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

**(As on 30.06.2022)**

| 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** |
| --- | --- | --- | --- | --- |
| 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  2023-24  (Sep’23) | **CIVIL WORKS**  **Dam & Intake Structure (83.7m high and 3.7m D-shaped intake structure) -** Completed.  **Head Race Tunnel (6m diameter, 31.545Km long) –**  30.70 km (97.32%) excavation out of 31.545 km completed.  **Total Overt lining:**  28.15 km (89.23%) lining out of 31.545 km completed  **Power House (23.5m x 39.7m x 123m size):** Completed.  **Nallah Works -Completed**  **ELECTROMECHANICAL WORKS:**  Unit#1 and Unit#2 synchronized with grid on 17.08.20 & 29.08.20 respectively and generation was restored. Restoration works of remaining 02 units are in progress  **HYDROMECHANICAL WORKS**:  All the major HM works completed. | Slow progress of HRT excavation due to geological constraints. |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 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**:**5867.38  **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  2024-25 U#1- Sep-24  U#2- Oct-24  U#3- Nov-24  U#4- Dec-24) | Barrage: Excavation Completed and Concreting almost completed.  HRT: Excavation of 9.644 km(70.94%) out of 13.595 km completed. 6.61 km concrete lining out of 12.09km completed  PH Cavern: Excavation and concreting completed.  Desilting Chamber & Intake: Excavation and concreting completed.  TRT: Excavation and lining completed.  Surge shaft and Penstock: Excavation & Lining completed.  E&M works: Pit liner erection on all 4 units completed. Turbine housing erection of all 4 units completed.  Unit #1: Boxed up and other auxiliary mechanical work is in progress.  Unit #2: Boxed up and other auxiliary mechanical work is in progress.  Unit #3: Turbine erection completed and Generator erection is in progress.  Unit #4: Turbine and Generator erection is in progress.  Critical : HRT  Muck removal from DC basin,power house completed and from HRT, Intake, SFT is going on.  Slide above TBM portal on 25.07.2021 got portal covered. Work for opening is going on.  Implementation of Automatic Flood Warning System (Level and Velocity sensors at 6 locations at river upstream plus command & control room) almost completed.  **HRT Intake Adit Portal Approach Road** almost completed.  Due to rock falling near portal electrical cable got damage on 23.04.2022 and Cavern enlargement work is held up, partial opening in portal is now made and electrical restoration and Portal restoration is under progress. | -Completion of HRT./ Barrage  Restoration Works  -Associated Transmission system  **-Due to flash flood in Dhauli Ganga River on 07 Feb 2021 Muck has filled damages occurred to intake, Barrage, DC, SFT, and HRT.** |
| 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**:**4835.60  (02/2019 PL)  **Contractors**  Turnkey : Alstom, France/ HCC | Uttara khand 2010-11  2022-24  (June’23) | 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 140m each):** Cumulative widening completed in a depth of 140 m in each.  **Downstream Surge Shaft-3&4 (Depth 80.9 m each):** Widening of DSSS-3 & 4 has been completed.  **Butterfly Valve Chamber (BVC 78X10X26m):** Excavation completed.  **Penstock Assembly Chamber (PAC 95X12X19.30 m):** Excavation completed.  **Upper Horizontal Penstocks (UHP):** Excavation is in progress.  **Vertical Penstocks(4 Nos. each of Dia 6.1 m and 135 m depth):**  Excavation completed. Widening of vertical penstock 5 & 7 completed and 113 m & 128 m completed in vertical penstock 6 & 8 respectively  **Power House (203m x 28.20m x 56m size):** Excavation completed and erection of EM equipment is in progress in all 4 units.  **Control Room:** All 9 slabs have been casted. Further, cleaning work is in progress and architectural works are being taken up.  **Tail Race Tunnels- 3 & 4 (2406 m):**  Excavation: -Heading& Benching: Completed 2370 m & 1839 m respectively.  Lining - Invert& Overt: Completed 1675 m & 1199 m respectively.  **E&M Works:** Both EOT cranes have been commissioned in service bay . |  |
| 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  2026-27  (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 2024-25 (Mar’25) | River diverted on 02.04.2018.  Concreting of U/S coffer dam has been completed.  TBM has been commissioned on 24.11.19.  **Desilting Chambers**:-Heading of all 3 De-silting Chambers has been completed and benching 73.33% completed.  **HRT** :Heading excavation of 1113m out of 1400m by DBM has been completed.  TBM has been commissioned. During operation of TBM in the RBM zone, big boulders have been encountered, which has hampered TBM operation. To overcome this problem two Approach Adits are being constructed to reach the cutter head.. cutter head of TBM is now free.  **Power House**: In Machine Hall, crown excavation has been completed and strengthening of geologically weak section with steel rib supports is in progress.  Transformer Hall, 124.5m crown excavation completed (out of 140m). Balance work in progress.  **TRT** :- Heading excavation 810 m out of 3070m completed.  At TRT outlet area, 85% slope stabilization work 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  2022-24  (Unit#1&2 in 2022-23 and Unit#3-8 in 2023-24) | ➢ Dam (116m high and 284m long):- Dam concreting 16.05 lac Cum (78%) out of 20.56 lac Cum & Intake concreting 272940 cum (97.7%) out of 279454 cum completed.  ➢ HRT (Total length-7102 m, 9.5m diameter):-99.5% heading excavation, 93.5% benching excavation, 81.6 % concrete overt lining and 47.2 % Invert lining completed.  ➢ Surge Tunnel (8 nos., 9.5 M dia, Horse Shoe):-Heading excavation 90.5% & benching excavation 52.5% completed.  ➢ Pressure Shaft (8 nos. 9.5/8/7 dia.):- PS liner 681 m (43%) out of 1594m completed.  ➢ Power House (285m x 61m x 64m size):- Cumulative Power house concrete qty. achieved 303009 cum out of 512000 cum (59.2% achieved so far).  ➢ E&M Works of Units 1, 2, 3, 4 & 6 are in progress.  ➢ HM Works:  Erection of Diversion Tunnel Gates: 97.5 % completed.  Erection of Intake Gates: 80% completed.  Pressure shaft liner - Out of total 1594m, 816 m pressure shaft steel liner erected. (51% completed).  Radial Gate: 8.14% work completed. | Signing of PPA for 113 MW is pending. |
| 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  2023-24  (Mar’24) | (A) Civil works:  Barrage (31.5 high and 105 m long)- Excavation (7.78) lac cum (79%) out of 9.83 lac cum completed. Concreting (1.45) lac cum (58%) out of 2.51 lac cum completed  HRT (9.8m diameter) - Heading excavation of approx. (11.70) km (43%) executed out of total 27.51 km, benching excavation of approx.3.08 km (11%) , Overt Lining of approx. (1.67) km (6.0%), Invert lining of approx. (0.68) km (2%) has been completed.  Desilting Basin - Surface Excavation of approx. 2.51 lac cum (73%) executed out of 3.42 lac cum, concreeting of 0.62 lac cum (24 %) executed out of 2.5 lac cum.  Surge Shaft (2 nos., 16 M dia, 89.3 M height): Excavation 67 % & concreting 59% completed.  Pressure Shaft (2 nos. steel lined 5.4 internal dia.): Excavation 100 % & Backfill concrete 33% completed.  Power House (142m x 18.5m x 52.44m size): Excavation 100 %, cumulative concrete qty achieved 44904 cum out of 52289 cum (86%).  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.  (C) E & M works are in progress in Units 1, 2 & 4. |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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  2024-25  (July’25) | * **Barrage (27m height and 122.5 m length):** - First stage river diversion done in Mar’2016. Excavation of 78329 cum (49.26%) (out of 1, 59,000 cum) and concreting of 37257 cum(30.35%) (out of 1, 22,750 cum) have been completed. 2nd Stage River diversion done in 27th Mar’ 2022. * **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 (140 m/140 m). DC-2 kerb concreting work is in progress for lining. * **SFT excavation: -** Out of 360m of SFT, 75m i.e., 21% has been completed. * **HRT (3.5 m diameter, 8.2 km long): -** As of now, 1870 m HRT have been excavated * **Adit-2 excavation: -** 326m/800m (40.75%) have been done. Fresh small cavity encountered at RD 325.0-326 m with ingress of water @ 250 lpm, cavity treatment work is under progress. * **Intake tunnel, Branch tunnel and Adit-1 to GOC –DC: -** excavation completed. (Completed 100%). * **Surge Shaft (14.50 m diameter 53.75 m height): -** Surge Shaft well excavation is completed. RD 17.00-36.50 m, raft & both side wall final lift completed. From RD 36.50 m to 41.0 m, manual excavation done, raft work is in progress. Orifice slab casting by July’ 22. * **Vertical Pressure Shaft (2.7m diameter 1526 m long): –** Out of 74m of Vertical pressure shaft, excavation of 52m (70%) has been completed. * **Powerhouse (73.50m x 22.40 m x 41.60 m): -** Out of 1,56,099 cum of excavation, 1,46,099 cum (94%) has already been excavated. * **Switchyard: -**Tower foundation & equipment foundation work completed & handed over to EM agency for erection. * **TRC (657m): -** Excavation & Concreting completed. * **EM Works:** - Tower, Beam, AC kiosk, Bus stringing, Equipment structure and main equipment installation 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. |
| 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 : 947.89 (12/2020 PL) under apprroval  **Contractors**  Civil : JP Associates  HM : GMW  E&M : Voith | Uttara khand 2021-22  2022-23  (Jan’-23) | * **Barrage (30.5m high above deepest foundation, Length at top 48.9m ):-** Barrage excavation 1,37,875cum (98%) out of 1,40,000cum completed. Concreting:41931 cum (97%) out of 43065 cum completed. Desilting tank excavation completed. Concreting: 54111 cum (92%) out of 59000 cum completed. * **Diversion channel completed.** * **HRT- (5.6m modified Horse Shoe Shape, 4329 m long):-** Excavation of HRT completed, Overt Lining: 3455 m (80%) completed and invert Lining started * **Surge Shaft (18m dia, 50.28m height):**- Excavation completed and Lining in progress. * **Pressure shaft (4.0m dia, 97.50 m long):**-95.50 m (98%) excavation completed. Excavation completed and Lining in progress. * **Power House (Underground 57.70m x 18.60m x 33.07m size):-**Excavation of Power House cavern: 53185 cum (98.04%) out of 54250 cum completed. Concrete works in progress * **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 completed. Tail race channel work is in progress. * **E&M works:** Erection of E&M components of both units are in progress. EOT crane is operational. | * Completion of Powerhouse/ Barrage * Completion of transmission line |
| 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  2025-26  (July.’25) | **Civil Works**:   * Dam Package (CFRD 167m high and 305m width).- Construction activities at the site are in progress access adit to HRT-1 & 2 have been completed of a total of 750.138 m and 849.23m 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))- Construction of TBM Adit Portal, development of platform and associated infrastructure works are in progress. Acceptance Test of TBM-2 completed between 17-21 January, 2022. TBM-1 has been dispatched on 14.02.2022 and reached Mumbai port on 15.03.2022. 94 Nos out of 97 nos. consignments reached at site and 3 Nos. heavy consignments are struck midway at Udhampur due to want of clearance from MORTH.   **HM Works**: - Detailed Engineering/manufacturing as well as supply of HM components are in progress. Pressure Shaft Liners of Lower Horizontal Portion PS1B and PS2 have been started and cumulative progress of 54.6 m each have been completed. Further, erection of Lower Horizontal Portion, 2.9 dia including Connection with MIV -PS1A have been started and cumulative progress of 22.95 m out of 54.6 m has been achieved.  **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. | 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  2024-25  (Aug.’24) | **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**: Pressure Shaft ( 4 Nos., Internal Diameter : 5.5m , 316.0m to 322.0m Length) Excavation of Adit to Pressure Shaft top is in progress and progress of 330m against total length of 370m. Excavation of Adit to PS bottom completed and excavation of Bottom horizontal PS-1 is also completed. Inclined PS 1 Pilot excavation 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.   * Transformer Hall Cavern – TC pilot excavation (137 m) is completed. TH Cavern Crown widening completed on 08.05.22. | 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  2025-26 (Feb’26) | **Civil Works**:   * EPC tender was awarded to M/s Megha Engineering and Infrastructures Limited on 18.01.2022. * Work of Improvement/Repair/Renovation of Road Network: - Total Road length of 3.4 KM has been improved/repaired during the month. * Improvement in Right Bank Road from Temporary Upstream Bridge to Power Intake and DT outlet is in progress. * Downstream Left Bank Road from National Highway to D/s Bridge is through and motorable.   **Excavation of Diversion Tunnel**:   * First Blast taken in DT 1 on 23.03.2022 and approx. 73 m excavation has been carried out till date. * First Blast taken in DT 2 on 15.03.2022 and approx. 84 m excavation has been carried out till. * Work on development of Portal for DT 2 is in progress. * Erection of Batching is underway. * MEIL is continuing with the work of development of its own Infrastructure like Explosive magazine, temporary stores. |  |
| 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  (May’24) | **CIVIL WORKS:**  **Dam (44 m high and 135.35 m long) -** Excavation 4.09 lac cum (83.04%) out of 4.92 lac cum completed Concreting 0.84 lac cum (48.47%) out of 1.73 lac cum completed. Removal/ clearance of material deposited due to flooding in working area. 0.60 lac cum (30.0%) out of 2.0 lac cum completed.  **HRT (6.4 m diameter) -** Heading excavation of approx.4.04 km (62.24%) executed out of total 6.48 km, benching excavation of approx.3.85 km (59.43%) has been completed.  **Desilting Chamber (3 nos. each of 120 m length x 13m width x 15 m depth) -** 2440.8 m (72.64%) excavation out of 3360 m is completed.  **Surge Shaft (1 nos., 18 M dia., 56 M height): Excavation 100% completed**  **Pressure Shaft (1 no. 5.5m dia., 206m length) : Excavation 89.77% completed**  **Surface Power House (75.3m (L) x 20.20m (W) x 41.35 m (H):**  Excavation 96.88% & concreting 58.69 % has been completed.  **ELECROMECHANICAL WORKS:**  76% Supplies of E&M Package-I and 17% supplies of Package-II have been received at site.  **Hydro Mechanical works:**  For Execution of balance works, HM package LOT-II awarded on 28.06.2021. | Slow progress of works on account of Covid-19 associated lockdowns and restrictions. |
| 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 | 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): Heading & Benching excavation completed. Concreting inprogress.** * **Dam:** 125460 cum (46%) out of total 272242 cum stripping of Dam right bank abutment completed **.** * **Power House:** 113450 cum (36%) out of total 311114 cum stripping of power house area completed * **Tail race channel: 228100 cum (44%) out of total 519806 cum stripping completed.** * **Construction of Bailey bridge completed on 06.05.2021.** * **Construction of approach roads: Approach road from Bailey bridge to Batching plant completed.**   **Realignment of NH is under 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: Stripping; Right Bank 94190 cum (54%) out of** total **174024 and Left Bank 30700 cum (73%) out of total 42101 cum completed.** * **Power house stripping:** 23500 cum (34%) out of total 70000 cum completed * Road to Power House in progress. |  |
| **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 | The works have recently been awarded. |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **B** | State Sector |  |  |  |
| **17** | 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 | J&K  2017-18  2023-24  (Dec,23) | The implementation of the project has been undertaken by awarding the EPC contract in favour of M/s. Patel Engg. Ltd. in 2013.  **Barrage:-** Excavation 46364cum out of total 46364 cum completed. Concreting 27416 cum out of 34589 cum completed.  **HRT (D-shaped, 3.2m diameter, 9.236km long):-**5166m out of 9236m excavation completed.  **Pressure shaft (1no. 2mdia, 1733mlong)**:  Excavation 15723 cum out of total 34560 cum completed. 693 cum out of 7212 cum concreting has been completed..  **Power house:** excavation 50691 Cum excavation out of 60000 Cum has been completed. | * Slow progress of works * Contractual Issues. |
| 18 | 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 | 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 |
| 19 | Shahpurkandi Irrigation Deptt. &PSPCL  04.05.2011  3x33+3x33+1x8=206  MW  **Cost:** Original: 1835.50  Latest 1938.74  (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  2024-25  (Aug.24) | **Main Dam:** Overall 67% work of Main Dam portion has been completed. Hydro Mechanical work for dam, fabrication work is completed by 94.41 % and 27.62 % of erection work.  **Hydel Channel:** Excavation / concreting is in advance stage of completion at Shahpurkandi Channel and on Ravi Canal Hydel Channel work is yet to be started.  Works of Dam stopped since 29.08.2014 due to inter-state dispute between states of J&K & Punjab on sharing of waters of river Ravi & tariff. An agreement was signed on 8.9.2018 between Chief Secretary, Govt. of Jammu & Kashmir and Chief Secretary, Govt. of Punjab. The Punjab Cabinet ratified the above agreement. Zero date of the project is 1st November, 2018. NIT for Civil works of Power House was floated and work is awarded to M/s OMIL JV on 24.02.2021 for both power houses. The civil work for both power houses has been started. E&M contract work earlier accorded to BHEL has been revived, Project is programmed for Commission by August,2024. |  |
| 20 | 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  2023-24  (Dec’23) | 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 by replacing/recladding the SAILMA 550HI steel  and that of power House is to be carried out. Tender for restoration of Penstock was floated and four bidders have been participated after **Techno-Commercial Evaluation by the Tender evaluation committee and after approval from BOD of BVPCL, works awarded to M/S P&R Infraprojects Pvt Ltd on November 06, 2021. The work of dismantling of ruptured penstock is finished and design of work of penstock is under finalization & approval is awaited.**  **The entire work of restoration work of penstock and allied civil works is accessed to be completed within 23 months after the award of work.** |  |
| 21 | 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  2024-25  (Mar’25) | River Diversion achieved on 10.02.2017.  **Barrage:** Downstream Coffer Dam completed. Upstream Coffer Dam 84% completed.  **HRT:**Heading excavation 7344 m out of 7712.7m completed. Benching excavation 2721.93 m completed  **Surge shaft**: Pilot hole excavation completed.  **Power House:-** 100% excavation of Powerhouse Cavern, 100% excavation of Transformer hall completed. Concreting of EOT crane beam completed.  . |  |
| 22 | **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  2026-27  (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. | The project works are stalled since March, 2015 since expenditure already reached to almost original approved cost level. Now, Govt. of Maharashtra has decided to completed the balance works through private participation on BOT (Build, Operate and Transfer) basis. |
| 23 | **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   |  |  |  | | --- | --- | --- | |  |  |  | | **A) Spillway, Earth cum Rockfill Dam, Power House Foundations Works awarded in March, 2013 to M/s. Transtroy- JSC EC UES JV**.  **ECRF DAM:**Earth work of 508.06 L.Cum /833.169L.Cum is completed.  **Diaphragm Wall** concreting – completed.  **SPILLWAY:** Excavation-838.80 L Cum out of 1115.59 L Cum completed. Concreting 9.60 L Cum out of 36.79 L cum completed.  **Gates:** RadialGate fabrication – 11010 MT completed out of 18000 MT (61.17%)**.**  **Power House:** Earth work of 112.20 L Cum / 114 L.Cum is completed & embankment of 9.79 L.Cum / 10 L.Cum is completed.  'Works stalled since 19.07.2019 as APGENCO asked contractor M/s Navayuga Engineering Company Ltd. (NECL) to stop all works and termination of contract issued on 14.08.2019. The writ petition filed by NECL was disposed by Hon'ble High Court on 14.12.2020. Final Contract concluded with new contractor M/s MEIL for execution of PHEP works on 30.03.2021..Effective zero date of project is 30.03.2021. The Engineering Designs & Drawings for various components of Project are under progress and the witnessing of the Turbine Model Test was 14.07.2021. The price break up schedule of Civil and Hydro Mechanical work approved on 22.10.2021. Excavation work of all component is finished except TRC (Tail Race Channel) and Ist stage concreting of power house is started. |  |
| 24 | **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  2022-23  (Mar’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.  **Intake structure:** Excavation completed.  Leading channel of Water conductor system replaced by cut & cover/soil tunnel and accordingly intake is shifted.  **HRT:** Excavation **–**3388/3347 m completed.  Overt conc. 2941/3347 m completed.  Invert Conc.. – 2400/3347 m completed.  **SurgeTank / Forebay:** Excavation completed. Concreting.650/843 m3 completed.  **Pressure Shaft:** Excavation completed. Fabrication of steel liner completed and erection of 1096/1096 m completed.  **Surface penstock:** Excavation **–**12000/122600 m3. Concreting- 122800/12850 m3 and 1986m out of 2036m erection completed.  **Power House:** Excavation & Concreting completed.Balance work from FACE II tunnel to Power House Contractor- M/s. Anchor Structurals  **Tail race Channel (2 Nos.):** Excavation & lining completed.  **E&M Works:** 75% supply completed, balance of E&M works –Tendering finalized.  **The overall progress achieved :- 88.67%.**  **The overall financial progress achieved :- 88.70%.** |  |
| 25 | **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 2022-23  (Mar’23) | 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:** 70% completed 9 out of 11 block completed.  **Approach Channel & Intake**: 4011 m3 excavation out of 9584 m3. done.  **Power Tunnel**: Excavation & Concreting completed. Steel line fabrication and erection completed.  **Penstock, Anchor, Rocker support:** - Excavation 32932 m3 out of 37839.37 m,3. concreting 6138 m3 out of 12082 m3 completed, Fabrication of penstock 1953 MT out of 2286.32MT completed and erection 1544 out of 2341 MT completed.  **Power House, switchyard & allied works**: 40283/43690 m3 excavation and 9670 /16209 m3 concreting completed.  **E&M Works:** Tender for erection of supplied Electro/ Hydro Mechanical equipment for power house was awarded to M/s Fitwell. Work commenced on 10.07.2020 and at present 54% work have been completed. |  |
| 26 | **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**:**  1831.29  EPC cost: Rs. 2424.09 crore (capital cost under revision by TANGEDCO)  **Contractors**  Civil &HM : Patel / Kundah PSP  E&M: MEIL | Tamil Nadu2022-23 2023-24  (March’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:** Excavation completed and Benching under progress (887 M completed)  **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**: Mining completed upto El+1928m from crown level El+1952m. Further benching below 1923m under progress. To be completed upto El+1908m, 4 Nos. Bus ducts completed**. Transformer Cavern:** Mining completed. Excavation for Draft tube Gate shafts under progress.  **TRT:** Mining completed and Concrete lining under progress.  **E&M Works**: - Virtual Model Test Completed , Design and Engineering works are under progress. |  |
| 27 | 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  (Jun,24) | 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 - 21%  Overall financial progress - 26%  HM work – not yet started  E&M works – contract awarded to M/S Andritz Hydro Pvt. Ltd on 09.09.21 |  |
| C | **Private Sector** |  |  |  |
| 28 | **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  2025-26  (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. |
| 29 | **Tidong-I**  M/s Statkraft India Pvt. Ltd.  2x50 = 100 MW  28.07.2006  **Broad Features:**  HRT–D-3.5m L- 8461 m  P.H. Surface  Turbine –Vertical Pelton  **Cost:** Original543.15  Latest 1472  **Contractors**  Civil &HM : SCL Infratech / Himalaya  E&M : Alstom | H.P.  2013-14  2022-24  (March-23) | **Barrage& River Diversion Works:** Common Excavation completed and 71700.84/73409.00 open cut rock excavation completed. 32144 cum out of 37159 cum concreting done.  **Head Regulator & Desilting arrangement:** Common excavation completed. 9763 cum open cut rock excavation out of 10,000 cum completed.  **HRT (8409m):** Excavation completed and 7925/8409 m lining concreting has been completed.  **Surge Shaft:** Excavation completed. Full steel lining remaining.  **Pressure Shaft:** Excavation completed. 80% lining remaining.  **Power house and Tail race channel**- 87709 cum out of 92500 cum excavation completed.  11237 cum out of 16156 cum concreting completed.  Overall 92 % of Powerhouse civil works completed.  E&M works Supply 97% completed and erection 90% Mechanical works and 50% Electrical works completed.  The work of transmission line is critical due to forest land clearance for 17 towers out of 54 towers due to realignment of the transmission line.  Overall physical progress achieved is 85%.  M/s Statkraft India Pvt Ltd has acquired the 100% equity of the project on 04.09.2018 | * Transmission Line critical. |
| 30 | **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. |  |
| 31 | 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 are stalled since July, 2017 due to Funds constraints with the developer. * Presently, the company is undergoing corporate insolvency resolution process initiated under IBC for resolution and revival of the project. |
| 32 | **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  2024-25  (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 .** | * Completion of R&R works and E&M works. * Works held up due to Fund constraints with developer. * Sub - Judice in NCLT. |
| 33 | **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  2025-26  (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. |
| 34 | **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  2025-26  (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. |
| 35 | **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  2026-27  (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.  - Issue of Mantham Lake.  - Some of the infrastructure works developed earlier to be redone. |
| 36 | **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** | Andhra Pradesh  2024-25  2024-25 | Project is in initial stage of construction and excavation of various components is in progress. |  |

**Grand Total : 36 nos. – 14,103.5 MW**