**Status of Under Execution Hydro Electric Projects (above 25 MW) programmed to be commissioned during the year 2021-22 in the Country**

| Sl. No. | Name of Project  Executing Agency  Date of CEA clearance / Approval  Capacity (MW)  Broad Features  Cost (original/latest)  In Rs. Crores. | State  Comm. Sch. (original/ Now Ant. | Broad Present Status / Critical Area | **Remarks/**  **Critical issues** |
| --- | --- | --- | --- | --- |
|  | **State Sector** |  |  |  |
| 1 | **Pallivasal**  KSEB  2x30= 60 MW  31.01.2007  **Broad Features:**  HRT: 3.50m X 3396m  Surge Shaft: 7.0m X 49m  Pressure Shaft: 2.50m X 1019.20m  Penstock: 2.nos., 1161.20m each.  Power House: Surface  Turbine: Pelton  S. Yard: 220kV – Single bus  **Cost:** Original: 222.00  Latest: 550.00  **Contractors**  Single Package (Except Intake & balance Tunneling works)  ESSAR – DEC – CPPL JV  -M/s Bumi-Zillion JV  (for Intake works & balance Tunneling works)  -M/s Anchor structure-PSE-SSIPCJV, M/s. Shri Sarvasana Industries Pvt. Ltd. | Kerala 2010-11  2022-23  (Jan’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 **–**3347/3347 m completed.  Overt conc. 1808/3347 m completed.  Invert Conc.. – 1675/3347 m completed.  **SurgeTank / Forebay:** Excavation completed. 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.Balance work from FACE II tunnel to Power HouseContractor- M/s. Anchor Structurals  **Tail race Channel (2 Nos.):** Excavation & lining completed.  **E&M Works:** 67% supply completed, balance of E&M works –Tendering finalized.  **The overall progress achieved :- 88.49%.** | -Re-award of works for E&M works. |
| 2 | **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 (Jul’22) | 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**: 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 Jul,22**. |  |
|  | **Private Sector** |  |  |  |
| 3 | **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  (Mar,22) | All Civil, E&M works and HM works has been completed. Unit 1 of the Project has been successfully synchronised with Lahal Sub-station on Dec 31, 2021. In addition,  Spinning of Unit 3 of the Bajoli Holi HEP (180 MW) has also been successfully achieved on December 31, 2021. Spinning of Unit 1 & 2 has already been achieved on Dec 27, 2021 & Dec 30, 2021 respectively.  There is heavy snowfall in the project location so the discharge availability is very low and there is minor issue of leakage in HRT also. |  |