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

**(As on 31.10.2022)**

| 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** |
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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  2023-24  (Mar’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) –**  30.87 km (97.87%) excavation out of 31.545 km completed.  **Total Overt lining:**  28.394 km (90.01%) 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. |

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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**:**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  (Dec’24) | Barrage: Excavation Completed and Concreting almost completed.  HRT& Intake: Excavation of 9.67 km(71.12%) out of 13.595 km completed. 6.61 km concrete lining out of 12.09km completed. Intake concreting completed.  PH : Completed.  Desilting Chamber: Concreting under progress.  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.  Muck removal (Flash flood occured on 07 Feb 2021) from HRT, SFT from is going on.  Automatic Flood Warning System has been commenced.  HRT Intake Adit Portal Approach Road restored. | -Completion of HRT./ Barrage  Restoration Works  -Associated Transmission system |
| 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  2023-24  (Oct’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):**  Liner erection in Vertical Penstock-5, 7 & 8 is in progress and after completing Step concreting in VP-6 liner erection of lower bend is being taken up.  **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 completed in both TRTs and concrete Invert & Overt lining also completed up to 1955 m and 1821 m respectively. Lining in all four TRT limbs from outlet side is also in progress. Concreting work in outlet structure is also in progress..  **E&M Works:** Both EOT cranes have been commissioned in service bay .  **Unit-5:** After lowering of Stator, Erection of Draft Tube Cone, Bottom ring, Runner and Upper labyrinth has been completed in the turbine pit. Both the segments of Head cover have been lowered in Turbine pit and assembly work is in progress. Rotor lowering is planned by 15.11.22. •**Unit-6**: Stator has been successfully lowered in generator pit on 20.08.22. Further, turbine assy. works are in progress.  **Unit-7**: Reinforcement of generator barrel wall is in progress.**Unit-8:** Reinforcement of Generator foundation is 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 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 82.55% completed. Lining work in all three DC’s is also in progress and around 37% lining work has been completed.  **HRT** :Heading excavation of 1219 m out of 1400m by DBM has been completed.  At TBM front, construction of Adit through DBM is in progress.  **Power House**: In Machine Hall, crown excavation has been completed and strengthening of geologically weak section with steel rib supports is in progress.In Transformer Hall; heading completed in entire length of 140 m. Benching work with rock bolts at about EL 1047m is in progress.  **TRT :-** 38.25 % heading excavation has been completed and balance is in progress**.**  At TRT outlet area, 95% 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  2023-24 | ➢ Dam (116m high and 284m long):- Dam concreting 18.01 lac Cum (87.55%) out of 20.56 lac Cum & Intake concreting 276664 cum (99%) out of 279454 cum completed.  ➢ HRT (Total length-7102 m, 9.5m diameter):-100% heading excavation, 100% benching excavation, 96.75 % concrete overt lining and 69.84 % Invert lining completed.  ➢ Surge Tunnel (8 nos., 9.5 M dia, Horse Shoe):-Heading excavation 95.01% & benching excavation 74.95% completed.  ➢ Pressure Shaft (8 nos. 9.5/8/7 dia.):- PS liner 63.26% completed.  ➢ Power House (285m x 61m x 64m size):- Cumulative Power house concrete qty. achieved 343287 cum out of 512000 cum (67.05% achieved so far).  ➢ E&M Works are in progress.  ➢ HM Works:  Erection of Diversion Tunnel Gates: Erected.  Radial Gate: 23.53% work completed. |  |
| 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  2025-26  (July’25) | (A) Civil works:  Barrage (31.5 high and 105 m long)- Excavation (7.80) lac cum (79%) out of 9.83 lac cum completed. Concreting (1.56) lac cum (62%) out of 2.51 lac cum completed  HRT (9.8m diameter) - Heading excavation of approx. (11.90) km (43%) executed out of total 27.51 km, benching excavation of approx.3.08 km (11%) , Overt Lining of approx. (1.78) km (6.0%), Invert lining of approx. (0.75) km (3%) has been completed.  Desilting Basin - Surface Excavation of approx. 2.53 lac cum (74%) executed out of 3.42 lac cum, concreting of 0.64 lac cum (25 %) 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 39% completed.  Power House (142m x 18.5m x 52.44m size): Excavation 100 %, cumulative concrete qty achieved 45236 cum out of 52289 cum (87%).  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. | The progresses of works have been hampered on account of 1st, 2nd & 3rd wave of Covid-19 and have been subjected to series of lockdowns and restrictions imposed by Central/ State Govt. |

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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  2025-26  (July’25) | * **Barrage (27m height and 122.5 m length):** - River diversion completed. Excavation of 103189 cum (64.90%) (out of 1, 59,000 cum) and concreting of 36489 cum(29.73%) (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, 2120 m (26%) HRT have been excavated. * **Adit-2 excavation:** 387m/800m (48%) have been done. Adit-1 completed. * **Intake tunnel, Branch tunnel and Adit-1 to GOC –DC: -** excavation completed. * **Surge Shaft (14.50 m diameter 53.75 m height): -** Surge Shaft well excavation is completed. * **Pressure Shaft/Penstock (~~2.7~~m diameter ~~1526~~ 1591m long): –** Out of 74m of Vertical pressure shaft, excavation of 56m (76%) has been completed. Horizontal Pressure shaft 246m (51%) out of 484m is completed. * **Powerhouse (73.50m x 22.40 m x 41.60 m): -** Out of 1,56,099 cum of excavation, 1,46,099 cum (94%) has been excavated. * **Switchyard: -**Civil works completed & handed over to EM agency. EM works 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. |
| 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’/Feb’-23) | * **Barrage (30.5m high above deepest foundation, Length at top 48.9m ):-** Barrage excavation completed. Concreting:39009 cum (87%) out of 44950 cum completed. Desilting tank excavation completed. Concreting: 57809 cum (92%) out of 63000 cum completed. * **Diversion channel completed.** * **HRT- (5.6m modified Horse Shoe Shape, 4329 m long):-** Excavation of HRT completed, Overt Lining:4171 m (96%) completed and invert Lining: 1925 (45%) completed. * **Surge Shaft (18m dia, 50.28m height):**- Excavation completed and lining 50.10 m (99%) completed * **Pressure shaft (4.0m dia, 97.50 m long):**- Excavation completed and HM works in progress. * **Power House (Underground 57.70m x 18.60m x 33.07m size):-**100% excavation completed. Concrete/ lining & 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).- Access adit to HRT-1 & 2 have been completed of a total of 1310 m and 1483 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 94 nos. out of 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.   **HM Works**: - Pressure Shaft Liners of Lower Horizontal Portion PS1B and PS2 have been started and cumulative progress of 54.6 m each have been completed.  **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  2025-26  (July’25) | **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. 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) | • Improvement / Construction of Roads: - Cumulative 6.16 Km (77%) road has been constructed out of total 8 Km. VT approach road clearing under  progress.  • Balance work of Downstream Bridge: Concreting of wearing coat has been completed during the month. 90% work has been completed till 30th September’2022.  • Excavation of Diversion Tunnels / MAT:  DT-1: Heading excavation completed. Benching excavation of DT-1 is in progress. 153m excavation done during the month. Total length of 410m (87%) achieved out of 472m till date.  DT-2: Heading Excavation completed. Benching excavation of DT-2 is in progress. 180m excavation done during the month. Total length of 270m (49%) achieved out of 552m till date.  Excavation in Power House Access Tunnels (MAT, CVT & Surge Chamber Adit) is in progress. 6800 cum excavation achieved during the month. Total of 19080 cum (51%) achieved out of 37600 cum till date. |  |
| 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 4.09 lac cum (83.04%) out of 4.92 lac cum completed Concreting 0.87 lac cum (50.55%) 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.4.1 km (63.24%) executed out of total 6.48 km, benching excavation of approx. 3.91 km (60.28%) has been completed.  **Desilting Chamber (3 nos. each of 120 m length x 13m width x 15 m depth) -** 2444.82 m (72.76%) 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 90.39% completed  **Surface Power House (75.3m (L) x 20.20m (W) x 41.35 m (H):**  Excavation 96.88% & concreting 66.32 % 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.  Completion of HRT works |
| 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):**  Completed. River diverted during June, 22. * **Dam:** 196186 cum (63%) out of total 313449 cum stripping of Dam right bank abutment completed **.** * **Power House:** 162518 cum (56%) out of total 287466 cum stripping of power house area completed * **Tail race channel:** 262296 cum (70%) **out of total 373832 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: 140640 cum (80%) out of total 174024 and Left Bank stripping completed on 14.6.2022**.** * Upstream Coffer dam completed. * **Power house excavation:** 75550 cum (63%) out of **total 120000 cum completed.** * **Tail Race Channel**: 26250 cum (33%) out of total 80000 cum completed.   it   * 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  (Nov’26) | Mobilization in progress. DT outlet portal development have been completed on 17.08.2022 & further work of DT inlet portal development and construction of access road to DT outlet and DT inlet are under progress.  •Construction of main approach road (4480 m): Completed.  •Construction of 81m span 70R double lane bridge over River Chenab is Under progress. Erection of Top chords, Bottom Chords along with their interconnecting Vertical & Diagonal members Completed. Shuttering for Deck slab & Concreting work also completed. Load testing is under progress. | The works have recently been awarded. |

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| **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 | 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:-** Excavation 46364cum out of total 46364 cum completed. Concreting 29126 cum out of 34589 cum completed.  **HRT (D-shaped, 3.2m diameter, 9.236km long):-**5333m 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 51871 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 | 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 |
| 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 82% work of Main Dam portion has been completed.  **Hydel Channel:** Almost 95% works has been completed.  Power House: Excavation 87% completed.  E&M: Initial stage of procurement of equipment. | | Power house civil works is critical for start of E&M works. |
| 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  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 90% work of dismantling of ruptured penstock is completed and design of work of penstock is under finalization & approval is awaited.**  Procurement order for ASTM grade steel has already placed with SAIL and fabrication works will also start by contractor once design approved and clearing of underground reaches of some portion of penstock. | |  |
| 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  2026-27  (Nov’26) | | | River Diversion achieved on 10.02.2017.  **Barrage:** Downstream Coffer Dam completed. Upstream Coffer Dam 84% completed.  **HRT:**Heading excavation 7504 m out of 7712.7m completed. Benching excavation 3452.9 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.  . | Dam is critical due to change in design and approval of same. |
| 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  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. |
| 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.  **Pressure tunnels-1 to 12:-**  Cutting of structural steel plates of 80Nos. completed during the month of September-2022 Bending of 67 Nos. Structural steel plates completed during the month of September-2o22, and total plates bent are 287 Nos., out of 1872 Nos. For 12 Tunnels. ) Fabrication of 2.50m length ferrules :total of 94 Ferrules are fabricated out of 624 Nos. of ferrules required for 12 Tunnels. Fabrication of 5.0m length ferrule : total 32 Nos. of ferrules segments fabricated, out of 288 Nos. ferrule segments required. Presently consolidation grouting works for pressure tunnel 10 is under progress. Fixing of rail track works for erection of steel liners for pressure tunnels 4 to 6 are completed during the month of September, 2022. Erection of Steel liners and concreting around these liners in tunnel 1-4 is under progress.  **Power House area** – First stage concreting for unit -1 in power House area & DT area executed for a quantity of 1940 Cum of M25 concrete during the month of September,2022. The reinforcement works for raft concreting of Unit-2 & 3 and Unit -4 & 5 are under progress. | | |  |
| 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  2023-24  (Jun’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 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 :- 89%.** | |  |
| 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  (Jun’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 completed, Fabrication of penstock completed and erection is under progress.  **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.  **Physical Progress 85%** | |  |
| 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 2024-25  (Dec’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 completed and Benching completed (1251 M completed).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**: 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: :** excavation is completed.  **TRT:** Mining completed and Concrete lining under progress. Lower intake excavation under progress.  **E&M Works**: - procumbent of materials/ equipment started at site. Erection is in initial stage. | |  |
| 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  (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 – 28.5%  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  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. |
| 29 | **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:** Original543.15  Latest 1472  **Contractors**  Civil &HM : SCL Infratech / Himalaya  E&M : Alstom | H.P.  2013-14  2023-24  (Dec-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 8164/8409 m lining concreting has been completed.  **Surge Shaft:** Excavation completed. 10m out of 90m completed.  **Pressure Shaft:** Excavation completed. 80% lining remaining.  **Power house and Tail race channel**- 90% civil works completed. E&M works for unit –I & II about 90% completed. Unit-3 is initial stage of erection.  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 about 60% works completed.  Overall physical progress achieved is 85%.  M/s Statkraft India Pvt Ltd has acquired the 100% equity of the project on 04.09.2018 | | * Pressure shaft /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.  Physical Progress56.90%  Financial Progress42.69% | |  |
| 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 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. Once the Resolution Plan is approved by the NCLT, the successful Resolution Applicant will take over the company and revive 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  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. |
| 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  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. |
| 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  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. |
| 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  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. |
| 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**  **E&M :**  M/s Andritz | Andhra Pradesh  2024-25  2024-25 (Mar’25) | | Project is in initial stage of construction and excavation of various components is in progress.  Upper Reservoir and Intake Excavation: 90% completed.  Pressure Shaft: excavation 50% completed. Fabrication 20% completed.  Power House: 100% excavation completed. Concreting is in progress (8% completed).  Lower Reservoir, Lower Intake and Tail Race Channel: Excavation 90% completed.  E&M works: Supply of material/equipment started.  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.  Draft tube excavation is under progress. | |  |

**Grand Total : 36 nos. – 14,153.5 MW**