**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) –**  31355.10 m (99.4%) 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. |

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| 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) | 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. |
| 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  2023-25  (Sept’24) | Upstream (Tehri Dam) and Downstream (Koteshwar Dam), intake and Head Race Tunnels (2 Nos.) already completed alongwithTehri Stage-I works.  **Widening of Upstream Surge Shaft-3 & 4 (Depth 145m each):** In USSS- 3, reinforcement work for 10th lift of shaft lining is in progress. In USSS-4, liner erection in transition portion at HRT-4 completed and bifurcation work along with shackle plate is in progress.  **Downstream Surge Shaft-3&4 (Depth 80.9 m each):** Around 80% shaft lining work already completed and further reinforcement and shuttering work in progress.  **Butterfly Valve Chamber (BVC 78X10X26m):** Excavation completed.  **Penstock Assembly Chamber (PAC 95X12X19.30 m):** Excavation completed.  **Penstocks** **(4 Nos.):** : Liner erection in Vertical Penstock-5 completed. Erection of liner in Vertical Penstock -06, 07 & 08 are in progress.  **Power House (203m x 28.20m x 56m size):** Excavation completed and erection of EM equipment is in progress.  **Control Room:** Work of erection of electrical equipment, illumination, ducting etc. are in progress in all floors.  **Tail Race Tunnels- 3 & 4 (2406 m):** Around 96% concrete lining completed. Lining of all four limbs also completed.  **Outlet works including gate lowering:** Concreting work for gate grooves in all structure is under progress and micro piling work in 3A has been completed and in 3B is under progress at outlet area  **River dredging:** Excavation/ River dredging work is in progress and construction of Baffle wall is also in progress.  **Electro-mechanical/ Hydro- mechanical works:**  **EM-HM Supplies:** Supply of almost all EM equipment received.  **EM Erection / fabrication:**  Both EOT cranes have been commissioned in service bay.  **Unit-5:** Unit has been successfully boxed up on 30.03.2023.  **Unit-6:** Stator lowering completed, further rotor lowering is scheduled by 20.06.2023. Wicket gate assembly in progress.  **Unit-7:** Stator has been successfully lowered in generator pit on 30.05.2023  **Unit-8:** Cleaning and painting of Generator barrel for further lowering of EM equipment are in progress. |  |
| 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 2025-26 (Jun’25) | **Civil & HM Works:**   * River Diversion has been completed. * Construction of U/S Coffer Dam has been completed. * **Dam excavation:** Around 71.14% completed. * **De-silting Chambers:** In overall, excavation around 90.10% and lining work 48.60% has been completed in all 3 DCs. * **HRT Concreting:** Kerb concreting and over lining completed in the length of 293 m and 146 m respectively.. * **TBM Operation:** TBM cutter head is at Ch. 173.50 m. After resumption of works on 01.04.23 in TBM area, work of required cradle casting has been completed and dragging of TBM in TBM Entry Adit for taking up mining through TBM is in progress. Casting of segments for tunnel lining already completed for around 1568 m length. * In Machine Hall, Earth mat work in Service Bay area completed and handed over to M/s HCC on 01.06.2023 for taking up further civil works * In TRT, approx. 50.55% heading excavation has been completed. * At TRT outlet area, around 95% slope stabilization work has been completed.   **Electro - Mechanical Works**:  47.27% supply of equipment/ material has been completed. |  |
| 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  2023-25  (Dec’24) | ➢ Dam (116m high and 284m long):- Cumulative concreting of 99.28 percent achieved.  ➢ Power House (285m x 61m x 64m size):- cumulative qty. achieved 81.6 percent.  ➢ E&M Works are in progress.  ➢ 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 (80.73 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 (79%) out of 9.83 lac cum completed  Concreting (2.43) lac cum (97%) out of 2.51 lac cum completed  HRT (9.8m diameter)  Heading excavation of (14.90) km (54%) executed out of total 27.51 km, benching excavation of (3.98) km (14%), Overt Lining of (3.59) km (13.0%), Invert lining of (1.60) km (6%) has been completed.  Desilting Basin  Surface Excavation of approx. 2.53 lac cum (74%) executed out of 3.42 lac cum, concreting of 0.89 lac cum (35%) executed out of 2.57 lac cum.  Surge Shaft/Surge Gallery: Excavation 67 % & concreting 66% completed  Pressure Shaft (2 nos. steel lined 5.4 internal dia.): Excavation 100 % & Backfill concrete 70% completed  Power House (142m x 18.5m x 52.44m size): Excavation 100 %, cumulative concrete qty. achieved 51045cum out of 52289 cum (99%).  Power House (142m x 18.5m x 52.44m size): Excavation 100 %, cumulative concrete qty achieved 89.04 %.  Downstream Surge Chamber: Excavation of Adit has been completed; however concrete lining is still to be taken up.  Tail Race Tunnel: Excavation of all four tail race tunnel (TRT-I, TRT-II, TRT-III &, TRT-IV) have been completed. The concrete lining of all four TRT’s are almost completed.  (B) HM works are in progress (57.52%).  (C) E & M works are in progress (44.92%). | Poor geology. |

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| **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 140666 cum (88%) (out of 1,59,000 cum) and concreting of 37257 cum(30%) (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 of both De-silting chamber completed, DC-1 lining completed DC-2 lining under progress. * **SFT excavation: -** Out of 360m of SFT, 75m ( 21%) has been completed. * **HRT (3.5 m diameter, 8.2 km long): -** As of now, 2411 m (29%) HRT have been excavated. * **Adit-2 excavation:** 604m/800m (76%) have been done. Adit-1 completed. * **Intake tunnel, Branch tunnel and Adit-1 to GOC –DC: -** excavation completed. Lining is in progress. * **Surge Shaft (14.50 m diameter 53.75 m height): -** Surge Shaft excavation & Orifice slab casting is completed. * **Pressure Shaft/Penstock ( 1591m long): –**Vertical pressure shaft excavation of 74m completed. Horizontal Pressure shaft excavation 260m (54%) out of 484m is completed. * **Powerhouse (73.50m x 22.40 m x 41.60 m): -** Out of 1,56,099 cum of excavation, 1,49,499 cum (96%) 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.   Poor financial condition of existing vendors- Financial Assistance/ Support is being provided by NTPC |
| 9 | **Naitwar Mori**  SJVN Limited  16.10.2017  2x30=60 MW  Broad Features :  Barrage: 30.5m height  HRT: 5.6m horse shoe, 4330m long  Pressure shaft: 4m dia, 109m long  Surge shaft: 18m dia, 51.65m height  **Cost :** Original: 648.33 (10/2016 PL)  Latest Generation component: 1272.29  Transmission: 120.44  (estimated completion cost under approval)  **Contractors**  Civil : JP Associates  HM : GMW  E&M : Voith | Uttara khand 2021-22  2023-24  (Sept’23) | * **Barrage (30.5m high above deepest foundation, Length at top 48.9m ):-** Barrage excavation completed. Concreting almost completed. Desilting tank excavation & concreting completed.. * **HRT- (5.6m modified Horse Shoe Shape, 4329 m long):-** Excavation of HRT completed, Overt lining completed and Invert lining about 300m only to be completed. * **Surge Shaft (18m dia, 50.28m height):**- Excavation and lining completed. * **Pressure shaft (4.0m dia, 97.50 m long):**- Excavation completed and all ferrules erected except 1 on upper bend. * **Power House (Underground 57.70m x 18.60m x 33.07m size):-**Civil works completed. * **Tail Race Tunnel (D-shaped, 8.0m (W) x 8m(H), 235.62m long, TRC-6.0m(W)x5.75m(H), 60.39m long):**- Outfall structure and Tail race channel work completed. Erection of gate in progress. * **E&M works:** Erection of both units completed. Boxingup of unit-1 already done. Switchyard equipment, and cable lying works in progress. Transmission line works completed | * Leftover civil and HM works including gates & hoists and completion and testing of EM works including switchyard. |
| 10 | **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 1637 m and 1727 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. Construction of TBM Adit portal, development of platform and associated infrastructure works are in progress. TBM assembly in progress.   **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, Earthmat erection in U#4 have been completed. | HRT & Dam works are critical. |
| 11 | **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. Activity for filling of material for construction of u/s and D/s Coffer Dam has been completed on 08.05.2022. Dam abutment stripping and dam excavation below river bed is in progress. Dam concreting has been started on 05.05.2022 and is 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 in progress. | The project is in initial stage of construction. |
| 12 | **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 (78%), Power House Cavern (80%), Dam abutment excavation (7%) achieved. |  |
| 13 | **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 (44 m high and 135.35 m long)** - Excavation 91.58% completed. Concreting 77.55% completed. Removal/ clearance of material deposited due to flooding in working area. 0.91 lac cum (45.90%) out of 2.0 lac cum completed.  **HRT (6.4 m diameter)** - Heading excavation of approx. 5.05 km (77.89%) executed out of total 6.48 km, benching excavation of approx. 4.91km (75.82%), Overt lining of 923.50 m (14.23%) has been completed.  **Desilting Chamber (3 nos. each of 120 m length x 13m width x 15 m depth)** - 2749 m (81.83%) excavation out of 3360 m is completed. 1505 m (44.79%) concreting out of 3360 m is completed.  **Surge Shaft (1 nos., 18 M dia., 56 M height):** Excavation 100% completed, concreting 82.2% completed.  **Pressure Shaft (1 no. 5.5m dia., 236m length)** : Excavation 100.00 % completed  **Surface Power House (75.3m (L) x 20.20m (W) x 41.35 m (H)**: Excavation 96.88% & concreting 74% has been completed.  **ELECROMECHANICAL WORKS:** In progress (34.71%).  **Hydro Mechanical works:**  In progress (17.7% achieved). | Slow progress of works on account of Covid-19 associated lockdowns and restrictions.  Poor geology in HRT. |
| 14 | **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.   * **Diversion Tunnel (617 m):** Completed. River diverted during June, 22. * **Dam:** 261713 cum (81%) out of total 322863 cum stripping of right bank and 32,615 cum (45%) 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:** 409227 cum (70%) out of total 494207 cum stripping completed. * Construction of Permanent Steel Bridge: Construction of abutments completed and erection of superstructure is in progress. * Realignment of NH almost completed.   E&M Works: Draft tube liner for unit-1 (Main) and unit-3 (Auxiliary) delivered. Manufacturing of DT liners (Main Unit-2 and Auxiliary Unit-4), spiral case & EOT crane is in progress . |  |
| **15** | **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.   * **Diversion tunnel (253 m),**  River Diversion achieved on 15.02.2022 * **Dam:** Dam excavation including River Bed excavation completed. Concreting 15600 cum (5%) out of 3,00,000 cum completed * **Power house excavation:** completed. Concreting started * **Tail Race Channel**: Excavation completed. * **EM Works:**  Design/ drawings of DT liner, stay ring, spiral casing, generator foundation and generator barrel have been approved. Fabrication of Draft tube liners for both units completed. DT liner for unit-1 received at site on 17.05.2023. EOT crane is under manufacturing. * **Transmission Line:** Work was awarded on 14.6.2022 and application for Forest Clearance is in under process. |  |
| **16** | **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 (heading) from outlet side - 326.5m progress out of cumulative 343 m made.  • DT Inlet (heading) Excavation - 287m progress out of cumulative 343 m made.  Construction of main approach road (4480 m): Completed.  •Construction of 81m span 70R double lane bridge over River Chenab – completed. | The works have recently been awarded. |
| **17** | **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   * Mobilization of manpower and machinery by contractor is in progress. * Construction of approach road to Diversion Tunnel is in progress. * Design & drawings of project components under progress. * Suspension Bailey bridge is in progress. |  |
| **18** | **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. |  |

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| **B** | State Sector |  | |  | |  |
| **19** | 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  (June,24) | | | 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 ) & Desilting Chamber (Dufor type triple barrel (90x7x5m):-** Excavation 46364 cum out of total 46364 cum completed.33914 cum out of 34589 cum concreting has been completed. * **HRT (D-shaped, 3.2m diameter, 9.156km long):-** 5827 **m** out of 9236 m excavation completed. * **Surge Shaft ( 3.2m dia):-** * **Pressure shaft ( 1 no., 2m dia, 1733m long ) :-** Excavation 18319 cum out of total 34560 cum completed. 919 cum out of 7212 cum concreting has been completed. * **Power House (Surface 60x12x28m ):-**Excavation 57440 cum out of total 60000 cum completed . | * Slow progress of works * Contractual Issues. |
| 20 | 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 |
| 21 | 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 90% work of Main Dam portion has been completed.  **Hydel Channel:** Almost 95% works has been completed.  Power House: Excavation 90% completed. Concreting started and 8% completed.  E&M: Initial stage of procurement of equipment.  Draft tube liner works for two units are in progress. | | Power house civil works is critical for E&M works. |
| 22 | 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).**  Procurement order for ASTM grade steel has already The supply of 1st lot of 17 steel plates by SAIL to the contractor has been received on site and 2nd lot of 12 plates is under transportation stage. | |  |
| 23 | 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:-** 32.22% of excavation completed * **Power Intake:**- 29% 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):-** Excavation of SFT 39% completed. * **HRT (10.5m diameter, 7.7125 km long):-** Heading excavation 90% completed. Benching excavation 62% completed. * **Surge Shaft (30.6m diameter 98.5m height):-**Excavation-90%completed * **Pressure Shaft (3nos. 5.0m diameter, Length I&III = 230m, II = 220m):-**Excavation of PAC along with rock supports 63.23% completed. * **Power House (131.15m (L) x 23m (W) x 44.29m (H)):-**100% excavation of Powerhouse Cavern, 100% excavation of Transformer hall completed. Concreting of EOT crane beam completed. * **TRT( includingadit, Main TRT, Unit TRTs & manifold):** Excavation 74.88% completed. * **E&M Works:-** Supply 63.9% completed. Erection yet to start. Overall E&M works 57.51% completed * **Draft Tube:-** 67% excavation completed | Dam is critical due to change in design and approval of same. |
| 24 | **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. |
| 25 | **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  **Overall Physical progress:**  **14%**  **Overall financial progress:**  **18.46%** | Andhra Pradesh  2017-18  2024-26  (Mar’26**)** | **D/s TRANSITION:**  Tunnel-1,2,3,4,5,6: Qty executed- 2623 cum, Qty balance – 5777 cum.    **Pressure Tunnels (1 to 12) works:**  Concreting around steel liners 1,2,3,4,5, 6,8 &9 is under progress. Concreting around steel liners 11 nos. segments completed during the month of february23 and total 96 nos out of 264 Nos.  **Power House area - E&M works for Unit - 1to 11:**  Location and fixing of anchor hooks for U nit 8, 9, 10,11 & 12 is in progress.  Installation of field efficiency test pipes: Extension of 50 m length FET pipe arrangement in the DT vent slab was completed for unit 1. DT Elbow liner Installation for unit 2: Installation of DT Elbow liner completed.  DT Elbow liner installation for unit 3: Installation of DT Elbow liner completed.  DT Elbow liner installation for unit 4: Alignment and locking of DT elbow liner is in progress.  DT Elbow liner installation for Unit 5: Placement and matching of segments are completed. Welding of segments is in progress. DT Elbow liner Installation for Unit 6: Placement of 10 out of 18 segments is completed, matching and temporary locking is in progress.  Installation of Base plates for unit 7: installation of Base plates @ El 4.92 m & -2.42 m in the DT cavity area was completed.  Installation of embedded pipes in first stage concreting: Installation of 300 NB spiral drain pipes was completed for units 8 and 9. Installation of embedded pipes in first staBe concreting for unit 12: lnstallation of 100 NB drain pipe in the valve niche was completed. | | |  |
| 26 | **Lower Sileru extention**  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 | | |  |
| 27 | **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  (Dec’23) | | 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**: 97.55% completed.  **HM Works**: 98.80% completed.  **E&M Works**: 70% 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 :- 92.65%.**  **The overall financial progress achieved :- 92.1%.** | |  |
| 28 | **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:** 100% works completed.  **Approach Channel & Intake**: 98% works completed.  **Penstock, civil:** 92% overall works at penstock track completed.  **H&M**: 100% fabrication and supply completed. 98% erection work completed  **Power House:** 97% civil works completed.  **Physical Progress 94%**  **Financial Progress 79%** | |  |
| 29 | **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** : 4.03% completed.  **HM Works**: Not yet started.  **E&M Works**: Not yet tendered.  **Intake structure**: Leading channel of Water conductor system excavated.  **HRT**: Excavation -400 m completed. ,  **Surge Tank/Forebay**: Approach road under construction.  **Pressure Shaft**: Excavation -335m.  **Power House**: Excavation progressing  **Bridge and road**: All spans competed approach Road work in progress. | |  |
| 30 | **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:** Heading and Benching almost completed (1251 M completed) and Kerb Wall Concrete under progress. HRT intake **-** Excavation 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 two units. Earth Mat works completed. Most of the equipment for two units received at site. | | . |
| 31 | 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 – 46.07%  Overall financial progress – 47.99%  HM work – not yet started  E&M works – contract awarded to M/S Andritz Hydro Pvt. Ltd on 09.09.21 | |  |
| 32 | 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:-** Contractor mobilizing at site. * **Construction of Approach Roads:**   **Power House of Chanju-III:** 1920m out of 2500m road has been completed. The slip removal & cleared up to RD 1600m & protection works yet to be started.  **Intake of Chanju-III:** 1850 m out of 2400m road works completed. The work of removal of slips started by main civil contractor on 06.04.2023 (from RD 1800m to RD 0.0m) completed upto RD 1740 m (backward) as on dated 12.04.2023. Stacking of material for construction of protection walls at site has been started.  **MAT Portal:** The MAT Portal has been completed. The tunnel profile is given to the contractor and drilling started | |  |
| 33 | 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** |  | |  | |  |
| 34 | **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 |
| 35 | **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. Overt and Invert lining is nearing completion and grouting 6.5 km out of 8.46 km completed.  **Surge Shaft:** Surge shaft Excavation completed & Lining (10 m) out of 89m completed.  **Pressure Shaft**: Pressure Shaft excavation completed (1.4 km) and Ferrule erection 683m out of 1.4 km completed.  **Power house:** Power house civil works of all three units almost completed and Unit 1&2 E&M works fully completed & works of unit#3 are under progress(45% completed).  Negotiations are going with villagers regarding transmission line clearance with help of state administration.  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. |
| 36 | **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 (left bank) completed to the tune of 146631 Cum out of 158696 Cum. Barrage excavation (right bank) completed to the tune of 9072 Cum out of 52101 Cum  **HRT :** Five out of Six Construction Adits to HRT completed (i.e. 1453.5 m out of 1612 m completed). 9385m out of 14538 m of Head Race Tunnel excavation completed.  Physical Progress 64%  Financial Progress 59.02% | |  |
| 37 | 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. |
| 38 | **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. |
| 39 | **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. |
| 40 | **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. |
| 41 | **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. |
| 42 | **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 (June’24) | | **Upper Reservoir and Upper Intake**: Excavation Almost completed and Upper Reservoir – Rock fill Embankment works (70%), Graded filter embankments (70%) and Rip Rap (60%) completed. Lower Reservoir – Rock fill Embankment Works (100%) completed and sealing works are going on in lower Reservoir, Upper Intake Structure – RCC Works (40%) completed.  **Pressure Shaft: Excavation,** **Fabrication and Erection-** 90% & 60% and 50% completed respectively.  **Power House**: Excavation completed. & Concreting (60%) completed.  **Lower Reservoir, Lower Intake and Tail Race Channel:** Excavation completed & lower reservoir embankments completed. Tail Race Channel lining works 30% completed. Lower stream intake structure, RCC works 20% completed.  **E&M works:**  Power House – Concreting (60%) completed. Power house spiral case assemblies including pit liner completed for unit#1 &2 and under progress for unit#3&4 .Barrel concreting for unit 1&2 is expected to complete by end of July All Draft Tubes, Runners for Units 1 & 2 , Stator Frame for Units 1 & 2, Stator Bars for Units 1 & 2, Stator Sheets & Shaft NDE for Units 1,2,3 & 4 delivered to site. Manufacturing of other major equipment are under progress. | |  |

**Grand Total : 42 nos. – 18033.5 MW**