	2	2400
	(v) Projects under S&I	3	514
	(vi) Projects allotted for development on which S&I is held up/ yet to be taken up	15	2402
IV	Projects dropped/stuck due to Basin studies/ Other reasons	6	2162
V	Projects yet to be allotted by the State for development*	25	3394

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 Dec.'2022.

\*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 more than one projects into one etc.

**1 (A). Additional Projects (Identified after Re-Assessment Studies)**

Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Phata Byung	Mandakini/ Alaknanda	76	Under Construction
<b>1</b>	<b>Sub Total</b>		<b>76</b>	

**1 (B). Change in Projects due to splitting of projects (identified during reassessment study in 1978-87)**

Before Splitting					After Splitting				
Sl.No.	Name of Project	River	I.C. (MW)	Status	Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Kotlibhel	Bhagirathi	1875	Identified	1	Kotlibhel-IA	Bhagirathi	195	Concurred
					2	Kotlibhel-IB	Bhagirathi	320	Concurred
					3	Kotlibhel-II	Bhagirathi	530	Dropped
<b>1</b>	<b>Sub Total</b>		<b>1875</b>		<b>3</b>	<b>Sub Total</b>		<b>1045</b>	
	Net Change in Numbers		<b>2</b>	Increase					
	Net Change in Capacity		<b>-830</b>	Decrease					

**1 (C). Change in Projects due to merging of projects (identified during reassessment study in 1978-87)**

Before Merging					After Merging				
Sl.No.	Name of Project	River	I.C. (MW)	Status	Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Taluka Saul	Tons	39	Identified	1	Taluka Sankri	Tons	140	Held Up
2	Sankri Kunare	Tons	33	Identified					
3	Pala Bhela Tipri	Bhagirathi	165	Identified	2	Pala Maneri	Bhagirathi	480	Dropped
4	Bhela Tipri	Bhagirathi	100	Identified					
5	Gangotri	Bhagirathi	70	Identified	3	Bhaironghati	Bhagirathi	381	Dropped
6	Bhairon Ghati	Bhagirathi	60	Identified					
7	Harsil Dam	Bhagirathi	350	Identified					
<b>7</b>	<b>Sub Total</b>		<b>817</b>		<b>3</b>	<b>Sub Total</b>		<b>1001</b>	
	Net Change in Numbers		<b>-4</b>	Decrease					
	Net Change in Capacity		<b>184</b>	Increase					

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

S. NO.	UTILITY/ STATIONS	NO. OF STNS.	NO. OF UNITS X CAPACITY (MW)	RIVER	DISTRICT	I.C. (MW)	YEAR OF COMMISSIONING
	<b>CENTRAL SECTOR</b>						
	<b>NHPC</b>						
1	DHAULI GANGA [ KHET TAWAGHAT]	1	(4X70)	DHAULIGANGA	PITHORAGARH	280	2005
2	TANAKPUR	1	(3X31.4)	SARDA	CHAMPAVAT	94.2	1992
	<b>SUB-TOTAL NHPC</b>	<b>2</b>				<b>374.2</b>	
	<b>THDC</b>						
3	TEHRI ST-I [TEHRI DAM ST-I]	1	(4X250)	BHAGIRATHI	TEHRI GARHWAL	1000	2006-2007
4	KOTESHWAR	1	(4X100)	BHAGIRATHI	TEHRI GARHWAL	400	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) [CHIBRO]	1	(4X60)	Tons River at Ichari Dam	DEHRADUN	240	1975-1976
6	CHILLA [RISHIKESH HARDWAR]	1	(4X36)	GANGA	HARIDWAR	144	1980-1981
7	DHAKRANI	1	(3X11.25)	Tons & Yamuna Rivers at Dakpathar Barrage	DEHRADUN	33.75	1965-1970
8	DHALIPUR	1	(3X17)	Tons & Yamuna Rivers at Dakpathar Barrage	DEHRADUN	51	1965-1970
9	KHATIMA	1	(3X13.8)	SHARDA	UDHAM SINGH NAGAR	41.4	1955-1956
10	KHODRI	1	(4X30)	TONS	DAK PATHAR	120	1984
11	KULHAL	1	(3X10)	TONS	DEHRADUN	30	1975
12	MANERI BHALI- I	1	(3X30)	BHAGIRATHI	UTTARKASHI	90	1984
13	MANERI BHALI- II	1	(4X76)	BHAGIRATHI	UTTARKASHI	304	2008



14	RAMGANGA [ RAMGANGA DAM (KALAGARH)]	1	(3X66)	RAMGANGA	PAURI GARHWAL	198	1975-1977
	<b>TOTAL UJVNL</b>	<b>10</b>				<b>1252.15</b>	
	<b>PRIVATE</b>						
	<b>AHPC</b>						
15	SHRINAGAR	1	(4X82.50)	ALAKNANDA	TRHRI & PAURI	330	2015
	<b>JPPVL</b>						
16	VISHNU PRAYAG	1	(4X100)	ALAKNANDA		400	2006
	<b>L&amp;T</b>						
17	SINGOLI BHATWARI	1	(3X33)			99	2020
	<b>SUB TOTAL PRIVATE</b>	<b>3</b>				<b>829</b>	
<b>17</b>	<b>TOTAL UTTARAKHAND</b>	<b>17</b>				<b>3855.35</b>	

**Note: ALL PROJECTS ARE IN GANGA BASIN**

**2A. H.E. Projects under active Construction:**

Sl. No.	Name of Project	Agency	District	I.C. (MW)	River	Basin	Likely Commissioning
1	Vishnugad Pipalkoti	THDC	Chamoli	444	Alaknanada	Ganga	2023-24 (Dec'23)
2	Naitwar Mori	SJVNL	Uttarkashi	60	Tons/ Yamuna	Ganga	2022-23 (Jun'22)
3	Vyasi [Lakhwar Vyasi - II]	UJVNL	Dehradun	120	Yamuna/Ganga	Ganga	2022-23 (Apr.'22)
<b>3</b>	<b>Total</b>			<b>624</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 Dec.'2022.

**2B. H.E. Projects on which Construction is held up:**

Sl. No.	Name of Project	Agency	District	I.C. (MW)	River	Basin	Status & Likely Commissioning
1	Lata Tapovan	NTPC	Chamoli	171	Dhauliganga / Alaknanada	Ganga	Subsequent to the Uttarakhand disaster in June, 2013, Hon'ble Supreme Court gave the judgment on 13.08.2013 that "MoEF as well as State of Uttarakhand not to grant any further environmental clearance or forest clearance for any hydroelectric power project in the State of Uttarakhand, until further orders". Therefore, the construction work stopped. The matter is sub-judice. 2025-26*
2	Phata Byung	LANCO	Rudraprayag	76	Mandakini/ Alaknanda	Ganga	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 has initiated the process for inviting prospective investors for the project. 2024-25*
3	Tapovan Vishnugad [Tapovan Chunar]	NTPC	Chamoli	520	Dhauliganga / Alaknanada	Ganga	On 07.02.2021, there was a sudden flash flood in Dhaulti Ganga river due to an avalanche resulting in part damage to NTPC hydro power plant. A detailed analysis is to be done to assess the extent of physical and financial damage to the project. A team of Expert(TOE) from CWC, CEA, GSI, CSMRS and NTPC have been constituted for preparing action plan for restoration of project. 2023-24*
<b>3</b>	<b>Total</b>			<b>767</b>			

\* Subject to re-start of work in immediate future

**3. 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)	Status
1	Kotlibhel St-IA # [Kotlibhel]	Bhagirathi	NHPC	Tehri Garhwal	195	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 # [Kotlibhel]	Alaknanda	NHPC	Pauri & Tehri Garhwal	320	EC accorded earlier on 14.08.07 is withdrawn on 15.09.10. MoEF&CC declined FC-I on 7.07.11.
3	Alaknanda # [Badri Nath]	Alaknanda	GMR	Chamoli	300	E.C. accorded on 12.3.08 F.C. - St-I obtained on 8.11.11. St-II obtained on 09.11.2012.
<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 given its report to MoEF&CC in Sept, 2017. The expert Body has recommended 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.

NHPC vide letter dated 09.07.2020 has sought clarification from AIG (Forest), MoEF&CC on various aspects related to validity of Forest Clearance (St-I) issued for KB- IA and NPV paid for the project. Further, AIGF vide letter dated 23.07.2020 has requested Addl. Chief Secretary (Forest), GoUK to provide details of amount deposited against the project so that the same can be confirmed from N-CAMPA for further action in the matter.

**4. Hydro Projects Under Examination in CEA:**

Sl. No.	Name of Project	River	Sector	I.C. (MW)	Agency
1	Bowala Nand Paryag	Alaknanda	State	300	UJVNL
<b>1</b>	<b>Total</b>			<b>300</b>	

**5. Multi purpose projects (International Projects) under examination by India and Nepal**

Sl.No.	Name of Project	River	Type	I.C.(MW)
1	Pancheshwar MPP [Pancheshwar - I]	Sarda	S	1335
2	Rupali Garh Regulating Dam [Pancheshwar - II]	Sarda	S	1065
<b>2</b>	<b>Total</b>			<b>2400</b>

Note: S- Storage

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

Sl. No.	Name of Project	River	Agency	Sector	I.C.	Month of Return
					(MW)	
1	Nand Prayag Langasu	Alaknanda	UJVNL	State	100	Apr-11
2	Mori Hanol [Ugmir]	Tons		Private	63	Jan-10
3	Bogudiyar Sirkari Bhyol	Gori Ganga	GVK L&T	Private	146	Sep-10
4	Tiuni Plasu [Tiuni]	Tons	UID	State	72	Oct-10
5	Jhelum Tamak	Dhauliganga	THDCIL	Central	108	Aug-19
<b>5</b>	<b>Total</b>				<b>489</b>	

### 7. H.E. Projects under Survey & Investigation:

Sl. No.	Name of Project	Basin/River	I.C. (MW)	Agency	Target date of preparation of DPR
1	Sirkari Bhyol Rupsiabagar	Gori Ganga	120	UJVNL	Jul'21
2	Bokang Bailing	Dhauliganga	200	THDC	Sep'21
3	Devsari	Pinder	194	SJVNL	Mar'22
3	<b>Total</b>		<b>514</b>		

### 8. 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	Date of Allotment/ MoA	Status
1	Arakot Tiuni [Nakot Patlasu]	Pabar , Tons	72	UID	-	MOEF clearance awaited. S&I yet to be taken up.
2	Chhunger - Chal	Dhauliganga	120	NHPC	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.
3	Garba Tawaghat	Goriganga	630	NHPC	21.11.2005	MoEF&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.
4	Urthing Sobla	Dhauliganga	280	Reliance Power Ltd.	-	MoEF Clearance awaited. S&I heldup as the project area falls under ASkot Musk deer Sanctuary
5	Sela Urthing	Dhauliganga	230	UJVNL	09.12.2004	Road connectivity is not proper upto the project site. S&I shall be taken up after confirmation of levels.
6	Jadh Ganga	Jadh Ganga	50	THDC	21.11.2005	Project included in the list of 24 HE peroproject named in PIL under consideration by Hon'ble Supreme Court. Project also fall in Gangotri National Park and notified as Eco-Sensitive Zone by central Govt. Hence no activities are being taken up. <b>Proposed to be dropped as per Draft final Report of EB-II.</b>
7	Karmoli	Jadh Ganga	140	THDC	21.11.2005	Project included in the list of 24 HE peroproject named in PIL under consideration by Hon'ble Supreme Court. Project also fall in Gangotri National Park (notified as Eco-Sensitive Zone by Central Govt). Hence no activities are being taken up. <b>Proposed to be dropped as per Draft final Report of EB-II.</b>

Sl. No.	Project	River	I. C. (MW)	Agency	Date of Allotment/ MoA	Status
8	Rishi Ganga - I	Rishi Ganga	70	UJVNL	09.12.2004	Project included in the list of 24 HE peroproject named in PIL under consideration by Hon'ble Supreme Court. <b>Proposed to be dropped as per Draft final Report of EB-II.</b>
9	Rishi Ganga - II	Rishi Ganga	35	UJVNL	09.12.2004	Project included in the list of 24 HE peroproject named in PIL under consideration by Hon'ble Supreme Court. <b>Proposed to be dropped as per Draft final Report of EB-II.</b>
10	Taluka Sankri [Taluka Saul + Sankri Kunare]	Tons	140	UJVNL	09.12.2004	Project located in Govind Pashu Vihar & Govind National Park.
11	Gohana Tal	Birahi Ganga	50	THDC	21.11.2005	Project included in the list of 24 HE peroproject named in PIL under consideration by Hon'ble Supreme Court. Further, the project shall not be viable due to Gazette of India, notification dtd. 09.10.2018 on e-flows. <b>Proposed to be dropped as per Draft final Report of EB-II.</b>
12	Karmoli Lumti Tulli [Khartoli Lumti Talli]	Goriganga	40	NHPC	07.04.2005	Project falls within 10 km from boundary of Askot Wildlife sanctuary. PCCF (Wildlife) and Chief Warden Wildlife, Dehradun has since granted permission for S&I on 13.12.2016. <b>NHPC vide letter dated 16.07.2019 intimated GoUK that project is commercially unviable.</b>
13	Maleri Jhelam [Malari Jhelam]	Dhauliganga	65	THDC	21.11.2005	Project included in the list of 24 HE peroproject named in PIL under consideration by Hon'ble Supreme Court. Project is not viable as the e-flows have been increased vide The Gazette of India Dtd. 09.10.2018. <b>Proposed to be dropped as per Draft final Report of EB-II.</b>
14	Mapang - Bogidiyar	Goriganga	200	GVK-L&T	07.05.2005	S&I held up due to Supreme Court order directing MoEF and State of Uttarakhand not to grant any Environmental Clearance or Forest Clearance for any hydro electric project in the State of Uttarakhand until further orders. <b>State of Uttarakhand has scrapped the project and planning to re-tender for the same.</b>
15	Tamak Lata	Dhauliganga	280	UJVNL	09.12.2004	Project <b>included in the list of 24 HE peroproject</b> named in PIL under consideration by Hon'ble Supreme Court.
<b>15</b>	<b>Total</b>		<b>2402</b>			

**9. Projects dropped/ Stuck due to Basin studies/ Other reasons:**

Sl. No.	Project	I.C. (MW)	River	Basin	Remarks
1	Pala Maneri * [Pala Bhela Tipri + Bhela Tipri]	480	Bhagirath	Ganga	The project has been discontinued by Govt. of Uttarakhand due to additional conditions for environmental safeguards vide order dated 3.01.11.
2	Kotlibhel St-II [Kotlibhel]	530	Bhagirath	Ganga	MoEF on 22.11.2010 has withdrawn the environment clearance. FC-I declined on 5.07.11. 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 given its report to MoEF&CC in Sept, 2017. The expert Body has recommended to drop the project to preserve Mahseer.
3	Loharinagpala * [Lohari Nag Tharang]	360	Bhagirath	Ganga	Project discontinued by NGRBA
4	Bhaironghati * [Gangotri + Bhaironghati + Harsil Dam]	381	Bhagirath	Ganga	Project discontinued by NGRBA
5	Rupsiyabagar Khasiyabara	261	Gauri Ganga	Ganga	EC accorded on 26.03.09. FC-I accorded on 17.06.2006 and FC-II yet to be obtained. MoEF&CC declined FC due to project location in highly sensitive wild life habitat.
6	Goriganga-III A	150	Gauri Ganga	Ganga	The DPR has been examined and cleared from planning, design & cost angle, financial and commercial angle. It has been observed that first year and levelised tariff computed by NHPC are of the order of ₹8.09/kWh and ₹8.13/kWh respectively which are on higher side and the same was communicated to NHPC vide letter dated 25.08.2020. NHPC limited vide letter dated 23.10.2020 has intimated that in order to bring down the tariff they have requested Govt. of Uttarakhand for providing waiver of free power, State GST concession and subordinate loan. NHPC has also asked Ministry of Power to take up the matter with Govt. of Uttarakhand for extending support through concessions. Considering that above matter may take some time to conclude in NHPC's favour, the examination of DPR of Goriganga-III A H.E. project has been suspended till such time. DPR examination shall be continued here onwards after above issues are resolved with State Govt.
<b>6</b>	<b>Total</b>	<b>2162</b>			

\* As per MoP letter dated 24.12.2010 in the meeting of NGRBA held on 1.11.2010 under the chairmanship of Hon'ble Prime Minister, it was decided to discontinue Loharinag Pala, Pala Maneri and Bhaironghati H.E. Projects on Bhagirathi.

**10. H. E. Projects yet to be allotted by the State for development**

Sl.No.	Name of Project	River	Type	I.C.(MW)
1	Kishau Dam	Tons	S	350
2	Pisha Naitwar	Rupin	R	30
3	Ram Ganga Dam	Ram Ganga	S	75
4	Kuwa ford	Yamuna	R	42
5	Nelang	Jadh Ganga	R	190
6	Ganga Canal	Ganga	R	31
7	Diulong Sumangaon	Bhagirathi	R	26
8	Dhargaon Jhandarwali	Bhagirathi	R	29
9	Jamolna Ghansyali	Bhagirathi	R	44
10	Nayar Dam	Nayar	S	34
11	Benakuli	Alaknanda	R	40
12	Khel Kuran Neti	Dhaulti Ganga	R	49
13	Niti Ghansali	Dhaulti Ganga	R	32
14	Bampa Kurkuti	Dhaulti Ganga	R	60
15	Girithi Ganga	Girithi Ganga	R	34
16	Deodi	Rishi Ganga	R	65
17	Tikh Gurupha	Pindar	R	26
18	Malkhet Dam	Pindar	S	37
19	Banoli Nalgam	Pindar	R	55
20	Lakhwar MPP (Lakhwar Vyasi - I)	Yamuna	S	115
21	Uttyasu Dam	Alaknanda	S	1140
22	Sobla Jhimirigaon	Dhaulti Ganga	R	145
23	Tawaghat Dharchula	Sarda	R	310
24	Kalika Dantu	Sarda	R	140
25	Garjia Dam	Gori Ganga	S	295
<b>25</b>	<b>Total</b>	<b>25 nos. of projects</b>		<b>3394</b>

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



## Status of Large Hydro Power Development in Chhattisgarh

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		15	2202
I	Projects in operation	1	120
II	Projects dropped due to Basin studies/ Other reasons	1	60
III	Projects yet to be allotted by the State for development*	13	2109

\*The capacity, yet to be allotted by the State for development is different from arithmetic calculation from the potential assessed due to change in capacity of the Projects.

### 1. Identified Projects during Reassessment study:

Sl.No.	Name of Project	River	I. C. (MW)
1	Joka	Kanhar	28
2	Kharauli	Mahan	46
3	Pasal	Rihand	55
4	Duniadhik (Duniadhin)	Rihand	80
5	Rehar-II (Karri)	Rihand	70
6	Hasdeo Bango [Hasdeo (Bango)]	Hasdeo	55
7	Konta	Sabari	65
8	Matnar (Chitrakot)	Indravati	38
9	Bodhghat	Indravati	295
10	Kutru-I	Indravati	100
11	Kutru-II	Indravati	155
12	Nugur-I	Indravati	160
13	Bhopalapatnam	Indravati	715
14	Nugur-II	Indravati	270
15	Kotri	Kotri	70
<b>15</b>	<b>Total</b>		<b>2202</b>

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

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

**3. H.E. Projects dropped due to Basin studies/ Other reasons:**

Sl. No.	Name of Project	I.C. (MW)	River	Basin	Remarks
1	Matnar [Chitrakot]	60	Indravati	EFR	As per MoEF&CC, matter of FC is closed. As per developer, project seems not to viable with revised IC of 40 MW and it is expected to be dropped
<b>1</b>	<b>Total</b>	<b>60</b>			

**4. H. E. Projects yet to be allotted by the State for development**

Sl. No.	Name of Project	River	Type	I.C. (MW)
1	Joka	Kanhar	S	28
2	Kharauli	Mahan	R	46
3	Pasal	Rihand	S	55
4	Duniadhah (Duniadhah)	Rihand	S	80
5	Rehar-II (Karri)	Rihand	R	70
6	Konta	Sabari	R	65
7	Bodhghat	Indravati	S	295
8	Kutru-I	Indravati	S	100
9	Kutru-II	Indravati	S	155
10	Nugur-I	Indravati	S	160
11	Bhopalapatnam	Indravati	S	715
12	Nugur-II	Indravati	S	270
13	Kotri	Kotri	S	70
<b>13</b>	<b>Total</b>	<b>13 Nos. of Projects</b>		<b>2109</b>

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

## Status of Large Hydro Power Development in Goa

	No.	I.C. (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)	1	55
Projects yet to be allotted by the State for development	1	55

### 1. Identified Project during Reassessment study :

Sl.No.	Name of Scheme	River	I. C. (MW)
1	Sonal	Mandavi	55
1	<b>TOTAL</b>		<b>55</b>

### 2. H. E. Project yet to be taken up for development

Sl.No.	Name of Project	River	Type	I.C. (MW)
1	Sonal	Mandavi	S	55
1	<b>Total</b>	<b>1 No. of Project</b>		<b>55</b>

**Note: S- Storage**

**Status of Large Hydro Power Development in Gujarat**

		<b>Nos.</b>	<b>Capacity (MW)</b>
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		2	590
I	Capacity in operation	2	550

Note : In addition to above, two pumped storage projects, namely Kadana St. I & II (2x60 + 2x60 = 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.

**1. Identified Projects during Reassessment study:**

<b>Sl.No.</b>	<b>Name of Project</b>	<b>River</b>	<b>I. C. (MW)</b>
1	Ukai [Ukai Dam PH]	Tapti	120
2	Sardar Sarovar CHPH [Sardar Sarovar]	Narmada	470
<b>2</b>	<b>TOTAL</b>		<b>590</b>

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

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

\* All projects are in CIR Basin

Note : In addition to above, two pumped storage projects, namely Kadana St. I & II (2x60 + 2x60 = 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.

## Status of Large Hydro Power Development in Maharashtra

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		25	3314
Project identified below 25 MW capacity in Reassessment Study but developed above 25 MW capacity		1	34
<b>Total</b>		<b>26</b>	<b>3348</b>
I	Projects in operation	12	2647
II	Projects yet to be allotted by the State for development*	14	1932

Note : In addition to above, two pumped storage projects, namely Ghatgar (2x125 = 250 MW) and Bhira (1x150 = 150 MW) are constructed & working in pumping mode while construction on one project, namely Koyna Left Bank (2x40= 80 MW) is held up and it is likely to be commissioned by 2025-26 subject to re-start of work in immediate future .

\*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 of the projects,etc.

**1 (A). Identified Projects during Reassessment study**

Sl.No.	Name of Project	River	I. C. (MW)
1	Vaitarna (Vaitarna I)	Vaitarna	28
2	Bhira Tail Race	Kundalik	55
3	Tillari	Tillari	39
4	Pench	Pench	85
5	Gosikhurd (Pathri)	Wainganga	40
6	Wainganga	Wainganga	150
7	Samda	Pranhita	95
8	Chichdoh Barrage (Ghargaon)	Pranhita	105
9	Kunghara	Pranhita	115
10	Pranhita	Pranhita	310
11	Sahasrakund (Sahasrakund I)	Penganga	29
12	Bhivpuri	Andhra	85
13	Khopoli	Ganga	70
14	Bhira	Mula	215
15	Koyna St-IV	Koyna	350
16	Koyna St-III	Koyna	145
17	Koyna St-I & II	Koyna	245
18	Koyna Dam PH	Koyna	65
19	Patharpunj	Varna	29
20	Kadvi	Varna	215
21	Varna (Varna)	Varna	27
22	Kasari (Kasari-I)	Kasari	215
23	Kumbhi (Kubhi-I)	Penganga	170
24	Kumbhi (Kumbhi-II)	Penganga	27
25	Hiranyakeshi (Hiranyakeshi II)	Vedganga	405
<b>25</b>	<b>TOTAL</b>		<b>3314</b>

**1 (B). Project identified below 25 MW capacity in Reassessment Study but developed above 25 MW capacity**

Sl.No.	Name of Project	River	I.C. (MW)	Status	Remarks
1	Bhandardhara St.II	Pravara	34	In Operation	Bhandardhara-II - 14 MW
<b>1</b>	<b>Sub Total</b>		<b>34</b>		

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

S. No.	Utility/	No. Of stns.	No. Of units x Capacity (MW)	River	Basin	District	I.C. (MW)	Year of commissioning
<b>MAHAGENCO</b>								
1	BHIRA TAIL RACE	1	(2X40)	KUNDALIKA	WFR	RAIGAD	80	1987-1988
2	KOYNA DPH	1	(2X18)	KOYNA	EFR	SATARA	36	1980-1981
3	KOYNA-I&II	1	(4X70)+ (4X80)	KOYNA	EFR	PATAN	600	1962-1967
4	KOYNA-III	1	(4X80)	Water let out through ulestward units (St-I,II & IV)	EFR	RATNAGIRI	320	1975-1978
5	KOYNA-IV	1	(4X250)	KOYNA	EFR	SATARA	1000	1999-2000
6	TILLARI	1	(1X60)	TILLARI	WFR	KOLHAPUR	60	1986
7	VAITARNA (Vaitarna I)	1	(1X60)	VAITARNA	WFR	NASIK	60	1976
	<b>SUB-TOTAL MAHAGENCO</b>	<b>7</b>					<b>2156</b>	
<b>MPPGCL</b>								
8	PENCH	1	(2X80)	PENCH	EFR	CHINDWARA	160	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	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	1927-1949
11	BHIVPURI	1	(3X24) + (2X1.5)	ANDHRA	EFR	RAIGAD	75	1997-1999
12	KHOPOLI	1	(3X24)	INDRAYANI	EFR	RAIGAD	72	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 : In addition to above, two pumped storage projects, namely Ghatgar (2x125 = 250 MW) and Bhira (1x150 = 150 MW) are constructed & working in pumping mode while construction on one project, namely Koyna Left Bank (2x40= 80 MW) is held up and it is likely to be commissioned by 2025-26 Subject to re-start of work in immediate future.



**3. H. E. Projects yet to be allotted by the State for development**

Sl .No.	Name of Project	River	Type	I.C.(MW)
1	Gosikhurd (Pathri)	Wainganga	S	40
2	Wainganga	Wainganga	S	150
3	Samda	Pranhita	R	95
4	Chichdoh Barrage (Ghargaon)	Pranhita	R	105
5	Kunghara	Pranhita	R	115
6	Pranhita	Pranhita	S	310
7	Sahasrakund (Sahasrakund I)	Penganga	S	29
8	Patharpunj	Varna	S	29
9	Kadvi	Varna	S	215
10	Kesari (Kasari-I)	Kasari	S	215
11	Kumbhi (Kubhi-I)	Penganga	S	170
12	Kumbhi (Kubhi-II)	Penganga	R	27
13	Warna (Varna)	Varna	S	27
14	Hiranyakeshi (Hiranyakeshi II)	Vedganga	S	405
<b>14</b>	<b>Total</b>	<b>14 Nos. of Projects</b>		<b>1932</b>

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

### Status of Large Hydro Power Development in Madhya Pradesh

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		13	1970
Large Projects Identified after Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		2	110
Projects Identified in other State(s) but developed/being developed in this State #		2	205
<b>Total</b>		<b>17</b>	<b>2285</b>
I	Projects in operation	9	2235
II	Projects on which construction is held up	1	400
III	Projects held up due to Inter-State aspects	2	140
IV	Projects dropped due to Basin studies/ Other reasons	1	100
V	Projects yet to be allotted by the State for development*	4	191

# Gandhi Sagar in Rajasthan & Orchha in U.P.

\*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 of the projects, etc.

<b>1 (A). Identified Projects during Reassessment study</b>			
<b>S.No.</b>	<b>Name of Project</b>	<b>River</b>	<b>I.C. (MW)</b>
1	Sone (Chorhat)	Sone	55
2	Bansagar-III (Bansagar)	Sone	45
3	Bansagar-II (Beehar)	Tons	30
4	Bansagar-I (Tons HE Projects)	Tons	315
5	Rajghat	Betwa	29
6	Dhurwara	Betwa	28
7	Burhner	Burhner	28
8	Basania	Narmada	60
9	Bargi	Narmada	115
10	Hoshangabad (Jahanpur)	Narmada	75
11	Indira Sagar (Narmada Sagar)	Narmada	675
12	Omkareshwar	Narmada	290
13	Maheshwar	Narmada	225
<b>13</b>	<b>Total</b>		<b>1970</b>

**1 (B). Additional Projects (Identified after Re-Assessment Studies)**

<b>Sl.No.</b>	<b>Name of Project</b>	<b>River</b>	<b>I.C. (MW)</b>	<b>Status</b>
1	Ken	Ken	50	Inter-State
2	Madhikhera	Kali Sindh	60	In Operation
<b>2</b>	<b>Sub Total</b>		<b>110</b>	

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

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

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

Sl. No.	Name of Project	I. C. (MW)	District	River	Basin	Agency	Status & Likely Commissioning
1	Mareshwar (Pvt.) #	400	Khargone & Khandwa	Narmada	CIR	SMHPCL	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. 2023-24*
<b>1</b>	<b>Total</b>	<b>400</b>					

\* Subject to re-start of work in immediate future

**4. H.E. Projects held up due to Inter-State aspects:**

Sl. No.	Name of Project	I.C. (MW)	Location (State)	States Involved	Status
1	<b>Orcha MPP</b> (2x30+2x15 = 90 MW)	90	M.P.	U.P./M.P.	<ul style="list-style-type: none"> <li>· DPR with estimated cost of Rs. 89.01 crores (3/1980 PL) returned in 07/1985.</li> <li>· Inter-state aspects mainly relate to submergence under the reservoir as well as sharing of water below Orcha.</li> </ul>
2	<b>Ken</b> (2x15+2x10 =50 MW)	50	M.P.	U.P./M.P.	<ul style="list-style-type: none"> <li>· DPR with estimated cost of Rs 202.06 crores returned in 2/1987.</li> <li>· The yield at the project site and sharing of water u/s &amp; d/s of the project has been agreed between U.P. &amp; M.P. Both the States have also agreed for preparation of DPR for the Ken MPP and NWDA proposal for transfer of surplus water of Ken to Betwa u/s of Rajghat Dam.</li> <li>· DPR for Ken-Betwa River Linking Project has been prepared by NWDA in Dec., 2008, copies of which were forwarded by them to Govt. of M.P. and Govt. of U.P. The status of the project was discussed by the respective Govts./NWDA/ MOWR in the meeting taken by Secretary (WR) on 04.08.2010 and it was decided that S&amp;I works will be taken up by NWDA on priority.</li> </ul>
<b>2</b>	<b>Total</b>	<b>140</b>			

**5. Projects dropped due to Basin Studies/ Other reasons:**

Sl. No.	Name of Project	Sector	I.C. (MW)	Month of Return	Remarks
1	Sone (Chorhat)	State	100	Apr-03	DPR returned due to non-furnishing of basic inputs/ clearances. Since the project is not feasible with the re-conceptualized proposal of lower FRL, the MPPGCL has dropped the project in April,2017.
<b>1</b>	<b>Total</b>		<b>100</b>		

<b>6. H. E. Projects yet to be allotted by the State for development:</b>				
<b>S.No.</b>	<b>Name of Project</b>	<b>River</b>	<b>Type</b>	<b>I.C. (MW)</b>
1	Dhurwara	Betwa	R	28
2	Burhner	Burhner	S	28
3	Basania	Narmada	R	60
4	Hoshangabad (Jahanpur)	Narmada	S	75
<b>4</b>	<b>Total</b>			<b>191</b>

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

**Status of Large Hydro Power Development in Andhra Pradesh**

	<b>Nos.</b>	<b>Capacity (MW)</b>
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)	11	3261
Large Project Identified after Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)	1	50
Project identified above 25 MW capacity in Reassessment Study but developed below 25 MW capacity	-1	-44
Project(s) Identified in this State but developed/being developed in other State(s) #	-1	-205
<b>Total</b>	<b>10</b>	<b>3062</b>
I	Projects in operation	5
II	Projects on which construction is held up	1
III	Projects held up due to Inter-State aspects	1
IV	Projects yet to be allotted by the State for development*	3

# The Project, Machkund has been in operation in Odisha State for 114.75 MW

Note : In addition to above, one pumped storage project, namely Pinnapuram (4x240+2x120 =1200 MW) is under examination and one project, namely Upper Sileru (9x150= 1350 MW) is under S&I .

\*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, etc.

**1 (A). Identified Projects during Reassessment study:**

<b>Sl.No.</b>	<b>Name of Project</b>	<b>River</b>	<b>I. C. (MW)</b>
1	Machkund #	Machkund	205
2	Balimela	Sileru	65
3	Upper Sileru I&II (Upper Sileru)	Sileru	150
4	Lower Sileru	Sileru	385
5	Donkarayi Dam Canal ## (Donkarai Canal)	Sileru	44
6	Polavaram	Godavari	545
7	Pondugala	Krishna	95
8	Nagarjunasagar RBC & Ext. (Nagarjunasagar RBC)	Krishna	45
9	Srisaillam	Krishna	775
10	Tungabhadra HLC (Tungbhadra HLC)	Bhadra	32
11	Inchampalli	Godavari	920
<b>11</b>	<b>Total</b>		<b>3261</b>

# This project has been in operation in Odisha State for 114.75 MW

## This project has been in operation but developed with capacity less than 25 MW

**1 (B). Additional Projects (Identified after Re-Assessment Studies)**

Sl.No.	Name of Project	River	I.C. (MW)	Status
1	NJ Sagar TPD	Krishna	50	In Operation
<b>1</b>	<b>Sub Total</b>		<b>50</b>	

**1 (C). Project identified above 25 MW capacity in Reassessment Study but developed below 25 MW capacity**

Sl. No.	Naome of Project	State	River	Type	I.C. (MW)	Status
1	Donkarai Canal	Andhra Pradesh	Sileru	S	44	Developed below 25 MW
<b>1</b>	<b>Total</b>				<b>44</b>	



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

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

\* All projects are in EFR Basin

**3. H.E. Projects on which construction is held up:**

Sl. No.	Name of Project	Agency	District	River/ Basin	I. C. (MW)	Likely Commissioning	Status
1	Polavaram	Polavaram Project Authority	East & West Godavari	Godavari/ EFR	960	2023-25 **	Works stalled since 19.07.2019 as APGENCO asked contractor M/s Navayuga Engineering Company Ltd. (NECL) to stop all works and termination of contract issued on 14.08.2019. The writ petition filed by NECL was disposed by Hon'ble High Court on 14.12.2020. Agreement is to be concluded with new contractor M/s MEIL for commencement of Works. Works are yet to be started.
<b>1</b>	<b>Total</b>				<b>960</b>		

\*\* Subject to re-start of work in immediate future

**4. H.E. Projects held up due to Inter-State aspects:**

Sl. No.	Name of Project	I.C. (MW)	Location (State)	States Involved	Status
1	Inchampalli MPP (13x75= 975MW)	975	A.P.	A.P./M.P./Chhattisgarh/Maharashtra	DPR with estimated cost of Rs.1110 crores (1987-88 PL) returned in 05/1989. Requires Resolution of inter-state aspects and submergence with MP, Chhattisgarh and Maharashtra.
<b>1</b>	<b>Total</b>	<b>975</b>			

Note : In addition to above, one pumped storage project, namely Pinnapuram (4x240+2x120 =1200 MW) is under examination and one project, namely Upper Sileru (9x150= 1350 MW) is under S&I .

**5. H. E. Projects yet to be allotted by the State for development:**

Sl.No.	Name of Project	River	Type	I. C. (MW)
1	Balimela	Sileru	S	65
2	Pondugala	Krishna	S	95
3	Tungbhadra HLC	Bhadra	R	32
<b>3</b>	<b>Total</b>			<b>192</b>

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

## Status of Large Hydro Power Development in Karnataka

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		38	6459
Large Project Identified after Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		1	139.2
Projects identified below 25 MW capacity in Reassessment Study and being developed above 25 MW		1	200
Project(s) Identified in this State but developed/being developed in other State(s) #		-2	-126
<b>Total</b>		<b>38</b>	<b>6672.2</b>
I	Projects in operation	16	3644.2
II	Projects returned to project authorities	2	665
III	Projects held up due to Inter-State aspects	1	400
IV	Projects dropped due to Basin studies/ Other reasons	1	200
V	Projects yet to be allotted by the State for development*	18	2848

# Rasi Manal [Cauvery PH-III] (90 MW) & Hogenekkal [Cauvery PH-IV] (36 MW) are in Inter-State issue in Tamil Nadu State

Note : In addition to above, two pumped storage projects, namely Sharavathy (8x250 =2000 MW) and Saundatti (4x252+2x126= 1260 MW) are under S&I .

\*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, etc.

**1 (A). Identified Projects during Reassessment study**

Sl.No.	Name of Project	River	I. C. (MW)
1	Mahadayi [Krishnapur]	Mandavi	210
2	Kalinadi Supa [Kalinadi I (Supa)]	Kalinadi	140
3	Kalinadi II (Dandeli) [Kalinadi I (Dandeli II)]	Kalinadi	60
4	Kalinadi (Nagjhari) [Kalinadi I (Nagjhari)]	Kalinadi	855
5	Kodassali [Kalinadi I (Kadassali)]	Kalinadi	95
6	Kadra [Kalinadi I (Kadra)]	Kalinadi	100
7	Kalinadi III [Kalinadi I (Mardi)]	Kalinadi	175
8	Bedthi [Gangavali (Bedti) St.I]	Gangavali	380
9	Gangavali St.II [Gangavali (Sonda) St.II]	Gangavali	105
10	Aghnashini	Aghnashini	370
11	Bennehole [Bannehole]	Bannehole	55
12	Lingnamakki [Linganamakki]	Saravathi	125
13	Sharavathy [Saravathi]	Saravathi	1365
14	Sharavathy Tail Race [Saravathi Tail Race]	Saravathi	157
15	Varahi	Varahi	305
16	Machchattu	Varahi	35
17	Netravathy	Netravathy	60
18	Sirpadi	Netravathy	38
19	Kumaradhari	Kumaradhari	49
20	Barapole I	Barapole	335
21	Jaldurg	Krishna	270
22	Tamankal [Narayanpur]	Krishna	70
23	Almatti	Krishna	160
24	Ghataprabha	Tungabhadra	41
25	Shivapur [Shivpur]	Tungabhadra	26
26	Munirabad	Tungabhadra	41
27	Hampi	Tungabhadra	34
28	T.B. Dam [Tungbhadra RBC]	Tungabhadra	27
29	Bhadra [Tungbhadra Dam PH]	Bhadra	36
30	Krishnarajasagar	Cauvery	55
31	Sivasamudram [Shivasamudram]	Cauvery	44
32	Shimsa [Shimsa PH-I]	Cauvery	31
33	Sivasamudram [Cauvery PH-I]	Cauvery	235
34	Shimsa [Shimsa PH-II]	Shimsha	42
35	Arkavathy [Arkavathi]	Arkavathi	42
36	Mekadatu [Cauvery PH-II]	Cuvery	165

37	Rasi Manal # [Cauvery PH-III]	Cauvery	90
38	Hogenekkal # [Cauvery PH-IV]	Cauvery	36
<b>38</b>	<b>TOTAL</b>		<b>6459</b>

# Rasi Manal & Hogenekkal are in Inter-State issue in Tamil Nadu State

### 1 (B). Additional Projects (Identified after Re-Assessment Studies)

Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Mahatma Gandhi Jog	Sharavathy	139.2	In Operation
<b>1</b>	<b>Sub Total</b>		<b>139.2</b>	

### 1 (C). Projects identified below 25 MW capacity in Reassessment Study and being developed above 25 MW

Sl.No.	Name of Project	River	I.C. (MW)	Status	Remarks
1	Gundia		200	Dropped	Gundia - 20 MW
<b>1</b>	<b>Sub Total</b>		<b>200</b>		

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

S. No.	Utility/ Stations	No. Of stns.	No. Of units x capacity (MW)	River	Basin	District	I.C. (MW)	Year of commissioning
<b>KPCL</b>								
1	ALMATTI	1	(5X55) +(1X15)	KRISHNA	EFR	BIJAPUR	290	2004-2005
2	GERUSOPPA (SHARAVATHY TAIL RACE) [SARAVATHY TAIL RACE]	1	(4X60)	SHARAVATHY	WFR	UTTARA KANNADA	240	2001-2002
3	GHAT PRABHA	1	(2X16)	GHATPRABHA	EFR	BELGAUM	32	1992
4	MAHATMA GANDHI JOG	1	(4X21.6) +(4X13.2)	SHARAVATHY	WFR	SHIMOGA	139.2	1949-1952
5	KADRA [Kalinadi I (Kadra)]	1	(3X50)	KALI	WFR	UTTARA KANNADA	150	1997-1999
6	KALINADI (NAGJHARI) [Kalinadi I (Nagjhari)]	1	(3X135) +(3X150)	KALI	WFR	UTTARA KANNADA	855	1979-1984
7	KALINADI SUPA [Kalinadi I (Supa)]	1	(2X50)	KALI	WFR	UTTARA KANNADA	100	1985
8	KODASALI [Kalinadi I (Kadassali)]	1	(3X40)	KALI	WFR	UTTARA KANNADA	120	1998-1999
9	LINGNAMAKKI [Linganamakki]	1	(2X27.5)	SHARAVATHY	WFR	SHIMOGA	55	1979-1980
10	MUNIRABAD	1	(2X9) +(1X10)	TUNGABHADRA	EFR	KOPPAL	28	1962-1965
11	SHARAVATHY [Saravathi]	1	(10X103.5)	SHARAVATHY	WFR	SHIMOGA	1035	1965-1977
12	SIVASAMUNDRUM [Shivasamudram]	1	(4X6)+(6X3)	CAUVERY	EFR	MANDYA	42	1922-1934
13	VARAHI	1	(4X115)	VARAHI	WFR	UDUPI	460	1989-2009
14	BHADRA [Tungbhadra Dam PH]	1	(2x12)+(1x2)	BHADRA	EFR	CHICKMAGALUR	26	1965
	<b>TOTAL KPCL</b>	<b>14</b>					<b>3572.2</b>	
<b>APGENCO</b>								
15	T B DAM * [Tungbhadra RBC]	1	(4X9)	TUNGABHADRA		BELLARI	36	1957-1964
16	HAMPI *	1	(4X9)	TUNGABHADRA	EFR	BELLARI	36	1958-1964
	<b>SUB-TOTAL APGENCO</b>	<b>2</b>					<b>72</b>	
<b>16</b>	<b>TOTAL KARNATAKA</b>	<b>16</b>					<b>3644.2</b>	

\* Utilities are in Andhra Pradesh

### 3. 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 [Cauvery PH-I]	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 [Krishnapur]	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>	

Note : In addition to above, two pumped storage projects, namely Sharavathy (8x250 =2000 MW) and Saundatti (4x252+2x126= 1260 MW) are under S&I .

### 4. H.E. Projects held up due to Inter-State aspects:

Sl. No.	Name of Project	I.C. (MW)	Location (State)	States Involved	Status
1	Cauvery Power Projects- Mekadatu [Cauvery PH-II]	400	Karnataka	Kerala/TN/ Karnataka	<ul style="list-style-type: none"> <li>• Preliminary report of Stage-I was returned in 10/1996.</li> <li>• Sharing of Cauvery water awarded by CWDI.</li> <li>• With the consent of GOTN and GOK, NHPC took up S&amp;I and preparation of DPR.</li> <li>• In the Core Group Meeting taken by secretary (Power) on 27.10.2004, it was agreed by GOK and GOTN that Shivasamudram (Karnataka) and Hogenekkal (T.N.) should be taken up simultaneously in the first phase and remaining two projects viz. Mekadatu and Rasimanal in the next phase.</li> <li>• In the Core Group Meeting taken by Secretary (Power) on 21.06.2006, it was agreed that execution of these four projects through NHPC would be most viable proposition. It was decided that representatives of both the Govts. would take up the matter with their respective Govts. and seek their approval and thereafter necessary agreement will be signed between NHPC and the two State Govts. Consent by both the State Govts. was to be communicated to MOP by 31.07.2006. The State of Karnataka in June, 2007 informed that Shivasamudram and Mekadatu will be executed by them in State sector.</li> <li>• KPCL informed in April, 2009 that the tribunal award is with Supreme Court.</li> <li>• Subsequently, a meeting was held on 08.07.2009 under the chairmanship of Secretary (Power) to discuss the pending issue of development of Hydroelectric Projects in Cauvery Basin. Secretary (Power) expressed that Shivasamudram being a Run of River Project with in the territory of Karnataka, Tamil Nadu should not have any objection to the development of the Project by the State Government. He further opined that there should not be any problem in taking up Shivasamudram Project by the State of Karnataka provided there is joint mechanism for monitoring the water level/releases of water to Tamil Nadu. He suggested that the CWC could act as an observer in this regard and directed that the GOK would provide/share all the technical details of the Project to/with Tamil Nadu. Both the States Government were advised to consult CEA and CWC before finalization of designing of the Project.</li> <li>• As regards other projects located in Tamil Nadu but whose submergence area partly falls in Karnataka, it was suggested the two Governments need to arrive at an arrangement for power sharing.</li> </ul>
<b>1</b>	<b>Total</b>	<b>400</b>			

### 5. Projects dropped due to Basin studies/ Other reasons:

Sl. No.	Name of Project	I.C. (MW)	River	Basin	Remarks
1	Gundia	200	Gundia	WFR	Due to implementation of Yethnabale Drinking water Project in same catchment area, the project is stalled.
<b>1</b>	<b>Total</b>	<b>200</b>			

**6. H. E. Projects yet to be allotted by the State for development:**

Sl.No.	Name of Project	River	Type	I.C.(MW)
1	Bennehole (Bannehole)	Bannehole	S	55
2	Machchattu	Varahi	R	35
3	Netravathy	Netravathy	S	60
4	Sirpadi	Netravathy	R	38
5	Kumaradhari	Kumaradhari	S	49
6	Barapole I	Barapole	S	335
7	Kalinadi II (Dandeli [Kalinadi I (Dandeli II)])	Kalinadi	R	60
8	Kalinadi III [Kalinadi I (Mardi)]	Kalinadi	R	300
9	Bedthi [Gangavali (Bedti) St.I]	Gangavali	S	380
10	Gangavali St.II [Gangavali (Sonda) St.II]	Gangavali	S	400
11	Aghnashini	Aghnashini	S	600
12	Tamankal [Narayanpur]	Krishna	R	70
13	Shivapur [Shivpur]	Tungabhadra	R	26
14	Krishnarajasagar	Cauvery	S	55
15	Shimsa [Shimsa PH-I]	Cauvery	R	31
16	Shimsa [Shimsa PH-II]	Shimsha	R	42
17	Arkavathy [Arkavathi]	Arkavathi	R	42
18	Jaldurg	Krishna	R	270
<b>18</b>	<b>Total</b>	<b>18 Nos. of Projects</b>		<b>2848</b>

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



## Status of Large Hydro Power Development in Kerala

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		28	3378
Large Projects Identified after Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		4	290
Change in Projects due to splitting of projects (identified during reassessment study in 1978-87)		2	145
Change in Projects due to merging of projects (identified during reassessment study in 1978-87)		-1	85
Project(s) Identified in this State but developed/being developed in other State(s) #		-1	-80
<b>Total</b>		<b>32</b>	<b>3818</b>
I	Projects in operation	14	1856.5
II	Projects under active construction	2	100
III	Projects held up due to Inter-State aspects	4	520
IV	Projects dropped due to Basin studies/ Other reasons	1	163
V	Projects yet to be allotted by the State for development*	11	1004

# The project, Cholathipuzha (80 MW) is in Inter-State issue in Tamil Nadu State

\*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.

**1 (A). Identified Projects during Reassessment study**

Sl.No.	Name of Project	River	IC
1	Baraple II	Barapole	85
2	Kuttiyadi, Kuttityadi Ext & Kuttityadi Add. Ext. (Kuttityadi)	Kuttityadi	80
3	Chalipuzha	Baypore	50
4	Cholathipuzha #	Baypore	80
5	Pandiyar Punnapuzha Tail Race (Pandiyar Punnapuzha II)	Pandiyar	85
6	Silent Valley	Kundipuzha	130
7	Idukki (Idukki I & II)	Periyar	565
8	Idukki (Iddukki III)	Periyar	130
9	Lower Periyar	Periyar	145
10	Pallivasal (Pallivasal Replacement)	Mudirapuzha	190
11	Sengulam	W. Kallar	55
12	Panniar	Panniar	40
13	Neriamangalam	Mudirapuzha	65
14	Perinjankutty	Perinjankutty	120
15	Manali	Idamlayar	36
16	Kudal	Idamlayar	47
17	Puyanukutty	Puyanukutty	285
18	Idamalayar	Idamalayar	55
19	Sholayar [Sholaiyar]	Sholaiyar	75
20	Kuriarkutty (Kuriakutty)	Kuriakutty	65
21	Poringalkuthu(R.B)	Chalakuddi	65
22	Poringalkutty (Poringalkuthu(L.B))	Chalakuddi	60
23	Athirappilly (Adirapally)	Chalakuddi	65
24	Sabarigiri	Pamba	410
25	Kakkad	Kakkad	75
26	Lower Sabarigiri	Kakkad	55
27	Twin-Kallar (Twin Kallar Multipurpose)	Achankovil	65
28	Mananthavady (Manthavadi)	Kabini	200
<b>28</b>	<b>Total</b>		<b>3378</b>

# This project is in Inter-State issue in Tamil Nadu State

**1 (B). Additional Projects (Identified after Re-Assessment Studies)**

Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Kerala Bhavani MPP		150	Inter-State
2	Pambar		40	Inter-State
3	Pallivasal Ext.	Mudirapuzha/ Periyar/Baypore	60	Under Construction
4	Thottiyar	Thottiyar	40	Under Construction
<b>4</b>	<b>Sub Total</b>		<b>290</b>	

**1 (C). Change in Projects due to splitting of projects (identified during reassessment study in 1978-87)**

Before Splitting					After Splitting				
Sl.No.	Name of Project	River	I.C. (MW)	Status	Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Kuttiyadi	Kuttiyadi	80	Identified	1	Kuttiyadi	Kuttiyadi	75	In Operation
					2	Kuttiyadi Ext.	Kuttiyadi	50	In Operation
					3	Kuttiyadi Add. Ext.	Kuttiyadi	100	In Operation
<b>1</b>	<b>Sub Total</b>		<b>80</b>		<b>3</b>	<b>Sub Total</b>		<b>225</b>	
	Net Change in Numbers		<b>2</b>	Increase					
	Net Change in Capacity		<b>145</b>	Increase					

**1 (D). Change in Projects due to merging of projects (identified during reassessment study in 1978-87)**

Before Merging					After Merging				
Sl.No.	Name of Project	River	I.C. (MW)	Status	Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Idukki I&II	Periyar	565	Identified	1	Idukki	Periyar	780	In Operation
2	Idukki III	Periyar	130	Identified					
<b>2</b>	<b>Sub Total</b>		<b>695</b>		<b>1</b>	<b>Sub Total</b>		<b>780</b>	
	Net Change in Numbers		<b>-1</b>	Decrease					
	Net Change in Capacity		<b>85</b>	Increase					

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

S. No.	Utility/Stations	No. of Stns.	No. of units x Capacity (MW)	River / Basin*	District	I.C. (MW)	Year of commissioning
<b>KSEB</b>							
1	IDAMALAYAR	1	(2X37.5)	IDAMALAYAR	ERNAKULAM	75	1987
2	IDUKKI [Idukki I & II + Idukki - III]	1	(6X130)	PERIYAR	IDUKKI	780	1976-1986
3	KAKKAD	1	(2X25)	PAMBA	PATHANAMTHITTA	50	1999
4	KUTTIYADI [Kuttiyadi]	1	(3X25)	KUTTIYADI	KOZHIKODE	75	1972
5	KUTTIYADI EXTN . [Kuttiyadi]	1	(1X50)	KUTTIYADI	KOZHIKODE	50	2001
6	KUTTIYADI ADDN EXTN [Kuttiyadi]	1	(2X50)	KUTTIYADI	KOZHIKODE	100	2010
7	LOWER PERIYAR	1	(3X60)	PERIYAR	IDUKKI	180	1997
8	NERIAMANGLAM	1	(3X15)	MUTHIRAPUZHA	IDUKKI	45	1961-63
9	PALLIVASAL [Pallivasal Replacement]	1	(3X5) +(3X7.5)	MUTHIRAPUZHA	IDUKKI	37.5	1948-2001
10	PANNIAR	1	(2X15)	PANNIAR	IDUKKI	30	1963-2001
11	PORINGALKUTTU	1	(4X8)	CHALAKUDY	COIMBATORE	32	1957-1960
12	SABARIGIRI	1	(6X50)	PAMBA	PATHANAMTHITTA	300	1960-1967
13	SENGULAM	1	(4X12)	MUTHIRAPUZHA	IDUKKI	48	1954-2001
14	SHOLAYAR [Sholaiyar]	1	(3X18)	SHOLAYAR	COIMBATORE	54	1956-1968
<b>14</b>	<b>TOTAL KSEB</b>	<b>14</b>				<b>1856.5</b>	

\* All projects are in WFR Basin

## 3. H.E. Schemes under active Construction:

Sl. No.	Name of Project	Agency	District	River /Sub-Basin/ Basin	I.C. (MW)	Likely Commissioning
1	Pallivasal Extn.	KSEB	Idukki	Mudirapuzha/ Baypore Periyar/ WFR	60	2021-22 (Dec.'21)
2	Thottiyar	KSEB	Idukki	Thottiyar/ Baypore Periyar / WFR	40	2021-22 (Dec.'21)
2	<b>Total</b>				<b>100</b>	

## 4. Projects dropped due to Basin studies/ Other reasons:

Sl. No.	Name of Project	Agency	District	River / Basin	I.C. (MW)	Date of CEA Concurrence	Status
1	Athirapally [Adirapally]	KSEB	Thrissur	Chalakkudy / WFR	163	31.03.05	MoEF&CC informed that validity of EC for the project has approved and advised to process for fresh FC. The project is likely to be dropped due to ecological constraints.
1	<b>Total</b>				<b>163</b>		

## 5. H.E. Projects held up due to Inter-State aspects:

Sl. No.	Name of Project/Installed Capacity	I.C. (MW)	Location (State)	States Involved	Status
1*	Kerala Bhavani (MPP) (3x50= 150 MW)	150	Kerala	Kerala/T.N. /Karnataka	<ul style="list-style-type: none"> <li>• DPR with estimated cost of Rs 168.75 crores (1990-91 PL) returned in 01/1992.</li> <li>• Final award of CWDT stated that the Project involves trans-basin diversion of water of Bhavani, therefore it is not possible to allocate water for this project.</li> <li>• Since the tribunal has ruled out trans-basin transfer (from interstate rivers), this project remains a non-starter.</li> <li>• The final award of CWDT has been challenged by Kerala State before the Hon'ble Supreme Court of India.</li> </ul>
2*	Mananthvady MPP (Manthavadi) (5x45 =225MW)	225	Kerala	Kerala/T.N. /Karnataka	<ul style="list-style-type: none"> <li>• Earlier DPR with estimated cost of Rs 69.17 crores (1980 PL) returned in 07/1980.</li> <li>• Final award of CWDT stated that the Project involves trans-basin diversion of water of Kabini, therefore it is not possible to allocate water for this project.</li> <li>• Since the tribunal has ruled out transbasin transfer (from interstate rivers), this project remains as a non-starter.</li> <li>• The final award of CWDT has been challenged by Kerala State before the Honourable Supreme Court of India.</li> </ul>
3	Pandiar Punnapuzha Tail Race [Pandiyar Punnapuzha II]	105	Kerala	TN/Kerala	<ul style="list-style-type: none"> <li>• Earlier DPR with estimated cost of Rs 22.00 crores (12/1972 PL) returned in 07/82</li> <li>• Project envisages utilisation of tailrace waters of the proposed Pandiar Punnapuzha HEP of Tamil Nadu.</li> <li>• The project would be taken up if GOTN and Kerala come to a mutual agreement.</li> <li>• Inter-state issue is not resolved.</li> </ul>
4*	Pambar (40 MW)	40	Kerala	T.N./Kerala /Karnataka	<ul style="list-style-type: none"> <li>• Earlier DPR for 30 MW with estimated cost of Rs.65.46 crores (1989 PL) returned in 03/1990.</li> <li>• The project is also entangled with Cauvery Waters Disputes Tribunal (CWDT).</li> <li>• KSEB revised the Project from earlier proposal of storage Project to run-of-river Project.</li> <li>• Non-Consumptive use of 5.6 TMC was proposed for power generation, which has been allowed by Tribunal subject to agreement with Tamil Nadu for schedule of water release.</li> <li>• DPR is yet to be finalized.</li> </ul>
4	<b>Total</b>	<b>520</b>			

(\*) Projects located in Cauvery basin.

**6. H. E. Projects yet to be allotted by the State for development**

<b>Sl. No.</b>	<b>Name of Project</b>	<b>River</b>	<b>Type</b>	<b>Probable I.C.(MW)</b>
1	Chalipuzha	Baypore	S	50
2	Silent Valley	Kundipuzha	S	130
3	Manali	Idamlayar	S	36
4	Kudal	Idamlayar	S	47
5	Puyanukutty	Puyanukutty	S	285
6	Kuriarkutty (Kuriakutty)	Kuriakutty	S	66
7	Lower Sabarigiri	Kakkad	S	55
8	Twin-Kallar (Twin Kallar Multipurpose)	Achankovil	S	65
9	Baraple II	Barapole	R	85
10	Perinjankutty	Perinjankutty	S	120
11	Poringalkuthu(R.B)	Chalakuddi	S	65
<b>11</b>	<b>Total</b>	<b>11 Nos. of Projects</b>		<b>1004</b>

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

## Status of Large Hydro Power Development in Tamil Nadu

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		23	1693
Projects identified below 25 MW capacity in Reassessment Study and developed above 25 MW capacity		4	220
Change in Projects due to splitting of projects (identified during reassessment study in 1978-87)		5	-20
Change in Project due to merging of projects (identified during reassessment study in 1978-87)		-1	354
Projects Identified in other State(s) but developed/being developed in this State #		3	206
<b>Total</b>		<b>34</b>	<b>2453</b>
I	Projects in operation	26	1778.2
II	Projects held up due to Inter-State aspects	4	690
III	Projects yet to be allotted by the State for development*	4	132

# Rasi Manal [Cauvery PH-III] (90 MW) & Hogenekkal [Cauvery PH-IV] (36 MW) in Karnataka and Cholathipuzha (80 MW) in Kerala are in Inter-State issue in Tamil Nadu State

Note : In addition to above, one pumped storage project, namely Kadamparai (4x100 = 400 MW) is constructed & working in pumping mode, one pumped storage project, namely Kundah Pump Storage (Stage I,II,III&IV) (4x125= 500 MW) is under active construction [likely commissioning by 2023-24 (Apr. 2023)] and two pumped storage projects, Kodayar (4x125= 500 MW) and Sillahalla St.-I (4x250=1000 MW) are under S&I .

\*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 of the projects, etc.

**1 (A). Identified Projects during Reassessment study:**

Sl.No.	Name of Project	River	I. C. (MW)
1	Pandiyar Punnapuzha (Pandiyar-Punnapuzha I)	Pandiyar	125
2	Aliyar (Upper Aliyar)	Bharatpuzha	90
3	Periyar (Periyar Lake)	Periyar	145
4	Nirar	Idamalayar	26
5	Sholayar- I [Sholaiyar- I]	Sholaiyar	75
6	Sarkarpathy [Sarkarpathi]	Periyar	33
7	Kodayar I	Kodayar	65
8	Kodayar II	Kodayar	30
9	Paraliyar	Paraliyar	39
10	Mettur Dam (Mettur Dam PH)	Cauvery	32
11	Mettur Tunnel (Mettur Tunnel PH)	Cauvery	100
12	Lower Mettur I, II, III & IV (Lower Mettur)	Cauvery	115
13	Bhavani Kattalai Barrage I, II & III (Bhawani Kattalai)	Cauvery	115
14	Lower Bhavani (Lower Bhawani)	Bhavani	34
15	Lower Moyar	Moyar	33
16	Moyar	Moyar	75
17	Pykara (Pykara (Singara))	Moyar	115
18	Pykara Ultimate (Pykara (Ultimate))	Moyar	60
19	Kundah I (Avalanche Em'ld (Kundah-I))	Kundah	70
20	Kundah II (Kundapallam (Kundah-II))	Kundah	160
21	Kundah III (Pengumbahalla (Kundah-III))	Kundah	95
22	Suruliyar (Surullar)	Suruliar	30
23	Papanasam	Tambraparni	31
<b>23</b>	<b>TOTAL</b>		<b>1693</b>



**1 (B). Project identified below 25 MW capacity in Reassessment Study and developed above 25 MW capacity**

Sl.No.	Name of Project	River	I.C. (MW)	Status	Remarks
1	Kundah-IV	Bhavani	100	In Operation	Pillur - 25 MW
2	Kundah-V	Bhavani	40	In Operation	Upper Bhavani - 16 MW
3	Kundah-VI (Parson's Valley)	Bhavani	30	In Operation	Parson's Valley - 12 MW
4	Nellithorai		50	Inter-State	Nellithorai - 13 MW
<b>4</b>	<b>Sub Total</b>		<b>220</b>		

**1 (C). Change in Projects due to splitting of projects (identified during reassessment study in 1978-87)**

Before Splitting					After Splitting				
Sl.No.	Name of Project	River	I.C. (MW)	Status	Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Lower Mettur	Cauvery	115	Identified	1	Lower Mettur I	Cauvery	30	In Operation
					2	Lower Mettur II	Cauvery	30	In Operation
					3	Lower Mettur III	Cauvery	30	In Operation
					4	Lower Mettur IV	Cauvery	30	In Operation
2	Bhawani Kattalai	Cauvery	115	Identified	5	Bhavani Kattalai Barrage-I	Cauvery	30	In Operation
					6	Bhavani Kattalai Barrage-II	Cauvery	30	In Operation
					7	Bhavani Kattalai Barrage-III	Cauvery	30	In Operation
<b>2</b>	<b>Sub Total</b>		<b>230</b>		<b>7</b>	<b>Sub Total</b>		<b>210</b>	
Net Change in Numbers			<b>5</b>	Increase					
Net Change in Capacity			<b>-20</b>	Decrease					

**1 (D). Change in Projects due to merging of projects (identified during reassessment study in 1978-87)**

Before Merging					After Merging				
Sl.No.	Name of Project	River	I.C. (MW)	Status	Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Hogenekkal (Cauvery PH-IV)	Cauvery	36	Identified in Karnataka	1	Cauvery Power Projects	Cauvery	480	Inter-State in Tamil Nadu
2	Rasimanal (Cauvery PH-III)	Cauvery	90	Identified in Karnataka					
<b>2</b>	<b>Sub Total</b>		<b>126</b>		<b>1</b>	<b>Sub Total</b>		<b>480</b>	
Net Change in Numbers			<b>-1</b>	Decrease					
Net Change in Capacity			<b>354</b>	Increase					

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

S. No.	Utility/ Stations	No. Of stns.	No. of units x Capacity (mw)	River	Basin	District	Capacity (MW)	Year of commissioning
<b>TANGEDCO</b>								
1	ALIYAR [Upper Aliyar]	1	(1X60)	MASONARY DAM	WFR	COIMBATORE	60	1970
2	BHAVANI KATTALAI BARRAGE-I [Bhawani Kattalai]	1	(2X15)	CAUVERY	EFR	ERODE	30	2006
3	BHAVANI KATTALAI BARRAGE-II [Bhawani Kattalai]	1	(2X15)	CAUVERY	EFR	ERODE	30	2013
4	BHAVANI KATTALAI BARRAGE-III [Bhawani Kattalai]	1	(2X15)	CAUVERY	EFR	ERODE	30	2012
5	KODAYAR-I	1	(1X60)	KODAYAR	WFR	KANYAKUMARI	60	1970
6	KODAYAR-II	1	(1X40)	KODAYAR	WFR	KANYAKUMARI	40	1971
7	KUNDAH-I [Avalanche Em'ld (Kundah-I)]	1	(3X20)	AVLANCHE STREAM	EFR	NILGRIS	60	1960-1964
8	KUNDAH-II [Kundapallam (Kundah- II)]	1	(5X35)	KUNDAH	EFR	NILGRIS	175	1960-1965
9	KUNDAH-III [Pengumbahalla (Kundah- III)]	1	(3X60)	PENGUNBA HALLAH	EFR	COIMBATORE	180	1965-1978
10	KUNDAH-IV	1	(2X50)	BHAVANI	EFR	COIMBATORE	100	1966-1978
11	KUNDAH-V	1	(2X20)	BHAVANI	EFR	NILGRIS	40	1964-1988
12	LOWER METTUR-I [Lower Mettur]	1	(2X15)	CAUVERY	EFR	SALEM	30	1988
13	LOWER METTUR-II [Lower Mettur]	1	(2X15)	CAUVERY	EFR	SALEM	30	1988
14	LOWER METTUR-III [Lower Mettur]	1	(2X15)	CAUVERY	EFR	SALEM	30	1987-1988
15	LOWER METTUR-IV [Lower Mettur]	1	(2X15)	CAUVERY	EFR	SALEM	30	1988-1999
16	METTUR DAM [Mettur Dam PH]	1	(4X12.5)	CAUVERY	EFR	SALEM	50	1937-1946
17	METTUR TUNNEL [Mettur Tunnel PH]	1	(4X50)	CAUVERY	EFR	SALEM	200	1965-1966
18	MOYAR	1	(3X12)	MOYAR	EFR	NILGRIS	36	1952-1953

19	PAPANASAM	1	(4X8)	THAMBRAP ARANI	EFR	TIRUNELVELI	32	1944-1951
20	PARSON'S VALLEY	1	(1X30)	BHAVANI	EFR	NILGIRIS	30	2000
21	PERIYAR [Periyar Lake]	1	(3X42)+ (1X35)	PERIYAR	WFR	IDUKKI	161	1958-1965
22	PYKARA [Pykara (Singara)]	1	(3X7)+ (2X13.6)+ (1X11)	Glenmorgan Forebay dam	EFR	NILGRIS	59.2	1932-2005
23	PYKARA ULTMATE [Pykara (Ultimate)]	1	(3X50)	PYKARA	EFR	NILGRIS	150	2005
24	SARKARPATHY [Sarkarpathi]	1	(1X30)	PARABIKUL AM	WFR	KOZHICODE	30	1966
25	SHOLAYAR I [Sholaiyar- I]	1	(2X35)	SHOLAYAR	WFR	COIMBATORE	70	1971
26	SURULIYAR [Surullar]	1	(1X35)	ERAVANGA LAR	EFR	TIRUNELVELI	35	1978
<b>26</b>	<b>TOTAL TANGEDCO</b>	<b>26</b>					<b>1778.2</b>	

Note : In addition to above, one pumped storage project, namely Kadamparai (4x100 = 400 MW) is constructed & working in pumping mode, one pumped storage project, namely Kundah Pump Storage (Stage I,II,III&IV) (4x125= 500 MW) is under active construction [likely commissioning by 2023-24 (Apr. 2023)] and two pumped storage projects, Kodayar (4x125= 500 MW) and Sillahalla St.-I (4x250=1000 MW) are under S&I .

**3. H.E. Projects held up due to Inter-State aspects:**

Sl. No.	Name of Project	I.C. (MW)	Location (Site)	States Involved	Status
1	Nellithorai	50	T.N.	TN/ Kerala	<ul style="list-style-type: none"> <li>Sanctioned by Planning Commission in 1974 at an estimated cost of Rs.10.04 crores.</li> <li>Concurrence not issued by CEA due to objections received from Govt. of Kerala.</li> </ul>
2	Cauvery Power Projects [Rasimanal(90 MW) & Hogenekkal (36 MW) (from Karnataka)]	480	T.N.	Kerala/ TN/ Karnataka	<ul style="list-style-type: none"> <li>Returned in 2/1997.</li> <li>In the Core Group Meeting taken by Secretary (Power) on 27.10.2004, it was agreed by GOK and GOTN that Shivasamudram (in Karnataka) and Hogenekkal (in TN) should be taken up simultaneously in the first phase and remaining two projects viz. Mekadatu (in Karnataka) and Rasimanal (in TN) in the next phase.</li> <li>In the Core Group Meeting taken by Secretary (Power) on 21.06.2006, it was agreed that execution of these four projects through NHPC would be most viable proposition. It was decided that representatives of both the Govts. would take up the matter with their respective Govts. and seek their approval and thereafter necessary agreement will be signed between NHPC and the two State Govts. Consent by both the State Govts. was to be communicated to MOP by 31.07.2006. Tripartite agreement between Govt. of Tamil Nadu, Govt. of Karnataka and NHPC was to be signed. However, in June, 2007 the State of Karnataka informed that Shivasamudram and Mekadatu will be executed by Karnataka in State Sector.</li> <li>TNEB informed in April, 2009 that Tamil Nadu has given its concurrence to MOP's draft tripartite agreement and sent it to MOP, GOI on 15.12.2008. Tamil Nadu insists the execution of the projects by neutral agency under Govt. of India. Final award of CWDT is yet to be notified in the Gazette of Govt. of India, as the case has been filed in the Supreme Court of India.</li> <li>Subsequently, a meeting was held on 08.07.2009 under the chairmanship of Secretary (Power) to discuss the pending issue of development of Hydroelectric Projects in Cauvery Basin. Secretary (Power) expressed that Shivasamudram being a Run of River Project with in the territory of Karnataka, Tamil Nadu should not have any objection to the development of the Project by the State Government. He further opined that there should not be any problem in taking up Shivasamudram Project by the State of Karnataka provided there is joint mechanism for monitoring the water level/releases of water to Tamil Nadu. He suggested that the CWC could act as an observer in this regard and directed that the GOK would provide/share all the technical details of the Project to/with Tamil Nadu. Both the States Governments were advised to consult CEA and CWC before finalization of designing of the Project.</li> <li>As regards other projects located in Tamil Nadu but whose submergence area partly falls in Karnataka, it was suggested that the two Governments need to arrive at an arrangement for power sharing.</li> </ul>
3	Pandiyar Punnapuzha [Pandiyar-Punnapuzha I]	100	T.N.	TN/ Kerala	<ul style="list-style-type: none"> <li>DPR with estimated cost of Rs 73.90 crores (11/1976 PL) returned in 07/1982.</li> <li>Project is located in TN on West flowing Pandiar Punnapuzha river (Chaliyar river).</li> <li>Concurrence of Govt. of Kerala is required, as per agreement in 1965, for revised project proposal, which is yet to be communicated by Govt. of Kerala.</li> <li>Based on Ministerial level meeting between Kerala and Tamil Nadu on 10.06.2002, modified proposal was evolved by TNEB and has been sent to Govt. of Kerala on 10.04.2007 for its consideration.</li> <li>Concurrence of Govt. of Kerala is yet to be received.</li> </ul>
4	Cholatipuzha (from Kerala)	60	T.N.	TN/ Kerala	<ul style="list-style-type: none"> <li>DPR with estimated cost of Rs7.39 crores (1976 PL) returned in 07/1982</li> <li>As per agreement between Tamil Nadu &amp; Kerala reached in Oct., 1965, cost and benefits from the project located on their border are to be shared equally by the two States.</li> <li>Kerala has not communicated its concurrence to the project investigated by TNEB.</li> <li>This Project will be finalized while finalizing the Project of Pandiar- Punnapuzha with Kerala.</li> </ul>
<b>4</b>	<b>Total</b>	<b>690</b>			

**4. H. E. Projects yet to be allotted by the State for development**

Sl. No.	Name of Project	River	Type	I.C.(MW)
1	Nirar	Idamalar	R	26
2	Paraliyar	Paraliyar	R	39
3	Lower Bhavani (Lower Bhavani)	Bhavani	S	34
4	Lower Moyar	Moyar	S	33
<b>4</b>	<b>Total</b>	<b>4 Nos. of Projects</b>		<b>132</b>

Note: R –Run of the River; S- Storage

## Status of Large Hydro Power Development in Telangana

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		7	1099
Large Project Identified after Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		1	240
<b>Total</b>		<b>8</b>	<b>1339</b>
I	Projects in operation	6	800
II	Projects returned to project authorities	1	320
III	Project yet to be allotted by the State for development*	1	250

Note : In addition to above, two pumped storage projects, namely Nagarjuna Sagar (7x100.80 = 705.60 MW) and Srisailem LBPH (6x150= 900 MW) are constructed & working in pumping mode.

\*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 etc.

**1 (A). Identified Projects during Reassessment study:**

Sl.No.	Name of Project	River	I. C. (MW)
1	Pochampad	Godavari	47
2	Singareddi	Godavari	250
3	Dummugudem (Dummagudem)	Godavari	360
4	Pulichintala	Krishna	180
5	Nagarjunasagar LBC	Krishna	42
6	Nagarjunasagar (Nagarjunasagar Dam PH)	Krishna	115
7	Priyadarshini Jurala (Priyadarshini )	Krishna	105
7	<b>TOTAL</b>		<b>1099</b>

# Inchampalli is under Inter-State issue in the State of Andhra Pradesh for 975 MW.

**1 (B). Additional Projects (Identified after Re-Assessment Studies)**

Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Lower Jurala	Krishna	240	In Operation
1	<b>Sub Total</b>		<b>240</b>	

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

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

\* All projects are in EFR Basin

Note : In addition to above, two pumped storage projects, namely Nagarjuna Sagar (7x100.80 = 705.60 MW) and Srisailem LBPH (6x150= 900 MW) are constructed & working in pumping mode.

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

Sl. No.	Name of Project	I.C. (MW)	Agency	Month of Return	Reason for Return
1	Dummugudem (Dummagudem)	320	APGENCO	Mar-06	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>	<b>320</b>			

**4. H. E. Projects yet to be allotted by the State for development**

Sl. No.	Name of Project	River	Type	I.C. (MW)
1	Singareddi	Godavari	R	250
<b>1</b>	<b>Total</b>	<b>1 No. of Project</b>		<b>250</b>

Note: R –Run of the River



## Status of Large Hydro Power Development in Bihar

	Nos.	I.C. (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)	1	40
Large Project Identified after Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)	1	130
Project identified above 25 MW capacity in Reassessment Study and developed below 25 MW capacity	-1	-40
<b>Total</b>	<b>1</b>	<b>130</b>
Projects Under S&I	1	130

Note: Identified project namely East Gandak Canal has been developed with installed capacity below 25 MW

### 1 (A). Identified Projects during Reassessment study:

Sl.No.	Name of Project	River	I. C. (MW)
1	Eastern Gandak Canal	Gandak	40
<b>TOTAL</b>		<b>40</b>	

**1 (B). Additional Projects (Identified after Re-Assessment Studies)**

Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Dagmara		130	Returned
<b>1</b>	<b>Sub Total</b>		<b>130</b>	

**1 (C). Project identified above 25 MW capacity in Reassessment Study and developed below 25 MW capacity**

Sl. No.	Naome of Project	State	River	Type	I.C. (MW)	Status
1	Eastern Gandak Canal	Bihar	Gandal	R	40	Developed below 25 MW
<b>1</b>	<b>Total</b>				<b>40</b>	

**2. Hydroelectric Projects in operation in Bihar (above 25 MW):**

At present, no hydroelectric project (above 25 MW) is under operation in Bihar. Four H.E. Projects having installed capacity of 44.9MW, consisting of Kosi (20MW), Sone Western Canal (6.6MW), Sone Eastern Canal (3.3MW) and Eastern Gandak (15MW), are in operation in Bihar which are all below 25MW capacity each.

**3. Projects under Construction:**

At present no hydro scheme is under construction in Bihar.

**4. Projects Under S&I:**

Sl. No.	Name of Scheme	Agency	I.C. (MW)	Date of MoA	Target date of preparation of DPR
1	Dagmara	BSHPC	130		Mar'21
	<b>Total</b>		<b>130</b>		

### Status of Large Hydro Power Development in Jharkhand

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		8	582
Project identified below 25 MW capacity in Reassessment Study and developed above 25 MW capacity		2	130
Project identified above 25 MW capacity in Reassessment Study and developed below 25 MW capacity		-1	-30
Projects Identified in this State but developed/being developed in other State(s) #		-1	-60
<b>Total</b>		<b>8</b>	<b>622</b>
I	Projects in operation	3	170
II	Projects dropped due to Basin studies/ Other reasons	1	710
III	Projects yet to be allotted by the State for development*	4	307

# Maithon is in operation in West Bengal State

Note : In addition to above, one pumped storage project, namely Panchet Hill (1x40 = 40 MW) is constructed but not working in pumping mode as tail pool dam is not constructed and it has been decided not to operate project in pumping mode due to land acquisition issues of Lower Reservoir.

\*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 schemes, addition/deletion of the schemes, etc.

#### 1 (A). Identified Projects during Reassessment study:

Sl.No.	Name of Project	River	I. C. (MW)
1	Panchet (Panchet Hill)	Damodar	40
2	Maithon #	Damodar	60
3	Subernrekha MPP ##	Subernrekha	30
4	Koel Karo (Koel Karo St-I ### (Lumpungkhel PH))	N.Koel	145
5	Serengada	N.Koel	37
6	Sankh-II (Upper Sankh St-II)	Sankh	55
7	Lower Sankh	Sankh	55
8	Indrapuri (Khadwan)	Sone	160
<b>8</b>	<b>TOTAL</b>		<b>582</b>

# Maithon is in operation in West Bengal State

## Subernrekha MPP has been developed below 25 MW.

### Koel Karo H.E. Project (4x172.5 + 1x20 = 710 MW), located in Ranchi, Gumla & Singhbhum Districts of Jharkhand ( in the erstwhile unified State of Bihar), envisages utilization of waters of the South Koel and North Karo rivers. Koel Karo H.E. Project was entrusted to NHPC in August 1980 for execution under central sector. The project was sanctioned by Govt. of India as a NHPC project in June 1981 at an estimated cost of Rs. 444.67 crores (gross) including cost of associated transmission line and interest during construction (IDC).

Ministry of Power vide their letter dated 30-09-2005 informed the closure of project due to non-finalization of power purchase agreement.

**1 (B). Change in Projects which were identified upto 25 MW and being developed above 25 MW**

Sl.No.	Name of Project	River	I.C. (MW)	Status	Remarks
1	Subernarekha-I	Subernarekha	65	In Operation	Subernarekha St.I - 24 MW
2	Subernarekha-II	Subernarekha	65	In Operation	Subernarekha St.II - 12 MW
<b>2</b>	<b>Sub Total</b>		<b>130</b>		

**1 (C). Project identified above 25 MW capacity in Reassessment Study and developed below 25 MW capacity**

Sl. No.	Naome of Project	State	River	Type	I.C. (MW)	Status
1	Subernarekha MPP	Jharkhand	Subernarekha	S	30	Developed below 25 MW
<b>1</b>	<b>Total</b>				<b>30</b>	

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

S. NO.	UTILITY / STATIONS	NO. OF STNS.	NO. OF UNITS X CAPACITY (MW)	RIVER / BASIN*	DISTRICT	I.C. (MW)	YEAR OF COMMISSIONING
<b>DVC</b>							
1	PANCHET	1	(1X40)	DAMODAR	DHANBAD	40	1990
<b>SUB-TOTAL DVC</b>		1				40	
<b>JUUNL</b>							
1	SUBERNREKHA -I	1	(1X65)	SUBERNAR EKHA	RANCHI	65	1977
2	SUBERNREKHA -II	1	(1X65)	SUBERNAR EKHA	RANCHI	65	1980
<b>TOTAL JUUNL</b>		2				130	
3	<b>TOTAL JHARKHAND</b>	3				170	

\* Panchet is in Ganga and Subernrekha-I & II are in CIR Basin.

Note : In addition to above, one pumped storage project, namely Panchet Hill (1x40 = 40 MW) is constructed but not working in pumping mode as tail pool dam is not constructed and it has been decided not to operate project in pumping mode due to land acquisition issues of Lower Reservoir.

**3. Projects dropped due to Basin studies/ Other reasons:**

Sl. No.	Name of Project	River	Type	I.C. (MW)	Remarks
1	Koel Karo	N. Koel & S. Karto	S	710	*
1	<b>Total</b>			<b>710</b>	

\* Koel Karo H.E. Project (4x172.5 + 1x20 = 710 MW), located in Ranchi, Gumla & Singhbhum Districts of Jharkhand ( in the erstwhile unified State of Bihar), envisages utilization of waters of the South Koel and North Karo rivers. Koel Karo H.E. Project was entrusted to NHPC in August 1980 for execution under central sector. The project was sanctioned by Govt. of India as a NHPC project in June 1981 at an estimated cost of Rs. 444.67 crores (gross) including cost of associated transmission line and interest during construction (IDC).

Ministry of Power vide their letter dated 30-09-2005 informed the closure of project due to non-finalization of power purchase agreement.

**4. H. E. Projects yet to be allotted by the State for development**

Sl. No.	Name of Project	River	Type	I.C. (MW)
1	Serengada	N.Koel	R	37
2	Sankh-II (Upper Sankh St-II)	Sankh	R	55
3	Lower Sankh	Sankh	S	55
4	Indrapuri (Khadwan)	Sone	S	160
4	<b>Total</b>	<b>4 Nos. of Schemes</b>		<b>307</b>

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

### Status of Large Hydro Power Development in Odisha

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		13	2981
Large Projects Identified after Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		2	128
Projects Identified in other State(s) but developed/being developed in this State #		1	205
<b>Total</b>		<b>16</b>	<b>3314</b>
I	Projects in operation	7	2142.25
II	Projects allotted by States for development		
	(i) Projects under S & I	2	128
	(ii) Projects held up due to Inter-State aspects	1	320
III	H. E. Projects yet to be allotted by the State for development*	6	1096

# The Project, Machkund was identified in Andhra Pradesh (205 MW) but has been in operation in Odisha State for 114.75 MW

Note : In addition to above, three pumped storage projects, namely Upper Indravati (4x150 =600 MW), Upper Kolab (2x160 =320 MW) and Balimela (2x250= 500 MW) are under S&I

\*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 of the projects, etc.

**1 (A). Identified Projects during Reassessment study:**

Sl.No.	Name of Project	River	IC
1	Bhimkund	Baitarni	29
2	Baljori	Baitarni	230
3	Lodani	Brahmani	42
4	Rengali	Brahmani	135
5	Naraj	Mahanadi	215
6	Tikkarpara	Mahanadi	205
7	Sindol [Hirakud St-III]	Mahanadi	175
8	Hirakud (Chiplima) [Hirakud St-II]	Mahanadi	155
9	Hirakud (Burla) [Hirakud St-I]	Mahanadi	150
10	Upper Indravati	Indravati	585
11	Upper Kolab	Sabari	280
12	Lower Kolab	Sabari	375
13	Balimela	Balimela	405
<b>13</b>	<b>Total</b>		<b>2981</b>

**1 (B). Additional Projects (Identified after Re-Assessment Studies)**

Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Kharag	Kharag	63	S&I
2	Salki	Salki	65	S&I
<b>2</b>	<b>Sub Total</b>		<b>128</b>	

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

S. NO.	UTILITY/ STATIONS	NO. OF STNS.	NO. OF UNITS X CAPACITY (MW)	RIVER	DISTRICT	I.C. (MW)	YEAR OF COMMISSIONING
<b>OHPC</b>							
1	BALIMELA	1	(6X60)+ (2X75)	SILERU	MALKANGIRI	510	1973-1977, 2008
2	HIRAKUD (BURLA) [HIRAKUD ST- I]	1	(3X37.5) (2X49.5) +(2X32)	MAHANADI	SAMBALPUR	275.5	1956-1990
3	HIRAKUD (CHIPLIMA) [HIRAKUD ST- II]	1	(3X24)	MAHANADI	SAMBALPUR	72	1962-1964
4	RENGALI	1	(5X50)	BRAHMANI	ANGUL	250	1985-1992
5	UPPER INDRAVATI	1	(4X150)	INDRAVATI	KALAHANDI	600	1999-2001
6	UPPER KOLAB	1	(4X80)	KOLAB	KORAPUT	320	1988-1993
	<b>TOTAL OHPC</b>	<b>6</b>				<b>2027.5</b>	
<b>APGENCO</b>							
1	MACHKUND	1	(3X17)+ (3X21.25)	MACHKUND	KORAPUT	114.75	1959
	<b>SUB-TOTAL APGENCO</b>	<b>1</b>				<b>114.75</b>	
<b>7</b>	<b>TOTAL ODISHA</b>	<b>7</b>				<b>2142.25</b>	

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



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

Sl. No.	Name of Project	Basin/River	I.C. (MW)	Agency
1	Salki	Salki	65	OHPCL
2	Kharag	Kharag	63	OHPCL
<b>2</b>	<b>Total</b>		<b>128</b>	

Note : In addition to above, three pumped storage projects, namely Upper Indravati (4x150 =600 MW), Upper Kolab (2x160 =320 MW) and Balimela (2x250= 500 MW) are under S&I

**4. H.E. Projects involving Inter-State aspects:**

Sl. No.	Name of Project	I.C. (MW)	Location (State)	States Involved	Status
1	Sindol [HIRAKUD ST- III] 320 MW= (5x20+5x20+6x20)	320	Orissa	MP/Chhatisgarh/ Bihar/ Jharkhand/ Orissa / Maharashtra	DPR with estimated cost of Rs.2246.14 crores (1994 PL) returned in 07/96 due to non-resolution of interstate aspect. The consent of the upstream States viz. Jharkhand, Bihar, M.P, Chhatisgarh and Maharashtra is not available.DPR is being revised by reducing Installed Capacity. Revised DPR yet to be submitted to CEA. Revised hydrology of Sindol-I for 100 MW has been submitted to CWC for clearance.
<b>1</b>	<b>Total</b>	<b>320</b>			

**5. H. E. Projects yet to be allotted by the State for development**

Sl.No.	Name of Project	River	Type	I.C. (MW)
1	Bhimkund	Baitarni	S	29
2	Baljori	Baitarni	S	230
3	Lodani	Brahmani	S	42
4	Naraj	Mahanadi	S	215
5	Tikkarpara	Mahanadi	S	205
6	Lower Kolab	Kolab (Sabri)	S	375
<b>6</b>	<b>Total</b>	<b>6 Nos. of Projects</b>		<b>1096</b>

Note: S- Storage

## Status of Large Hydro Power Development in Sikkim

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		24	4248
Large Projects Identified after Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		9	1132
<b>Total</b>		<b>33</b>	<b>5380</b>
I	Projects in operation	7	2169
II A	Projects under active construction	2	596
II B	Projects on which construction is held up	4	537
III	Projects allotted by States for development		
	(i) Projects concurred by CEA and yet to be taken up for construction	1	520
	(ii) Projects allotted for development on which S&I is held up/ yet to be taken up	2	92
IV	Projects dropped due to Basin studies/ Other reasons	1	96
V	Projects yet to be allotted by the State for development*	16	1914

\*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 of the projects, etc.

<b>1 (A). Identified Projects during Reassessment study:</b>				
<b>Sl.No.</b>	<b>Name of Project</b>	<b>River</b>	<b>Type</b>	<b>IC</b>
1	Kalep	Tista	R	41
2	Talem	Tista	R	65
3	Jedang	Lhonak	R	185
4	Teesta I (Zema)	Tista	R	125
5	Serum	Sebokung	R	50
6	Lachung	Lachung	R	30
7	Ringpi	Ringpi	R	160
8	Lingza	Ringpi	R	160
9	Rukel	Tolung	R	90
10	Rangyong	Tolung	R	175
11	Dikchu	Dikchu	R	90
12	Chhota Pathing	Rongpo	R	55
13	Rongnichu (Rongni Storage)	Rongni	R	95
14	Mana	G.Ranjit	R	37
15	Lethang (Yoksam)	Rathong	R	44
16	Mamium	G.Ranjit	R	175
17	Gompa	G.Ranjit	R	46
18	Rangit-III (Ligship)	G.Ranjit	R	115
19	Teesta St.II (Chunthang)	Tista	R	830
20	Teesta-III (Singhik)	Tista	R	685
21	Panan	Tolung	R	230
22	Teesta - IV (Mangan)	Tista	R	445
23	Teesta-V (Samdong)	Tista	R	280
24	Lower Lagyap	Rongpi	R	40
<b>24</b>	<b>Total</b>			<b>4248</b>

**1 (B). Additional Projects (Identified after Re-Assessment Studies)**

Sl.No.	Name of Project	River	I.C. (MW)	Status
<b>Sikkim</b>				
1	Kalez Khola	Kalez Khoa	52	Held Up
2	Suntaleyta	Suntaleyta	40	Held Up
3	Chujachen	Rongli & Rangpo	110	In Operation
4	Jorethang Loop	Rangit	96	In Operation
5	Tashiding	Rathang Chu	97	In Operation
6	Bhasmey	Rangpo/Teesta	51	Under Construction
7	Rangit-II	Greater Rangit/ Teesta	66	Under Construction
8	Rangit-IV	Rangit/Teesta	120	Under Construction
9	Teesta St.VI	Teesta	500	Under Construction
<b>9</b>	<b>Sub Total</b>		<b>1132</b>	

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

S. NO.	UTILITY/ STATIONS	NO. OF STNS.	NO. OF UNITS X CAPACITY (MW)	RIVER / BASIN*	DISTRICT	I.C. (MW)	YEAR OF COMMISSIONING
<b>NHPC</b>							
1	RANGIT-III (Ligship)	1	(3X20)	RANGIT	GANGTOK	60	2000
2	TEESTA-V (Samdong)	1	(3X170)	TEESTA	EAST SIKKIM	510	2008
	<b>SUB-TOTAL NHPC</b>	<b>2</b>				<b>570</b>	
<b>STATE</b>							
<b>TEESTA URJA LTD. (TUL)</b>							
3	TEESTA-III (Singhik)	1	(6X200)	TEESTA	NORTH SIKKIM	1200	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	2013
<b>SNEHA KINETIC POWER PROJECTS PVT LTD (SKPPPL)</b>							
5	DIKCHU	1	(2*48)		EAST & NORTH SIKKIM	96	2017
<b>SHIGA ENERGY PVT LTD (SEPL)</b>							
6	TASHIDING	1	(2*48.50)	RATHANG CHU		97	2017
<b>DANS ENERGY PVT LTD. (DEPL)</b>							
7	JORETHANG LOOP	1	(2*48)	RANGIT	SOUTH /WEST	96	2015
	<b>SUB-TOTAL PRIVATE</b>	<b>4</b>				<b>399</b>	
<b>7</b>	<b>TOTAL SIKKIM</b>	<b>7</b>				<b>2169</b>	

\* All projects are in Brahmaputra Basin

**3A. H.E. Projects under active Construction:**

Sl. No.	Name of Project	Agency	District	I.C. (MW)	River/ Basin	Likely Commissioning
1	Rongnichu (Rongni Storage)	Madhya Bharat	East Sikkim	96	Rongnichu/ Teesta/	2021-22 (May'21)
					Brahmaputra	
2	Teesta St. VI	NHPC	South Sikkim	500	Teesta/	2023-24 (Mar.'24)
					Brahmaputra	
<b>2</b>	<b>Total</b>			<b>596</b>		

**3B. H.E. Projects on which Construction is held up:**

Sl. No.	Name of Project	Agency	District	I.C. (MW)	River/ Basin	Status & Likely Commissioning
1	Bhasmey	Gati Infrastructure	East Sikkim	51	Rangpo/ Teesta	Works are stalled since Sept., 2016 due to funds constraints with developer. 2024-25*
					Brahmaputra	
2	Rangit-IV	JAL Power	West Sikkim	120	Rangit/ Teesta	Project is stalled since October, 2013 due to funds constraints with the developer. The project is under NCLT process since 9th April, 2019. NHPC submitted EOI on 08.07.2019 and was shortlisted under final list of Prospective Resolution Applicants on dated 23.08.2019. The Resolution Plan submitted by NHPC on 04.12.2019. The Resolution Plan Approval Application was listed for hearing on 17.02.2020 before NCLT, Hyderabad ("Tribunal"). Final hearing was held on 31.07.2020. Investment approval for acquisition of M/s Jal Power Corporation Ltd. and construction of balance works of Rangit-IV by NHPC was conveyed to NHPC by MoP on 30.03.2021. The project has been awarded to NHPC. Award of works is under process. 2024-25*
					Brahmaputra	
3	Rangit-II	Sikkim Hydro	West Sikkim	66	Greater Rangit/ Teesta	Works are stalled since December, 2017 due to funds constraints with developer. Project is in NCLT since 30.07.2020. 2024-25*
					Brahmaputra	
4	Panan	Himagiri	North Sikkim	300	Rangyongchu/ Teesta	Issue of construction of bridge on Mantham Lake for accesibility of site is under discussion with the State Govt of Sikkim. 2025-26 *
					Brahmaputra	
<b>4</b>	<b>Total</b>			<b>537</b>		

\* Subject to re-start of work in immediate future

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

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

# MoU with State Govt. to be amended by developer. State Forest Department on 31.01.2018 submitted compliance report of FC-I to MoEF&CC for issuance of FC-II. MoEF&CC, vide letter dated 05.02.2019, has furnished observations on the compliance report to State Govt. NHPC vide letter dated 23.07.2019, 14.09.2019, 24.09.2019, 16.10.2019 and 21.08.2020 has requested DC, North Sikkim to resolve the issue of pending consent from 3 GPUs required for obtaining FC-II and also nomination of members of concerned GPUs for constitution of expert group at the earliest. DFO (North) on 15.09.2019 submitted reply to observations of MoEF&CC wrt CA and KML files to CCF (FC), Govt. of Sikkim for further submission to MoEF&CC. CMD NHPC vide DO letter dt. 06.03.2020 has requested Hon'ble CM of Sikkim to intervene and vide letter dated 02.05.2020 has requested Chief Secretary, Sikkim to direct concerned officers for expeditious compliance on observations of MoEF&CC and constitution of Multidisciplinary Expert Group for appraisal of SIA Report paving way for Forest Clearance and acquisition of Private Land for the project. Secretary (Power), MOP vide DO letters dated 02.03.2020 and 09.06.2020 has requested Chief Secretary, Govt. of Sikkim to intervene in the matter and issue directions to the concerned authorities for expediting action on compliance of observation of MoEF&CC reg. FRA 2006 and constitution of Expert Group for appraisal of SIA report. Also 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. CMD, NHPC vide DO letter dtd 04.01.2021 has again requested Chief Secretary, Sikkim to expedite the matter regarding FRA. A meeting was held between CMD, NHPC and Hon'ble Minister of Rural Management & Development, Govt. of Sikkim on 22.01.2021 wherein various pending issues related to Project were discussed.

## 5. H.E. Projects on which Survey &amp; Investigation held up:

Sl. No.	Name of Project	Basin/River	Agency	Original I.C. (MW)	Date of MOA	Remarks
1	Kalez khola	Kalez khola/ Rangit	CWC	52	12.2.2007	Due to objection raised by local people against Topographical Survey.
2	Suntaleytar	Rangpochu	Hindustan Electric Power Ltd.	40	LOI date 23.02.12	S&I to be taken up after finalization of MOA.
<b>2</b>	<b>Total</b>			<b>92</b>		

## 6. Projects dropped due to Basin studies/ Other reasons:

Sl. No.	Name of Project	Agency	I.C. (MW)	Remarks
1	Lethang (Yoksam)	KHCHPL	96	DPR was not accepted for examination due to lacks of barrage v/s dam design, review of I.C. spillway capacity etc. The Government of Sikkim ordered the closure of Lethang HEP being undertaken in Yoksam, Tashiding constituency in West Sikkim in public interest.
<b>1</b>	<b>Total</b>		<b>96</b>	

<b>7. H.E. Projects yet to be allotted by the State for development:</b>				
<b>Sl.No.</b>	<b>Name of Project</b>	<b>River</b>	<b>Type</b>	<b>IC</b>
1	Kalep	Tista	R	41
2	Talem	Tista	R	65
3	Jedang	Lhonak	R	185
4	Teesta-I (Zema)	Tista	R	125
5	Serum	Sebokung	R	50
6	Lachung	Lachung	R	30
7	Ringpi	Ringpi	R	160
8	Lingza	Ringpi	R	160
9	Rukel	Tolung	R	90
10	Rangyong	Tolung	R	175
11	Chhota Pathing	Rongpo	R	55
12	Mana	G.Ranjit	R	37
13	Mamium	G.Ranjit	R	175
14	Gompa	G.Ranjit	R	46
15	Lower Lagyap	Rongpi	R	40
16	Teesta St-II	Teesta	R	480
<b>16</b>	<b>Total</b>			<b>1914</b>

Note: R –Run of the River



## Status of Large Hydro Power Development in West Bengal

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		6	2829
Large Projects Identified after Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		2	213
Projects Identified in other State(s) but developed/being developed in this State #		1	60
<b>Total</b>		<b>9</b>	<b>3102</b>
I	Projects in operation	5	441.2
II	Projects under active construction	1	120
III	Projects on which S&I held up	1	81
IV	Projects yet to be allotted by the State for development*	2	103

# Maithon was identified in Jharkhand (60 MW) but is in operation in West Bengal State (63.2 MW)

Note : In addition to above, one pumped storage project, namely Purulia PSS (4x225 = 900 MW) is constructed & working in pumping mode while one project, namely Turga PSS (4x250= 1000 MW) is concurred by CEA.

\*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 of projects, etc.

**1 (A). Identified Projects during Reassessment study**

Sl.No.	Name of Project	River	I. C. (MW)
1	Balason	Balason	33
2	Teesta Low Dam-IV (Teesta High Dam)	Teesta	2505
3	Rammam-I	Rammam	70
4	Rammam-II	Rammam	85
5	Rammam-III	Rammam	100
6	Jaldhaka (Jaldhaka-I)	Jaldhaka	36
<b>6</b>	<b>TOTAL</b>		<b>2829</b>

**1 (B). Additional Projects (Identified after Re-Assessment Studies)**

Sl.No.	Name of Project	River	I.C. (MW)	Status
1	TLDP I&II (Teesta Low Dam I&II)	Teesta/Badi (Great Rangit)	81	Held Up
2	Teesta Low Dam -III	Teesta	132	In Operation
<b>2</b>	<b>Sub Total</b>		<b>213</b>	

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

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

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

Note : In addition to above, one pumped storage project, namely Purulia PSS (4x225 = 900 MW) is constructed & working in pumping mode while one project, namely Turga PSS (4x250= 1000 MW) is concurred by CEA.

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

Sl. No.	Name of Project	Agency	District	River / Basin	I. C. (MW)	Likely Commissioning
1	Rammam-III	NTPC	Darjeeling	Rammam/ Rangit/	120	2022-23 (Nov'22)
<b>1</b>					<b>120</b>	

**4. H.E Projects on which Survey & Investigation held up:**

Sl.No.	Name of Project	Basin /River	Agency	I.C. (MW)	Date of MOA	Remarks
1	TLDP-I&II	Teesta/Badi (Great Rangit)	NHPC	81	30.07.15	S&I held up due to withdrawal of consent for the project by Govt. of Sikkim on 30.01.2017. The project handed over to WBSEDCL, Govt. of West Bengal due to <b>Non-availability of consent from Govt. of Sikkim</b> and also due to commercial unviability.
<b>1</b>	<b>Total</b>			<b>81</b>		

**5. H. E. Projects yet to be allotted by the State for development:**

<b>Sl.No.</b>	<b>Name of Project</b>	<b>River</b>	<b>Type</b>	<b>I.C.(MW)</b>
1	Balason	Balason	R	33
2	Rammam-I	Rammam	R	70
<b>2</b>	<b>Total</b>	<b>2 Projects</b>		<b>103</b>

**Note: R –Run of the River**

## Status of Large Hydro Power Development in Arunachal Pradesh

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		87	50064
Large Projects Identified after Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		44	10843
Change in Projects due to splitting of projects (identified during reassessment study in 1978-87)		6	-1168
Change in Projects due to merging of projects (identified during reassessment study in 1978-87)		-2	-2612
<b>Total</b>		<b>135</b>	<b>57127</b>
I	Projects in operation	3	1115
II	Projects under active construction	1	2000
III	Projects allotted by States for development		
	(i) Projects concurred by CEA and yet to be taken up for construction	14	15978
	(ii) Projects returned to project authorities	14	6403
	(iii) Projects under S&I	5	588
	(iv) Projects allotted for development on which S&I is held up/ yet to be taken up	32	9980
IV	Projects dropped due to basin studies	20	3998
V	Projects stuck due to Inter-State/ Other Issues	4	2600
VI	Projects yet to be allotted by the State for development*	42	14999

\*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.

**1 (A). Additional Projects (Identified after Re-Assessment Studies)**

Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Nafra	Bichom	120	Concurred
2	Nyamjang Chhu	Nyamjang Chhu	780	Concurred
3	Talonga Londa	Kameng	225	Concurred
4	Tawang-I	Tawang Chu	600	Concurred
5	Tawang-II	Tawang Chu	800	Concurred
6	Hirit Korong	Siang	42	Dropped
7	Sipit Upper	Siang	45	Dropped
8	Siri Korong	Siang	58	Dropped
9	Soying Korong	Siang	48	Dropped
10	Thingbu Chu	Tawang	60	Dropped
11	Tsa chu-I	Tawang	43	Dropped
12	Yemsing	Siang	38	Dropped
13	Anjaw	Anjaaw	270	Held Up
14	Dengser	Dengser	552	Held Up
15	Dinchang	Dinchanag	252	Held Up
16	Ithun I	Ithun-1	84	Held Up
17	Nalo	Nalo	635	Held Up
18	New Melling		90	Held Up
19	Rho	Rho	93	Held Up
20	Subansiri Upper		1800	Held Up
21	Yamne-1	Yamne-1	111	Held Up
22	Pare	Brahmaputra	110	In Operation
23	Kangtangshiri		80	Returned
24	Mago Chu		96	Returned
25	Nyukcharong Chu		96	Returned
26	Pemashelphu		90	Returned
27	Ranganadi St-II		130	Returned
28	Subansiri Middle (Kamla)		1800	Returned
29	Tagurshit		74	Returned
30	Yamne St-II		84	Returned
31	Marijingla		39	S&I
32	Marijingla Lower		37	S&I
33	Pachuk-II	Kameng	61	S&I
34	Panyor	Dikrong	80	S&I
35	Rapum	Siang	66	S&I
36	Rego	Siang	97	S&I
37	Sippi	Siang	96	S&I
38	Tidding-II	Lohit	75	S&I
39	Tsa Chu -II	Tawang	67	S&I
40	Tsa chu-I Lower	Tawang	77	S&I
41	Kameng	Bichom/ Kameng	600	Under Construction
42	Gongri		144	Yet to be
43	Jameri		60	Yet to be
44	Meyong		38	Yet to be
<b>44</b>	<b>Sub Total</b>		<b>10843</b>	

**1 (B). Change in Projects due to splitting of projects (identified during reassessment study in 1978-87)**

Before Splitting					After Splitting				
Sl.No.	Name of Project	River	I.C. (MW)	Status	Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Passighat	Dihang	14685	Identified	1	Upper Siang I	Siang	6000	Yet to be
					2	Upper Siang II	Siang	3750	Yet to be
					3	Siyom (Middle Siang)	Siang	1000	Concurred
					4	Lower Siang	Siang	2700	Concurred
2	Hutong	Luhit	950	Identified	5	Hutong Stage I		750	Dropped
					6	Hutong-II		1200	Returned
3	Kalai	Luhit	2550	Identified	7	Kalai I	Lohit	1352	Returned
					8	Kalai II	Lohit	1200	Concurred
4	Demwe	Luhit	3765	Identified	9	Demwe Upper	Lohit	1080	Returned
					10	Demwe Lower	Lohit	1750	Concurred
<b>4</b>	<b>Sub Total</b>		<b>21950</b>		<b>10</b>			<b>20782</b>	
	Net Change in Numbers		<b>6</b>	Increase					
	Net Change in Capacity		<b>-1168</b>	Decrease					

**1 (C). Change in Projects due to merging of projects (identified during reassessment study in 1978-87)**

Before Merging					After Merging				
Sl.No.	Name of Project	River	I.C. (MW)	Status	Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Oju-I	Subansiri	1925	Identified	1	Oju	Subansiri	1878	S&I
2	Oju-II	Subansiri	2580	Identified					
3	Kurung Dam-I	Kurung	200	Identified	2	Kurung	Kurung	330	Held Up
4	Kurung Dam-II	Kurung	115	Identified					
<b>4</b>	<b>Sub Total</b>		<b>4820</b>		<b>2</b>	<b>Sub Total</b>		<b>2208</b>	
	Net Change in Numbers		<b>-2</b>	Decrease					
	Net Change in Capacity		<b>-2612</b>	Decrease					

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

S. No.	Name of Project	No. Of units	No. of units x capacity (MW)	River	District	Capacity (MW)	Year of commissioning
<b>NEEPCO</b>							
1	RANGANADI [Yazali Div.-II]	3	(3X135)	RANGANADI	LOWER SUBANSIRI	405	2002
2	PARE	2	(2X55)	BRAHAMPUTRA		110	2018
3	Kameng	4	(4x150)	Bichom & Tenga / Kameng	West Kameng	600	2020-21
<b>3</b>	<b>Total</b>	<b>9</b>				<b>1115</b>	

Note: All projects are in Brahmaputra Basin

## 3. H.E. Projects Under Active Construction:

Sl. No.	Name of Project	Agency	District	I.C. (MW)	River	Likely Commissioning
1	Subansiri [Subansiri Dam]	NHPC	L.Subansiri/ Dhemaji	2000	Subansiri	2023-24 (Aug.'23)
<b>1</b>	<b>Total</b>			<b>2000</b>		

Note: All projects are in Brahmaputra Basin



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

Sl No.	Name of Project	Agency	District	River	I.C. (MW)	Date of CEA Concurrence	Status
1	Lower Siang	JAVL	East Siang	Siang	2700	16.02.10	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	Nafra	SNEL	West Kameng	Bichom	120	11.02.11	EC accorded on 19.08.2013. FC-I accorded on 12.07.2011 & FC-II accorded on 26.06.2012. Financial closure yet to be achieved by the developer.
3	Tawang St-I	NHPC	Tawang	Tawang Chu	600	10.10.11	EC accorded on 10.06.2011. FC-I & FC-II are pending. #
4	Tawang St-II	NHPC	Tawang	Tawang Chu	800	22.09.11	EC accorded on 10.06.2011. FC-I accorded on 08.01.2014. FC-II yet to be obtained. ##
5	Demwe Lower	ADPL	Lohit	Lohit	1750	20.11.09	EC accorded on 12.02.2010. FC-I accorded. FC-II accorded on 03.05.2013. ###
6	Hirong	JAPL	West Siang	Siang	500	10.04.2013	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.
7	Talonga Londa	GMR	East Kameng	Kameng	225	16.08.2013	EC accorded on 07.08.2015. FC-I & FC-II yet to be obtained.
8	Etailin	EHEPCL	Dibang Valley	Dri & Tangon	3097	12.07.2013	EC recommended by EAC on 31.01.2017. Letter will be issued after FC-I. FC-I & FC-II yet to be obtained. ####
9	Naying HEP	NDSCLPL	West Siang	Siang	1000	11.09.2013	EC & FC yet to be obtained by developer. 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.
10	Kalai –II	Kalai PPL	Anjaw	Lohit	1200	27.3.2015	EC accorded 20.05.2015. FC-I and FC-II yet to be obtained. Land acquisition under process.
11	Heo	HHPL	West Siang	Yarjep	240	28.07.2015	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.
12	Tato-I	SHPL	West Siang	Yarjep	186	28.10.2015	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.
13	Dibang [Dibang Storage]	NHPC	lower Dibang Valley	Dibang	2880	18.09.2017	EC accorded on 19.05.2015. FC-I accorded on 15.04.2015. FC-II: 12.03.2020 CCEA at its meeting held on 17.07.2019 has accorded approval for incurring expenditure of Rs. 1600 crore on Pre-investment activities for the project including NPV, CA, CAT Plan and Wildlife Management.
14	Attunli	AHEPCL	Dibang Valley	Tangon	680	15.03.18	Both EC and FC are yet to be obtained. MoEF&CC stated that fresh ToR was issued in May'2019. Forest survey under progress. Land Acquisition under process.
14	<b>Total</b>				<b>15978</b>		

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

# 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.

## 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 had again requested Chief Secretary, Govt. of Arunachal Pradesh to intervene in the matter. Matter is being pursued with District Administration.

### 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.

#### 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. Further, FAC has sought the inputs of nodal ministry i.e. Ministry of Power w.r.t. its stand regarding implementation of Etailin HE Project. MoP's inputs are awaited. MoP vide its letter dated 30.07.2020 requested CEA to provide comments. CEA vide its letter dated 17.08.2020 furnished the comments regarding Etailin HEP to MoP. Final recommendations of FAC are pending

**5. 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	Ranganadi St-II	NEEPCO	130	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	DPR returned on 05/11 due to inadequate geological investigations at dam site, diversion tunnel, surge shaft & power house etc.
3	Hutong –II	MEIPL	1200	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	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	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 [Sesseri]	SSHPL	100	Returned on 06/13 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	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	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	Returned on 29.07.2013 due to inadequate investigation and in proper layout etc.
10	Demwe Upper	LUPL	1080	Returned on 03/15 as developer informed that due to lack of confidence in constructability of Dam considering its deep foundation, they are not in a position to finalize the type of dam and are still in consultation with the contractors in this regard. Hence the project was returned vide secretary CEA ltr. Dtd.26/03/2015
11	Nyukcharong Chu	SNCPCCL	96	Returned on 04/15 due to non-submission of investigation suggested by GSI.
12	Subansiri Middle (Kamla)	KHEPCL	1800	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.
13	Magochu	SMCPCL	96	
14	Tagurshit		74	Returned in 06/19.
<b>14</b>	<b>Total</b>		<b>6403</b>	

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

<b>Sl. No.</b>	<b>Name of Project</b>	<b>Basin/River</b>	<b>Agency for DPR</b>	<b>Original I.C. (MW)</b>	<b>Date of MOA</b>	<b>Target date of Preparation of DPR</b>
1	Anjaw	Lohit	Athena Energy Ventures Ltd.	270	09.07.2007	-
2	Rego	Siang	Greenko Energies Ltd.	97	25.09.2012	-
3	Rapum	Siang	Greenko Energies Ltd.	66	27.12.2007	-
4	Panyor	Dikrong	Rajratna Energy Holding Pvt. Ltd.	80	25.02.2009	-
5	Lower Yamne -I [Jarum]	Siang	Yamne Power Pvt. Ltd	75	29.11.2009	-
<b>5</b>	<b>Total</b>			<b>588</b>		

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

Sl. No.	Name of Project	I.C. (MW)	Agency	Date of Allotment/ MoA	Status
1	Papu	90	CESC Ltd.	16.05.2012	Issue of interference of levels with the Upstream project of M/s Vensar Energy Ltd, i.e Papu Valley HEP (45MW) requires to be resolved. Both Vensar constructions and CESC Ltd clarified that there is no overlapping at ground vide letter dtd 29/12/16. Re-survey and DPR submission was targetted to be completed in May 2019, which is still awaited.
2	Kameng Dam	420	KSK Energy Ventures Ltd.	25.01.2007	MoEF did not issue ToR due to <b>proximity to Pakke Tiger Reserve</b> . All other possible alternative site(s) are in proximity of tiger reserve due to which the <b>project has been dropped</b> . The Developer had already written for refund of upfront premium for surrendering the project.
3	Emra-I	275	Athena Energy Ventures Pvt. Ltd.	02.02.2008	No proper approach road to the project site. No progress is shown till date. <b>Intent to Terminate by GoAP</b> under process since 25/07/2018.
4	Nalo	635	Indus Hydro Power	16.11.2010	First consultaion meeting held on 27.11.2013. <b>Intent to terminate</b> under proocess since 19/03/2018
5	Rho	93	SEW Energy	2.3.2009	First consultation meeting held on 30.10.2013. No visible progress since 2015. Drift Work pending. Letter issued to the developer to resolve issues with CEA/CWC/GSI on 17/9/19.
6	Dardu	60	KVK Energy & Infrastructure Ltd.	26.12.2007	No activity/progress in the project. Local public are demanding to hand over the project to CPSU. Dikrong basin study not yet finalised. <b>Intention to terminate by GoAP</b> is under process since 10/04/18.
7	Naba	1000	Abir Infrastructre Pvt. Ltd.	21.06.2010	S&I held up due to unapproachable area/ difficult & inhospitable terrain and local law & order problem. There is no activity in the project. 2nd show cause notice was issued by GoAP on 26/06/2015.
8	Dengser	552	Coastal Infrastructre Pvt. Ltd.	26.04.2011	S&I held up due to unapproachable area/ difficult & inhospitable terrain and local law & order problem. No activity in the project. 1st show cause notice was issued on 12/05/2015.
9	Niare	800	Coastal Infrastructre Pvt. Ltd.	26.04.2011	S&I held up due to unapproachable area/ difficult & inhospitable terrain and local law & order problem. There is no Activity in the project. 5th Show cause notice was issued by GoAP on 12/05/2015.

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

Sl. No.	Name of Project	I.C. (MW)	Agency	Date of Allotment/ MoA	Status
10	Emra-II	390	Athena Energy Ventures Ltd.	02.02.2009	No road connectivity to project site. Local issues, communication problems. <b>Intent to Terminate</b> under process since 25/07/2018.
11	Yamne-I	111	S.S. Yamne Power Pvt Ltd	05.03.2009	First consultation meeting held on 30.07.2014. Local and law and order. Problems. <b>Under process for termination</b> since 18/05/18
12	Dinchang	252	KSK Energy Ventures Ltd	11.9.2007	Project <b>under process for termination</b> by GoAP since 13.03.2018.
13	Ithun-I	84	JVKIL Consortium	29.8.2008	Non-operationalization of Hunli-Desali road. Very slow progress, hence under process for <b>Intent to Terminate by GoAP</b> since 19/07/2018
14	Subansiri Upper	1800	KSK Energy Ventures Ltd.	18.03.2010	S&I held up due to lack of clarity on funding of Flood Moderation cost. Second show cause notice was issued on 26/06/2015.
15	Kurung [Kurung Dam - I + Kurung Dam-II]	330	NEEPCO	27.01.2015	S&I held up as the proposal for sanction of Pre-Investment expenditure is on hold. Meeting of Delegated Investment Board(DIB) for pre-investment approval held on 18/01/2018 wherein Secy(Power), MoP expressed concern over some of the clauses of MoA between NEEPCO and GoAP
16	New Melling	90	SEW Energy	02.03.2009	S&I held up due to no activity/progress in the project. Due to poor progress an <b>intent to terminate</b> is under process since 03/07/18
17	Chomi	80	Adveta Power	14.2.2013	MoA to be renewed.
18	Chela	75	Adveta Power	14.2.2013	MoA to be renewed.
19	Para	45	Coastal Projects Pvt. Ltd.	19.11.2008	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.
20	Tidding-I	84	Sai Krishnodaya Ind. (P) Ltd.	26.02.2009	S&I is held up as there is in progress in the S&I activities of project. ToR has not been obtained and there is no progress in geotechnical investigations.

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

Sl. No.	Name of Project	I.C. (MW)	Agency	Date of Allotment/ MoA	Status
21	Tidding-II	75	Sai Krishnodaya Ind. (P) Ltd.	26.02.2009	S&I is held up as there is in progress in the S&I activities of project. ToR has not been obtained and there is no progress in geotechnical investigations.
22	Oju [Oju-I + Oju-II]	1878	Navayuga Engg. Co. Ltd.	June 2010 for Oju-I & Oju-II, Revised MoU for Single Scheme is	S&I held up due to inaccessibility of the project site.
23	Pauk	145	Velcan Energy Pvt Ltd	30.06.2007 (rev MOA-31.07.09)	S&I held up due to land disputes between clans and law & order problem.
24	Pango (Minniying)	96	Meenakshi Power Ltd.	27.08.2010	S&I held up due to lack of infrastructure, poor communication network and remoteness of site.
25	Sippi	96	Meenakshi Power Ltd.	20.7.2011	S&I held up due to lack of infrastructure, poor communication network and remoteness of site.
26	Jidu (Yangsang)	92	Meenakshi Power Ltd.	20.7.2011	S&I held up due to lack of infrastructure, poor communication network and remoteness of site.
27	Pachuk-II	61	Energy development Co. Ltd	27.08.2010	Project shifted to S&I held up as no progress in the S&I activities of project reported by developer.
28	Tsa Chu - I Lower	77	Energy development Co. Ltd	27.08.2010	Project shifted to S&I held up as no progress in the S&I activities of project reported by developer.
29	Tsa Chu - II	67	Energy development Co. Ltd	27.08.2010	Project shifted to S&I held up as no progress in the S&I activities of project reported by developer.
30	Pachuk-II Lower [Kapak Leyak]	51	Energy development Co. Ltd	27.8.2010	Project shifted to S&I held up as no progress in the S&I activities of project reported by developer.
31	Marijingla	39	Energy development Co. Ltd	12.1.2008 (Amended on 27.8.2010)	Project shifted to S&I held up as no progress in the S&I activities of project reported by developer.
32	Marijingla Lower	37	Energy development Co. Ltd	27.8.2010	Project shifted to S&I held up as no progress in the S&I activities of project reported by developer.
<b>32</b>	<b>Total</b>	<b>9980</b>			

**8. Projects dropped due to basin studies:**

Sl. No.	Name of Project	I.C. (MW)	River	Basin	Remarks
1	Jarong	90	Siang	Brahmaputra	It is recommended not to allot the project again as this will ensure that 5.1 Km of Siyom river stretch between upstream Taiyong HEP and downstream Hirong HEP will remain a free flowing river stretch.
2	Hirit Korong	42	Siang	Brahmaputra	Fish species like Mahseer( <i>Tor putitora</i> ) migrates for spawning and breeding. <i>Labeo pangusia</i> is another fish which prefers waters of Hirit river for spawning. All the projects in Hirit basin are in eco-sensitive zone i.e. within 10 km radius of Yordi rabe Supse Wildlife sanctuary.
3	Soying Korong	48	Siang	Brahmaputra	
4	Siri Korong	58	Siang	Brahmaputra	
5	Sipit Upper	45	Siang	Brahmaputra	Dropped due to biodiversity richness of the basin.
6	Gameng	37	Siang	Brahmaputra	Sike flow is not sufficient to sustain a project and still have adequate environment flow through out the year.
7	Yemsing	38	Siang	Brahmaputra	This is in biodiversity rich area and would be affecting 8.8 Km of the river length for 38 MW.
8	Tammu	55	Subansiri	Brahmaputra	Doesn't meet the requirement of minimum e-flow. Dropping of this project will keep free flowing of Siu tributary of subansiri basin and provide lateral connectivity for aquatic fauna and conserve migratory fish species.
9	Nazong	60	Bichom	Brahmaputra	Dropped to ensure free flow of natural river .
10	Hutong Stage-I	750	Lohit	Brahmaputra	Dropped as it is at the elevation where both <i>Mahaseer</i> and <i>Snow Trout</i> are observed. The dropping of the project will provide the free stretch of 19.1 km for migration of both these species. The site is also not geologically stable
11	Kameng-I [Bharela Lift Dam - I]	1120	Kameng	Brahmaputra	
12	Kameng-II [Bharela Lift Dam - II]	600	Kameng	Brahmaputra	The project has been deleted from S&I Held up list as the project has been dropped as per Kameng Basin study report.
13	Pakke	110	Kameng	Brahmaputra	
14	Seba	80	Kameng	Brahmaputra	
15	Pasar	32	Kameng	Brahmaputra	
16	Bichom St-I	190	Bichom/ Kameng	Brahmaputra	
17	Bichom-II	205	Bichom/ Kameng	Brahmaputra	
18	Malinye [Mulinye]	335	Dibang	Brahmaputra	Falls within Dibang Wildlife Sanctuary.
19	Tsa Chu-I	43	Tawang	Brahmaputra	
20	Thingbu Chu	60	Tawang	Brahmaputra	
<b>20</b>	<b>Total</b>	<b>3998</b>			

\* Part of Hutong (as per re-assessment) (For Sr. No 10)

**9. Projects stuck due to Inter-State/ Other Issues:**

Sl. No.	Name of Project	I.C. (MW)	River	Date of CEA Concurrence	Remarks
1	Tato-II	700		22.05.2012	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.
2	Dibbin	120	Bichomchhu	04.12.09	EC accorded on 23.7.2012. FC-I accorded on 07.02.2012. FC-II yet to be obtained. Project is under consideration for transfer to State Govt./ NEEPCO. Installed capacity of the project is likely to be revised. Accordingly, DPR needs to be re-casted.
3	Siyom (Middle Siang)	1000	Siang	17.12.13	EC accorded 31.01.2008. 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.
4	Nyamjang Chhu	780	Tawang	24.03.11	Government of Arunachal Pradesh (GoAP) issued the instant notice for termination on 22.03.2019 to Bhilwara Energy Limited/NJC Hydropower Limited invoking its right to takeover the project on "AS IS WHERE IS BASIS" and allotting the same to third party. BEL filed petition under section 9 of arbitration act for maintaining the status quo of the project in district court of Tawang in Itanagar. The matter was further taken to Gauhati High Court and is sub-judice in Gauhati High court.
<b>4</b>	<b>Total</b>	<b>2600</b>			



**10. H. E. Projects yet to be allotted by the State for development**

Sl.No.	Name of Project	River	Type	I.C.(MW)	Remarks
1	Siang Upper St. I	Siang	S	6000	
2	Siang Upper St. II	Siang	S	3750	Issue of interference of levels with the Upstream project of M/s Vensar Energy Ltd, i.e Papu Valley HEP (45MW) requires to be resolved. Both Vensar constructions and CESC Ltd clarified that there is no overlapping at ground vide letter dtd 29/12/16. Re-survey and DPR submission was targetted to be completed in May 2019,which is still awaited.
3	Agoline	Dibang	R	235	
4	Elango	Ahi	R	180	
5	Rigong	Rigong	R	130	
6	Mirak	Sigong	R	160	
7	Hegio	Kurung	R	250	
8	Doimukh [Dudmukh Storage]	Dikrong	S	170	The project has been surrendered by developer to the State Govt.
9	Kimi	Bichom	R	535	
10	Chanda	Kameng	R	110	
11	Yapin	Yamne	R	95	
12	Pengging	Yamne	R	60	
13	Milli	Kurung	R	75	
14	Sape	Kurung	R	38	
15	Nyepin	Payam	R	32	
16	Hiya	Payam	R	41	
17	Kamla (Tamen)	Kamala	R	175	
18	Turu (Par)	Dikrong	R	65	
19	Yazali Storage	Ranga	S	95	
20	Tago-I	Yarjap	R	55	
21	Tenga	Tenga	S	275	

**10. H. E. Projects yet to be allotted by the State for development**

Sl.No.	Name of Project	River	Type	I.C.(MW)	Remarks
22	Rebby	Kameng	R	30	
23	Satuk	Pachuk	R	47	
24	Lachung	Pachi	R	41	
25	Phanchung	Pachi	R	90	
26	Utung	Bichom	R	110	
27	Khuitam	Digen	R	29	
28	But	Digen	R	26	
29	Mathithing	Digen	R	40	
30	Pichang	Kuru	S	31	
31	Tarang Warang	Pacha	R	65	
32	Sepla	Pacha	R	46	
33	Yangman Storage	Burhi Dihing	S	60	
34	Tirap (Tipang)	Tirap	S	80	
35	Jameri	Tenga	R	60	State Govt. terminated the agreement with developer for execution of the project which was earlier allotted to KSK Energy Ventures
36	Meyong	Timkong Rong	R	38	State Govt. terminated the agreement with developer for execution of the project which was earlier allotted to Patel Engineering Ltd.
37	Gongri	Gongri	R	144	State Govt. terminated the agreement with developer for execution of Gongri project which was earlier allotted to Patel Engineering Ltd. from under construction stage.
38	Talong	Kameng	S	150	
39	Badao	Kameng	R	66	State Govt. terminated the agreement with developer for execution of the project which was earlier allotted to Coastal Projects Pvt. Ltd.
40	Amulin	Mathun	R	420	State Govt. terminated the agreement with developer for execution of the project which was earlier allotted to Reliance Power Ltd.
41	Emini	Mathun	R	500	State Govt. terminated the agreement with developer for execution of the project which was earlier allotted to Reliance Power Ltd.
42	Mihumdon	Dri	R	400	State Govt. terminated the agreement with developer for execution of the project which was earlier allotted to Reliance Power Ltd.
<b>42</b>	<b>Total</b>	<b>42 Nos. of Projects</b>		<b>14999</b>	

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

**Status of Large Hydro Power Development in Assam**

		<b>Nos.</b>	<b>Capacity (MW)</b>
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		9	650
Large Project Identified after Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		1	120
<b>Total</b>		<b>10</b>	<b>770</b>
I	Projects in operation	3	350
II	Projects allotted by States for development		
	(i) Projects concurred by CEA and yet to be taken up for construction	1	120
	(ii) Projects returned to project authorities	1	60
III	Projects yet to be allotted by the State for development *	5	185

\*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, etc.

**1 (A). Identified Projects during Reassessment study:**

Sl.No.	Name of Project	River	I. C. (MW)
1	Dilli Stor.	Disang	33
2	Jamuna Dam P/H	Jamuna	28
3	Diyung Dam P/H	Diyung	47
4	Langey	Borpani	37
5	Khondong [Kopili I]	Kopili	50
6	Kopili [Kopili II]	Kopili	265
7	Karbi Langpi [Lower Borpani]	Borpani	90
8	Amring	Amring	40
9	Karbi Langpi [Upper Borpani]	Borpani	60
<b>9</b>	<b>TOTAL</b>		<b>650</b>

**1 (B). Additional Projects (Identified after Re-Assessment Studies)**

Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Lower Kopili	Kopili	120	Concurred
<b>1</b>	<b>Sub Total</b>		<b>120</b>	

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

S.No	UTILITY/ STATIONS	NO. OF STATIONS	No. of Units	NO. OF UNITS X CAPACITY (MW)	RIVER/ BASIN*	DISTRICT	CAPACITY (MW)	YEAR OF COMMISSIONING
<b>NEEPCO</b>								
1	KOPILI [Kopili-II]	1	4	(4X50)	KOPILI	DIMA HASAO	200	1988
2	KHONDONG [Kopili-I]	1	2	(2X25)	KOPILI	DIMA HASAO	50	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	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

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

SI No.	Name of Project	Agency	District	River / Basin*	I.C.(MW)	Date of CEA Concurrence	Status
1	Lower Kopili	APGCL	Karbi Anglong & Dima Hasao	Kopili / Brahmaputra	120	24.05.2016	EC accorded on 4.09.2019. FC-I accorded on: 05.02.2019. FC-II: Pending. Catchment Area Treatment Plan is yet to be finalized for FC-II.
<b>1</b>	<b>Total</b>				<b>120</b>		

**4. 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>	

**5. H. E. Projects yet to be allotted by the State for development**

Sl.No.	Name of Project	River	Type	I.C.(MW)
1	Dilli Stor.	Disang	S	33
2	Jamuna Dam P/H	Jamuna	S	28
3	Diyung Dam P/H	Diyung	S	47
4	Langey	Borpani	R	37
5	Amring	Amring	S	40
<b>5</b>	<b>Total</b>	<b>5 Nos. of Projects</b>		<b>185</b>

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

**Status of Large Hydro Power Development in Manipur**

		<b>Nos.</b>	<b>Capacity (MW)</b>
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		15	1761
Large Project Identified after Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		1	66
Projects Identified in this State but developed/being developed in other State #		-1	-210
<b>Total</b>		<b>15</b>	<b>1617</b>
I	Projects in operation	1	105
II	Projects concurred by CEA and yet to be taken up for construction	1	66
III	Projects dropped due to Basin studies/ Other reasons	1	1500
IV	Projects yet to be allotted by the State for development*	12	936

# Tuivai is being developed in Mizoram (presently in concurred stage)

\*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, etc.

**1 (A). Identified Projects during Reassessment study:**

Sl.No.	Name of Project	River	I. C. (MW)
1	Laniye-II	Laniye	27
2	Laniye-I	Laniye	34
3	Khongnem Chakha-II	Barak	90
4	Khongnem Chakha-III	Barak	48
5	Nungnag (Nungnang)	Irang	70
6	Nunglieban (Nungliban)	Leimatek	85
7	Khunou	Leimatek	115
8	Thinghat	Tuivai	41
9	Sinjal	Tuivai	39
10	Bungpuilong	Tuivai	80
11	Tipaimukh	Barak	510
12	Irang	Irang	75
13	Pabaram (Pabaram Stor.)	Barak	232
14	Loktak	Loktak	105
15	Tuivai*	Tuivai	210
<b>15</b>	<b>TOTAL</b>		<b>1761</b>

\*Tuivai is being developed in Mizoram

**1 (B). Additional Projects (Identified after Re-Assessment Studies)**

Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Loktak D/S	Laimatak	66	Concurred
<b>1</b>	<b>Sub Total</b>		<b>66</b>	



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

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

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

Sl No	Name of Project	Agency	River/ Basin	District	I.C. (MW)	Date of concurrence	Status
1	Loktak D/S	LDHCL	Leimatak/ Brahmaputra	Tamenglong	66	4.11.2016 (concurrence meeting date)	EC accorded on 16.01.2013. FC-I accorded on 03.03.2011 & FC-II accorded on 22.12.2014. #
<b>1</b>	<b>Total</b>				<b>66</b>		

# M/s. LDHCL informed the project could not take off due to delay in signing of PPA by State Govt. As per MoU executed between Govt. of Manipur and NHPC Ltd., Govt. of Manipur (GoM) was to purchase entire power from the project. PPA to purchase entire power has been signed on 31.08.2020 between LDHCL and Govt. of Manipur.

Govt. of Manipur vide letter dated 22.09.2020 has conveyed the approval of State Cabinet as decided in its meeting held on 06.08.2020 to arrange a grant of Rs. 400 crore out of which an amount of Rs. 99 crore is to be made available as budgetary support from the Ministry of Power as per its guidelines issued on 08.03.2019.

Further, Govt. of Manipur vide letter dated 09.12.2020 clarified and reaffirmed to arrange a grant of Rs. 400 crore. Further, availability of an amount of Rs. 99 crore is to be made separately available as budgetary support from the Ministry of Power as per its guidelines issued on 08.03.2019

Land acquisition is yet to start awaiting for signing of PPA.

**4. Projects dropped due to Basin studies/ Other reasons:**

Sl. No.	Name of Project	I.C. (MW)	River	Basin	Remarks
1	Tipaimukh	1500	Barak	Brahmaputra	MoEF&CC vide 29.08.2013 has declined diversion of 22777.50 ha to forest land falling in Manipur and vide letter dated 26.09.2013 has rejected diversion of 1551.30 ha of forest land falling in Mizoram for the project. <b>Project likely to be dropped.</b>
<b>1</b>	<b>Total</b>	<b>1500</b>			

**5. H. E. Projects yet to be allotted by the State for development**

Sl.No.	Name of Project	River	Type	I.C.(MW)
1	Laniye-II	Laniye	R	27
2	Laniye-I	Laniye	S	34
3	Khongnem Chakha-II	Barak	S	90
4	Khongnem Chakha-III	Barak	R	48
5	Nungnag (Nungnang)	Irang	S	70
6	Nunglieban (Nungliban)	Leimatek	S	85
7	Khunou	Leimatek	R	115
8	Thinghat	Tuivai	S	41
9	Sinjal	Tuivai	S	39
10	Bungpuilong	Tuivai	S	80
11	Irang	Irang	S	75
12	Pabaram (Pabaram Stor.)	Barak	S	232
<b>12</b>	<b>Total</b>	<b>12 Nos. of Projects</b>		<b>936</b>

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

### Status of Large Hydro Power Development in Meghalaya

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		25	2298
Large Projects Identified after Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		4	412
<b>Total</b>		<b>29</b>	<b>2710</b>
I	Projects in operation	5	322
II	Projects allotted by States for development		
	(i) Projects concurred by CEA and yet to be taken up for construction	1	270
	(ii) Projects under Examination in CEA	1	85
	(iii) Projects under S&I	1	210
	(iv) Projects allotted for development on which S&I is held up/ yet to be taken up	2	620
III	Projects dropped due to Basin studies/ Other reasons	1	210
IV	Projects yet to be allotted by the State for development*	18	1312

\*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, etc.

**1 (A). Identified Projects during Reassessment study**

Sl.No.	Name of Project	River	I. C. (MW)
1	Umlamphang	Umiam	28
2	Kyrdamkulai (Umiam Umtru-III)	Umiam	41
3	Umiam Umtru-IV	Umiam	38
4	Umiam Umtru-V	Umiam	27
5	Umiam Umtru-VI	Umiam	145
6	Simsang Dam P.H.	Someshri	65
7	Kynshi-I (Kynshi-I Stor.)	Kynshi	295
8	Sushen	Myntdu	150
9	Selim	Myntdu	125
10	Umjaut	Umjaut	85
11	Umduna (Umduma)	Umtrew	95
12	Mawhu (Manhu)	Umtru	90
13	Umiew (Mawphu- II) [Nonglyngkien]	Umtru	47
14	Umngi Stage-I (Umngi Storage)	Umngi	35
15	Rangmaw	Umngi	42
16	Nongkolait	Umngi	180
17	Nongnam	Umngi	36
18	Mawpat	Umngi	55
19	Kynshi-II	Umrilang	175
20	Nangmawlar (Nongmawlar)	Kynshi	29
21	Mawsyrpat	Kynshi	45
22	Mawthaba	Kynshi	70
23	Mawblei Storage	Kynshi	100
24	Amagam Storage	Rongdi	35
25	Umanghot (Umngot Stor.)	Umngot	265
<b>25</b>	<b>TOTAL</b>		<b>2298</b>

**1 (B). Additional Projects (Identified after Re-Assessment Studies)**

<b>Sl.No.</b>	<b>Name of Project</b>	<b>River</b>	<b>I.C. (MW)</b>	<b>Status</b>
1	Myntdu St. I	Myntdu	126	In Operation
2	New Umtru	Umtru	40	In Operation
3	Umiam St.I	Umiam	36	In Operation
4	Mytdu Leshka-II	Myntdu	210	S&I
<b>4</b>	<b>Sub Total</b>		<b>412</b>	

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

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

\* All projects are in Brahmaputra Basin

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

Sl No.	Name of Project	Agency	District	River / Basin	I.C. (MW)	Date of CEA Concurrence	Status
1	Kynshi-I [Kynshi-I Stor.]	AKPPL	West Kashi Hills	Kynshi / Brahmaputra	270	31.3.2015	EC: Pending. EIA/EMP studies are under process. FC-I & FC-II: Pending.
<b>1</b>	<b>Total</b>				<b>270</b>		

**4. H.E. Projects Under Examination/Scrutiny in CEA:**

Sl. No.	Name of Project	Agency	I.C. (MW)	Month of receipt
1	Wah Umiam Satge-III (Mawphu Stage-II)	Umiew (Mawphu St.-II)	85	08-08-17
<b>1</b>	<b>Total</b>		<b>85</b>	

**5. Projects dropped due to Basin studies/ Other reasons:**

Sl. No.	Name of Project	Agency	I.C. (MW)	Month of Return
1	Umangot HEP [Umngot Stor.]	MePGCL	210	Jan-18
<b>1</b>	<b>Total</b>		<b>210</b>	

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

Sl. No.	Name of Project	Basin /River	Agency	I.C. (MW)	Date of MOA	Target date of Preparation of DPR
1	Myntdu Leshka st-II	Myntdu	MePGCL	210	20.4.12	Dec-20
<b>1</b>	<b>Total</b>			<b>210</b>		

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

Sl. No.	Name of Project	I. C.(MW)	Agency	Date of Allotment/ MoA	Status
1	Kynshi-II	450	GoMe & Jaiprakash Power Venture Ltd. (JV)	11.12.2007	S&I held up on account of non-finalisation of dam location/height due to deposit of Uranium. I.C. revised to 325 MW. <b>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.</b>
2	Selim	170	MePGCL	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>
<b>2</b>	<b>Total</b>	<b>620</b>			

**8. H. E. Projects yet to be allotted by the State for development**

Sl.No.	Name of Project	River	Type	I.C. (MW)
1	Umlamphang	Umiam	R	28
2	Umiam Umtru-V	Umiam	R	27
3	Umiam Umtru-VI	Umiam	S	145
4	Simsang Dam P.H.	Someshri	S	65
5	Sushen	Myntdu	R	150
6	Umjaut	Umjaut	R	85
7	Umduna (Umduma)	Umtrew	R	95
8	Mawhu (Manhu)	Umtru	R	90
9	Umngi Stage-I (Umngi Storage)	Umngi	S	35
10	Rangmaw	Umngi	R	42
11	Nongkolait	Umngi	R	180
12	Nongnam	Umngi	R	36
13	Mawpat	Umngi	R	55
14	Nangmawlar (Nongmawlar)	Kynshi	R	29
15	Mawsyrpat	Kynshi	R	45
16	Mawthaba	Kynshi	S	70
17	Mawblei Storage	Kynshi	S	100
18	Amagam Storage	Rongdi	S	35
<b>18</b>	<b>Total</b>	<b>18 Nos. of Projects</b>		<b>1312</b>

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



## Status of Large Hydro Power Development in Mizoram

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		7	2131
Large Project Identified after Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		1	460
Projects Identified in other State but developed/being developed in this State #		1	210
<b>Total</b>		<b>9</b>	<b>2801</b>
I	Projects in operation	1	60
II	Projects dropped due to Basin studies/ Other reasons	1	460
III	Projects concurred by CEA and yet to be taken up for construction	1	210
IV	H. E. Projects yet to be allotted by the State for development*	6	2076

\*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, etc.

**1 (A). Identified Projects during reassessment study.**

S. No.	Name of Project	River	I.C. (MW)
1	Lungleng (Lunglang Stor.)	Tyao	690
2	Boinu (Boinu Stor.)	Kaldan	635
3	Mat	Mat	90
4	Tuirial [Sonai]	Sonai	55
5	Deh	Deh	26
6	Bhairabi	Dhaleshwari	90
7	Kaldan (Kaldan Stor.)	Kaldan	545
<b>7</b>	<b>TOTAL</b>		<b>2131</b>

**1 (B). Additional Projects (Identified after Re-Assessment Studies)**

Sl.No.	Name of Project	River	I.C. (MW)	Status
1	Kolodyne St.II	Kolodyne	460	Dropped
<b>1</b>	<b>Sub Total</b>		<b>460</b>	

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

S. No.	Utility/Stations	No. of stns.	No. of units x Capacity (MW)	River / Basin*	District	I.C. (MW)	Year of commissioning
<b>NEEPCO</b>							
1	TUIRIAL [Sonai]	1	(2X30)	TUIRIAL/ BRAHAMPUTRA	KOLASIB	60	2017
<b>1</b>	<b>TOTAL MIZORAM</b>	<b>1</b>				<b>60</b>	

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

Sl No.	Name of Project	Agency	District	River / Basin	I.C. (MW)	Date of CEA Concurrence	Status
1	Tuivai*				210		
<b>1</b>	<b>Total</b>				<b>210</b>		

\*: Tuivai scheme (210 MW) was identified in Manipur during the reassessment study. The scheme was concurred by CEA during 1999. The scheme is yet to be taken up under construction.

**4. H.E. Projects dropped due to Basin studies/ Other reasons**

Sl. No.	Name of Scheme	I.C. (MW)	River	Basin	Remarks
1	Kolodyne St-II	460	Kolodyne	Brahmaputra	Forest proposal submitted to State Govt. on 20.12.2010. <b>The project is likely to be dropped due to high tariff.</b>
<b>1</b>	<b>Total</b>	<b>460</b>			

**5. H. E. Projects yet to be allotted by the State for development**

Sl.No.	Name of Project	River	Type	I.C.(MW)
1	Lungleng (Lunglang Stor.)	Tyao	S	690
2	Boinu (Boinu Stor.)	Kaldan	S	635
3	Kaldan (Kaldan Stor.)	Kaldan	S	545
4	Bhairabi	Dhaleshwari	S	90
5	Mat	Mat	S	90
6	Deh	Deh	S	26
<b>6</b>	<b>Total</b>	<b>6 Nos. of Projects</b>		<b>2076</b>

Note: S- Storage

## Status of Large Hydro Power Development in Nagaland

		Nos.	Capacity (MW)
Identified Large Hydro Power Potential as per Reassessment Study from Hydroelectric Projects (Projects having capacity above 25 MW)		11	1452
<b>I</b>	Capacity in operation	1	75
<b>II</b>	Projects concurred by CEA and yet to be taken up for construction	1	186
<b>III</b>	H. E. Projects yet to be allotted by the State for development*	9	1272

\*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.

**1. Identified Projects during Reassessment study:**

<b>Sl.No.</b>	<b>Name of Project</b>	<b>River</b>	<b>I. C. (MW)</b>
1	Dikhu (Dikhu Lift Dam)	Dikhu	125
2	Yangnyu (Yangnyu Stor.)	Dikhu	135
3	Jhanji storage	Jhanji	75
4	Doyang (Doyang-V)	Doyang	55
5	Dikhu Dam P.H.	Dikhu	470
6	Sakhai-II	Tizu	31
7	Khuzami	Tizu	32
8	Rurrur	Zangki	36
9	Zungki	Zangki	48
10	Laruri	Tizu	80
11	Tizu	Tizu	365
<b>11</b>	<b>TOTAL</b>		<b>1452</b>

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

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

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

Sl No.	Name of Project	Agency	District	River / Basin	I.C. (MW)	Date of CEA Concurrence	Status
1	Dikhu (Dikhu Lift Dam)	NMPPL	Longleng	Dikhu and Yangnyu / Brahamputra	186	31.03.2014	EC yet to be obtained by developer. FC not applicable as forest land is not involved.
<b>1</b>	<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.

**4. H. E. Projects yet to be allotted by the State for development**

Sl.No.	Name of Scheme	River	Type	I.C.(MW)
1	Yangnyu (Yangnyu Stor.)	Dikhu	S	135
2	Jhanji storage	Jhanji	S	75
3	Sakhai-II	Tizu	R	31
4	Khuzami	Tizu	S	32
5	Rurrur	Zangki	S	36
6	Zungki	Zangki	S	48
7	Laruri	Tizu	R	80
8	Tizu	Tizu	S	365
9	Dikhu Dam P.H.	Dikhu	R	470
<b>9</b>	<b>Total</b>	<b>9 Nos. of Projects</b>		<b>1272</b>

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

## Status 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:

<b>Name of Project</b>	<b>Unit</b>	<b>Installed Capacity (MW)</b>	<b>Year of Installation</b>	<b>Phase</b>
Gumti H.E. Project	Unit-I	5.00 MW	1976	Phase I
	Unit-II	5.00 MW	1976	
	Unit-III	5.00 MW	1984	Phase II