

Hydro Electric Schemes concurred/ appraised by Central Electricity Authority and yet to be taken up for construction

S. No	Name of Scheme	State/UT	Sector	Developer	Installed Capacity (MW)	Date of CEA concurrence/ appraisal	Remarks
CATEGORY-I: Pending due to Environment and Forest Clearance issues							
(a) Environment Clearance received and Forest Clearance yet to be obtained							
1.	Teesta St-IV	Sikkim	Central	NHPC	520	13.05.10	EC accorded on 09.01.14. FC-I accorded on 26.02.13. FC-II yet to be obtained.
2.	Tawang St-I	Arunachal Pradesh	Central	NHPC	600	10.10.11	EC accorded on 10.6.11. FC-I & FC-II yet to be obtained. MOP vide letter dated 22.12.2021 indicated that Tawang-I HEP to be pursued by NEEPCO.
3.	Tawang St-II	Arunachal Pradesh	Central	NHPC	800	22.09.11	EC accorded on 10.06.11. MoEF&CC vide letter dated 18.10.2021 accorded extension of validity of EC for 3 years till 09.06.2024. FC-I accorded on 8.01.14. FC-II yet to be obtained. MOP vide letter dated 22.12.2021 indicated that Tawang-II HEP to be pursued by NEEPCO.
4.	Wah-Umiam Stage-III	Meghalaya	Central	NEEPCO	85	26.07.21	EC recommended by EAC on 26.02.2018. FC-I and FC-II yet to be obtained
5.	Thana Plaun	Himachal Pradesh	State	HPPCL	191	07.09.21	EC recommended by EAC subject to condition of Stage-I FC. FC Stage-I accorded by MoEF&CC on 11.01.2024. FC-II yet to be obtained.
6.	Kirthai-II	J&K	JV	CVPL	930	14.06.19	EC recommended by MoEF&CC on 15.04.2021 and FC yet to be obtained by developer. The project was handed over to NHPC vide MoU signed on 03.01.21. The project will be executed by CVPL (A JV of NHPC and JSKPDCL). CEA vide OM dated 29.12.2021 transferred the appraisal of Kirthai-II HEP in the name of M/s. CVPL. CEA vide letter dated 29.08.2022 extended the validity of appraisal upto 13.06.2024.
7.	Sawalkot	J&K	Central	NHPC	1856	18.04.18	EC recommended by EAC in its meeting dated 31.01.2017. Formal letter will be issued after FC-I. FC yet to be obtained.

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							The project was handed over to NHPC vide MoU signed on 03.01.21. Transfer of Appraisal of Sawalkot HE Project from JKSPDC to NHPC and Extension of validity of Appraisal for further 3 years (i.e.beyond 18.04.2021 to 17.04.2024) was granted vide CEA letter dated 25.03.2022.
8.	Dugar	H.P.	Central	NHPC	500	26.04.22	EC recommended by EAC on 06.09.2022. FC yet to be obtained
9.	Heo	Arunachal Pradesh	Central	NEEPCO	240	28.07.15	EC accorded on 10.11.15. FC-I accorded on 27.10.15. FC-II yet to be obtained. Validity of Concurrence to the project expired on 29.07.2020. MOP vide letter dated 22.12.2021 indicated that Heo HEP to be pursued by NEEPCO. MoA signed on 12.08.2023. EC transferred in favour of NEEPCO on 01.01.2024. FC-I transferred in favour of NEEPCO on 31.01.2024
10.	Tato-I	Arunachal Pradesh	Central	NEEPCO	186	28.10.15	EC accorded on 10.11.15. FC-I accorded on 27.10.15. FC-II yet to be obtained. Validity of Concurrence to the project expired on 29.10.2020. MOP vide letter dated 22.12.2021 indicated that Tato-I HEP to be pursued by NEEPCO. MoA signed on 12.08.2023. EC transferred in favour of NEEPCO on 01.01.2024. FC-I transferred in favour of NEEPCO on 31.01.2024
11.	Tato-II	Arunachal Pradesh	Central	NEEPCO	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. MOP vide letter dated 22.12.2021 indicated that Tato-II HEP will be pursued by NEEPCO. MoA signed on 12.08.2023. EC transferred in favour of NEEPCO on 01.01.2024.
12.	Etalin	Arunachal Pradesh	Central	SJVNL	3097	12.07.13	EC recommended by EAC on 31.01.17. Formal letter will be issued after FC-I. FC-I & FC-II yet to be obtained. MOP vide letter dated 22.12.2021 indicated that Etalin

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							HEP to be pursued by SJVNL. MoA signed on 12.08.2023.
13.	Kalai-II	Arunachal Pradesh	Central	THDCIL	1200	27.03.15	EC accorded 20.5.15. Final order will be issued after obtaining FC-I. FC-I and FC-II yet to be obtained. Validity of Concurrence to the project expired on 27.03.2018. MOP vide letter dated 22.12.2021 indicated Kalai-II HEP to be pursued by THDC. The Government of Arunachal Pradesh has entered into a Memorandum of Agreement (MoA) on 30th Dec'2023 with THDC INDIA Limited, to jointly undertake the development of the 1200 MW Kalai-II hydroelectric project. CEA vide letter dated 23.02.2024 accorded for transfer and revalidation of concurrence. Transfer of EC in name of THDC is awaited.
	Sub Total				10905		
(b) Both Environment and Forest Clearance yet to be obtained							
14.	Hirong	Arunachal Pradesh	Central	NEEPCO	500	10.04.13	EC & FC yet to be obtained by developer. Government of Arunachal Pradesh vide letter dated 09.07.201 informed CEA that allotment of Hirong HEP to M/s. JAPL has been withdrawn/ cancelled vide GoAP letter dated 21.04.2021. Further, validity of Concurrence to project expired on 10.04.2016. MOP vide letter dated 22.12.2021 indicated that Hirong HEP to be pursued by NEEPCO. Govt. of Arunachal Pradesh has approved the allotment of Hirong HEP to NEEPCO Ltd. on 13.01.2023. MoA signed on 12.08.2023
15.	Naying	Arunachal Pradesh	Central	NEEPCO	1000	11.09.13	EC & FC yet to be obtained by developer. Government of Arunachal Pradesh vide letter dated 09.07.201 informed CEA that alottment of Naying HEP to M/s. NDSCPL has been withdrawn/ cancelled vide GoAP letter dated

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							27.04.2021. Further, validity of Concurrence to project expired on 11.09.2019. MOP vide letter dated 22.12.2021 indicated that Naying HEP to be pursued by NEEPCO. Govt. of Arunachal Pradesh has approved the allotment of Naying HEP to NEEPCO Ltd. on 13.01.2023. MoA signed on 12.08.2023
16.	Uri-I Stage-II HE Project	Jammu & Kashmir	Central	NHPC	240	16.02.2023	EC & FC yet to be obtained by developer.
17.	Attunli	Arunachal Pradesh	Central	SJVNL	680	02.07.18	Both EC and FC are yet to be obtained. MOP vide letter dated 22.12.2021 indicated that Attunli HEP to be pursued by SJVNL. Validity of Concurrence to the project expired on 02.07.2021. MoA signed on 12.08.2023
18.	Dikhu	Nagaland	Private	NMPPL	186	31.03.14	EC yet to be obtained by developer. FC not applicable as forest land is not involved. CEA vide letter dated 21.09.2023 extended validity of Concurrence upto 31.03.2025
19.	Upper Indravati PSP	Odisha	State	OHPC	600	19.08.2024	EC yet to be obtained by developer.
20.	Bhawali PSP	Maharashtra	Private	JSW	1500	24.09.2024	EC yet to be obtained by developer.
21.	Bhivpuri PSP	Maharashtra	Private	Tata Power	1000	30.09.2024	EC yet to be obtained by developer.
	Sub Total				5706		
<u>(c) Environment and Forest Clearance Subjudice</u>							
22.	Kotlibhel Stage -IA	Uttarakhand	Central	NHPC	195	03.10.06	EC accorded on 09.05.2007. However, NHPC vide email dated 02.04.2021 informed that EC expired in May'2012. FC-I accorded on 13.10.2011 & for FC-II, Compliance Report is awaited from State Govt. However, NHPC vide email dated 02.04.2021 informed that FC-I expired in Oct'2016. NHPC vide Office Order dated 12.04.2021 has closed the Project w.e.f. 01.04.2021 The project is included in the list of 24 projects under review by Hon'ble Supreme Court.

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23.	Kotlibhel Stage-IB	Uttarakhand	Central	NHPC	320	31.10.06	EC accorded earlier on 14.08.07 is withdrawn on 15.09.2010. MoEF&CC declined FC-I on 07.07.11. The project is included in the list of 24 projects under review by Hon'ble Supreme Court.
24.	Alaknanda	Uttarakhand	Private	GMRL	300	08.08.08	EC accorded on 12.3.2008, FC-I accorded on 08.11.2011. FC-II accorded on 09.11.2012. The project is included in the list of 24 projects under review by Hon'ble Supreme Court.
	Sub total				815		
	Total (pending for E&F clearance)				17426		
CATEGORY-II: Environment and Forest Clearance accorded and pending due to other reasons							
25.	Nafra	Arunachal Pradesh	Central	NEEPCO	120	11.02.11	EC accorded on 19.08.2013. FC-I accorded on 12.07.2011 & FC-II accorded on 26.06.2012. MOP vide letter dated 22.12.2021 indicated that Nafre HEP will be pursued by NEEPCO. NEEPCO vide letter dated 10.01.2022 submitted updated hydrology chapter for vetting by CWC. NEEPCO vide letter dated 02.06.2022 (received on 03.06.2022) submitted PPS of Nafra HEP based on updated hydrology with incorporation of e-flow based on BSR for examination and vetting of CEA.Recommendation of HPA division on PPS chapter issued vide HPA letter dated 24.06.2022 for installed capacity of 95 MW. Developer vide letter dated 06.07.2022 has requested CEA to maintain installed capacity of 120 MW citing various reasons. HPA division vide letter dated 07.07.2022 requested developer to carry out commercial viability at 120 MW and submit proposal to CEA . .CEA vide letter dated 12.06.2023 transferred the Concurrence of the project to NEEPCO along with revalidation of the Concurrence upto 31.05.2024.
26.	New Ganderwal	J&K	State	JKSPDC	93	10.06.14	EC restored on 9.10.15. FC accorded on 02.04.2012. Award of contract packages is under progress. PPA signed with State Government. Loan agreement to be signed with finances.

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27.	Turga PSP	West Bengal	State	WBSEDCL	1000	05.10.16	EC accorded on 02.07.2018. FC-I accorded on 12.04.2018. FC-II accorded on 13.10.2022. Award of contract packages is under progress. Concurrence to Turga PSP has been extended for further 2 years i.e. up to 04.10.2024
Total (pending for other reasons)					1213		
CATEGORY-III: MoU/ MoA/ Implementation agreement cancelled/ terminated							
28.	Chhatru	Himachal Pradesh	--	--	126	15.01.15	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 cancelled allotment of Chhatru HEP which was allotted on 28.7.2007 to M/S DCM Shriram Infrastructure limited, and terminated the Pre-Implementation Agreement (PIA) signed on 15.2.2008. Further, validity of Concurrence to project expired on 15.01.2020
29.	Miyar	Himachal Pradesh	-	-	120	07.02.13	EC accorded on 30.07.12. FC-I accorded on 27.07.12. FC-II yet to be obtained. An MoU was signed between Government of Himachal Pradesh and NTPC Ltd. on 25.10.2019 to set-up the hydro project. Validity of Concurrence to the project expired on 07.02.2016.
Subtotal (MoU cancelled)					246		
CATEGORY- IV: Validity of concurrence expired							
30.	Lower Siang	Arunachal Pradesh	Private	JAVL	2700	16.02.10	EC & FC yet to be obtained by developer. Validity of Concurrence to the project expired on 16.02.2019. MoP vide letter dated 22.12.2021 indicated that Lower Siang HEP to be pursued by NHPC
31.	Demwe Lower	Arunachal Pradesh	Private	ADPL	1750	20.11.09	EC accorded on 12.02.10. EC extended till 11.02.2023. FC-I accorded on 01.03.2012 and FC-II accorded on 03.05.2013. As per NGT order dated 24.10.17, NBWL issue to be reconsidered by MoEF&CC.

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							Validity of Concurrence to the project expired on 19.05.2017. MOP vide letter dated 22.12.2021 indicated that Demwe lower HEP to be pursued by THDC.
32.	Talong Londa	Arunachal Pradesh	Private	GMR	225	16.08.13	EC accorded on 07.08.15. FC-I & FC-II yet to be obtained. MOP vide letter dated 22.12.2021 indicated that Talong Londa HEP to be pursued by NEEPCO.
	Subtotal (Concurrence expired)				4675		
	Grand Total				23560		

Note: Ten projects namely **Tipaimukh** (1500 MW) in Manipur, **Kolodyne St-II** (460 MW) in Mizoram and **Gundia** (200 MW) in Karnataka, **Matnar** (60 MW) in Chhatisgarh, **Kotlibhel St-II** (530 MW) & **Pala Maneri** (480 MW) in Uttarakhand, **Chango Yangthang** (180 MW) in Himachal Pradesh **Rupsiyabagar Khasiyabara** (261 MW) in Uttarakhand, **Athirapilly HEP** (163 MW) in Kerala, **Nyamjangchu HEP** (780 MW) in Arunachal Pradesh and **Loktak Downstream** (66 MW) in Manipur are excluded from above list as schemes are dropped or likely to be dropped by Govt. of India. **Jalaput Dam Toe** (18 MW) of OPCL in Orissa is also excluded from the list as being small scheme.

Three projects namely **Siyom HEP** (1000 MW) in Arunachal Pradesh, **Dibbin HEP** (120 MW) in Arunachal Pradesh and **Devsari HEP** (252 MW) in Uttarakhand are excluded from above list as schemes are taken under survey and investigation.

One Project namely **Kynshi-I HEP** (270 MW) in Meghalaya is excluded from above list as schemes are to be revised.

Total capacity of these Hydro Electric Schemes is **6340 MW**.

Abbreviations:

EC : Environment Clearance
FC : Forest Clearance
DPR : Detailed Project Report
BSR : Basin Study Report
EAC : Environment Appraisal Committee
NGT : National Green Tribunal
NBWL : National Board of Wildlife