**Annexure-**

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

(As on 31.05.2021)

| 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** |
| --- | --- | --- | --- | --- |
|  | **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  2022-23  (Mar’23) | All major works related to commissioning of the project completed except HRT.  **Head Race Tunnel-**Excavation: 29.78 km out of 31.526km completed  **Total Overt lining:** 27.58 km lining out of 31.526km completed.  **E&M Works:**  All units have been synchronized with grid at part load using water from Jiwa Nallah Nallah and presently generation in progress. After fire incident on 29.07.20, generation has been suspended. After restoration works, Unit#1 & 2 synchronised with grid on 17.08.20 & 29.08.20 respectively and generation restored. Restoration works of remaining units are being done. | * Poor geology in HRT especially in Face-4 (TBM-Face). |
| 2 | Tapovan Vishnugad 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  **Contractors**  Civil : Rithwik/L&T / Patel  HM : Om Metals  E&M : BHEL | Uttara khand 2012-13  2023-24 | Barrage: Excavation Completed and Concreting 127628 cum out of 129358 cum completed.  HRT: Excavation of 2.79 km out of 3.81 km by DBM & 5.50km out of 8.27km by TBM 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: Excavation & Lining completed.  Penstock: Excavation and 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.  Unit #2: Boxed up.  Unit #3: Turbine erection completed.  Unit #4: Turbine erection in progress.  Bus Duct: Erection of all units completed  Critical : HRT  On 07.02.2021, there was a sudden flash flood in Dhauli Ganga river due to an avalanche resulting in part damage to NTPC hydro power plant. A detailed analysis is to be done to assess the extent of physical and financial damage to the project. A team of Expert(TOE) from CWC, CEA, GSI, CSMRS and NTPC have been constituted for preparing action plan for restoration of project. | - Completion of HRT.  - Associated Transmission system  **-Due to flash flood in Dhauli ganga River on 07 Feb 2021, construction work is held up**.  . |
| 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**:** 5024.35  **Contractors**  Turnkey : Alstom, France/ HCC | Uttara khand 2010-11  2022-23  (Dec’22) | **Widening of Upstream Surge Shaft-3&4 (Depth 140m each)**: Cumulative widening completed in a depth of 87.0 m and 98.0 m respectively.  **Downstream Surge Shaft-3&4 (Depth 79 m each)**: Widening of DSSS-3 has been completed and 76.0 m completed in DSSS-4.  **Butterfly Valve Chamber (BVC 78X10X26m)**: Excavation completed.  **Penstock Assembly Chamber (PAC 95X12X19.30 m)**: Excavation completed.  **Upper Horizontal Penstocks (UHP)**: Excavation of UHP-5 (Scope:35 m) has been completed & UHP-6 (Scope:45 m) completed 20 m b/w BVC and USSS.  **Vertical Penstocks (4 Nos. each of Dia 6.1 m and 135 m depth)**: Widening of vertical penstock 5, 6,7 & 8 is in progress in PAC and completed in a depth of 49 m, 1.8m, 59 m & 7 m 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**: Construction of Control room is in advance stage and casting of final floor (ninth) is expected by end of May-21.  **Tail Race Tunnels**- 3 & 4 (2406 m):  **Excavation**: -Heading& Benching: Completed 2123 m & 1643 m respectively.  **Lining – Invert & Overt**: Completed 896 m & 594 m respectively.  **E&M Works:** Manufacturing & supplies are in progress. | - Poor Geology in underground works of BVC, PAC, TRT, PH Cavern etc.  - Slow progress of works  - Cash flow crisis with M/s. HCC. |
| 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  2025-26  (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. | Clearance from Hon’ble Supreme Court for resumption of works.  On account of suspension of work, M/s L&T have lodged a claim of Rs 336.18 Cr which is under adjudication in Arbitration. |
| 5 | **Vishnugad Pipalkoti**  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**:** 4397.8    **Contractors**  Civil & HM : HCC  E&M : BHEL | Uttara khand 2013-14 2023-24 (Dec’23) | River Diversion has been completed.  Construction of U/S Coffer Dam has been completed.  Heading of all 3 De-silting Chambers has been completed and benching 40% completed.  Heading excavation of HRT by DBM has been completed 739m out of 960m.  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. One Adit has been completed 22m out of 36m.  In Machine Hall, crown excavation has been completed and strengthening of geologically weak section with steel rib supports is in progress.  In Transformer Hall, 70% crown excavation completed. Balance in progress along with stabilization with steel rib supports.  In TRT, heading excavation 443m out of 3070m completed.  At TRT outlet area, 80% slope stabilization work has been completed.  **Electro - Mechanical Works**:  Design and Engineering is in progress. Model testing of Turbine has been successfully completed in BHEL. Supply works of Rs. 167.60 cr has been completed. | Extension of Environment Clearance for the project on expiry of existing EC in August, 2021 from MoEF&CC  Mining permission for Gadi quarry from Distt. Administration, Chamoli  Law & Order Problem to be sorted out by GoUK/Distt. Administration, Chamoli |
| **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**  (01/20 PL)  **Contractors**  Civil : BGS-SGS-Soma JV  HM : Texmaco  E&M : Alstom | Arunachal Pradesh  Assam  2009-11  2023-24  (Aug’23) | **Dam :-** Dam concreting 14.26 lac Cum (68.88**%)** out of 20.70 lac Cum & Intake concreting 269926cum (97%) out of 279454cum completed.  **HRT:-** 98% heading excavation, 74% benching excavation & 59.71% concrete overt lining and 38.36 % Invert lining completed .  **Surge Tunnel :-** Heading excavation 86.40% & benching excavation 12% completed.  **Pressure Shaft :-** Out of total 1594m, 293m pressure shaft steel liner erected. .  **Power House :-** Excavation completed & **c**oncreting 32.29%completed.  **E&M Works:-**  Concreting of Generator Barrel of Unit#1 and 2 already completed.  Unit-1: Turbine Stay Ring and Spiral Case erection completed.  Unit-2: Turbine Stay Ring and Spiral Case erection completed.  Unit-3: Erection of Draft Tube (part 2 to 6) of Unit#3 already completed.  All 28 nos. transformers have reached at site. 8 no. GSU transformers have been shifted to Powerhouse. Erection of EOT crane rail in Power House (for Unit -1&2) completed. Joint inspection of material for Unit-1 & 2 is in progress. Erection work of Unit-1 is in progress (Stator and Rotor assembly is in progress). Other works like Cable tray installation at Turbine & Generator floor, cooling water pipeline work etc. in progress.  **HM Works:**  Erection of Diversion Tunnel Gates: 92 % completed.  Erection of Intake Gates: 74.69% completed.  Out of total 1594m, 293 m pressure shaft steel liner erected.  Erection work at Diversion Tunnel and Intake Gates is in progress. Fabrication and erection work of Penstock liner is in progress. | Project progress hampered during FY 2021-22 due to Covid-19 Restriction orders imposed by various Assam and Arunachal Pradesh Govt./ Local Administration.  Signing of PPA is pending with Govt. of Delhi. |
| 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) | **Barrage and Desilting:** Excavation completed & concreting 91.5% completed.  **HRT:** 39% Excavation works completed.6 % lining completed.  **Surge Tank:** Excavation completed & 11% lining has been done.  **Pressure Shaft:** 95% excavation works has been completed. 10% lining works completed in unit-1.  **Power House:** Excavation completed and 64 % concreting works has been completed.  **TRT:** Excavation & Lining almost completed.  **E&M Works**: Erection of Draft Tube of all units completed. 2 Nos.200 MT EOT cranes have been installed.  Regarding, tendering, LOT-I (Civil works of Barrage, Desilting Basins, SFT, Intake, Part of HRT-I & HRT-II and other associated structure) awarded to M/s. Jaypee Associate Ltd on 31.03.2020 and LOT-II (Civil works of Part of HRT-I & HRT-II, Surge shaft, Pressure shaft, Powerhouse, TRT & other associated structure) awarded to M/s. Gammon Engineers on 15.03.2020. HM works awarded on 27.10.2020 and E&M works are under tender evaluation. The Consideration Amount of Rs. 897.50 Crore released by NHPC on dated 09.10.2019 and Taking over along with all assets and documents as ‘Going concern’ completed on 09.10.2019. Both the civil contractors have partly mobilized at the project. Govt. of Sikkim vide order dated 19.09.20 has allowed interstate movement of people w.e.f. 01.10.2020. Contractors have been asked to gear up its resource mobilization. | - Works stalled since April, 2014 due to financial crunch with the earlier developer LTHPL.  - Accordingly, the Corporate Insolvency Resolution Process (CIRP) was initiated vide order dated 16.03.2018 of Hon’ble NCLT, Hyderabad Bench. In the Bidding process, NHPC emerged as successful bidder for acquisition of LTHPL. Subsequently, the investment proposal for an estimated cost of Rs 5748.04 crore (Jul’18 PL), which includes Bid amount of Rs 907 crore for acquisition of LTHPL; was approved by the CCEA on 08.03.2019 for investment, acquisition of M/s LTHPL and execution of balance works of Teesta-VI HE Project by NHPC.  Taking over along with all assets and documents as ‘Going concern’ completed on 09.10.2019. |
| **8** | **Rammam-III**  NTPC Hydro Ltd.  10.09.14  3x40 = 120 MW  **Broad Features :**  Run of the River Scheme  **Cost :** Original: 1381.84    **Contractors**  Civil & HM : Simplex-Apex JV / Sew  E&M : BHEL | West Bengal  2019-20  2022-23  (Nov,22) | **Barrage (23 high and 122.5 m width)**: - First stage river diversion done in Mar’2016. Excavation of 61805 cum (out of 1,59,000 cum) and Concreting of 36179 cum (out of 1,22,750 cum) have been completed. HPC Concreting of 600.5 cum (out of 1400 cum) have been done. 2nd stage river diversion is scheduled to be done by 31.05.2021. Overall 23.18% physical progress has been achieved till date. .  **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 is completed and concrete lining works to be started. Kerb Concreting in DC-1 is in progress. SFT excavation- out of 360m of SFT, 74m i.e. 20% has been completed.  **HRT (3.5 m diameter, 8.2 km long)**: - As of now, 1394m HRT have been excavated (464m from Adit-1 and 930m from Adit-3). 318.5m of Adit-2 excavation has been done and work in progress. Excavation of additional Adit from Adit#1 to GOC is completed. .  **Surge Shaft (14.5m diameter 52.5 height)**- Surge Shaft well excavation is completed. Inside of Surge Shaft, Backfill and Raft concreting is in progress.  **Vertical Pressure Shaft (2.7m diameter 1526 m long)** – Out of 74m of Vertical pressure shaft, excavation of 51m (69%) has been completed.  **Power House (73.50m x 22.40 m x 41.60 m)**: Model testing of turbine done by BHEL in Jan 2016. Out of 1,56,099 cum of excavation, 1,46,099 cum (94%) has already been excavated. . Slope Stabilization work under progress. Switchyard Excavation & filling completed.  **TRC (657m)**: Excavation & Concreting completed.  **EM Works**: 27 out of 41 Tower Erection completed. Laying of 40% earthing mat is completed. Equipment erection started. | • Signing of PPA/ATS  • Acquisition of supplementary Land |
| 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  Latest : 648.33  **Contractors**  Civil : JP Associates  HM : GMW  E&M : Voith | Uttara khand 2021-22  2022-23  (Jun,22) | River Diverted on 31.01.2019  **Desilting Tank**: Excavation completed and concreting 26764 cum out of 59000cum completed.  **Barrage**: 1,37,875 cum out of 1,40,000 cum excavation completed and concreting 29208 cum cum out of 43065cum.  **HRT**: Excavation 4279.5 m out of 4317m completed.  **Surge Shaft :** 8040 cum out of 15700 cum excavation completed.  **Power House & Transformer Hall**: Excavation of Power Hose cavern 53185 cum out of 54250 cum completed. **TRT**: Heading excavation completed.Benching excavation 80 m (43%) completed out of 188 m.  **HM works** : LoA issued to M/s GMW Private Ltd. on 18.04.18.  **E&M works** : Works awarded to M/s. Voith Hydro Pvt. Ltd. On 11.06.2018. Embedded part of EOT crane installed. Erection of Draft Tube liner in Unit-1 & Unit-2 started on 05.12.2020 and work is under progress | * Powerhouse & Barrage works critical. * Power Evacuation system |
| 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  E&M : Voith Hydro Ltd | J&K  2020-21  2025-26  (July.’25) | **Infrastructural works**: Excavation of MAT and adit to Powerhouse completed.  **Dam:** Letter of Acceptance issued to M/s Jaiprakash Associates on 21.06.18. 572.5 m excavation of access adit to HRT-I have been completed out of a total of 698.2m.  **Surge Shaft**: Access road to Surge shaft top completed on 30.11.18.  **Pressure Shaft:** Excavation of adit to Pressure Shaft bottom & top has been completed. Excavation of Penstock Bottom Horizontal Portion (From MIV to PH side) is in progress.  **Power House(157mx20.20mx49m):**  Letter of Acceptance issued to M/s. AFCON-JP Associates JV on 21.02.18. Excavation of MAT completed on 20.12.18. UG Excavation of Power House Cavern is in progress - 85% work completed  E&M Package: Letter of Award issued to M/s. Voith Hydro Ltd. On 02.01.2019.  HM Works Package: Letter of Award issued to M/s. PES Engineers Pvt. Ltd. on 26.08.2019.  HRT-TBM package: LoA issued to M/s L&T Ltd. On 3.7.2020.Survey and initial works are in progress. | The work at Dam site and Power house site of the project partially restored after lockdown with limited Manpower after obtaining the permission from District Administration. |
| 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, HM and E&M works awarded on 24.02.2020.  Construction of approach roads for Dam top(215m), DT inlet (1.6 KM) and outlet (1.2 Km) completed.  **Civil works Package**-Letter of Award issued to M/s Patel Engg. Limited on 24.02.2020 at a cost of Rs.2240.27 crores.Contract agreement signed on 15.6.2020. Excavation of Diversion Tunnel, Main Access Tunnel, ventilation tunnel and Adit to Pressure Shaft top& Bottom is in progress. Dam abutment stripping is in progress.  **Diversion Tunnel (1 no, diameter 9 m, length 666 m)**: Diversion tunnel day lighted on 01.03.2021. DT benching is in progress and 333m progress achieved against 666m total length. Overt concreting of DT is also in progress and 12m progress achieved.  **Hydro Mechanical Package**-Letter of Award issued to M/s PES Engineers Pvt. Limited on 24.02.2020 at a cost of Rs.202.10 crores. Contract agreement signed on 11.06.2020. Detailed Design Engineering of HM components is in progress.  **Electro Mechanical Package**-Letter of Award issued to M/s Andritz HydroPvt. Limited on 24.02.2020 at a cost of Rs.552.52 crores. Contract agreement signed on 22.06.2020. Detailed Design Engineering of E&M equipment is in progress.  **Pressure Shaft ( 4 Nos., Internal Diameter : 5.5m , 316.0m to 322.0m Length)**: Excavation of Adit to Pressure Shaft top& Bottom is in progress and progress of 119m and 45.5m against total length of 370m and 336m achieved respectively.  Power House (182m (L)x 23.6m(W) x 51.2m(H))–Power House Pilot Excavation is in progress. 41m excavation achieved against total length of 182m | The works of the project could be started during July 2020 with limited manpower due to prevailing COVID-19 SOPs. The desired progress of the works was not being achieved due to same. |
| 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: 5281.94  Latest   5281.94 (11/2018 PL)  **Contractors**  Civil & HM : GVK  E&M : Alstom | J&K  2017-18  2025-26  (Subject to re-start of works) | EPC Contract for Civil & HM works awarded to M/s GVK Projects & Technical Services Limited on 04.07.2013.  Excavation of DT1 (298m out of 472m)  & DT2 (192m out of 552m) completed.  -Project was stalled since 11.07.2014 due to various issues viz. R&R issues, Local issues, Law & order problem etc. Earlier, it was under execution by private sector developer and some works already have been done. There is no progress since 11th July, 2014. JV of Govt. of UT of J&K and NHPC has been formed. CCEA clearance received. Govt. of UT of J&K vide order No. PDD/IV/42/2019-I dated 23 March 2021 conveyed the approval of Administrative Council for incorporation of the JV. The order also conveyed name of the JV as ‘RATLE HYDROELECTRIC POWER CORPORATION LIMITED”. The Promoters agreement between NHPC & JKSPDC for the formation of JV has been signed on 13.04.2021. The process for incorporation of JV is under progress. Advance action with regard to transfer of clearances in the name of JV has been taken up by NHPC and JKSPDC. The same shall be processed after Incorporation of JVC. | - Award of works is to be done. |
| 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 : 1692.60  **Contractors**  Civil : Coastal  HM : Texmacho  E&M : Andritz | Sikkim  2011-12  2025-26  (Subject to re-start of works) | **Dam & Intake works:** Excavation 409184 / 492775 cum completed and concreting 61045 cum out of 173229 cum completed. Excavation of road diversion tunnel has been completed.  **HRT:** Excavation in progress and 58.48% completed.  **Surge Shaft:** Excavation has been completed.  **Pressure Shaft:** 212.34 m Excavation is completed.  **Power House:** Excavation in Power House completed. Concreting 8565 cum out of 19900 cum completed.  **Desilting chamber:** Excavation 2143 m out of 3360 m completed.  In the Joint Lenders Forum meet held in PFC on 5th April, 18, Lenders decided to file application in NCLAT and the same has been filed on 24th April, 18. Last hearing of NCLT held on 29.03.2019 and order pronounced on 9.04.2019. As per the order IRP has been appointed.  The project is under NCLT process since 9th April, 2019. NHPC submitted EOI on 08.07.2019 and was shortlisted under final list of Prospective Resolution Applicants on dated 23.08.2019.The Resolution Plan submitted by NHPC on 04.12.2019. The Resolution Plan Approval Application was listed for hearing on 17.02.2020 before NCLT, Hyderabad (“Tribunal”). Final hearing was held on 31.07.2020. Investment approval for acquisition of M/s Jal Power Corporation Ltd. and construction of balance works of Rangit-IV by NHPC was conveyed to NHPC by MoP on 30.03.2021. After takeover of Company “JPCL” became wholly owned subsidiary company of NHPC Limited. After Takeover of Company by NHPC, first Board meeting of JPCL of Reconstituted Board held on 31.03.2021. | Financial crunch with the developer.  Project was stalled since October, 2013 due to funds constraints with the developer. |
| 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: 1912.59  **Contractor :**  **Civil: Luhri Hydro Power Consortium** | Himachal Pradesh  2025-26  2025-26  (Jan’26) | Work awarded to M/s Luhri Hydro Power Consortium. Contract Agreement signed on 22.12.2020. Mobilization is in progress.  **Diversion Tunnel (598 m)**: Inlet portal development – 3200 cum out of 18802 cum completed.  Construction of Bailey bridge completed on 06.05.2021.  **Construction of approach roads**:1340 m out of 1940 m road work completed. |  |
| 15 | **Dhaulasidh**  SJVN Ltd.  06.05.2021  2x33 = 66 MW  **Broad Features**:  Turbine: Vertical Francis  **Cost:** Original: 687.97 | Himachal Pradesh  2025-26  2025-26  (May’25) | Work started recently. |  |
|  | **State Sector** |  |  |  |
| **16** | 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  2022-23  (Mar,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 37181 cum out of total 46364 cum completed.23604 cum out of 34589 cum concreting has been completed  **HRT (D-shaped, 3.2m diameter, 9.236km long):-** 5002m out of 9236m excavation completed.  **Pressure shaft (1no. 2mdia, 1733mlong)**:  Excavation 14823 cum out of total 34560 cum completed. 536 cum out of 7212 cum concreting has been completed  **Surge shaft (3.2m dia.)** : Excavation: 704cum out of 14000cum completed.  **Power house:** excavation 23550 Cum excavation out of 60000 Cum has been completed. | * Slow progress of works * Contractual Issues. |
| 17 | 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  2025-26  (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 re-tendering for selection of EPC contractor is under process. | * Project stalled * Re-award of works |
| 18 | Shahpurkandi Irrigation Deptt. &PSPCL  04.05.2011  3x33+3x33+1x8=206  MW  **Cost:** Original: 1835.50  Latest 1938.74  (Power Component)  **Contractors**  Civil & HM : Soma – BUREYA JV  E&M : BHEL | Punjab  2015-16  2024-25 | **Main Dam:** 13.92 lacs cum Excavation out of 18.40 lacs cum and 5.79 lacs cum concreting out of 11.05 lacs cum completed.  **Hydel Channel:** Excavation / concreting is in advance stage of completion.   * 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. Fresh Tenders for Construction of both Power Houses have been invited on 13.08.2020. After processing the tenders, Letter to proceed with the work has been issued to the agency on 24.02.2021 after signing the contract agreement. The construction work has been started by the agency. The completion period for this work is 36 months.   E&M contract work earlier accorded to BHEL has been revised, Project is programmed for Commission by August,2024. | * Power House civil works has been started |
| 19 | 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 57m  Penstock- 3.4m x 1860m  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  2022-23  (Dec’22) | 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 under progress. |  |
| 20 | 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 6862 m out of 7712.7m completed. Benching excavation 2302 m completed **Surge shaft**: excavation 37% completed.  **Power House:** 98% excavation of Power House completed.  Works hampered in some portion of HRT due to re-location of Army ammunition depot. Issue is under resolution between Army, GoHP & HPPCL. | -Issues with Army authorities for shifting of ammunition depot.  - Slow progress of works |
| 21 | Vyasi UJVNL  25.10.2011 (TEC)  2x60= 120 MW  **Broad Features:**  Dam: Conc. Gravity  H- 86m L-207.2m  HRT- Circular, 7m dia, 2.7Km long.  Power House- Surface  Turbine- VF.  Switchyard: 220 Kv.  **Cost:** Original: 936.23  Latest**:** 1581.01  **Contractors**  Civil : Gammon / MPCC  E&M : BHEL | Uttarakhand 2014-15  2022-23  (Apr,22) | **Civil Works:**  **Dam :** Excavation completed. Total 360352 cum concreting has been done in dam blocks out of 3.63 lakhs cum.  **Diversion Channel : C**ompleted**.**  **Head Race Tunnel (2.7 Km):** Excavation works completed. Both overt and invert lining has been completed.  **Pressure Shaft:** Excavation works of pressure shafts completed. 360 m concreting out of 374m completed  **Surge Shaft :** Excavation has been completed (100% done). 7600 cum out of 7600 cum concreting has been completed.  **Power House:** Excavation works and concreting of substructure completed. Concreting of super structure is 90% completed  . Erection of Draft Tube in both the units completed. | -Dam and E&M works are Critical. |
| 22 | **Koyna Left Bank PSS**  WRD, Mah.  20.02.2004  2x40 = 80 MW  **Broad Features:**  Water from the existing Shivaji Sagar 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 : Litostroj Slovania & Koncar, Croatia | Maha rashtra  2014-15  2025-26  (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. 22600 cum excavation out of 55050 cum completed.  **E&M works:**  The contract for details engineering manufacturing supply, supervision erection, testing commissioning and putting into commercial use of pump turbine, generator motor and associated equipments 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. | -Slow progress of works.  -Funds constraints due to increase in Project cost. RCE under approval.   * Contractual Issues   - The proposal to construct the project on BOT basis had been sent to State Govt., as no response has been received from State Govt., WRD is planning to take up the project after availability of funds.  The project works are stalled since March, 2015. |
| 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  HM : PES  E&M : GE | Andhra Pradesh  2017-18   |  |  |  | | --- | --- | --- | | 2024-25 |  |  | | **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:**  '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.  16.38 Lakh Cubic Meter Earth work excavation pertaining to the Power House is completed against 25.42 Lakh Cubic Meter till 10-06-2021. |  |
| 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  2021-22  (Dec,21) | **Intake structure:** Excavationcompleted.  Leading channel of Water conductor system replaced by cut & cover/soil tunnel and accordingly intake is shifted.  **HRT:** Excavation **–**3347/3347 m completed.  Overt conc. 1808/3347 m completed.  Invert Conc.. – 1675/3347 m completed.  **SurgeTank / Forebay:** Excavationcompleted. Concreting.423/843 m3 completed.  **Pressure Shaft:** Excavation completed. Fabrication of steel liner completed and erection of 906/1096 m completed.  **Surface penstock:** Excavation **–**112800/122600 m3. Concreting- 123800/12850 m3 and 1923m out of 2036m erection completed.  **Power House:** Excavation & Concreting completed.  **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 :- 89.65%. | * Poor Geology * Contractual Issues   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. Tender for Erection of Supplied Electro Hydro Mechanical Equipment & Supply and Erection of BoP equipment is under progress. |
| 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 2021-22  (Dec,21) | **Civil Works**:  **Weir:** 4506 m3 excavation out of 10208 m3 & 6362.59 m3 concreting out of 10928 m3 completed.  **Approach Channel & Intake**: 3909.00 m3 excavation out of 9584 m3. done.  **Power Tunnel**: Excavation completed & Concreting 272.00 m3 Out of 615 m3 completed. Steel line fabrication 22.5 MT and erection 3 MT out of 27 MT completed.  **Penstock, Anchor, Rocker support:** - Excavation 32391 m3 out of 37839.37 m,3. concreting 4398 m3 out of 12082 m3 completed, Fabrication of penstock 1804 MT out of 2286.32MT completed and erection 401 out of 2341 MT completed.  **Power House, switchyard & allied works**: 39258/43690 m3 excavation and 7845 /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 28% work have been completed.  Over all Progress of the project is around 66% and it is expected that the project can be commissioned by Dec,21. | -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. |
| 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  Latest**:**  1831.29  **Contractors**  Civil & HM : Patel / Kundah PSP  E&M: MEIL | Tamil Nadu2022-23 2023-24  (May’23) | **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.  **HRT:** Excavation 1086.7m.out of a total 1247 m. have been completed.  **Pressure Shaft**: Excavation 640m out of total a length 926 m completed.  **Surge Shaft:** Surface excavation 55.70 m depth out of 68 m completed.  **Power House**: Slashing completed, Benching 16m level out of total 48m level completed. Transformer cavern: slashing completed, benching 9. m level out of total 18.5 m level completed.  **Tail Race Surge Chamber:** - Benching 70% completed.  **TRT:** Excavation 869m out of 895 completed.  **E&M Works**: - Phase-I, Package –III, 1st unit of 125 MW and Phase-II (2x125MW) & Phase –III (1x125 MW) Supply, erection, testing & commissioning works awarded to M/s Megha Engineering & Infrastructure Ltd. on 28.11.2019. Preliminary planning and Engineering works are under progress | Environmental clearance validity expired on 07.05.2020. MoEF &CC issued TOR for Project works at site for a period of 6 Months from date of issue of TOR or grant of new E.C. Action is being taken to obtained fresh E.C |
| 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**:** 1847.07  **Contractors**  Civil : L&T | Assam 2023-24  2024-25  (Jun,24) | Work started recently. |  |
|  | **Private Sector** |  |  |  |
| 28 | **Sorang**  Himachal Sorang Power corporation Ltd.  June, 2006/  2x50= 100 MW  **Broad Features:**  HRT- 1.5 km  Trench Weir-59 m  P.House- underground  Turbine- Pelton  Gross Head-626 m  SWYD- 11/400 kV (GIS)  **Cost:** Original: 586.00  Latest**:** 586.00  **Contractors**  Civil & HM : NCC – Maytas – SS JV  E&M : Voith Siemens | H.P.  2011-12  2021-22  (Jun-21) | All Civil Works completed.  Both the units are boxed up. During the filling of water conductor system in 1st week of Nov., 2013, leakage occurred in penstock due to cracks. Rectification work completed in April, 2015. Unit #1 synchronized with grid on 30.10.2015, however, could not be commissioned due to non-availability of rated discharge.  On 18-11-2015 when Unit # 2 was under trial run, there was rupture in the surface penstock pipe. The incidence caused loss of lives and property.  The rectification work is under progress. Land acquisition for new alignment of Penstock & other infrastructure is completed.  Fabrication of steel plates: Rolling of Ferrules 249 out of 249, Welding of 249 ferrules out of 249, Painting of 249 ferrules out of 249 and Erection of 242 ferrules out of 249 completed  Transmission line is ready for 3.27 Km from GIS of Sorang HEP to Karchham Wangtoo Abdullapur 400 KV DC line. | - Repair of penstock work  -Arrangement of funds to carry out repair works. |
| 29 | **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  2024-25  (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. | * Slow progress of works HRT critical, poor geology. * Works are stalled due to finance issues since Jan, 2015. * Developer have initiated the sale of the Project and are in the process of negotiating with Potential Buyers. |
| 30 | **Bajoli Holi**  M/s GMR Bajoli Holi Hydro Power Pvt. Limited  31.12.2011  3x60= 180 MW  **Broad Features**  Dam Height-66 M  Dam Length-178 M  Desilting Chamber- 2 Nos.  240 Mx14.5 MX 10.8 M  HRT- Length-15.538 Km., 5.6 M dia  P.H. –Surface  **Cost:** Original 1696.93  Latest 2689.00  **Contractors**  Civil & HM : Gammon  E&M : Alstom/ GE | H.P.  2018-19  2021-22  (Sept,21) | **Civil Works:** 99% works completed.  **Dam**: Excavation completed. Concreting 98.5% completed.  **HRT:** Excavation and lining completed.  **Surge Shaft:** Excavation and Lining completed.  **Pressure shaft**: Excavation completed. Lining-2070MT / 2440MT completed.  **Power house**: Excavation completed and concreting almost completed.  **HM Works:** 89% works completed.  **E&M Works:** 92% works completed. | -Slow progress of works  -Poor approach roads  -Power evacuation system is critical.  - Due to excessive snowfall on 6th & 7th Feb 2019, in the entire region up to Chamba, access roads got severely damaged. Power Supply remained completely cut off to the entire region during 6th ~25th Feb 2019. |
| 31 | **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  2022-23  (Jun. 22) | **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 Works:**138182.50 cum concreting has been completed out of 181044 cum.  **HRT (8526m):** Excavation completed and 6587.5/8534 m lining concreting has been completed.  **Surge Shaft:** Excavation 66m/89m completed.  **Pressure Shaft:** Excavation completed. 370m / 1310m lining completed.  **Power house and Tail race channel**- 87709 cum out of 92500 cum excavation completed.  11237 cum out of 16156 cum concreting completed.  Overall 78 % of Powerhouse civil works completed.  M/s Statkraft India Pvt Ltd has acquired the 100% equity of the project on 04.09.2018 and remobilization of manpower on the project is in progress. Presently project is scheduled to be commissioned by June 2022. | * Slow progress of works. * Transmission Line critical. |
| 32 | **Kutehr**  M/s JSW Energy (Kutehr) Ltd.  3x80 = 240 MW  31.08.2010  **Broad Features:**  **Cost:** Original: 1798.13  Latest : 1798.13  **Contractors**  Civil & HM : M/s Angelique – PCC consortium, M/s MF Bumi Geotech 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 125696 Cum out of 129400 Cum. Concreting of upstream keys completed. Apron concreting to the tune of 3189 cum out of 9137 cum completed. Left training wall concreting to the tune of 669 cum out of 11065 cum completed.  **HRT :** Five out of Six Construction Adits to HRT completed (i.e. 1431 m out of 1612 m completed). 1922m out of 14538 m of Head Race Tunnel excavation completed. |  |
| 33 | 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 : 1133  **Contractors**  Civil : Lanco  HM : Cimmco  E&M : Alstom | Uttara khand  2012-13  2024-25  (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 Lanco Infratech 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, Lanco Mandakini 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. |
| 34 | **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  2023-24  (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.**  Recently, the GoMP constituted a High-Level Task Force vide Energy Department Order dtd. 18.04.2019, under the Chairmanship of Dr. Rajan Katoch (IAS Retd.) and having Senior IAS Officers from GoMP among others as members to examine the difficulties in implementation of the project and suggest the way forward.  In the first meeting of the Task Force held on 25.05.2019, the Chairman of the Task Force directed the Promoter and Lenders to engage in discussions to reach an understanding on the way forward.  Pursuant to the directions of the Task Force, a Memorandum of Understanding (MoU) has been executed on 22.07.2019 between the Entegra Limited (Promoter), Power Finance Corporation (Lead Lender) and SMHPCL. As agreed in the MoU, new Management nominated by the Promoter has taken over charge of SMHPCL, in August 2019. Mr. M L Gupta, former CMD, THDCIL, who was also MD of SMHPCL during 2005-2010, has taken over as CMD of SMHPCL.  Efforts are being made to initially commission the 3 machines already installed since 2011 and start generation with part filling of reservoir after completing R&R to that level. BHEL has agreed to supervise the restoration and commissioning of 3 machines. Action for arrangement of funds required is being taken.  **M.P. Power Management Company Ltd. has terminated the Power Purchase Agreement, R&R Agreement & Escrow Agreement with SMHPCL on 18.04.2020 & 20.04.2020 respectively .** | * Completion of R&R works and E&M works. * Works held up due to Fund constraints with developer. * Sub-Judice in NCLT. |
| 35 | **Bhasmey**  Gati Infrastructure  2x25.5= 51 MW  **Broad Features :**  Barrage- 42 m high and 150 m long,  Symmetrical gravity  HRT-5 m dia &5.463 km length , Circular.  Surge Shaft- 97.5 m Hight & 13m 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  2024-25  (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.  **E&M Works :-** Runner, Draft tube, Turbine shaft, EOT crane, Model studies all completed and delivered to the site.  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. |
| 36 | **Rangit-II**  Sikkim Hydro Power Limited  10.02.2010  2x33= 66 MW  **Broad Features :**  Dam-47m High,  Concrete Gravity  HRT-2.9m dia &4.745 km length ,  Surge Shaft- 65.5m High & 10m dia.  Underground Pressure Shaft : 1.7 m dia & 592 m 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  2024-25  (Subject to pending approvals from state govt.) | 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 623.5 m 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: 20% . | 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. |
| 37 | **Rongnichu**  Madhya Bharat Power Corporation Ltd.  01.10.2008  2x56.5= 113MW  **Broad features :**  Barrage : Height 14m, length 120.00m  Desilting Basin : Size (60Lx18Wx7H)m.  HRT : Horse shoe type, 12.302km, 4.00m dia  Surge shaft : 85m high, 10m dia, orifice dia 1.7m  Pressure shaft : 3.0m dia, 415m long steel lined  Penstock 812m long  Power house : Surface (61.5Lx47.75Wx38.0H)m  Turbine : Pelton, vertical shaft, 2nos.  **Cost :** Original : 491.32  Latest : 1453.34  **Contractors**  Civil & HM : Sew  E&M : Voith | Sikkim  2014-15  2021-22  (Jun’21) | The civil works have been re-awarded to M/s Moshvaraya Infrastructure Ltd. and E&M works to M/s Litosroj Power, Slovania & CG Electric system, Hungary.  **Barrage:** Excavation & concreting completed.  **HRT:** Excavation and concreting completed.  **Surge shaft**: Excavation & Concreting completed.  **Pressure Shaft:** Excavation & lining completed  **Power House**: Excavation & concreting completed.  **E&M works**:  **Unit #1 :** Erected..  **Unit #2 :** Erected...  Overall Physical progress: 100% . | -Non availability of Testing and commissioning foreign engineers as they left the project site during Covid-19. |
| 38 | **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  :2671.00  **Contractors**  Civil : Essar | Sikkim  2018-19  2025-26  (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 is held up for want of the National Board of Wild Life (NBWL) clearance. There was a case challenging the Eco-Sensitive zone notification of MoEF & Climate Change in NGT. The case is disposed on 21.8.2017. The developer applied for issuance of clearance from Forest, Environment & Wild Life Management Dept., Govt. of Sikkim from NBWL angle.  In August, 2016, there was a huge land slide thereby creating a lake which obstruct the approach to project components. Developer are pursuing with concerned department of GoS for early decision on dismantling of Mantham Lake or developing an alternative road to reach the dam site to start main project civil works in full swing at the earliest.  Overall Physical progress: NIL | -Works stalled for want of NoC from State Govt. from NBWL angle.  - Issue of Mantham Lake. |

Grand Total : 38 nos. – 12,876.5 MW