

Status of Hydro Electric Projects under Execution

Sl. No	Name of Project Executing Agency Date of CEA clearance / Approval Capacity (MW) Broad Features Cost (original/latest)	State Region Sector Status Commng. Schedule (original/ Now Ant.	Broad Present Status	Remarks/issues
Central Sector				
1.	Uri-II 4x60 = 240 MW J&K NHPC	2012-13	Civil works: Major civil works almost completed. E & M works: Erection of draft tubes for all units completed. Erection of Spiral Casing and lower pit liner for all Units completed. Unit 1 - Box-up completed. Unit 2 - Box-up completed. Unit 3 - Box up completed. Unit 4 - Stator lowered and erection of balance TG parts is in progress. HM works: All works completed.	- Earthquake on 08.10.2005 - Flash flood in March, 2007 and May, 2010, Sept. 2011. - Washing away of coffer dams. - Massive slide on the right side of Dam in January, 08. - Widening of NH 1A by BRO. - Collapse of bridge being constructed in river Jhelum in Nov, 2008. - Rainfall & snowfall w.e.f. Feb. 11 to May, 11 resulting in over-topping of dam on 17.04.11. - Down stream civil works are critical. - M/s HCC is facing cash flow crunch. - Adverse weather conditions. - Local unrest for getting jobs in NHPC. - Works stopped on all fronts w.e.f. 19.03.2012.
2.	Chutak 4x11 = 44 MW J&K NHPC	2012-13	E&M Works: Unit-1: Spinning done on 12.09.2011. The unit has been put on 3.5 MW available load on 06.11.2011. Unit-2: The unit has been put on 1.5 MW load. Unit-3: Cabling nearing completion. Stator brazing work completed. Final HV test awaited. Auxiliary placement in progress. Unit-4: Stator core building and rotor building in progress. HM Works: All HM gates have been commissioned.	- Extreme cold climate and high altitude. - Delay in award of E&M works due to poor participation and re-tendering. - HM works package award delayed due to abnormal high price bid. - Supply of E&M by BHEL. - JKPCDC have been requested to provide full load.
3.	Nimoo Bazgo 3x15 = 45 MW J&K NHPC	2013-14	Dam: Concreting of spillway blocks, R/S Non-overflow blocks and Power Dam completed. 22775 cum concreting balance in L/S non overflow blocks. River Diversion: 2 nd stage diversion achieved on 21.10.2011. Power House: 19792 cum concreting completed out of 23000 cum. E&M Works: Generator Barrel of all Units cast. Stator lowered in Unit-3. Rotor of unit-3 has been lowered in pit on 21.11.2011. Wall paneling in Power House has been completed. HM Works: All radial & Draft tubes gates erection completed. Erection of Intake gates has also been completed.	- Extreme cold climate. - Delay in award of E&M works due to poor participation and re-tendering. - HM works package award delayed due to abnormal high price bid. - Supply of E&M by BHEL and manpower for erection of E&M parts.
4.	Kishanganga 3x110 = 330 MW J&K NHPC	2016-17	DT lining – Completed. Dam: 180640 cum excavation on left bank completed out of 300000 cum. HRT: 4690 m excavation completed out of 8630 m by DBM. 1785 m excavation completed out of 14799 m by TBM. Surge Shaft excavation sinking from top – 16.8 m completed out of 105m. 79 m MAT excavation upto Service Bay completed out of 140 m.	- Rainfall in March, 2011. - Cavity occurred in HRT-TBM portion on 15.06.11. Poor geology in Access tunnel affected the progress. - Total length of MAT to PH crown completed.
5.	Chamera-III 3x77= 231 MW H.P. NHPC	2012-13	Concreting of main plug of DT completed and activity for consolidation grouting in DT plug is in progress. E&M Works: Spinning of Unit-1, 2 & 3 completed. HM Works: All Radial Gates have been made operational and Diversion Tunnel Gates lowered on 23.06.2011. SFT	- Labour agitation and stoppage of works for 3-4 months in June, 2006. - Washing away of coffer dam in July, 2007.

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			gates and Draft Tube gates have also been made operational. Erection & commissioning of Intake gates & hoists and Spillway Stop log gates completed. Erection of balance HM works like, erection of Spillway Vertical gate, DC gates and Surge Shaft gate has also been completed.	- Shortage of manpower by HCC. - Power evacuation arrangement. - Plugging of Diversion Tunnel.
6.	Parbati-II 4x200 = 800 MW H.P. NHPC	2016-17	Dam- 187310 cum Dam & Inlet structure concreting out of 196977 cum completed. Head Race Tunnel- 26615 m excavation out of 31525m completed Total Overt lining: 16561 m excavation out of 31525m completed. Surge Shaft Lining: 101 m completed out of 121 m. Feeder Tunnels (Jiwa Nalah): 3441 m exc. out of 4560m done. Power House: 36102 cum concreting completed out of 53416 cum. (Progress hampered due to PH back slope failure in April, 04, June, 06 & Feb.07). E&M Works: Work of power house was suspended due to slide of backhill slope has been resumed and presently concreting is in progress. Erection of pit liner for all four units completed. HM Works: Supply of HM components is in progress. Erection of ferules in both Vertical Pressure Shafts completed and same in progress for Horizontal portion and Penstocks.	-Slow progress of excavation of HRT due to poor geological strata especially in Face-4 being excavated by TBM. - Rock busting phenomena in Face-III in HRT. - Ban on use of aggregate by Hon'ble High Court of H.P. - Contractual issues. - Flash flood on 16 th Aug,11. - Contract of Lot PB-2 works terminated on 09.03.2012. Re-tendering for balance works under process.
7.	Parbati-III 4x130 = 520 MW H.P. NHPC	2012-14	Rockfill Dam: Plunge Pool excavation: 139200 cum completed out of 169550 cum. Head Race Tunnel: Overt Lining (Face 2 to 6): 7542 m concreting completed out of 7863 m. Invert Lining (Face 3 & 4): 1460 m concreting completed out of 3906 m. Surge Shaft- 141.5 m concreting completed out of 147 m. Vertical Pressure Shaft I&II: 536 m of steel liner erection completed out of 620 m. Tail Race Tunnel- 1062 m D/S Overt Conc. out of 1094 m completed. Power House: Concreting of surge chamber, Machine Hall of Unit-III & IV has been completed. E&M Works: Scroll case erection completed in all Units. In Unit-1 & 2, erection of Turbine is in progress. Lowering of Rotor and Stator of Unit-1 in pit completed. HM Works: D&E works in progress by M/s Om metals-SPML (JV). Erection of steel liners for Pressure Shaft is in progress. Erection of Spillway Radial Gates has been completed and testing & commissioning in progress and to be completed in Feb'12.	-Construction of Sainj By-pass road. -Poor geology in HRT - Delay in award of E&M works due to decision on participation of Chinese companies. - Stoppage of work by local w.e.f. 01.07.2011. - Contractual issues. - Flash flood on 16 th Aug,11.
8.	Kol Dam NTPC 30.6.2002/Oct.2002 4x200 = 800 MW Broad Features : Dam – 163m High, Rock & Gravel fill Penstock Tunnel: 4nos. 6.45m dia, 1600m long P.House- Surface Turbine- V. Francis Cost: <u>Original:</u> 4527.15 <u>Latest:</u> 4527.15	<u>H.P.</u> <u>NR</u> <u>CS</u> Execution 2008-10 2013-14	Gravity Dam: Excavation in Dam area completed. Excavation in Spillway area 121.90 lac cum out of 127.88 lac cum has been completed. Main Dam: 104.98 lac cum filling completed out of 126.22 lac cum. Clay filling – 18.03 lac cum out of 21.72 lac cum completed. Other materials filling – 86.95 lac cum out of 104.50 lac cum completed. Spillway concreting: 3.58 lac cum concreting completed out of 4.81 lac cum. Power Intake Concreting: 57847 cum out of 63400 cum has been completed. Power House-: 113442 cum primary conc. out of 121162 cum and 21084 cum secondary conc. Out of 21085 cum have been completed. Unit-1: Boxed up. Unit-2: Boxed up.	- Clay/earth filling of main dam. - Grouting of dam galleries. - Concreting of spillway. - Contractual issues.

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			Unit-3: Boxed up. Unit-4: Erection of turbine completed. Penstock: Erection of penstock liners completed. Erection of D/T gate of one unit completed. Erection of Power Intake gates for all units is in progress. Erection of Generator Transformer completed for all four units.	
9.	Ram Pur (SJVNL) SJVNL 16.12.2005/25.01.07 6x68.67= 412 MW Broad Features: HRT-10.5m x 15.08Km S.Shaft- 38m x 149m P.House- Surface Turbine- Francis Switchyard – 400 kV Cost: Original: 2047.03 Latest: 2047.03	<u>H.P.</u> <u>NR</u> <u>CS</u> Execution <u>2011-12</u> 2013-14	HRT: Heading excavation works are almost completed and lining is in progress. Surge Shaft (40 m dia): Excavation completed and 133m concreting has also been completed out of 165 m. Erection of Units: U #1: Hydro testing of spiral casing done. U #2: Hydro testing completed. U #3: Reinforcement of thrust block in progress. Grouting play welding in progress. U #4: Reinforcement of thrust block in progress. U #5: Spiral segment work is in progress. U #6: Lowering of all 14 nos. spiral casing completed & spiral inlet work is completed.	Slow progress of HRT due to poor geology.
10.	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: 2810.84 Latest: 2978.48	<u>Uttaranch</u> <u>al</u> <u>NR</u> <u>CS</u> Execution <u>2011-12</u> 2014-15	HRT from Intake D/s excavation 2041 m out of 3472m, U/S excavation 226.5 m out of 241.4 m and HRT by TBM 5625.60 m out of 8618.6 m completed. Excavation of Desilting Chamber under progress and 15.03 lakh m ³ out of 16.90 lakh m ³ completed. In TRT open exc. & tunnel excavation completed & concreting also completed. Surge shaft excavation: Surge shaft full widening completed. Penstock excavation completed. Erection of steel liner in inclined PS-I from intermediate to top completed and in PS-2 from intermediate to top also completed. E&M works: Erection of EOT crane in BF Valve completed. Pit liner erection for Unit #1 & 2 completed and for Unit #3 in progress.	- Delay in HRT work due to late deployment of TBM. (about 20 months) - Slow progress of barrage, desilting chamber & Surge shaft. - Heavy water ingress in HRT w.e.f. 25.12.2009 and excavation by TBM was affected. - Contract for barrage & desilting chamber terminated and re-tendering work is in progress.
11.	Tehri PSS, Uttarakhand THDC, Invest. Decision-18.7.06 4x250=1000 MW	<u>2011-12</u> 2016-17	EPC contract has been awarded on 23.06.11 with commencement date from 27.07.11. Pre-construction activities and construction of approach adits to various underground works are in progress.	
12.	Teesta Low Dam-III 4x33 = 132 MW W.B. NHPC	2013-14	Dam Cellular wall concreting: 65248 cum concreting completed out of 67315 cum. Barrage- Barrage Blocks I to II: 59169 cum concreting completed out of 59750 cum. E&M Works: Unit-1: Unit axis alignment and Box-up completed. Erection of auxiliaries is in progress. Unit-2: Unit axis alignment and Box-up completed. Erection of auxiliaries is in progress. Unit-3: Unit axis alignment and Box-up completed. Erection of auxiliaries is in progress. Unit-4: Unit axis alignment & Box up completed. Erection of auxiliaries in progress. Erection of GIS Equipment and Pothead Yard Equipment is in progress. Erection of generator transformer of Unit-1 & 2 in progress. Hydro-Mechanical Works: Erection of Penstocks completed. Erection of all intake service gate completed. ET&C of spillway stoplog Bay S-3, S-5, S-6 & S-7 completed. Erection of Radial gate in Bay No.-3, 4, 5 & 7 completed and same is under progress for Bay-1, 2 & 6. Erection of Intake stoplog Gantry crane completed and erection of Intake Stoplog gates is in progress. Erection of Draft tube gantry crane completed and erection of Draft Tube Gates is in progress.	-Delay in forest clearance -Slope failure in Power House and Intake area. - Frequent interruption of works due to GJM agitation. - Flash floods in the year 2007 & May, 2009. -Inadequate labour at site. - Concreting of barrage bays 1 & 2 and associated HM works are critical. - Breaching of coffer dam during monsoon (July/August, 2010) and barrage bays 1&2 inundated and flooded.
13.	Teesta Low Dam-IV 4x40 = 160 MW	2014-15	Power House: 110638 cum concreting completed out of 133314cum.	-Delay in forest clearance - Frequent interruption of

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	W.B. NHPC		Excavation of RCC Dam: 157250 cum completed out of 290000 cum. E&M Works: Design/Engineering in progress by M/s BHEL. Erection of EOT crane completed in service Bay. Erection of Draft Tube Liner in all units completed. Erection of Spiral case in Unit-1, 2 & 3 completed and is under progress for unit-4. Turbine assembly erection & rotor assembly erection for Unit #1 is under progress at Service Bay. HM Works: Design/Engineering in progress by M/s Om Metals. 81.5% erection of Radial gate in Bay-1 to 7 completed. 19% erection of Silt Flushing Gate completed. Erection of penstock liner completed. Erection of Intake gates is in progress.	works due to GJM agitation. - Flash floods in the year 2007, May, 2009 and July/August. 2010.. - Works held up at site from 10.05.2010 to 19.07.2010 due to local issues.
14.	Subansiri Lower 8x250= 2000 MW Ar. Pradesh/Assam NHPC	2016-17	Diversion tunnel: River diverted on 25.12.2007. Dam concreting: 575426 cum completed out of 1351000 cum. Intake Structure: 261377 cum concreting completed out of 283000 cum. Head Race Tunnel (I-VIII): 7050 m heading excavation completed out of 7124 m. 4279 m benching excavation completed out of 7124 m. 3199 m concrete lining completed out of 7124 m. Surge Tunnels (8 nos.): 3109 m heading excavation completed out of 3545 m. Pressure Shaft- Vertical Pressure Shaft Slashing: 199 m excavation out of 384 m completed. Surface Power House: Concreting: 124887 cum out of 302600 cum completed. E&M Works: Draft Tube Elbow erection (1 to 6) in unit-1 Completed.. Draft Tube Elbow erection (2 to 6) in unit-2 completed. Turbine, Stay Ring and Spiral case erection in unit-1 & 2 completed. No progress during the month. HM Works: Erection of diversion tunnel gates 23% completed. Erection of Intake: Unit # 5 – 2% completed. Erection of Intake: Unit-7 & 8 – 20% completed. Erection of diversion tunnel Gate – 23% completed. Out of total 1594m, 201 m pressure shaft steel liner erected. No progress during the month.	- Signing of MoU with State Government of Assam. - Washing away of coffer dam in the year 2008. - Slope failure of power house in January, 2008. - Change of surge shaft to surge tunnels. - Law & Order problem. - Damage to bridge at Ranganadi river. - Cut-off wall issue. - Issue of downstream Impact Study & demand for stoppage of works by anti dam activities. - No progress at site due to shortage of diesel. Also due to agitation by activities against construction of project since 16.12.2011.
15.	Kameng NEEPCO 02 12 2004 /4x150 = 600 MW Broad Features: Dam :Bichom-75m High, 247.3m long. Tenga – 25.0 High, 103m long. HRT- 6.7m dia, 14.477km. High Pressure Tunnel (HPT)Total length 3.64 km Surge Shaft: 25m dia, 70m H Penstock- 2x 4m P.House- semi-U/G Turbine- Francis Cost: <u>Original:</u> 2496.90 Latest: 2496.90	<u>Ar.</u> <u>Pradesh</u> <u>NER</u> <u>CS</u> Execution <u>2009-10</u> <u>2016-17</u>	Bichom Dam: Excavation (including intake) (R) 590668/611546 cum and Concreting 8082/ 357490 cum completed. Tenga Dam: Excavation 104850/135000 cum and Concreting 6130/92850 cum completed. HRT: Excavation: 10630.60/14477.50 RM completed. Surge Shaft: Open excavation and boring completed, Lining: 58.50/70 RM completed. HPT: Boring of vertical portion 343.33/346.40 RM completed & horizontal portion 1430.91/1684.12 RM completed. Open excavation of surface penstock 310287/407504 cum completed. Power House: Excavation 1078565/1214865 cum completed. Concreting 28124/75600 cum completed. HM Works & Penstock: Fabrication & erection of penstock steel liner and HM works are in progress. Electro-mechanical works: Unit #1: Placing of DT bend liner completed. Assembly of DT drain box and drain pipe completed. Unit #2: Earthing of Pit completed.	- Length of dam increased from 247.3m to 264.15m. Diversion arrangement modified. - Delay in construction drawings from consultant i.e. SMEC. - Slow progress in Dam & HRT due to various reasons i.e. Bad geology, heavy seepage, in adequate machinery at site etc. - Work suffered due to flash flood in Oct. 08. - Contractual issues.

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16.	Pare NEEPCO/4.12.2008 2x55 = 110 MW	<u>Ar. P</u> <u>NER</u> <u>CS</u> Execution <u>2012-13</u> <u>2014-15</u>	Dam: Excavation 115125 cum out of 391131 cum completed. Diversion Tunnel: Excavation completed. Surge shaft: Boring of surge shaft 50 m out of 59 m completed. HRT Face-I- excavation 591/778 m, & Face-II excavation 600/1038 m & Face-III excavation 92.5/1012 m completed. High Pressure Tunnel: Excavation is in progress. Power House: Excavation 119406/125000 cum completed. Concreting 6744/35000 cum completed.	
17.	Tuirial NEEPCO 2x30= 60 MW Revised CCEA 14.01.2011	<u>Mizoram</u> <u>NER</u> <u>CS</u> Execution <u>2006-07</u> <u>2015-16</u>	Works resumed. Main Dam: Excavation 71600 cum out of 440000 cum completed. Spillway: Excavation 1574801 cum out of 1824159 cum completed. Power House & Switchyard: Open excavation 114330 cum out of 260000 cum & concreting 40 cum out of 19225 cum has been completed.	Works suspended earlier due to local unrest since June, 04.
State Sector				
18.	Baglihar-II JKPDC 3x150= 450 MW	<u>J&K</u> <u>NR</u> <u>SS</u> Execution <u>2014-15</u> <u>2016-17</u>	Some works already undertaken with Baglihar-I. Works have been awarded.	
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: <u>Original: 431.56</u> <u>Latest: 431.56</u>	<u>H.P.</u> <u>NR</u> <u>SS</u> Execution <u>2006-07</u> <u>2014-15</u>	Storage Reservoir: 54749 cum out of 57895 cum excavation and 35336 cum out of 43700 cum concreting completed. HRT: 812 m out of 1358 m excavation completed. Surge Shaft: Completed Penstock: Excavation (151685 cum out of 155000 cum) is in progress and 27860 cum out of 35300 cum concreting completed. Power House and Tail Race: 26267 out of 32500 cum excavation completed and 9007 cum out of 12050 cum concreting completed. E&M: Unit #1, #2 & #3: Erection of stay ring & spiral casing of all the units has been completed.	- Poor geology in HRT. - Cancellation of contract for HRT twice.
20.	Kashang-I H.P. Power Corpn. Ltd. 31.07.08 65 MW	<u>H.P.</u> <u>NR</u> <u>SS</u> Execution <u>2012-13</u> <u>2014-15</u>	Trench Weir: 3408 cum concreting completed. HRT: Out of 2 km length, 456 m excavation is balance. Pressure Shaft: Out of 1346 m length, 156 m excavation is balance. E&M works: Laying of earth mat is in progress. Model test completed. Power House & Transformer hall concreting is in progress. TRT concrete lining 25 m out of 335 m completed.	
21.	Kashang-II & III H.P. Power Corpn. Ltd. 1x65 + 1x65= 130 MW	<u>H.P.</u> <u>NR</u> <u>SS</u> Execution <u>2013-14</u> <u>2015-16</u>	Works on HRT (K.K. link tunnel) & Intake structure at Keray Khad could not be started due to continuous agitations by Lippi villagers. Matter is being persuaded at higher level.	
22.	Sainj H.P. Power Corpn. Ltd. 100 MW	<u>H.P.</u> <u>NR</u> <u>SS</u> Execution <u>2013-14</u> <u>2014-15</u>	HRT: Excavation of Adit-I – U/S & D/S 1531 m works are balance out of 3153 m and excavation of Adit-II 351 m out of 365 m is balance. Main Access Tunnel to Power House excavation is completed. Power House: Benching from EL 1360.2 m ³ to Service Bay EL 1347.8 m ³ , 24000 m ³ out of 45000 m ³ work is completed. TRT: 40m out of 356m excavation completed.	
23.	Swara Kuddu	<u>H.P.</u>	HRT:	- Works badly suffered due to

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	H.P. Power Corpn. Ltd. HPSEB Clearance: 10.11.2004 3x37= 111 MW Broad Features: Diversion Structure: 10.45m high Piano Key Weir. HRT- D-Shaped, 5m dia, 11.145Km long. Power House- Under ground Turbine- 500 rpm vertical francis. Switchyard: 220 Kv. Cost: <u>Original: 558.53 (03/03)</u> Latest: 721.71 (02/08)	<u>NR</u> SS Execution <u>2010-11</u> 2014-15	9305 m out of 11404 m excavation of HRT completed and 590.5 m out of 11404 m concreting is completed. Power House: Lining works of MAT 250mm thickness, 37m out of 239m completed. E&M Package: Approval of design memorandum is in progress. Erection of DT liner in Power House is in progress.	encounter of poor geology.
24.	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 power generation. Intake Tunnel: Dia – 7.20 M Length – 235.5 M (including Lake tab) HRT: Dia – 7.20 M Length – 80 M Penstock – 2 nos. Dia – 2.9 M Length – 10 M each P.House – Underground Turbine – Reversible	<u>Mah</u> <u>West</u> <u>S.S.</u> Execution <u>2014-15</u> 2014-15	Civil Works: Construction of approach tunnel, ventilation tunnel & Power House are under progress. Approach Tunnel: Excavation in over burden completed and that of hard rock is in progress. Out of 11097 cum of hard rock, excavation 423 cum has been completed. Ventilation tunnel: Excavation in over burden and that of hard rock completed. Excavation in underground power house is in progress. Out of 6356 cum of under ground power house excavation, 5360 cum has been 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. The delivery of equipments is expected to start shortly.	
25.	Nagarujana Sagar TR APGENCO 17 01 05 2x25=50 MW Broad Features: Dam –29.5m High Spillway- 21nos gate Penstock- 2x 5.35m P.House- Surface Turbine- V. Kaplan Cost: <u>Original: 357.63</u> Latest: 464.70	<u>A.P.</u> <u>SR</u> <u>SS</u> Execution <u>2008-09</u> 2014-15	Civil works: Main Dam: Excavation at dam area is completed and 404987/489560 (82.7%) cum concreting completed. P.H. Civil works: Excavation completed in PH area and 46400/64500 (72%) cum concreting completed. EOT Crane: EOT crane commissioned. Unit Erection: Unit-1- Spiral casing erected & tested. Alignment of Runner envelop completed. Unit-2- Erection of spiral casing completed. H&M works re-awarded to GTV-PES (JV) on 11.5.2009. Fabrication of all 20 radial gates completed. Erection of 1225 MT against 7870 MT completed.	- Slow progress in Construction of dam and associated HM works. - Delay in Award of HM works. - unprecedented floods on 01.10.2009 - unprecedented floods on 05.09.2011
26.	Lower Jurala APGENCO, A.P. TEC in July 2007 6x40=240 MW (120 MW likely to slip) Broad Features: Intake: 18 vents (3 vents for each unit) 4.7m width, P.House- Surface, Turbine- Bulb Design Head- 20m	<u>AP</u> <u>SR</u> <u>SS</u> Execution <u>2011-12</u> 2014-16	Excavation for approach channel, Intake pool, Power house pit completed. Weir: 388776/416700 cum excavation done. 115380/157000 cum concreting completed. Power House: 130981/160000 cum concreting done. Unit Erection: Unit #1: Stay cone concreted.. Assembly of Stator, Rotor & distributor in progress. Unit #2: Erection stay cone completed. Assembly of stator is in progress. Unit #3 to 5: Erection of draft tube completed.	- Delay in award of E&M works. - Slow progress of civil works. - Floods in October, 2009. - Floods in 2010. - Frequent bandh by TJAC for Telangana State.

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	SWYD- 220 kV Cost: <u>Original: 908.34</u> Latest: 908.34			
27.	Pulichintala APGENCO 120 MW (4x30 MW) 25.04.2007 Broad Features: Design Head: 24 M Power House: Surface Turbine : V. Kaplan Annual Energy: 220 MU Cost: <u>Original: 380 Crs.</u> Latest: 396 Crs.	<u>A.P.</u> <u>SR</u> <u>SS</u> Execution <u>2010-11</u> 2015-17	Dam is under construction by Irrigation Department. Dam concreting works are in progress and about 50% concreting is completed. Power House: The excavation of power house completed and 64729/106600 cum concreting done. E&M Works: Materials are being received progressively at site from BHEL. Unit #1 & #2: Erection of draft tube completed and release for concreting. Unit #3: Extension of draft tube air vent pipes completed. Unit #4: Laying of draft tube drain pipes completed.	- Slow progress of Dam. - E&M works need to be expedited. - unprecedented flood on 02.10.2009. - unprecedented floods on 05.09.2011. - Works standstill since Septemebr, 2011 due to Contractual issues.
28.	Pallivasal KSEB 2x30= 60 MW Broad Features: HRT: 3.50m X 3396m Surge Shaft: 7.0m X 49m Pressure Shaft: 2.50m X 1019.20m Penstock: 2.00mX1161.20m Power House: Surface Turbine : Pelton S.Yard: 220kV – Single bus Cost: Original: 242.95 + US\$ 57M	<u>Kerala</u> <u>SR</u> <u>SS</u> Execution <u>2010-11</u> 2014-15	Weir: Excavation –10833/19700 cum. Concreting 1024/7340 cum. Intake structure: Excavation – 28398/33492 cum completed. HRT: Excavation –2859/3330 m completed. Overt conc. 1634/3330 m completed. Invert Conc.. – 1523/3330 m completed. Surge Tank/Forebay: Excavation –6304/13400 cum. Concreting 306/843 cum. Pressure Shaft: Excavation- 1075/1092 m. Surface penstock : Excavation –96406/122600 cum. Concreting 6918/11375 cum. P.H.: Excavation- 54831/64408 cum.. Concreting – 774/9975 cum. Tail race Tunnel: Excavation completed. Lining 40/91 m done. E&M Equipment: 79% supply cpmpleted.	- Works are getting affected due to poor maintenance of machineries by contractor. - Land acquisition problem for penstock. - Slow progress of civil works. - Change in alignment of Adit to HRT. -Poor Geology in HRT.
29.	Thottiyar KSEB 1x30 + 1x10= 40 MW Cost: <u>Original: 14400 lakhs</u> Latest: 14400 lakhs	<u>Kerala</u> <u>SR</u> <u>SS</u> Execution <u>2013-14</u> 2015-16	Civil Works: Weir: 2544 cum excavation out of total 5850 cum completed. Approach Channel & Intake: 2749 cum out of 9100 cum done. Power House, switchyard & allied works: 24300 cum excavation out of 44500 cum and 409 cum concreting out of 15675 m done. E&M and HM Works: Design and supply are in progress.	The work of weir & approach channel was stopped due to land acquisition issues by local people. Works resumed during February 2012.
30.	Bhawani Kattalai Barrage-II 11.6.99 2x15 = 30 MW Broad Features: Barrage –22 gates P.House- Surface Turbine- Bulb Cost: <u>Original: 99.15</u> Latest: 400.59	<u>Tamil Nadu</u> <u>SR</u> <u>SS</u> Execution <u>2006-07</u> 2012-13	Civil & HM works: Works of barrage and Power House are completed. E&M works: U #1: Unit was synchronized with the grid on part load due to non availability of FRL on 28.07.2011. U #2 : Unit was synchronized with the grid on part load due to non availability of FRL on 29.09.2011 . Units could not commissioned at full load due to non-availability of desired reservoir level/lean period of inflow in the river. Units are likely to be commissioned at full load during June, 2012.	Reservoir filling. Level raised in the reservoir is EL147.25m against FRL of 148.25. Full load Commissioning at full load held up due to non-availability of Full Reservoir Level.
31.	Bhawani Kattalai Barrage-III 27.03.02 2x15 = 30 Broad Features: Barrage –22 gates P.House- Surface Turbine- Bulb Cost: <u>Original: 99.75</u> Latest: 398.60	<u>Tamil Nadu</u> <u>SR</u> <u>SS</u> Execution <u>2006-07</u> 2012-14	Civil & HM works: Works of barrage and Power House are almost complete. E&M works: About 94% works completed. U #1: Draft tube, Stay ring, TG shaft & distributor erection completed. Rotor lowered & fixing is in progress. U #2: Draft tube, Stay ring, & TG shaft erection completed.	
32.	Myntdu, Unit-3 MeSEB	<u>Meghalaya</u> <u>NER</u>	All civil & HM works completed. Generating Unit:	Delay in commissioning due to flash flood on 20.05.2010.

Sl. No	Name of Project Executing Agency Date of CEA clearance / Approval Capacity (MW) Broad Features Cost (original/latest)	State Region Sector Status Commng. Schedule (original/ Now Ant.	Broad Present Status	Remarks/issues
	20.09.99/ 2x42+1x42 = 126 MW Broad Features: Dam –63m High HRT- 3316.46mx3.4m dia Power House- Surface Turbine- V. Francis Cost: <u>Original: 363.08</u> Latest: 965.93	<u>SS</u> Execution <u>2006-07</u> 2012-13	Unit #3: Generator barrel constructed. Stator & rotor assembly in progress.	
33.	New Umtru MeSEB, 2x20=40 Broad Features: Diversion Structur-Gated structure (FRL-130.1m, MDDL-123.3m) HRT- 5m dia, 750m long P.House- Deep Set SWYD- 132 kV Cost: <u>194.3 Cr.</u> 194.3 Cr.	<u>Meghalay</u> <u>aNER</u> <u>2011-12</u> 2014-15	Surge shaft: Open excavation completed and 24 m deep completed out of 34.5 m. HRT: Excavation 633 m out of 753 m completed. TRT: Excavation 600 m out of 702 m completed.	Slow progress of civil works.
	Private			
34.	Budhil Lanco Green Power Pvt Ltd 1.06.2005/ Jan, 06 (FC) 2x35=70 MW Broad Features: Dam-58m High HRT-4m x 6028m\House- underground Turbine- V. Francis Cost: <u>Original: 418.80</u> Latest: 418.80	<u>H.P.</u> <u>NR</u> <u>PS</u> Execution <u>2008-09</u> 2012-13	All civil and HM works including E&M works almost completed. Water conductor system filled up. Unit #1: Mechanical run completed on 01.01.2012. Unit #2: Mechanical run completed on March, 2012.	Power evacuation arrangement is critical.
35.	Sorang Himachal Sorang Power corporation Ltd. June, 2006/ 2x50= 100 MW	<u>H.P.</u> <u>NR</u> <u>PS</u> Execution <u>2012-13</u> 2013-14	HRT excavation has been completed and 261 m out of 1455 m lining done. Penstock: Excavation have been completed. E&M works: Excavation of both the units is in advance stage of completion.	- Difficult area, accessibility and availability of working period. - Cavity formation in HRT. - All construction activity on critical path are completed upto end of July, 2012.
36.	Tangnu Romai-I M/s Tangu Romai Power generation 2x22= 44 MW 30.11.2007 HPSEB	<u>H.P.</u> <u>NR</u> <u>PS</u> Execution <u>2014-15</u> 2015-16	Civil works awarded.	
37.	Shrinagar GVK Industries Ltd. 14/06/2000/ FC 4x82.5=330 Broad Features: Dam –66.5m High, concrete gravity HRT- 13m x 889m Penstock-4x 5.6m x 114m P.House- Surface Turbine- Francis	<u>Uttarakha</u> <u>nd</u> <u>NR</u> <u>PS</u> Execution <u>2005-06</u> 2013-14	Dam excavation (100%) completed. Concreting 67% done. HRT excavation completed and lining 53% completed. Power Channel excavation completed and concreting 56% completed. Surface penstocks: Excavation completed. Concreting 7% completed. Penstocks 94 % completed. Power House excavation completed and concreting in progress.. Unit Erection: Unit # 1; Erection of stay ring & spiral casing is in progress. Unit #2: Stay ring alignment completed. Unit #3: Draft tube erection in progress.	- Concreting of dam is critical. - Desilting chamber is critical. - Local issues. - Ministry of Environment & Forests, Govt. of India has issued stop notice for works from 30.05.2011.

Sl. No	Name of Project Executing Agency Date of CEA clearance / Approval Capacity (MW) Broad Features Cost (original/latest)	State Region Sector Status Commng. Schedule (original/ Now Ant.	Broad Present Status	Remarks/issues
	Cost: Original: 1699.12 Latest: 2069.00		Unit #4: Draft tube erection in progress.	
38.	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 Pressure Shaft: 2.5m dia, 662.25 m length Turbine – Frances	Uttarakhand NR PS Execution <u>2013-14</u> 2013-14	Diversión Tunnel: River diverted. Dam concreting: 13711/20000 cum concreting completed. P.H.: Heading excavation & MAT completed. Excavation of Horizontal pressure shaft completed. Benching under progress. HRT: Excavation 6643/9228 m completed. Excavation of Intake-I & Intake-II completed and lining in progress.	
39.	Singoli Bhatwari M/s L&T 11.07.2008 3x33 MW = 99 MW Broad Features:	Uttarakhand NR PS Execution <u>2015-16</u> 2015-16	River diversion – Excavation 180/230 m completed & concreting 160/230 m completed. Dam & Dykes/Barrack: Excavation 40721/87559 cum and concreting 21199/91457 cum completed. HRT: Excavation 5201/11255 m completed. Pressure Shaft: Excavation 348.5/485 m completed. PH: Excavation 12000/57846 cum completed.	
40.	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: 2449.20	M. P. WR PS Execution <u>2001-02</u> 2013-15	Civil & HM Works: All major civil works completed. Civil works in power house area is progressing as per erection of various units. All 27 nos of radial gates commissioned. Unit Erection: Unit-10: Initial spinning achieved on 14.10.2011. Unit-9: Ready for spinning. Unit-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 are in various stages. Works suspended by BHEL in Nov-11 due to cash flow problem with developer.	Cash flow problem. R&R issues.
41.	Chujachen Gati Infrastructure Ltd, Secunderabad 30.11.2004 (State Govt.)/ 2x49.5= 99 MW Broad Features: Dam – Rampo- 48.5m High Rongli- 41m High HRT- Rampo-3.3m x 2578m Rongli-3.5m x 2256m Common-5.2m x 3225m S. Shaft-12m x 104m P.House- Surface Turbine- V. Francis Cost: Original: 448.76 Latest: 927.00	Sikkim ER PS Execution <u>2009-10</u> 2013-14	Rongli Dam: All excavation & concreting works completed. Rangpo Dam: Excavation completed and concreting 80901/82000 cum completed. HRT: Excavation almost completed. Invert lining work 5224/7920 m completed. 5969/7920 m overt lining completed. BF Valve: Excavation completed and concreting 616.5/900 cum completed. Pressure Shaft: Excavation completed. Erection of steel liners completed. Concreting & Grouting completed. Surface Penstock: Excavation completed. Erection 640.75/645 m completed. H&M works: TRT – Excavation & lining completed. Units: Both units boxed up. Switchyard 11/132 kV: Completed.	- Flash flood on 16.04.2009 washing away Rangpo coffer dam. - Slow progress in HRT lining works.
42.	Teesta-III Teesta Urja Ltd. (TUL) 12.05.2006 6x200=1200 MW Broad Features: Dam-Concrete with chute spillway 60m high. HRT- 7.5m dia, 13.325Km long. Press. Shaft- 3nos. 3.8m dia.	Sikkim ER PS Execution <u>2011-12</u> 2013-15	Dam: CFRD, 8.90 lacs cum material placed out of 12.7 lacs cum. HRT: Excavation completed. 5.724 km lining completed. Excavation of all the access tunnels to the Machine Hall, GIS hall & TRT completed. TRT: Excavation completed. Concrete lining is in progress. Surge Shaft: 81 m of Pilot completed from bottom. Pressure shaft excavation: Inclined portion and Horizontal portion completed for both the shafts. Excavation of vertical pressure Shaft-1 completed and Shaft-2 is in progress. Erection of steel liner is in progress. Power House: Excavation completed. Excavation of Transformer	Considering the recent earth quake in Sikkim and the status of balance works, commissioning of all the 6 units are expected by 2012-13.

Sl. No	Name of Project Executing Agency Date of CEA clearance / Approval Capacity (MW) Broad Features Cost (original/latest)	State Region Sector Status Commng. Schedule (original/ Now Ant.	Broad Present Status	Remarks/issues
	Power House- Under ground Turbine- Pelton Cost: <u>Original: 5705.55 Crs.</u> Latest: 5705.55 Crs.		cavern completed. EOT crane commissioned in the Power House. Erection of E&M equipments are under progress.	
43.	Tidong-I M/s NSL Tidong Power Gen. Ltd. 100 MW 23.07.2007	<u>H.P.</u> <u>NR</u> <u>PS</u> Execution <u>2013-14</u> <u>2015-16</u>	Infrastructure & Pre-construction activities are in progress. Excavation of Adits, HRT has been started.	
44.	Teesta-VI LANCO 27.12.2006 4x125= 500 MW Cost: <u>Original: 3283.08</u> Latest : 3283.08 Broad Features: Barrage: 34.27m high HRT- 2nos,13.7km long Pressure shaft: 4nos. 5.4m dia. 130m av length, TRT: 4nos 250m av length, 8.5m dia. PH- Under ground Turbine- Francis	<u>Sikkim</u> <u>ER</u> <u>PS</u> Execution <u>2012-13</u> <u>2015-16</u>	Barrage and Desilting: Excavation 831179.55/1691640 cum & concreting 143667/357563 cum completed. HRT: Excavation 968346/2447447 cum completed & concreting 159494/680562 cum completed. Surge Tank: Excavation 124357/278183 completed & concreting 4193/54873 cum completed. Pressure Shaft: 56700/65665 cum. completed. Excavation of Main access Tunnel, ventilation Tunnel, Adit to Transformer cavern, cable tunnel and Adit to BFV chamber completed. P.H. Excavation: 122775/133154 cum completed & concreting 20022.27/44578 cum completed. Transformer Cavern: Excavation 41095/47678 cum completed & concreting 136/7101 cum completed. TRT: 81285/354714 cum completed. Lining 20176/43725 cum completed. Cable Tunnel & Trenches: Excavation 6322/8430 cum completed.	
45.	Rangit-IV Jal Power corp. Ltd. 06.07.2007 3x40= 120 MW Cost: <u>Original: 726.17 Crs.</u> Latest : 726.17 Crs. Broad Features: Dam: Concrte gravity 44m high .HRT :6.5km long 6.4m dia Power House : Surface Turbine: Francis HRT- 2nos,13.7km long Pressure shaft: 4nos. 5.4m dia. 130m av length, 13.325Km long. TRT: 4nos 250m av length, 8.5m dia. Power House- Under ground Turbine- Francis	<u>Sikkim</u> <u>ER</u> <u>PS</u> Execution <u>2012-13</u> <u>2014-15</u>	Dam & Intake works: Excavation 197048/156000 cum completed. Excavation of road diversion tunnel has been completed. HRT: Adit-1 & Adit 2 excavation completed and HRT excavation in progress and 2162m/6488 m completed. Surge Shaft: Excavation has been completed. Power House: The work of approach road to power house completed.	Work hampered due to earthquake in September, 2011.
46.	Jorethang Loop M/s DANS Energy 96 MW 2x48 = 96 MW	<u>Sikkim</u> <u>ER</u> <u>PS</u> Execution <u>2013-14</u> <u>2014-15</u>	Tunneling construction work is in progress at adit, Barrage and power house area. HRT: Excavation 3252m/6718 m completed. Surge Shaft: Excavation is in progress. Power House: Excavation in the pit completed. HM Works: Fabrication & erection of under sluice, Intake Gates, Intake Trashrack completed. Fabrication & erection of surge shaft gates are under progress. Assembly of MIV for unit #1 has been completed and for unit #2 is in progress.	

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47.	Bhasmey Gati Infrastructure 2X25.5= 51 MW	<u>Sikkim</u> <u>ER</u> <u>PS</u> Execution <u>2014-15</u> 2014-15	Forest clearance under process. Commencement of land acquisition started. Diversion tunnel excavation under progress.	
48.	Tashiding M/s Shiga Energy Private Ltd. 2x48.5 = 97 MW	<u>Sikkim</u> <u>ER</u> <u>PS</u> <u>Execution</u> <u>2013-14</u> 2014-15	Civil & Hydro mechanical works awarded to M/s Bumi Geo Engg. Pvt. Ltd. E&M works awarded to M/s ALSTOM Projects India Ltd. Adit-1, 2 & 3 to HRT are in progress. Power House: Excavation works is in progress. Shotcreting is also in progress.	
49.	Dikchu Sneha Kinetic Power Projects Pvt. Ltd. 21.10.2011 3x32= 96 MW Cost: Original: Rs. 639.57 Crs.	<u>Sikkim</u> <u>ER</u> <u>PS</u> <u>Execution</u> <u>2015-16</u> 2015-16	EPC contract package has been awarded on 22.03.2011. Infrastructure works completed. Main works is being taken up.	
50.	Rangit-II Sikkim Hydro Power Limited 2x33= 66 MW	2016-17	EPC contract awarded to M/s Coastal in February, 2012.	
51.	Rongnichu Madhya Bharat Power Corporation Ltd. 2x48= 96 MW	2015-16	Civil works awarded to M/s SEW and E&M works awarded to M/s Voith India. Pre-construction works and excavation of adits are in progress.	