

## Chapter -11

### DETAILS OF UNDER CONSTRUCTION HYDRO ELECTRIC PROJECTS (ABOVE 25 MW) HAVING TIME/COST OVERRUN ( Oct ~ Dec 2017 )

Sl. No	Project Name/(I.C.)/ Executing Agency	State	Unit No.	Cap. (MW)	Org. Comm. Sched.	Rev. Comm. Sched.	Ant. Comm. Sched.	Time over run (months )	Org. Cost (Rs. in Crores)	Rev. Cost (Rs. in Crores)	Latest/ Ant. Cost (Rs. in Crores)	Cost over run (Rs. in Crores)	Reasons for time and cost over run
1	2	3	4	5	6		7	8	9		10	11	12
	<b>CENTRAL SECTOR</b>												
1	Tapovan Vishnughad (4x130 = 520 MW) NTPC	Uttara khand	1 2 3 4	130 130 130 130	2012-13 2012-13 2012-13 2012-13 (Mar'13)	2015-16 2015-16 2015-16 2015-16 (Mar'16)	2019-20 2019-20 2019-20 2019-20 (Mar'20)	84	2978.48 (11/06)	3846.30 (01/14)	3846.30 (01/14)	867.82	<ul style="list-style-type: none"> <li>➤ Heavy water ingress due to bad geology in HRT and rock fall on TBM. TBM struck up thrice.</li> <li>➤ Flash flood in June, 2013 &amp; Aug'12 damaging coffer dam.</li> <li>➤ Termination of civil contracts for Barrage and HRT.</li> </ul>
2	Lata Tapovan (3x57 = 171 MW) NTPC	Uttara khand	1 2 3	57 57 57	2017-18 2017-18 2017-18 (Aug'17)		2022-23 2022-23 2022-23 (subject to re-start of works(4 years))	67	1527.00 (07/12)		Under revision	N.A.	<ul style="list-style-type: none"> <li>➤ Flash flood during June, 2013 in Uttarakhand.</li> <li>➤ Local issues / non-start of works in Barrage area</li> <li>➤ <b>Hon'ble Supreme court ban on construction works since May-14..</b></li> </ul>
3	Rammam-III (3x40= 120 MW)	West Bengal	1 2 3	40 40 40	2019-20 2019-20 2019-20 (Sep'19)		2020-21 2020-21 2020-21 (Mar,21)	18	1381.84 (10/14)		1381.84 (10/14)	Nil	<ul style="list-style-type: none"> <li>➤ Delay in getting permission for tree felling from Govt. of West Bengal for Access road from Adit-1 to Adit-2.</li> </ul>
4	Pare (2x55 = 110 MW) NEEPCO	Arunachal Pradesh	1 2	55 55	2012-13 2012-13 (Aug'12)		2017-18 2017-18 (Mar'18)	67	573.99 (06/07)		1337.76 (01/16)	763.77	<ul style="list-style-type: none"> <li>➤ Law &amp; Order problem.</li> <li>➤ Poor geology.</li> <li>➤ Poor approach roads.</li> <li>➤ Flash flood during Jun-Sep -2015. Dam area inundated with water, Concreting of Dam effected for 04 months.</li> </ul>
5	Kameng (4x150 = 600 MW) NEEPCO	Central	1 2 3 4	150 150 150 150	2009-10 2009-10 2009-10 2009-10 (Dec'09)		2017-18 2017-18 2017-18 2017-18 (Mar,18)	99	2496.90 (03/04)		6179.96 (03/15)	3683.06	<ul style="list-style-type: none"> <li>➤ Change in dam parameters.</li> <li>➤ Slow progress in dam &amp; HRT due to bad geology, heavy seepage, inadequate machinery.</li> <li>➤ Flash flood in Oct. 2008 and Sept. 2012.</li> <li>➤ Ingress of water in HRT.</li> <li>➤ Poor approach roads.</li> <li>➤ Contractual issues.</li> <li>➤ Shortage of aggregate.</li> <li>➤ Clearance for quarry from State Govt.</li> <li>➤ Slow Progress of works.</li> </ul>

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1	2	3	4	5	6		7	8	9		10	11	12
6	Tehri PSS (4x250 = 1000 MW) THDC	Uttara khand	1 2 3 4	250 250 250 250	2010-11 2010-11 2010-11 2010-11 (July'10)	2015-16 2015-16 2015-16 2015-16 (Feb'16) RCE-I	2020-21 2020-21 2020-21 2020-21 (Dec'20)	125	1657.60 (Dec-05)	2978.86 (Apr'10)	3939.11	2281.51	<ul style="list-style-type: none"> <li>➤ Approval of RCE as L-1 price bid was more than cost estimate. RCE approved in Nov-2011.</li> <li>➤ Cash flow problem with contractor.</li> <li>➤ Litigation by bidders.</li> <li>➤ Poor geology.</li> <li>➤ Local agitation at Asena Quarry.</li> <li>➤ Agitation at muck disposal area.</li> <li>➤ Poor preparedness of contractor.</li> <li>➤ Revision of Lay out of machine hall due to poor geology.</li> </ul>
7	Parbati - II (4x200 = 800 MW) NHPC	Himachal Pradesh	1 2 3 4	200 200 200 200	2009-10 2009-10 2009-10 2009-10 (Sept'09)		2021-22 2021-22 2021-22 2021-22 (Dec,21)	147	3919.59 (12/01)		8398.75 (03/15)	4479.16	<ul style="list-style-type: none"> <li>➤ Hon'ble High Court of Himachal Pradesh ban on stone crusher operation.</li> <li>➤ Delay in revised forest clearance.</li> <li>➤ TBM suffered extensive damage due to heavy ingress of water and slush in TBM face in Nov, 2006.</li> <li>➤ Slide in Power House area in Apr-04, Jun-06 and Feb-07.</li> <li>➤ Flash flood in 2004,2005,2010 and 2011.</li> <li>➤ Jiwa Nallah works affected due to cavity treatment.</li> <li>➤ Contractual issues.</li> <li>➤ Poor geology in HRT.</li> </ul>
8	Subansiri Lower (8x250 = 2000 MW) NHPC	Arunachal Pradesh/ Assam	1 2 3 4 5 6 7 8	250 250 250 250 250 250 250 250	2009-11 2009-11 2009-11 2009-11 2009-11 2009-11 2009-11 2009-11 (Sep'10)		2022-23 2022-23 2022-23 2022-23 2022-23 2022-23 2022-23 2022-23 (subject to re-start of works (4 years))	150	6285.33 (12/02)		18559.49 (04/17)	12274.16	<ul style="list-style-type: none"> <li>➤ Delay in transfer of forest land.</li> <li>➤ Disruption of works by locals in Ar. Pradesh side.</li> <li>➤ Slope failure in Power House in Jan, 2008.</li> <li>➤ Damage to bridge on Ranganadi river.</li> <li>➤ Change in design of surge shafts to surge tunnels.</li> <li>➤ Stoppage of works due to agitation launched by Anti Dam activists in Assam against construction of Project. Work stopped since 16.12.2011.</li> <li>➤ Issue of D/s impact studies.</li> <li>➤ Case in NGT.</li> </ul>
9	Kishanganga (3x110 = 330 MW) NHPC	Jammu & Kashmir	1 2 3	110 110 110	2014-15 2014-15 2014-15 (July'14)	2015-16 2015-16 2015-16 (Jan'16) RCE-I	2017-18 2017-18 2017-18 (Feb-18)	43	2238.67 (11/05)	3642.04 (09/07)	5882.01 (01/17)	3643.34	<ul style="list-style-type: none"> <li>➤ Approval of RCE as L-1 price bid was more than cost estimate. RCE approved in Jan.-2009.</li> <li>➤ Heavy Rainfall in March, 2011.</li> <li>➤ Cavity in HRT – TBM portion.</li> <li>➤ Poor geology in Access tunnel.</li> <li>➤ Dam works affected due to arbitration proceedings at International Court of Arbitration.</li> <li>➤ Local people demanding Employment in NHPC.</li> </ul>

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1	2	3	4	5	6		7	8	9		10	11	12
													<ul style="list-style-type: none"> <li>➤ R&amp;R Issues.</li> <li>➤ Completion of power evacuation arrangement (PGCIL)</li> <li>➤ Stoppage of works in Power House area since 09.07.2016 due to disturbance in Kashmir valley. Works partially resumed in Jan 2017.</li> </ul>
10	Vishnugad Pipalkoti (4x111 = 444 MW) THDC	Uttara khand	1 2 3 4	111 111 111 111	2013-14 2013-14 2013-14 2013-14 (Jun'13)		2020-21 2020-21 2020-21 2020-21 (Nov'20)	89	2491.58 (03/08)		3789.61 (05/17)	1298.03	<ul style="list-style-type: none"> <li>➤ CCEA approval in Aug-2008 but works could not be awarded due to Forest clearance/diversion of forest land. Forest land was acquired in January-14 and subsequently works awarded in January-2014.</li> <li>➤ Disruption of works by local people.</li> <li>➤ Cash flow problem with contractor.</li> </ul>
	<b>STATE SECTOR</b>												
11	Parnai 3x12.5= 37.5 MW JKSPDC	Jammu & Kashmir	1 2 3	12.5 12.5 12.5	2017-18 2017-18 2017-18 (Jan'18)		2019-20 2019-20 2019-20 (Mar,20)	26	640.41 (Completion cost)		640.41 (Comple tion cost)	Nil	<ul style="list-style-type: none"> <li>➤ Slow progress of works.</li> <li>➤ Delay in Land acquisition.</li> </ul>
12	Lower Kalnai 2x24= 48 MW JKSPDC	Jammu & Kashmir	1 2	24 24	2017-18 2017-18 (Sep'17)		2020-21 2020-21 (Mar,21)	42	576.87 (12/12) (Completion cost)		576.87 (12/12) (Comple tion cost)	Nil	<ul style="list-style-type: none"> <li>➤ Inadequate mobilization of man &amp; machinery by Contractor.</li> <li>➤ Delany in finalization of R&amp;R Plan.</li> <li>➤ Slow progress of works.</li> <li>➤ Funds constraints with contractor. Contractor under CDR.</li> </ul>
13	Uhl-III (3x33.33 = 100 MW) BVPCL	Himachal Pradesh	1 2 3	33.33 33.33 33.33	2006-07 2006-07 2006-07 (Mar'07)		2017-18 2017-18 2017-18 (Mar,18)	132	431.56 (09/02)		1281.52 (12/12)	849.96	<ul style="list-style-type: none"> <li>➤ Delay in transfer of forest land.</li> <li>➤ Delay in acquisition of private land</li> <li>➤ Delay in transfer of quarry sites.</li> <li>➤ Delay in award of works.</li> <li>➤ Contract for construction of HRT rescinded twice i.e. during April, 2008 &amp; July, 2010 due to slow progress and non-performance by the contractor.</li> <li>➤ Poor geology in HRT.</li> </ul>
14	Sawra Kuddu (3x37 =111MW) HPPCL,	Himachal Pradesh	1 2 3	37 37 37	2011-12 2011-12 2011-12 (Jan'12)		2019-20 2019-20 2019-20 (May,19)	88	558.53 (03/03)		1181.90 (06/09)	623.37	<ul style="list-style-type: none"> <li>➤ Delay in MOEF clearance.</li> <li>➤ Delay in award of Civil &amp; E&amp;M works.</li> <li>➤ Poor geology in HRT.</li> <li>➤ Slow progress of HRT Lining.</li> <li>➤ Contractual issues.</li> <li>➤ Contract for HRT package terminated on 9.1.14. Re-awarded in Nov,2014 to M/s. HCC.</li> </ul>
15	Shongtom Karcham (3x150 = 450 MW)	Himachal Pradesh	1 2	150 150	2016-17 2016-17		2021-22 2021-22	58	2807.83 (06/11)		2807.83 (06/11)	Nil	<ul style="list-style-type: none"> <li>➤ Shifting of Army Ammunition Depot.</li> <li>➤ Local Issues.</li> </ul>

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1	2	3	4	5	6		7	8	9		10	11	12
	HPPCL 16.08.2012		3	150	2016-17 (Mar'17)		2021-22 (Jan,22)						
16	Pulichintala (4x30 = 120 MW) TGENCO	State	1 2 3 4	30 30 30 30	2009-11 2009-11 2009-11 2009-11 (Jun'10)		2016-17 2017-18 2017-18 2018-19 (Aug,18)	Comm. 98	380.00 (2006-07)		563.49 (03/15)	183.49	➤ Delay in award of E&M works. ➤ Unprecedented floods in Oct.2009 & Sept.2011. ➤ Contractual issues. ➤ Slow progress of Power House works. ➤ Delay in Commission due to non-availability of water.
17	Pallivasal 2x30 = 60 MW KSEB	Kerala	1 2	30 30	2010-11 2010-11 (Mar'11)		2020-21 2020-21 (Dec,20)	117	222.00 (2004)		284.69 (2007)	62.69	➤ Slow progress of civil works. ➤ Delay in land acquisition. ➤ Change in alignment of Adit to HRT. ➤ Poor geology strata in HRT. ➤ Heavy Monsoon ➤ Works stopped by contractor since 28.1.15 due to contractual issues.
18	Thottiyar (1x30+1x10)= 40MW KSEB	Kerala	1 2	30 10	2012-13 2012-13 (Apr'12)		2020-21 2020-21 (subject to re-start of works(3 years))	107	136.79 (2007)		150.02 (2007)	13.23	➤ Land acquisition issue. ➤ The works of weir and approach channel stopped from 2010 to 2012 by local people. ➤ The work stopped by Court from 12.12.2012 to April-2013. ➤ Contractual issues. ➤ Financial crunch with contractor.
19	Shahpurkandi 3x33+3x33+1x8 =206 MW, Irrigation Deptt. &PSPCL	Punjab	1 2 3 4 5 6 7	33 33 33 33 33 33 8	2015-16 2015-16 2015-16 2015-16 2015-16 2015-16 2015-16		2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 2020-21 (subject to re-start of works(4 years))	60	1835.50 (04/08) (Power Component)		1835.50 (04/08) (Power Component)	Nil	➤ 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 and Tariff.
20	Koyna Left Bank PSS 2x40 = 80 MW WRD, Maha	Maha rashtra	1 2	40 40	2014-15 2014-15 (Oct'14)		2019-20 (subject to re-start of works (4 years))	65	245.02 (1999)		1494.94 (2014)	1249.92	➤ Slow progress of works. ➤ Fund constraints due to increase in project cost. RCE under approval.
21	Vyasi 2x60=120 MW, UJVNL	Uttara khand	1 2	60 60	2014-15 2014-15		2019-20 2019-20	63	936.23 (02/10)		936.23 (02/10)	Nil	➤ Delay in award of works. ➤ Local Issues.

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1	2	3	4	5	6		7	8	9		10	11	12
					(Dec'14)		(Mar,20)						
22	Polavaram (12x80 = 960 MW) PPA	Andhra Pradesh	1 2 3 4 5 6 7 8 9 10 11 12	80 80 80 80 80 80 80 80 80 80 80 80	2017-18 2017-18 2017-18 2017-18 2017-18 2017-18 2017-18 2017-18 2017-18 2017-18 2017-18 2017-18		2020-21 2020-21 2020-21 2021-22 2021-22 2021-22 2021-22 2021-22 2021-22 2022-23 2022-23 2022-23	36           48           60	4956.39 (2016-17 PL) (Power Component)		4956.39 (2016-17 PL) (Power Component)	Nil	➤ Slow progress of works ➤ Funds constraints ➤ E&M works yet to be awarded
	<b>PRIVATE SECTOR</b>												
23	Tidong-I 2x50 =100 MW NSL Tidong	Himachal Pradesh	1 2	50 50	2013-14 2013-14 (Dec'13)		2018-19 2018-19 (subject to re-start of works(1-½ years))	63	543.15 (01/07)		1286.27 (01/17)	743.12	➤ Delay in NOC by Projects affected Panchayats. ➤ Suspension of works by Govt.for one year. ➤ Funds constraints with the developer
24	Tangnu Romai-I (2x22 = 44 MW) TRPGPL	Himachal Pradesh	1 2	22 22	2014-15 2014-15 (Jun'14)		2019-20 2019-20 (subject to re-start of works(4 years))	69	255.00 (01/07)		562.97 (01/17)	307.97	➤ Slow progress of civil works. ➤ Poor geology. ➤ Difficult area. ➤ Weather conditions & accessibility. ➤ Financial constraints with the developer.
25	Sorang (2x50 = 100 MW), HSPPL	Himachal Pradesh	1 2	50 50	2011-12 2011-12 (Nov'11)		2019-20 2019-20 (subject to re-start of works(1 Year))	100	586.00 (04/2005)		Under revision	N.A.	➤ Poor geology. ➤ Poor weather conditions, difficult & poor accessibility. ➤ Penstock cracks / leakage during filling of Water conductor System in Nov '13. ➤ Rupture in surface penstock in Nov-15 during trial run. ➤ Funds constraints with developer.
26	Singoli Bhatwari (3x33 = 99 MW) L&T	Uttarakhand	1 2 3	33 33 33	2012-13 2012-13 2012-13 (Dec'12)		2018-19 2018-19 2018-19 (Mar,19)	75	666.47 (2008)		1577	910.53	➤ Poor geology in HRT. ➤ Agitation by local people. ➤ Flash flood in June,2013.
27	Phata Byung (2x38 = 76 MW),	Uttarakhand	1 2	38 38	2012-13 2012-13		2019-20 2019-20	93	520.00 (2013-14)		1225.53	705.53	➤ Flash flood in June,2013. ➤ Poor geology in HRT.

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1	2	3	4	5	6		7	8	9		10	11	12
	LANCO				(Jun'12)		(subject to re-start of works(3 years))						
28	Maheshwar (10x40 = 400 MW) SMHPCL	Madhya Pradesh	1 2 3 4 5 6 7 8 9 10	40 40 40 40 40 40 40 40 40 40	2001-02 2001-02 2001-02 2001-02 2001-02 2001-02 2001-02 2001-02 2001-02 2001-02 (Mar'02)		2019-20 (subject to re-start of works(1-½ years))	216	1569.27 (96-97)		8121.00 (2016-17)	6551.73	<ul style="list-style-type: none"> <li>➤ R&amp;R issues</li> <li>➤ Cash flow problem with developer</li> </ul>
29	Teesta Stage VI (4x125 = 500 MW) Lanco Energy Pvt. Ltd.	Sikkim	1 2 3 4	125 125 125 125	2012-13 2012-13 2012-13 2012-13 (Jul'12)		2021-22 2021-22 2021-22 2021-22 (subject to re-start of works(3 years))	116	3283.08 (2008)		7542.00 (12/16)	4258.92	<ul style="list-style-type: none"> <li>➤ Poor geology.</li> <li>➤ Land acquisition.</li> <li>➤ Contractual issues</li> <li>➤ Funds constraints with developer</li> </ul>
30	Rangit-IV HE Project (3X40 = 120 MW) JPCL	Sikkim	1 2 3	40 40 40	2011-12 2011-12 2011-12 (Jan'12)		2020-21 2020-21 2020-21 (subject to re-start of works(3-½ year))	110	726.17 (2011-12)		1692.60 (06/16)	966.43	<ul style="list-style-type: none"> <li>➤ Slow progress of HRT &amp; Surge Shaft works due to poor geology.</li> <li>➤ Works hampered due to earthquake in September, 2011.</li> <li>➤ Financial constraints with developer</li> </ul>
31	Bhasmey (2x25.5 =51 MW) Gati Infrastructure	Sikkim	1 2	25.5 25.5	2012-13 2012-13 (Jun'12)		2020-21 2020-21 (subject to re-start of works(3 years))	105	408.50 (2012-13)		690.30	281.80	<ul style="list-style-type: none"> <li>➤ Forest clearance</li> <li>➤ Financial constraints with developer</li> </ul>
32	Rongnichu (2x48 =96 MW) Madhya Bharat Pvt. Ltd.	Sikkim	1 2	48 48	2014-15 2014-15 (Jul'14)		2019-20 2019-20 (Mar,20)	68	491.32		1187	695.68	<ul style="list-style-type: none"> <li>➤ Land Acquisition</li> <li>➤ Poor geology.</li> </ul>

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1	2	3	4	5	6		7	8	9		10	11	12
33	Ratle (4x205+1x30) = 850 MW Ratle HEP Pvt .Ltd.	J&K	1 2 3 4 5	205 205 205 205 30	2017-18 2017-18 2017-18 2017-18 2017-18		2022-23 2022-23 2022-23 2022-23 (subject to re-start of works(5 years))	60	5517.02 (03/12)		6257.00 (09/2013 )	739.98	<ul style="list-style-type: none"> <li>➤ Slow progress of works.</li> <li>➤ Works suspended since 11.7.14 due to frequent local disturbance.</li> <li>➤ Developer wants to surrender the Project to State Govt. The parties namely, GVKRHEPPL and JKPDD have contested their respective claims and matter is now Sub-judice.</li> </ul>
34	Gongri 2x72= 144 MW Dirang Energy (P)Ltd	Ar. Pradesh	1 2	72 72	2016-17 2016-17 (Oct'16)		2021-22 2021-22 (subject to re-start of works(3-½ years))	65	1436.27 (05/12)		1436.27 (05/12)	Nil	<ul style="list-style-type: none"> <li>➤ Works awarded on 22.11.2011. However, consent to establish from State Pollution Control Board was issued on 19-5-14.</li> <li>➤ Financial constraints with the developer.</li> </ul>
35	Bajoli Holi 3x60= 180 MW M/s GMR Bajoli Holi	H.P.	1 2 3	60 60 60	2018-19 2018-19 2018-19 (May'18)		2019-20 2019-20 2019-20 (Aug,19)	15	1696.93		2481.00	784.07	<ul style="list-style-type: none"> <li>➤ Slow progress of works.</li> </ul>
36	Rangit-II 2x33= 66 MW Sikkim Hydro Power Ltd.	Sikkim	1 2	33 33	2015-16 2015-16 (Apr'15)		2019-20 2019-20 (Mar'20)	59	496.44		496.44	Nil	<ul style="list-style-type: none"> <li>➤ Slow progress of works.</li> <li>➤ Financial constraints with the developer.</li> </ul>
37	Panan 4x75= 300 MW Himagiri Hydro Energy Pvt. Ltd.	Sikkim	1 2 3 4	75 75 75 75	2018-19 2018-19 2018-19 2018-19		2022-23 2022-23 2022-23 2022-23 (subject to re-start of works(4-½ years))	48	1833.05 (2009)		2491.00 (2016)	657.95	<ul style="list-style-type: none"> <li>➤ Clearance from NWLB received in December, 2015.</li> <li>➤ Clearance from NGT.</li> </ul>