**Status of Under Execution Hydro Electric Projects (above 25 MW) in the Country**

| Sl. No. | Name of Project  Executing Agency  Date of CEA clearance / Approval  Capacity (MW)  Broad Features  Cost (original/latest)  In Rs. Crores. | State  Comm. Sch. (original/ Now Ant. | Broad Present Status / Critical Area | **Remarks/**  **Critical issues** |
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| A | **Central Sector** |  |  |  |
| 1 | **Parbati-II**  NHPC  11.09.2002 4x200 = 800 MW **Broad Features :**  Dam – 85m High, 109. m long at top, concrete gravity type  HRT- 6m x 31.23km  P.House- Surface  23.5mx 39.7mx 123m.  Turbine- Pelton  Swyd.- 13.8/400 kV  **Cost:**  Original:3919.59  Latest**:** 9897.59  (04/20 PL)  **Contractors**  Civil : Gammon / Valecha  HM : Om Metals  E&M : BHEL | H.P.  2009-10  2024-25  (Jun’24) | **CIVIL WORKS**  **Dam & Intake Structure (83.7m high and 3.7m D-shaped intake structure) -** Completed.  **Head Race Tunnel (6m diameter, 31.545Km long) –**  31454.60 m (99.71%) excavation out of 31545 m completed.  **Total Overt lining:**  28646 m (90.81%) lining out of 31545 m completed.    **Power House (23.5m x 39.7m x 123m size):** Completed.  **Nallah Works -Completed**  **ELECTROMECHANICAL WORKS:**  All units synchronized with grid  **HYDROMECHANICAL WORKS**:  All the major HM works completed. | -Slow progress of HRT excavation due to geological constraints.  -Heavy rainfall since Jul,2023 which has cut off the approach to working fronts in HRT. |
| 2 | TapovanVishnugad NTPC  11.08.2004/Nov, 2006  4x130 = 520 MW  **Broad Features :**  Barrage–5 bays of 12m  HRT- 5.4m x 11.97km  P.House- underground  Turbine- V.Pelton  **Cost:** Original: 2978.48  Latest**:** 7700 (4th qtr 22)  **Agencies:**   * Barrage Package: M/s RPPL * HRT Package: M/s HCC * Powerhouse and Penstock Package: Ms Patel Engineering Ltd. * HM Package: Om Metals * E&M Package: BHEL * Switchyard Package: M/s GE T&D India Ltd. * GT Package: ABB Ltd. | Uttarakhand 2012-13  2025-26  (Dec’25 and subject to restart of works) | Barrage: Excavation Completed and Concreting almost completed.  HRT& Adits: Excavation of 9.69 km(71.29%) out of 13.595 km completed. 6.98 km concrete lining out of 12.09km completed. Intake concreting completed.  PH : Completed.  Desilting Chamber: Concreting under progress. Gate erection completed.  TRT, Pressure shaft, Surge shaft completed.  E&M works: Pit liner erection on all 4 units completed. Turbine housing erection of all 4 units completed.  Unit #1 & 2: Boxed up and other auxiliary mechanical work completed.  Unit #3: Turbine & generator erection completed. Other Auxiliary works in progress.  Unit #4: Turbine and Generator erection is in progress.  Generation transformers, Bus duct, Switchyard & 400 kV cable erection completed.  Muck removal (Flash flood occured on 07 Feb 2021) from all faces almost completed except at SFT.  Automatic Flood Warning System has been commenced.  HRT Intake Adit Portal Approach Road restored | * Work on the project stopped since 05.01.2023 by the district administration due to subsidence in Joshimath area. Hon’ble High Court allowed for some essential works vide order dated 23.05.2023 * Hon’ble High Court to decide to permit the NTPC to carry out further works in project. Next Hearing on 10.11.2023. |
| 3 | **Tehri PSS,**  THDC,  18.7.06  Nov-11 (Revised CCEA)  4x250=1000 MW  **Broad Features :**  Surge Shaft: U/s – 2 nos.  D/s – 2 nos  Power House: U/G  TRT: 2, Dia 9m and Lenghth 1070m & 1160m  Turbine: VF reversible pump turbine  **Cost:** Original: 1657.60 Latest**:**6439.60  ( Oct-22PL)  **Contractors** Turnkey : Alstom, France/ HCC | Uttara khand 2010-11  2024-25  (Sept’24) | * **Works already executed with Tehri Stage-I before award of EPC contract:**Main Dam, 2 Headrace Tunnels, Transformer Hall, Main Cable Gallery of PSP.   **Works being executed under EPC Contract:**   * **Unit-1:** Pre-commissioning activities underway after successful boxing and unit synchronization is targeted by 15.03.2024. * **Unit-2:** Rotor lowered on 22.07.2023. Boxing up is targeted by Nov-23 followed by unit synchronization by 31.03.2024. * **Unit-3:** Stator and Runner have already been lowered in the generator/turbine pit and turbine shaft free completed on 31.10.23. Rotor is targeted to be lowered by Dec’23. Unit synchronization targeted by 31.05.2024. * **Unit-4:** After completing alignment of Bottom Ring with DT cone, backfill concreting is in progress. Stator & Rotor assembly is also in progress in service bay Unit synchronization targeted by 30.06.2024. * **Control Room building:** After installation of Electrical equipment and panels in all floors, pre-commissioning activities are in progress. * **Upstream Surge Shaft- 1 & 2 (145 m each):** Lining of USSS-1 required for commissioning of first two units is scheduled to be completed by Nov’23. USSS-2 likely to be completed by May’24. * **Penstocks & Butterfly Valves for Unit-1 & 2:** 86% liner erection has been completed. Assembly of Butterfly Valve for Unit-1 is also near completion. All works will be completed by Jan’24. * **Down Stream Surge Shaft – 1 & 2 (70.5 m each):** Shaft lining work completed. Erection of fixed wheel gate is scheduled to be completed by mid of Jan’24. * **Tail Race Tunnels- 1 & 2 (2406 m):** Concrete lining near completion and bifurcation concreting will be completed by Dec’23. * **Outlet works including gate lowering:** Concreting work is in advance stage. TRT Gate lowering is targeted by Jan’24. * **River Dredging:** Upstream baffle wall and a significant portion of river dredging have been completed. The balance works are targeted to be completed by Dec’23 in all respect. * All the works required for commissioning of 1st and 2nd Unit are targeted to be completed by Jan’24 except constraint of River Joining. * **Dismantling the flood protection wall and accomplish river joining works:** THDCIL has already requested permission from UP Irrigation Deptt. for the shutdown of Tehri HPP and Koteshwar HEP from 1st Feb-24 for 30 to 45 days during which water shall not be released so as to complete river joining works. |  |
| 4 | **Lata Tapovan,**  NTPC  Aug-2012  3x57= 171 MW  **Broad Features :**  Barrage–14 bays of 11m each  HRT- 7.51 Km, 4.7m dia  P.House- underground  Turbine- V.Francis  **Cost:** Original: 1527.00  Latest: 1801.07  **Contractors**  Civil & HM : L&T E&M : BHEL | Uttara khand 2017-18  2028-29  (Subject to re-start of works) | Infrastructure works are almost completed. Main works to re-start after clearances from Hon‘ble Supreme Court.  EPC contract for Civil & HM works awarded to M/s L&T on  17-08-2012. E&M package awarded to M/s BHEL on 07.12.12.  MoWR vide letter dated 24.01.2019 to MoEF has communicated that only 7 out of 51 Hydro Projects which are under various stages of construction in Uttarakhand has been recommended for implementation. LataTapovan project is not included in the 7 recommended projects.   * Barrage (29 m high)-Not started yet. * Desilting chamber (135 m L x 33m W x 17.5 m H )--Not started yet. * HRT (4.7 m diameter, 7.51 km long)-Not started yet. * Surge Shaft (7 m diameter 144.8 m height)-Not started yet. * Pressure Shaft (3no. 2.0 m diameter 297 m long )-Not started yet. * Power House (85mx 17mx 40.5m )-Not started yet.   On 08.07.2020, Director /Conservator forest NDNP, submitted report to Chief Conservator forest Dehradun for LTHEPP mentioning that as per revised notification, project is out of ESZ boundaries. | Construction work stopped vide Hon’ble Supreme Court order dated 7.5.14.  Clearance from Hon’ble Supreme Court for resumption of works. |
| 5 | **Vishnugad Pipakoti**  THDC  21.08. 2008  4x111= 444 MW  **Broad Features :**  Dam – 65m High, 89.3m long, concrete gravity  HRT- 13.4 Km, 8.8m dia Horse shoe shape  P. House-Underground 127mx 20.3mx 50m  Turbine- Francis  SWYD- 13.8/420 kV  **Cost:**Original: 2491.58  Latest**:**3860.35  (02/2019 PL)  **Contractors**  Civil &HM : HCC E&M : BHEL | Uttara khand 2013-14 2026-27(Jun’26) | **Civil & HM Works:**  River Diversion has been completed.  Construction of U/S Coffer Dam has been completed.   * **Dam excavation:** Around 75% completed. Concreting is targeted to start from Dec’23. Concreting of Inlet structure is in progress. Resistance from local villagers is being faced for dumping. * **De-silting Chambers: 95% excavation and 53% lining work completed in all 3 DCs. Balance work is scheduled** to be completed by Feb’25. * **HRT by DBM (Total 1.5 kms):** Excavation completed. Kerb concreting and overt lining completed in the length of 482 m and 356 m respectively. * **HRT by TBM (12 kms):** Mining of entry adit to HRT through TBM is almost complete (Ch. 580 m). TBM has already entered in the curvature of HRT and excavation of straight portion of HRT will commence within a week. * **Machine Hall:** In Service Bay, after completion of crane beam by end of Nov-23, EoT erection is targeted to be completed by mid of Jan-24. In Unit Area, benching is in progress and Unit-1 pit excavation is targeted by end of Dec’23. * **Transformer Hall:** Excavation near completion. * **TRT:** Around 56% heading excavation has been completed. * **TRT outlet area:** Slope stabilization work has been completed.   **Electro - Mechanical Works**:  47.27% supply of equipment/ material has been completed. | -Financial crunch with the civil contractor  -Intermittent stoppage of works after the Joshimath subsidence issue Jan’23 |
| 6 | **Subansiri Lower**  NHPC  09.09.2003  8x250= 2000 MW  (1000 MW in 12th Plan)  Broad Features :  Dam –116m High, concrete gravity  HRT- 8 x 9.5m x 1145m  Power House- Surface  Turbine- Francis  SWYD- 16/400 kV  Cost:  Original: 6285.33  Latest:19992.43  (04/17 PL)  Contractors  Civil : BGS-SGS-Soma JV  HM : Texmaco  E&M : Alstom | Arunachal Pradesh  Assam  2009-11  2023-26 (May’25) | ➢ Dam (116m high and 284m long):- Cumulative concreting of 99.82 percent achieved.  ➢ Power House (285m x 61m x 64m size):- cumulative qty. achieved 89.61 percent.  ➢ E&M Works- unit-1 boxed up and unit-2 boxing is in process.  ➢ HM Works:  Erection of Diversion Tunnel Gates: Erected.  Radial Gate: Erection in progress.  Fabrication of ferrule and erection work of Penstock Liner is in progress (91.96 percent completed). | Radial Gates erection and Diversion Tunnel plugging are critical activities. |
| 7 | **Teesta-VI**  NHPC  08.3.2019  4x125= 500 MW  **Broad Features:**  Barrage: 26.5m high  HRT- 2nos,27.52km long  Pressure shaft: 4nos. 5.4m dia. 151m to 198m length,  TRT: 4nos 247m each length, 7.5x7.0m D-shapped.  PH- Under ground  Turbine- Francis  **Cost:** Original: 3283.08  Latest : 5748.04  (07/2018 PL)  **Contractors**  Civil : JAL & Gammon  E&M : Alstom | Sikkim  2012-13  2026-27  (Aug’26) | (A) Civil works:  Barrage (31.5 high and 105 m long)  Excavation 7.81 lac cum (98%) out of 8.07 lac cum completed  Concreting 2.64 lac cum (77%) out of 3.44 lac cum completed  Page 2 of 2  HRT (9.8m diameter)  Heading excavation of (16.71) km (60.70%) executed out of total 27.52 km, benching excavation of (5.51) km (20%), Overt Lining of (4.17) km (15.15%), Invert lining of (1.65) km (6%) has been completed.  Desilting Basin  Surface Excavation of approx. 2.53 lac cum (65%) executed out of 3.88 lac cum, concreting of 0.94 lac cum (56%) executed out of 1.71 lac cum.  Surge Shaft/Surge Gallery: Excavation 98 % & concreting 60% completed  Pressure Shaft (2 nos. steel lined 5.4 internal dia.): Excavation 97 % & Backfill concrete 59% completed.  Power House (142m x 18.5m x 52.44m size): Excavation 97 %, concreting 81 % (total qty revised) completed.  MIV Cavern: Excavation of MIV cavern is completed.  Downstream Surge Chamber: Excavation of Adit has been completed; however concrete lining is still to be taken up.  Tail Race Tunnel: Excavation 86%, concrete lining 99.80 % completed.  (B) HM works are in progress (59.92%). Erections of 170 nos. of ferrules out of 342 nos. have been completed.  (C) E & M works are in progress (61.94%). | Poor geology in HRT. |
| 8 | **Rammam-III**  NTPC Hydro Ltd.  10.09.14  3x40 = 120 MW  **Broad Features :**  Run of the River Scheme  **Cost :**Original: 1381.84  Latest : 1592.34  **Contractors**   * Barrage and Part HRT Package: M/s Simplex Infrastructures Ltd & M/s Apex-Encon Project Pvt Ltd (JV))- * Power-House and Part HRT Package: M/s SEW Infra Ltd. –   EM Package: M/S BHEL- | West Bengal  2019-20  2026-27  (Sep’26) | * **Barrage (27m height and 122.5 m length):** - River diversion completed. Excavation of 151061 cum (95%) (out of 1,59,000 cum) and concreting of 38949 cum(32%) (out of 1, 22,750 cum) have been completed. * **De-silting chamber (U/G, 2 nos. each of 140 m length x 7.5 m width x 12.55 m depth):-** Excavation & lining of both De-silting chamber completed, * **SFT excavation: -** Out of 360m of SFT, 78m ( 22%) has been completed. * **HRT (3.5 m diameter, 8.2 km long): -** As of now, 2655 m (32%) HRT have been excavated. * **Adit-2 excavation:** 645m/800m (82%) have been done. Adit-1 completed. * **Intake tunnel, Branch tunnel and Adit-1 to GOC –DC: -** excavation completed. * **Surge Shaft (14.50 m diameter 53.75 m height): -** Surge Shaft excavation & Orifice slab casting is completed. Lining is in progress. * **Pressure Shaft/Penstock ( 1591m long): –**Pressure shaft excavation completed. * **Powerhouse (73.50m x 22.40 m x 41.60 m): -** Out of 1,56,099 cum of excavation, 1,53,417 cum (98%) has been excavated. Concreting also started. * EM Works: -Tower, Beam, AC kiosk, Bus stringing, Equipment structure and main equipment installation completed. Earth mat laying work is under progress completion. * **Switchyard: -**Civil works completed & handed over to EM agency and under progress.   **TRC (657m): -** Excavation & Concreting completed. | * Signing of PPA/ATS: - Clearance for signing of PPA by West Bengal Govt. awaited. * Power Evacuation Line: Power Evacuation line/ ATS also not getting finalized due to pending decision for PPA. * Heavy flood hit the Barrage area on 18.06.2023 and upstream of Barrage and equipment including access road were washed away/damaged   Poor financial condition of existing vendors- Financial Assistance/ Support is being provided by NTPC |
| 9 | **Pakal Dul**  CVPPL  03.10.2006  4x250 = 1000 MW  **Broad Features :**  Dam – 167m High, Width-305m), CFRD,  HRT- 2 nos. 7.2m dia 1000m long  S.Shaft-16m dia  200m Height  P.House- Underground  (157mx20.20mx49m)  TRT- 5.5m dia, 125m long.  **Cost:** Original:8112.12  Latest**:** 8112.12  **Contractors**  Civil : Afcons – JAL – JV L&T,JAL  HM: PES  E&M : Voith Hydro Ltd | J&K  2020-21  2026-27  (Sept’26) | **Civil Works**:   * Dam Package (CFRD 167m high and 305m width).- Access adit to HRT-1 & 2 have been completed of a total of 1714 m and 1786.5 m respectively. * Diversion Tunnel (1 no, diameter 11 m, length 851 m).): River Diversion achieved on 01.11.2021. Construction of upstream and downstream coffer dam is in progress. * HRT-TBM Package (HRT 2Nos., 7.2m dia, 9.6 km long each (7.3 Km through TBM))- All 97 nos. consignments of TBM-1 and 95 nos. consignment of TBM-2 have also been reached at site. Excavation of Adit-1 including false portal of Cumulative length of 104m completed on 31.05.2023. Excavation of Adit-2 has also been started on 10.04.2023 and 98.7m out of 126 m achieved till date.   **HM Works**: - In progress.  **Power House Civil Works** ( PH Cavern 166m (L) x 20.2 m(W) x 50.5 m(H))- Construction of Power House Cavern, MIV cavern Transformer Hall cavern, Valve House, Adit to Pressure Shafts, Surge shaft, TRT and part-HRTs are in progress..   * **E&M Works** - Detailed Engineering of E&M equipment’s including submission/checking of drawings, layout plan and equipment manufacturing/supply/inspection is in progress. Installation of MIV Crane Embedments in MIV Service bay has been completed. Installation of GT rails and embedments in service bay, Connecting Tunnel and Transformer Cavern upto GT-4 (Grid-9) has been completed. Erection of MIV EOT Crane, Erection of Draft Tube of Unit-1 & Unit -2, Erection of draft tube of Unit#3 and #4, Earthmat erection in U#4 have been completed. | * HRT & Dam works are critical. |
| 10 | **Kiru**  CVPPL  13.06.2016  4x156=624 MW  **Broad Features :**  Dam – 135m High, Width-193m), Concrete gravity,  Penstock 4nos., 5.5m dia.  P.House- Underground  (182mx23.6mx51.2m)  TRT- 4 nos., 7.0m dia, 165 to 190m long.  **Cost:** Original:4287.59  Latest**:** 4287.59  **Contractors**  Civil : Patel Engg.  HM: PES Engineers  E&M : Andritz Hydro | J&K  2023-24  2025-26  (Mar’26) | **Civil works** - Construction of Coffer Dam, PH Cavern, TH Cavern, Adit to Pressure Shaft top & bottom is in progress. Dam abutment stripping and dam excavation below river bed is in progress. Dam concreting is in progress. Excavation & benching of Power House, Transformer cavern, Pressure shafts are in progress.  **Diversion Tunnel** (1 no, diameter 9 m, length 666 m): River Diversion achieved on 31.12.2021.  **HM Works**: Detailed Design Engineering/ manufacturing & supply of HM components is in progress.  **Power House Civil Works** (182m (L)x 23.6m(W) x 51.2m(H))– Power House Pilot Excavation (182m) completed on 31.03.22. Benching up to MIV floor i.e., EL 1370.3 m in progress. | * The project is in initial stage of construction. |
| 11 | **Ratle**  Ratle Hydro Electric Project Pvt. Ltd. / NHPC  19.12.2012  4x205+1x30= 850 MW  **Broad Features :**  Dam Height-133m  Length-194.8m  Spillway-Radia Gate-(5)  Size-10.75x1420 m  Diversion Tunnel:2 Nos., Circular (Right back)  Pressure Tunnel:11m dia each.  Pressure Shaft : 6.6 m each steel lined.  P.House-Underground  Turbine- Francis  Average Gross Head-100.39m  Addl. Unit(30MW) Housed in Main P.H. Cavity)  Rated Head-98.9m  **Cost :**  Original: Rs 5281.94 Crore  Latest   Rs. 5281.94 Crore  **Contractors**  Civil & HM : GVK  E&M : Alstom | J&K  2017-18  2026-27 (May’26) | • Improvement / Construction of Roads: - Completed.  • Excavation of Diversion Tunnels / MAT: In progress.  Excavation in Power House Access Tunnels (99%), Power House excavation (35%), dam abutment excavation (58%), TRT excavation (7%), Surge Chamber Cavern excavation (25%). |  |

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| 12 | **Rangit-IV**  Jal Power corp. Ltd. 06.07.2007  3x40= 120 MW  **Broad Features:**  Dam: Concrte 44m high .HRT : D- 6.4m L- 6.5km  Power House : Surface  Turbine: Francis  **Cost:** Original:726.17  Latest : 938.29 (10/19 PL)  **Contractors**  Civil : Ritwik (27.08.2021)  HM : PES (28.06.2021)  E&M : Andritz (08.07.2021) | Sikkim  2011-12  2024-25  (Aug’24) | CIVIL WORKS:  Dam, Intake (including stilling basin):  Excavation 4.53 lac cum (92%) out of 4.92 lac cum completed  Concreting 1.65 lac cum (80%) out of 2.07 lac (qty revised) cum completed  Removal/ clearance of material deposited due to flooding in working area. 0.92 lac cum (46.25%) out of 2.0 lac cum completed.  HRT:  Heading excavation of approx. 5.40 km (83.28%) executed out of total 6.48 km, benching excavation of approx. 5.03 km (77.59%), Overt lining of 1067.50 m (16.45%) has been completed.   Desilting Chamber:  3005.40 m (89.44%) excavation out of 3360 m is completed. 2077.6 m (61.83%) concreting out of 3360 m is completed.  Surge Shaft:  Excavation 100% completed, concreting 82.20% completed.  Pressure Shaft:  Excavation 100.00 % completed, concreting 16.39% completed  Surface Power House:  Excavation 96.88% completed & Concreting 0.288 lac cum (82.29 %) out of 0.35 lac (revised qty.) cum completed.  **ELECROMECHANICAL WORKS:** In progress (44.55%).  **Hydro Mechanical works:**  In progress (23.5% achieved). | -Slow progress of works on account of Covid-19 associated lockdowns and restrictions.  -Poor geology in HRT.  -Methane in HRT |
| 13 | **Luhri Stage-1**  SJVN Ltd.  01.05.2018  2x80+2x25=210 MW  **Broad Features**:  Dam: 86 m high  HRT: 9m dia 38 km length  Power House:Underground  Turbine: Francis  **Cost: Original -1810.56(05/2020)**  **Contractor :**  Civil: Luhri Hydro Power Consortium dt. 24.11.2020  E&M works: Voith Hydro dt. 16.7.2021  Transmission line from Switchyard to Polling station: M/s Kalpatru Power dt. 6.7.2022 | Himachal Pradesh  2025-26  2025-26  (Jan’26) | Investment approval accorded on 20.11.2020.  Civil & Hydro-mechanical Works awarded on 24.11.2020. Electro-mechanical package awarded on 16.07.2021.   * **Dam:** 294323 cum (91%) out of total 322863 cum stripping of right bank and 59,556 cum (82%) out of 72,982 cum left bank completed. River bed excavation of 1,79,951 cum (41%) out of 4,42,067 cum completed * **Power House:** 350479 cum (74%) out of total 4,99,615 cum stripping of power house area completed * **Tail race channel:** 4,42,442 cum (00%) out of total 494207 cum stripping completed.   **E&M Works**: Draft tube liner for unit-1 (Main) and unit-3&4 (Auxiliary) delivered. Manufacturing of DT liners (Main Unit-2 and Auxiliary Unit-4), spiral case & EOT crane is in progress. |  |
| **14** | **Dhaulasidh Hydro Electric Project SJVN Ltd**  **(2x33 MW = 66 MW)**  **Cost:**  Original: Rs. 687.97 Cr  Civil & HM works: M/s Rithwik Projects Pvt. Ltd. dt. 6.5.2021  EM works: M/s Voith Hydro dt. 19.1.2022 | Himachal Pradesh  2025-26  2025-26 (Nov ’25) | Investment approval accorded on 1.10.2020.   * **Dam:** Dam excavation including River Bed excavation completed. Concreting 20,420 cum (7%) out of 3,11,450 cum completed * **Power house excavation:** completed. Concreting started * **Tail Race Channel**: Excavation completed. * **EM Works:**  Fabrication of Draft tube liners for both units completed. DT liners received at site. Spiral case, Stator frames & EOT crane is under manufacturing. * **Transmission Line:** Work was awarded on 14.6.2022 and application for Forest Clearance is in under process. Acquire of private land in progress. | Works hampered in monsoon due to flash flood. |
| **15** | **Kwar Hydro Electric Project, CVPPPL**  **(4x135 MW = 540 MW)**  **Cost:**  Original: Rs. 4526.12 Cr  Civil works: M/s Patel Engg. Limited dtd. 11.05.2022 | UT of J&K  2026-27  (Nov’26) | Mobilization in progress. DT outlet portal development & DT inlet portal development have been completed & further work of tunnel excavation work from DT outlet side and DT inlet side, Excavation of MAT portal & Dam excavation (stripping of dam abutments) are under progress.  • DT Excavation and DT benching completed.  Construction of main approach road (4480 m): Completed.  •Construction of 81m span 70R double lane bridge over River Chenab – completed.  HM works and EM works to be awarded. | The works have recently been awarded. |
| **16** | **Sunni Dam**  **SJVN**  **4x73+1x73+1x17=382 MW**  **Cost:**  Original: Rs. 2614.51 crs (05/21)  Civil & HM works: M/s Rithwik Projects Pvt. Ltd. dt. 14.1.2023  EM works: Yet to be awarded | Himachal Pradesh  2027-28  2027-28  (Mar’28) | Investment approval accorded on 4.1.2023  Major Civil Work and HM works awarded on 14.01.2023.   * Heading of Diversion Tunnel: 476m (93%) out of 510m completed. Benching under progress. * Stripping for dam left abutments started and 10800 cum (9%) out of 1,21,130 cum completed. * Suspension bridge (110m span) under progress. Road from Dam Top to DT Inlet Portal under progress. Approach roads to project components under progress. * Construction power: Work of 22 kV line to damm site through HPSEB Ltd. is in progress. |  |
| **17** | **Dibang HEP, NHPC**  **(12x240=2880MW)**  **Cost: Rs. 31876.39 Cr**  Infrastructure Works: M/s L&T dated 27.02.2023 | Arunachal Pradesh  2031-32  (Feb’32) | The works have recently been awarded.  Mobilization in progress. | - |

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| **B** | State Sector |  | |  | |  |
| **18** | Parnai JKSPDC  21.10.2013  3x12.5= 37.5 MW  **Broad Features:**  Barrage: 107m Long, 11.7m High  HRT: D Shape, 9236m long, 3.2m dia  Surge Shaft: 3.2m Dia  Power House- Surface- 60x12x28  **Cost:** Original: 640.86  Latest 640.86  **Contractors**  Civil : Patel & Alstom  E&M : Andritz | UT of J&K  2017-18  2024-25  (Mar,25) | | | The implementation of the project has been undertaken by awarding the EPC contract in favour of M/s. Patel Engg. Ltd. in 2013.   * **Barrage (107m long, 11.7m high and 7m wide concrete structure):-** Excavation completed.35354 cum out of 39446 cum concreting has been completed. * **HRT (D-shaped, 3.2m diameter, 9.156km long):-** 6311 **m** out of 9236 m excavation completed. 369 **m** out of 9236 m lining completed. * **Surge Shaft ( 3.2m dia):-** * **Pressure shaft ( 1 no., 2m dia, 1733m long ) :-** Excavation 18861 cum out of total 34560 cum completed. 1526 cum out of 7497 cum concreting has been completed. * **Power House (Surface 60x12x28m ):-**Excavation 62081 cum out of total 60000 cum completed . | * Slow progress of works * Contractual Issues. |
| 19 | Lower Kalnai JKSPDC  16.08.2013  2x24= 48 MW  **Broad Features:**  Dam: 110m Span, 49m High  HRT: D Shape, 3960m long, 4m dia  Surge Shaft: 14m Dia  Power House- 55x23.45x32.4  **Cost:** Original: 576.87  Latest 576.87  **Contractors**  Civil : Coastal  E&M : GE | UT of J&K  2017-18  2026-27  (Subject to re-start of works) | | | EPC contract awarded to M/s. CPL in Sept., 2013.  Diversion tunnel has been completed and river diversion made on 30.11.2016.  Work on coffer dams has been started  **Dam:-** Excavation work completed for right abutment of the dam bridge. Excavation of left abutment completed upto 50%.  **HRT:-**Adit excavation is in progress.  .  '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 .The contract with M/s. Coastal Projects Ltd. has been terminated and The Balance Work stands tendered out by JKSPDC in EPC mode vide E-NIT No 01 on 24-03-2022. | * Project stalled * Re-award of works |
| 20 | Shahpurkandi Irrigation Deptt. &PSPCL  04.05.2011  3x33+3x33+1x8=206  MW  **Cost:** Original: 1835.50  Latest 2368.55  (Power Component)  **Contractors**  Civil & HM for Main Dam with two Head Regulators : Soma – BUREYA JV  Power Houses : M/s OMIL JV  E&M : BHEL | Punjab  2015-16  2025-26  (Oct’25) | | **Main Dam:** Overall 95% work of Main Dam portion has been completed.  **Hydel Channel:** Almost 95% works has been completed.  Power House: Excavation completed. Concreting started and 28% completed.  E&M: Initial stage of procurement of equipment.  Draft tube liner works for two units completed. | | Delay in E&M works is critical for schedule commissioning. |
| 21 | Uhl-III Beas Valley Power Corporation Ltd. (HPSEB)  19.09.02 /  (TEC -2x50 MW)  3x33.3 =100 MW  (Revised vide HPSEB letter dt. 19.01.07.  **Broad Features:**  HRT-4.15m x 8.47 km  S.Shaft- 13m x 68.8m  Penstock- 3.4m x 1851.946 m (main)  P.House- Surface  Turbine- V. Francis  **Cost:** Original: 431.56  Latest**:**1281.52  **Contractors**  Civil : Continental / Abir HM : PES  E&M : BHEL | H.P. 2006-07  2024-25  (Dec’24) | | All works completed in July, 2018. During Hydro Static pressure Test (HST) of Penstock, some leakage was observed. Repair of penstock & HST completed by March, 2020.  On 17.05.2020 after Trial run of Unit-1, during synchronisation to grid transmission load rejection was done but the penstock ruptured along penstock ferrule # 345 which is about 110m upstream of surface power house. The restoration of the Penstock **works awarded to M/S P&R Infraprojects Pvt Ltd on November 06, 2021. The work of dismantling of ruptured penstock almost completed and design of penstock rehabilitation work has been approved by GM (D).**  plates is under transportation stage.  Fabrication of Steel Ferrules and erection is under process. | |  |
| 22 | Shongtong Karcham H.P. Power Corpn. Ltd.  Clearance: 16.08.2012  3x150= 450 MW  **Broad Features:**  Intake Tunnel: 4 Nos. Horse shoe 6.4m dia 192 to 280m length  HRT- Circular, 10.5m dia, 8096m long.  Power House- Under ground  Turbine- VF.  Switchyard: 400 Kv.  **Cost:** Original: 2807.83  Latest**:**2807.83  **Contractors**  Civil & HM : Patel  E&M : Andritz | H.P. 2016-17  2026-27  (Nov’26) | | | * **Barrage (95.40m long at top):-**Downstream Coffer Dam completed. Upstream Coffer Dam 84% completed. * **Barrage Work:-** 53% of excavation completed. Concreting, 3.13% completed. * **Power Intake:**- 29.79% Excavation completed. * **Desilting chamber (4 nos. each of 260 m length x 17m width x 22.80 m depth):-**Excavation of Desilting chambers 74% completed. * **Silt Flushing Tunnel (SFT) i/c branches:-**Excavation of SFT works 42.4% completed. * **HRT (10.5m diameter, 7.7125 km long):-**Heading excavation 97% completed. Benching excavation 71.85% completed. * **Surge Shaft (30.6m diameter 98.5m height):-**Excavation-82.25% completed * **Pressure Shaft (3nos. 5.0m diameter, Length I&III = 230m, II = 220m):-**Excavation of PAC 100% completed. Excavation i.r.o. Pressure shaft & BVC works, 65% completed. * **Power House (131.15m (L) x 23m (W) x 44.29m (H)):-**100% excavation of Powerhouse Cavern, 100% excavation of Transformer hall completed. 2nd EOT Crane in machine hall installed. Installation of draft tubes in Unit-I & II completed. Draft tube installation in Unit-III is in progress. * **TRT( including adit, Main TRT, Unit TRTs & manifold):** Excavation 73.19% completed. * **E&M Works:-**Supply 63.9% completed. Erection of E&M works, 8.27% completed. Overall E&M works 58.34% completed * **Draft Tube:-**50.83% excavation completed | Dam is critical due to change in design and approval of same. |
| 23 | **Koyna Left Bank PSS**  WRD, Mah.  20.02.2004  2x40 = 80 MW  **Broad Features:**  Water from the existing ShivajiSagar Lake  (Koyna reservoir)  is to be utilized for generation.  Intake Tunnel: Dia – 7.20 M  Length – 235.5 M  (including Lake tap)  HRT: Dia – 7.20 M  Length – 80 M  Penstock – 2 nos ,Dia – 2.9M  Length – 10 M each  P.House – Underground  Turbine – Reversible  **Cost:** Original: 245.02  Latest**:**1403.77  **Contractors**  Civil &HM : BT Patil – Malaxmi JV / Patel  E&M : LitostrojSlovania&Koncar, Croatia | Maharashtra  2014-15  2027-28  (Subject to re-start of works) | | **Civil Works:**  Excavation of intake structure 4781 cum out of 14105 cum and lining 2485 cum out of 3381 cum completed.  Excavation of Switchyard completed. Excavation of Approach tunnel & Ventilation tunnel is in progress.  **Tail surge shaft :**Excavation in soft strata completed. Excavation for inclined / vertical / lateral shafts in hard rock 6448 / 9223 cum completed.  **TRT** : 364 / 24003 cum excavation completed.  **Machine Hall :** Underground Excavation is under progress. 31500 cum excavation out of 55050 cum completed.  **E&M works:**  The contract for details engineering manufacturing supply, supervision erection, testing and commissioning of pump turbine, generator motor and associated equipment is signed with M/s IVRCL Ltd., Pune on 16.12.2010. Further TG set has been ordered as under:  Turbine/Pump: M/s Litosroj Power, Slovenia (European Union)  Generator/Motor: M/s Koncar Power, Plant & Electric Traction Engineering, Croatia (European Union).  EOT Crane :- Works awarded to M/s Pedvak Cranes Private Limited Hyderabad on 12.04.2013.  Tail surge shaft: Excavation for inclined/vertical/lateral shafts in hard rock 6448 cum out of 9223 completed. Excavation in soft strata completed. | | 'Project stalled since July, 2015. The current expenditure on the project has already reached to almost original administrative approved cost level. The proposal for execution with various options (By WRD/ Through BOT/ By MSPGCL in collaboration with WRD) is under process. |
| 24 | **Polavaram**  APGENCO / Irrigation Deptt., A.P.  21.07.2010/ 25.02.2009  12x80= 960 MW  **Broad Features:**  ECRF Dam- L-2454 m, H-57.9m,  Spillway- L-1128m,  Spill gate -48 Nos.  Approach channel-175m.  Intake tunnel: Ø 9m, L-130m (12 Nos)  Power House- Surface type,  Turbine- Vertical Kaplan  Tail Race Channel- 1130m.  **Cost:**  Original: 4956.39  Latest**:**5338.95  (Power Component)  **Contractors**  Civil :Navyug contract terminated and awarded to M/s Megha Engineering and Infrastructure Ltd. (MEIL) (EPC contractor)  E&M : BHEL | Andhra Pradesh  2017-18  2024-26  (Mar’26**)** | **Pressure Tunnels (1 to 12) :**  **Erection:** Completed – 170 Nos., Balance- 118 Nos. **Concreting:** Completed **–** 165 Nos**.,** Balance -123 Nos.  **U/s Transition :** Completed – 206Cum , Balance -2594 Cum  **D/s Transition:** Completed – 4954 Cum, Balance -9046 Cum    **Power House area – Concreting work:**  Completed: 89870.5 Cum, Balance: 96889.5Cum.  **Overall Physical progress:**  **18%**  **Overall financial progress:**  **21.27%**  . | | |  |
| 25 | **Lower Sileru extension**  APGENCO  2x115 = 230 MW  24.08.2020  **Contractors**  **M/s SSEL-PES Consortium**  **Cost:**  Original: 571 (2020-21)  Latest**:** 571 (2020-21) | Andhra Pradesh  2025-26  (Mar’26) | Project is in initial stage of construction | | |  |
| 26 | **Pallivasal**  KSEB  2x30= 60 MW  31.01.2007  **Broad Features:**  HRT: 3.50m X 3396m  Surge Shaft: 7.0m X 49m  Pressure Shaft: 2.50m X 1019.20m  Penstock: 2.nos., 1161.20m each.  Power House: Surface  Turbine: Pelton  S. Yard: 220kV – Single bus  **Cost:** Original: 222.00  Latest: 550.00  **Contractors**  Single Package (Except Intake & balance Tunneling works)  ESSAR – DEC – CPPL JV  -M/s Bumi-Zillion JV  (for Intake works & balance Tunneling works)  -M/s Anchor structure-PSE-SSIPCJV, M/s. Shri Sarvasana Industries Pvt. Ltd. | Kerala 2010-11  2023-24  (Mar’24) | | Contract for Civil &HM works has been terminated w.e.f. 13.09.18. Balance work has been re-tendered on the risk & cost of Contract, Subsequently balance works have been awarded to M/s. Sri Sarvasna Industries Pvt. Ltd. and M/s. DSE Anchor Structure.  **Civil Works**: 98.04% completed.  **HM Works**: 98.80% completed.  **E&M Works**: 71.57% completed.  **Intake structure**: Intake structure completed including gate erection. Leading channel of Water conductor system replaced by cut & cover/soil accordingly intake is shifted.  **HRT**: Excavation 3347m/3347m completed. **Overt conc:** 3347m/3347m completed.  **Invert conc**. 3347m/3347m completed.  **Surge Tank/Forebay** : Excavation completed. Conc.843/843 cum.  **Pressure Shaft**: Excavation - Completed. fabrication of steel Liner completed and erection of 1096/1906 m completed.  **Surface penstock**: Excavation 122500/122600 cum. Concreting- 12850/12850 cum.  **Fabrication of ferrule** completed, Erection completed.  **Power House**: Excavation and Concreting completed.  **Tail race Channel (2 Nos.):** Excavation & lining completed.  **The overall progress achieved: - 96.03%.**  **The overall financial progress achieved:- 94%.** | |  |
| 27 | **Thottiyar**  KSEB  1x30 + 1x10= 40 MW  05.06.2008  **Broad Features:**  Weir: 222m Long 11 blocks 7.5m height  Tunnel: Circular 2.6m dia 199m long.  Power House: Surface  Turbine : Vertical Pelton  **Cost:** Original: 136.79  Latest**:**  280  **Contractors**  Civil & HM : PRIL- Sri Sarvana Industries | Kerala2012-13 2023-24  (Mar’24) | | Original contract for Civil & HM works foreclosed without risk & cost of Contractor M/s. Coastal Project Ltd.  -Civil & HM works re-awarded to M/s PRIL-Sri Sarvana Industries Pvt. Ltd. on 05.01.2018.  KSEB decided to execute E&M works departmentally & tendering was awarded to M/s Fitwell.  **Civil Works**:  **Weir:** Excavation – 44.13% completed, Concreting – 77.90% completed.  **Approach Channel & Intake**: 100% works completed.  **Tunnel** – 100% works completed.  **Penstock, Anchors, Rocker support:** Excavation – 87.24% completed, concreting -76.6% completed, Fabrication and erection of penstock 100% completed.  **Power house , switch yard and allied works:** Excavation **–** 95.47%, Concreting – 67.54% completed.  **Bridge** – 100% works completed.  **E&M works**- Erection of switchyard structures completed. 78% progress achieved.  **Physical Progress 96%**  **Financial Progress 84%** | |  |
| 28 | **Mankulam**  KSEB  2 X 20 = 40 MW  03.03.2022  **Broad features:**  Dam: Concrete, straight gravity  HRT:3.6mX2473m  Surge shaft:  Dia- 8m , top level of surge – 719.11m  Pressure shaft: 1 no.  Dia- 3m, Area – 7.07m2, Length – 398m  Penstock: 2 Nos. 30m x2.3m  Turbine: Pelton  Max. gross head: 323.43m  Cost: 600Cr. (2016)  Contractors CIVIL & HM:  M/s. PES Engineers Private Limited - M/s KSR Infracon Private Limited, Joint Venture (PES-KSR JV | Kerala **2026-27**  **(May’26)** | | **Civil Works** : 6.75%completed.  **HM Works**: Not yet started.  **E&M Works**: Not yet tendered.  **Intake structure**: Leading channel of Water conductor system excavated.  **HRT**: Excavation -850 m completed. ,  **Surge Tank/Forebay**: Erection of Gantry crane progressing.  **Pressure Shaft**: Excavation -511.6m.  **Power House**: Excavation progressing  **Bridge and road**: Bridge completed and opened for traffic.  **Dam**: Block 7&8 Rock excavation is progressing.  Overall Physical progress: 6.75%  Overall Financial progress: 6.48% | |  |
| 29 | **Kundah Pumped storage (Phase-I, Phase-II & Phase-III)**  TANGEDCO  4x125= 500 MW  **Broad Features:**  HRT: Ø 8.5mX1247.33m.  Surge Shaft: Ø (28m/16m/10m) x68m depth.  Pressure Shaft: 2 Nos. Ø 5.50m X 463.38 m (each)  Penstock: 4.nos. Ø 3.9m x45.4m each.  Power House: Under Ground.  Tail race surge chamber: 10m(W);52m(L):48m(H)  Tail Race Tunnel:  Ø 8.5mx895m  Turbine: Francis reversible turbine.  **Cost:** Original: 1216.59  **Revised: 3401**  EPC cost: Rs. 2424.09 crore (capital cost under revision by TANGEDCO)  **Contractors**  Civil &HM : Patel / Kundah PSP  E&M: MEIL | Tamil Nadu2022-23 2024-25  (Oct’24) | | Civil & H&M Works: - Phase-I, Package I & II (Civil and HM works), LOI issued for package - I to M/s Patel engineering, and for package - II M/s Kundah PSP Consortium on 15.02.2018. The site was handed over on 05.03.2018. Electro-Mechanical works was awarded to M/s Megha Engg. & Infrastructure Ltd. on 28.11.2019  **HRT (1295m):** Heading and Benching almost completed and Kerb Wall Concrete under progress. HRT intake excavation completed & concrete works under progress.  **Pressure Shaft**: : Excavation of Lower Horizontal Portion of Pressure Shafts PS1 & PS2 Completed. Pilot tunnel excavation in Inclined portion completed and shaft widening is under progress..  **Head race Surge Shaft:** excavation completed.  **Tail Race Surge Chamber:** excavation completed  **Power House**: Civil works almost completed**. Transformer Cavern: :** excavation is completed and Concrete under progress  **TRT:** Mining completed and Concrete lining under progress. Lower intake works under progress.  **E&M Works**: - procurement of materials/ equipment started at site. Draft tube erection is in progress and completed for three units. EOT crane erected. Earth Mat works completed. Most of the equipment received at site. | | . |
| 30 | Lower Kopli APGCL  2x55+2x2.5+1x5= 120 MW  **Broad Features:**  Dam: Conc. Gravity  HRT- Circular, 7m dia, 3.64Km long.  Power House- Surface  Turbine- VF.  Switchyard: 220 Kv.  **Cost:** Original:1115.91  Latest**:**1795  **Contractors**  Civil : L&T | Assam 2023-24  2024-25  (Mar’25) | | At present detailed survey work, geotechnical investigation work etc. are being carried out by M/s L&T. Civil work preliminary survey and geo technical investigations going on at site .  Overall Physical progress – 54.08%  Overall financial progress – 54.74%  HM work – not yet started  E&M works – contract awarded to M/S Andritz Hydro Pvt. Ltd on 09.09.21 | |  |
| 31 | Chanju-III H.P. Power Corpn. Ltd.  Clearance: 14.07.2015  3x16= 48 MW  **Broad Features:**  HRT- D shape, 5090m long.  Power House- Under ground  Turbine- Vertical shaft Pelton  **Cost:** Original: 418.57  Latest**:** 418.57  **Contractors**  **Civil & HM** :   |  | | --- | | MFB- ACNC (JV) |  E&M : | H.P. 2027-28  2027-28  (Jun’27) | | * **Mobilization by Civil Contractor in respect of Package-I & II:-**   Adit-1 of HRT –Excavation completed(136 m).  Temporary Jhula (Ropeway) is under installation to start the excavation of HRT from Adit-1.  **Main Access Tunnel(205m): -** MAT Portal excavation has been completed. Under ground excavation of MAT has been carried out up to 30m through local contractor. Now work is to be carried out by main contractor.  **E&M WORKS:**  Technical bids were opened on 22.07.2023 & evaluation of technical bids are under process. | |  |
| 32 | Lakhwar Multipurpose Project (UJVNL) Clearance: 23.12.2021  3x100= 300 MW  **Cost:** Original: 5747.17.  Latest: 5747.17 | Uttara khand 2028-29  2028-29 (Oct’28) | | Letter of Acceptance (LOA) has been issued to M/s L&T Limited for the work of “Balance civil works for Construction of 204m high concrete gravity dam, Intake, (3X100 MW) capacity underground Power House and appurtenant works on river Yamuna of Lakhwar Multipurpose Project in District- Dehradun/Tehri Garhwal (Uttarakhand)” on 01.02.2023. | |  |
| C | **Private Sector** |  | |  | |  |
| 33 | **Tangnu Romai-I**  M/s Tangnu Romai Power generation  2x22= 44 MW  30.11.2007 (TEC by HPSEB)  **Broad Features:**  Barrage at EL + 2555 m  HRT-3.1m dia& 7.220 km length  Surge Shaft- 5m dia, Top Level 2570 m & Bottom Level 2520 m  Penstock- 2 m dia& 609.3 m length  P.House- Surface  Turbine – Vertical Francis  **Cost:**  Original**:**255.00  Latest**:**641.89  **Contractors**  Civil & HM : Sai Urja  E&M : Andritz | H.P.  2014-15  2027-28  (Subject to re-start of works) | | Civil works awarded on 14.06.2010 to M/s Sai Urja Hydel Project (P) Ltd.  **Barrage and Diversion Cannel:** 26211 cum out of 93800 cum excavation completed.  **Desilting Chambers & SFTPC:** Excavation completed. SFT excavation 420 / 450.66 m completed.  **HRT**: 2826m out of 6300m excavation completed.  **Power House**, **Switchyard & Misc.**: 60275 m3 out of 72000 m3 excavation completed.  In February-2015, due to land slide the steel bridge on Pabbar River, connecting Project components has been completely damaged. The restoration works are completed. | | * Works are stalled since Jan, 2015 due to finance issues.   Developer has earlier initiated the sale of project and in the process of negotiating with potential buyers to enable the project implementation.  The company is presently engaged in discussion to complete the settlements with the Lenders consortium of Banks and after settlement the project activities are expected to start by March/April 2023 |
| 34 | **Tidong-I**  M/s Statkraft India Pvt. Ltd.  3x50 = 150 MW  28.07.2006  **Broad Features:**  HRT–D-3.5m L- 8461 m  P.H. Surface  Turbine –Vertical Pelton  **Cost:** Original 543.15  Latest 1850  **Contractors**  Civil &HM : SCL Infratech / Himalaya  E&M : Alstom | H.P.  2021-22( New Developer)  2024-25  (June’24) | | **River Diversion Works:** Excavation completed and 32144/37159 cum concreting completed.  **Head Works**: Head works for the project are nearing completion.  **HRT (8409m):** HRT Excavation completed. 8356/8409 m lining completed.  **Surge Shaft:** Surge shaft Excavation completed & Lining (10 m) out of 89m completed.  **Pressure Shaft**: Pressure Shaft excavation completed (1.4 km). 471.77m out of 1388m lining has been completed.  **Powerhouse (Surface) & Tail-race Channel (4 m wide open channel, 50 m long):**  Power House external building construction completed. Overall, 98% Power House civil works has been completed.  **E&M Works:** 100 MW, 100% works completed. 50 MW, 55% completed.  T Line – 57% completed**.**  Overall physical progress achieved is **91%**.  M/s Statkraft India Pvt Ltd has acquired the 100% equity of the project on 04.09.2018 | | * Pressure shaft &Transmission Line critical. |
| 35 | **Kutehr**  M/s JSW Energy (Kutehr) Ltd.  3x80 = 240 MW  31.08.2010  **Broad Features:**  **Cost:** Original: 1798.13  Latest : 2879  **Contractors**  Civil &HM : M/s Angelique – PCC consortium, M/s MF BumiGeotech Pvt. Ltd. & M/s. PES Engineers Pvt. Ltd.  E&M : M/s Andritz Hydro Pvt Ltd. | H.P.  2024-25  2025-26  (Nov’25) | | Civil works, HM works and E&M works awarded on 20.10.2019, 19.09.2019 and 13.02.2020 respectively. River diversion achieved on 25.01.2020.  **Barrage (27m high):** Barrage excavation 70296.85 cum completed out of 75000 cum.  **HRT:** Face-I (44m) excavation completed on 18.03.2020.  Face-II Excavation completed to thr tune of 1966.30m out of its length of 1998.5m.  Physical Progress 70.7%  Financial Progress 65.99% | |  |
| 36 | Phata Byung M/s Lanco  06.10.2008  2x38 MW = 76 MW  Broad Features:  Dam – 26m high  HRT- 3.2 m dia&  9.38 km length  Turbine – Frances  **Cost:** Original: 520.00  Latest : 1132  **Contractors**  Civil : Lanco  HM : Cimmco  E&M : Alstom | Uttara khand  2012-13  2025-26  (Subject to re-start of works) | | **Dam concreting:** 17800/18000 cum concreting completed.  **P.H.:** Excavation completed & Concreting in progress.  **HRT:** Excavation almost completed. 1400 m Lining has been completed.  Excavation and lining of Intake-I & Intake-II completed.  **Pressure shaft:** Excavation completed & lining is under progress.  **TR**T: Excacation 178/235m completed.  **E&M Works**: Pit liner erection of units completed. EOT Crane installed and Commissioned.  Ferrule Fabrication work is in progress.  Work progress is stalled since July’17 on account of main EPC contractor and holding Company M/s LancoInfratech Limited (LITL) being referred to NCLT under the Corporate Insolvency Resolution Process (CIRP) and subsequently, the initiation of liquidation proceeding as per NCLT Liquidation order in August 2018. However, the preservation works of Project are being carried out regularly at site by the Company, LancoMandakini Hydro Energy Private Limited (LMHEPL).  Presently, 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. | | * Works severely affected due to flash floods in June, 2013. * Works stalled since July, 2017 due to Financial crunch with the contractor / developer. The company is undergoing a corporate insolvency resolution process initiated under IBC for resolution and revival of the project since June 2020. Under this process, the resolution professional appointed by the NCLT initiated the process for inviting prospective investors for the project. On 25.02.2022, the CoC approved the Final Statkraft IH Holding AS Resolution Plan by a majority of 100%. The Resolution Professional has filed for approval of the resolution Plan Application before the Hon’ble NCLT. The Allahabad bench of the National Company Law Tribunal approved the resolution. According to the resolution plan, Statkraft will pay a total of ₹180 crore including ₹149.61 crore to secured financial creditors within 90 days of approval of the resolution plan and ₹27.8 crore towards meeting the payment for costs of the corporate insolvency resolution proceedings. * Hon’ble NCLT bench has approved the Resolution plan of Statkraft IH Holding as on 23.03.2023. |
| 37 | **Maheshwar,**  SMHPCL  30 12 96/ 29.9.2006 (FC)  10x40= 400 MW  **Broad Features:**  Dam-35m High, concrete gravity  P.Shaft-10x7.82m x 52m  P.House - Surface  Turbine- Kaplan  **Cost:**  Original: 1569.27  Latest**:** 8121.00  **Contractors**  Civil & HM : Sew  E&M : BHEL | M. P.  2001-02  2027-28  (Subject to re-start of works) | | **Civil & HM Works:**  All major civil works completed. All 27 nos radial gates commissioned.  **Unit Erection:**  Unit-10: Initial spinning achieved on 14.10.2011.  Unit-9 & 8: Ready for spinning.  Unit-7: Guide apparatus trial assembly in progress.  Unit-6: Erection of turbine embedded parts & foundation parts completed.  Unit-5 to 1: Erection of units is in initial stages.  **Works suspended since Nov-11 due to cash flow problem with developer.**  **M.P. Power Management Company Ltd. has terminated the Power Purchase Agreement, R&R Agreement & Escrow Agreement with SMHPCL on 18.04.2020 &20.04.2020respectively .** | | Works suspended since Nov-11 due to cash flow problem with developer. M.P. Power Management Company Ltd. has terminated the Power Purchase Agreement with SMHPCL on 18.04.2020. The application of PFC has been admitted in NCLT on 27.09.2022 under IBC CIRP has been put on hold by NCLT vide order dated 17.03.2023 in an application filed by Entegra Ltd. PFC has filed an Appeal before the NCLAT against the NCLT Order dated 17.03.2023 for recommencement of CIRP. |
| 38 | **Bhasmey**  Gati Infrastructure  2x25.5= 51 MW  **Broad Features :**  Dam-33.2m High,  Symmetrical gravity  HRT-5.3m dia&5.132 km length , Circular.  Surge Shaft- 89.8m Hight& 14m dia.  P.House-Outdoor  Turbine-VF  TRT-2 Nos, L- 50m  Swityard-132/11 KV  **Cost :**Original : 408.50  Latest  :746.01  **Contractors**  Civil : Simplex  E&M : Voith | Sikkim  2012-13  2027-28  (Subject to re-start of works) | | Project is in initial stage of construction. River diversion achieved.  **Barrage:** 61555cum/194600cumexcavation completed.  **HRT:** 1670m/4460m excavation completed.  **PH:** 136105 cum/185937cum excavation completed.  **Surge Shaft** : 8567cum / 22000cum Surface excavation completed.  Overall Physical progress: 38% . | | - Slow progress of works  - Works stalled since Sept., 2016 due to paucity of funds.  -No investor showing interest for executing the project. |
| 39 | **Rangit-II**  Sikkim Hydro Power Limited  10.02.2010  2x33= 66 MW  **Broad Features :**  Dam-47m High,  Concrete Gravity  HRT-3.9m dia&4.745 km length ,  Surge Shaft- 65.5m High & 10m dia.  Underground Pressure Shaft : 1.7 m dia& 2.5 km length.  P.House-Outdoor  Turbine- Pelton Vertical  Swityard- GIS, 132/11KV  **Cost :**Original : 496.44  Latest  : 496.44  **Contractors**  Civil &HM : Coastal  E&M : Gammon | Sikkim  2015-16  2027-28  (Subject to re-start of works) | | EPC contract awarded to M/s Coastal in February, 2012. **Diversion Tunnel:** River diversion through diversion tunnel has been achieved.  **Dam :**Excavation 53100cum out of 85000cum completed.  **HRT:** Excavation 623m out of 4745m completed.  **Surge Shaft:** Excavation completed. Concreting 37/1667 cum done.  **Pressure shaft**: Excavation of pressure shaft I - 25m out of 128m and pressure shaft II - 154m out of 377m completed  **Power House:** Excavation of surface power house is being taken up.  Overall Physical progress: 40% . | | Works are stalled due to non releasing of funds by lenders because of Power evacuation and land acquisition issues.  Works restarted. A meeting with financers were held on 23.09.2016 for release of funds. The developer was asked to submit certain document for release of funds.  Works are stalled since December, 2017 due to funds constraints with developer.  Project is in NCLT since 30.07.2020. |
| 40 | **Panan**  Himagiri Hydro Energy Pvt. Ltd.  07.03.2011  4x75= 300 MW  **Broad Features :**  Dam-115m from deepest foundation level  Desilting Chambers : Underground, 2  Size (14Lx22Wx2.5H)  HRT- modified horse shoe, 6 m dia& 9549m length ,  Surge Shaft- 102 m High & 15m dia.  Pressure Shaft : 2/4, 3.4/2.4m dia,  707.4 m- Long  P.House-Surface  Turbine-Vertical Francis  **Cost :**Original: 1833.05  Latest  :2675.00  **Contractors**  Civil : Essar | Sikkim  2018-19  2028-29  (Subject to re- start of works) | | Civil works awarded on 22.02.2014. Infrastructural works and geological investigations are in progress.  Starting of civil construction works was held up for want of the National Board of Wild Life (NBWL) clearance. On dismissal of the case in NGT on 21.08.17, the developer has made an application to PCCF cum-Secretary, Forests, Environment & Wild Life Management Department for grant of NOC, in National Board for Wildlife (NBWL) angle. Now, the NoC in regard to NBWL has been received vide state Govt letter dated 4.10.2019. In view of the new hydro policy announced by Ministry of Power, GOI, which will help in convincing the investors to release the funds to start the project works.  An artificial lake (Mantham Lake) created in August 2016 due to heavy landslide resulting no accessibility for several years to the Upper Dzongu/ Dam site, which are beyond the control of the company/ force majeure. It is being understood that now Road and Bridge Department of Govt of Sikkim started erecting 60 Tonne Bridge, but work may progress in full stretch only after this rainy season i.e. of year 2022 and the construction work is likely to be completed by 4th quarter of 2022 then the project work will re-start. The project is likely to be commissioned in 2025-26, subject to restart of works.  Overall Physical progress: NIL | | -Works was stalled for want of NOC from State Govt. from NBWL angle and now it is received.  - Construction of bridge on Mantham lake for accessibility of site is now being started. The works are likely to start soon after accessibility to Dam site is achieved.  - Some of the infrastructure works developed earlier to be redone. |
| 41 | **Pinnapuram PSP**  Greenko Energy  20.4.2022  4x240+2x120=1200 MW  **Broad Features :**  Upper reservoir: FRL 463m  Dam height-40m from ground level  Lower reservoir: FRL 337m  Dam height-38m from ground level  Pressure Shaft : 5, 7.5m dia, 83.5 m- long  P.House-Surface  Turbine-Vertical Francis reversible pump turbine  **Cost :**Original: 6465.22  Latest :6465.22  **Contractors**  **E&M :**  M/s Andritz  **Civil :** M/s Megha | Andhra Pradesh  2024-25  2024-25 (Sept’24) | | **Upper Reservoir and Upper Intake**: Excavation almost completed and Upper Reservoir – Rock fill Embankment works (72%) out of 62,03,401cum  , Graded filter embankments (72%) out of 6,14,126 cum and Rip Rap (64%) completed.  **Pressure Shaft: Excavation (5,08,644 cum),** **Fabrication (17,667 cum) and Erection( 17,667 cum)-**92% & 64% and 52% completed respectively.  **Power House**: Excavation (11,67,862 cum) completed. & Concreting (64%) completed.  **Lower Reservoir, Lower Intake and Tail Race Channel:** All Excavation & lower reservoir embankments completed. Out of (40,834 cum) Tail Race Channel lining works 32% completed.  **E&M works:**  Power House – Concreting (64%) completed. Generator stator and rotor installation are in progress at service bay. | | -Developer is planning additional two units of 240MW each. |

**Grand Total : 41 nos. – 17973.5 MW**