GOVERNMENT OF INDIA MINISTRY OF POWER

LOK SABHA UNSTARRED QUESTION NO.6251 TO BE ANSWERED ON 05.04.2018

TIME AND COST OVERRUN OF POWER PROJECTS

6251. SHRI GODSE HEMANT TUKARAM:

Will the Minister of POWER be pleased to state:

- (a) whether a number of power projects in public and private sectors have incurred time and cost overrun;
- (b) if so, the details thereof and the reasons therefor along with the funds utilised for construction, sector-wise;
- (c) whether the Government has received any representation from the Association of Power Producers for expeditious clearance of the pending projects in private sector;
- (d) if so, the details thereof and the steps being taken/proposed to be taken to accord clearances to these projects expeditiously; and
- (e) the remedial measures taken by the Government for expeditious completion of all power projects within a fixed time frame?

ANSWER

THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR POWER AND NEW & RENEWABLE ENERGY

(SHRI R. K. SINGH)

- (a) & (b): The details of Time and Cost overrun in respect of under construction Thermal and Hydro (Above 25 MW) Power Projects are given at Annex-I and Annex-II respectively.
- (c) to (e): A representation dated 25th June, 2014 was received from Association of Power Producers regarding "Enhancing ease of Doing Business" proposed comprehensive review of legislation governing integrated electricity generation projects.

As per the Electricity Act, 2003, any generating company may establish, operate and maintain any generating station without obtaining a licence under the Act, if it complies with the technical standards relating to connectivity. However, any generating company intending to set up a hydro generating station is required to seek concurrence from the Central Electricity Authority (CEA).

Further, the Government has taken the following steps to accord clearances of power projects expeditiously:

- (i) Project Monitoring Group (PMG) under Prime Minister's Office (PMO) has been set up to track stalled investment projects, both in the public and private sectors and to remove implementation bottlenecks in these projects on a fast-track basis.
- (ii) A high level Group on Infrastructure under the chairmanship of Union Minister for Road Transport and Highways, Shipping, Water Resources, River Development and Ganga Rejuvenation has been set up, inter-alia, to review issues pertaining to various clearances required by infrastructure projects, including power projects.
- (iii) The Tariff Policy has been amended in January, 2016, which, inter-alia, removes market uncertainty by allowing pass-through for impact of any changes in domestic duties, levies, taxes etc. in competitively bid projects and also brings clarity on tariff setting.
- (iv) Government of India has launched a new policy for allocation of future coal linkages in a transparent manner for power sector, namely the Scheme for Harnessing and Allocation Koyala (Coal) Transparently in India (SHAKTI).
- (v) Regular interactions between the Ministries of Power and Environment, Forest & Climate Change for resolving issues pertaining to environment and forest clearance.
- (vi) Regular reviews are also undertaken by Ministry of Power, Ministry of Heavy Industries and Cabinet Secretariat to identify the constraint areas and facilitate faster resolution of inter-ministerial and other outstanding issues.
- (vii) Central Electricity Authority (CEA) monitors the progress of under construction power projects through frequent site visits and interaction with the developers and equipment suppliers.
- (viii) Issues are also raised in PRAGATI, for proactive governance and timely implementation, as and when required.

ANNEX REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 6251 TO BE ANSWERED IN THE LOK SABHA ON 05.04.2018.

Details of Time/Cost Overrun of Under Construction Thermal Power Projects in the country

SI. No	State	Project Name / Implementing Agency	Unit No	Cap. (MW)	Original Commissioning Schedule	Anticipated Commissioning Schedule	Original Cost (Rs. in Crore)	Latest Cost (Rs. in Crore)	Cost Overrun (Rs. in Crore)	Time Overrun (Months)	Reason for Delay
CEN	TRAL SECTO)R									
1	Assam	Bongaigaon TPP/ NTPC	U-3	250	Sep-11	Jun-18	4375.35	6749.18	54.25%	81	Frequent bandhs, Heavy monsoon and slow civil works. Delay in supply of material by BHEL. Intemittent suspension of supplies of aggregates by local vendors. Work came to halt due to violence and mass exodus of labour from site in 2011-12. Civil works got affected due to poor performance by civil contractors resulting in to their contract cancellation. Balance civil and structural works rewarded to NBCC on 29.09.14.Civil works, readiness of raw water system, identification & supply of cannibalized materials for Unit-3 by BHEL.
	Bihar	Barh STPP-I /NTPC	U-1	660	May-17	Oct-20	8693	15095.67	73.65%	41	Delay due to contractual dispute of NTPC with Power machine & Technopromexport, Russia. *Orig.
			U-2	660	Nov-17	Apr-21				41	Sch. was in 2009-10 & 2010-11. Delay in supply of boiler material and ordering of Bought out
2			U-3	660	May-18	Nov-21				42	Items(BOIs)by M/s TPE due to financial constrant. M/s. TPE stopped work from 10/13. M/s TPE contract was terminated on 14.01.2015 by NTPC. Delay in supply of material and slow progress by M/s. Power Machine, tube failures in superheater and Reheat area, Readiness of Railway line (Hazirabagh-Kodera-Tilaiya-Rajgi-Bkahktiarpur (250 Km))

	Bihar	Nabi Nagar TPP / JV of NTPC & Rlys	U-3	250	Aug-13	Jun-18	5352.51	7998	49.43%	58	Delay in acquisition of Land. Slow progress of works by main plant civil agency M/s ERA resulting in delay in handing over civil fronts to
3			U-4	250	Nov-13	Oct-18				59	erection agencies. Delay in Supply of equipment by BHEL. Agitation by villagers. Patches of land could not be acquired because of unwillingness of people to accept compensation. Financial crunch faced by CHP vendor (Techpro).
	Bihar	New Nabi Nagar	U-1	660	Jan-17	Aug-18	13624.02	15131.67	11.07%	19	Acquisition of balance land and relocation of
4		TPP /JV of NTPC &	U-2	660	Jul-17	Oct-18				15	homestead owners still living inside the project
		BSPGCL	U-3	660	Jan-18	Dec-18				12	area.
5	Chhattisgarh	Lara STPP/NTPC	U-2	800	May-17	Jun-19	11846	11846	0.00%	25	Delayed due to power equipment supply, Delay in land acquisition, delay in radiness of boiler auxiliaries.
	Jharkhand	North Karanpura	U-1	660	Feb-18	Oct-19	14367	14367	0.00%	20	Delay in start of Civil works due to land
		STPP/ NTPC	U-2	660	Aug-18	Apr-20				20	acquisition issues. Delay in BHEL supplies
6			U-3	660	Feb-19	Oct-20				20	related to boiler foundation. Delay in land handover by NTPC to BHEL due to change in main plant area location change in plot plan. Delay in award of ACC package by BHEL.
7	Maharashtra	Solapur STPP/ NTPC	U-2	660	Nov-16	Mar-19	9395.18	9395.18	0.00%	28	Delay in SG supply by BGR. Delay in Right of Use (RoU) for Raw water pipeline. Delay in readiness of civil fronts by M/s. IVRCL. Delay in steam generator Engineering & supply by BGR due to non-settlement of QSGM between BGR and Hitachi, Major damage in pressure parts
	MP	Gadarwara STPP/	U-1	800	Mar-17	Jul-18	11638.55	11638.55	0.00%	16	Work stopped due to agitation by villagers
8		NTPC	U-2	800	Sep-17	Jun-19				21	demanding additional compensation for already acquired land. Delay in balance land acquisition for railway line corridor, slow progress by civil agency (B&R). RoU for MuW pipeline laying.
	Odisha	Darlipalli STPP/	U-1	800	Feb-18	Dec-18	12532.44	12532.44	0.00%	10	Delayed due to balance Land acquisition for
9		NTPC	U-2	800	Jun-18	Jun-19	1		Ī	12	railway siding ,ROU issue for Makeup water line.
10	Telangana	Telangana STPP St- I / NTPC	U-1	800	Jan-20	Apr-20	10599	10599	0.00%	3	Change in Boiler design w.r.to new environmental norms. Delay in BHEL supply
-	TN		U-2 U-1	800 500	Jul-20	Oct-20 Jul-18	5007.44	5907.11	0.000/	3 10	
	/W	Neyveli New TPP/ NLC	U-1	500	Sep-17	Jui-18	5907.11	5907.11	0.00%	10	Delayed due to change in design of foundations(depth) of main plant area and
11			U-2	500	Mar-18	Aug-18				5	finalisation of civil contractors. Availability of soft water is delayed due to non- completion of erection of HDPE pipes. Delay in Placement of order for outlet channel & structure of CW system. Slow progress of Civil works.
12	UP	Meja STPP/ JV of NTPC & UPRVUNL	U-2	660	Dec-16	Jan-19	10821	10821	0.00%	25	Delay in supply of boiler material by M/s BGR due to non-settlement of QSGM between BGR and Hitachi Slow progress of main plant civil works.

	UP	Tanda TPP St II/ NTPC	U-1	660	Sep-18	Mar-19	9188.98	9188.98	0.00%	6	Balance Land acquisition in main plant & Ash
13			U-2	660	Mar-19	Sep-19				6	dyke area. Poor mobilisation by civil agency, delay in engineering and supply.
STA	TE SECTOR	•						-			
1	Assam	Namrup CCGT / APGCL	ST	36.15	Jan-12	Nov-18	411	693.73	68.79%	82	Delay in start and slow progress of of civil works, Termination of civil contractor. Poor soil conditions and heavy monsoon. Delay in supply of material by BHEL & shortage of skilled manpower. Termination of NBPL order. Delay in rearward of civil and Electrical Mechanical & Instrumentation agency.
2	Karnataka	Yelahanka CCPP BY KPCL	GT+ST	370	Mar-18	May-18	1571.18	1571.18	0.00%	2	Delayed due to heavy Rain
3	Odisha	Ib valley TPP / OPGCL	U-3	660	Sep-17	Aug-18	11965	11965	0.00%	11	Acquisition of land for railway siding and avilablity of startup power.
			U-4	660	Jan-18	Oct-18				9	
4	Rajasthan	Chhabra TPP Extn./RRVUNL	U-6	660	Jun-18	Aug-18	7920	9550	20.58%	2	Delay in civil works. Delays in work progress due to heavy rain. Delay in readiness of BoPs (Cooling tower, AHP, CHP etc.) by M/s Lanco Infratech due to financial crunch.
5	Rajasthan	Suratgarh SCTPP/ RRVUNL	U-7	660	Sep-16	Jul-18	7920	7920	0.00%	22	Slow progress of boiler erection.
			U-8	660	Dec-16	Jun-18				18	
6	Telangana	Kothagudem TPS St-VII/ TSGENCO	U-1	800	Nov-17	Jul-18	5548.44	5548.44	0.00%	8	Delay in readiness of BoPs
	Telangana	Bhadradri TPP /	U-1	270	Mar-17	Jan-19	5044	7290.6	44.54%	22	Work held up due to NGT and Non avilablity of
7		TSGENCO	U-2	270	May-17	Feb-19				21	MoEF clearance.
			U-3	270	Jul-17	Mar-19	_		-	20	_
			U-4	270	Sep-17	Apr-19				19	
8	TN	Ennore exp. SCTPP (Lanco) / TANGEDCO	U-1	660	Jan-18	Sep-18	5421.38	5421.38	0.00%	8	Delayed due to LANCO Insolvency problem.
9	TN	Ennore SCTPP /	U-1	660	Jan-18	Sep-18	9800	9800	0.00%	8	Delayed due to excessive piling in power block
		TANGEDCO	U-2	660	Mar-18	Mar-19				12	area and slow progress of civil work.
10	TN	North Chennai TPP St-III TANGEDCO	U-1	800	Mar-19	Jul-19	6376	6376	0.00%	4	Slow progress due to civil work.
11	UP	Harduaganj TPS Exp-II /UPRVUNL	U-1	660	Jun-19	Nov-19	4826.49	4826.49	0.00%	5	Late receipt of MoEF and CC Clearance
12	UP	Jawaharpur STPP/	U-1	660	Sep-20	Nov-20	10556.27	10556.27	0.00%	2	Newly started
		UPRVUNL	U-2	660	Jan-21	Mar-21				2	
PR/\	ATE SECTOR							-			
	AP	Thamminapatnam TPP stage -II / Meenakshi	U-3	350	May-12	Jan-18	3120 (600MW)/			68	Slow progress of Civil works. Due to financial problem, work at site remained closed for a long
1		Energy Pvt. Ltd.	U-4	350	Aug-12	Jul-18	5005 (700MW)			71	time.

2	Chhattisgarh	Akaltara TPP (Naiyara) / KSK Mahandi Power Company Ltd	U-4	600	Apr-13	Jul-18	16190	27080	67.26%	63	Delayed due to Financial Constraints
-			U-5	600	Aug-13	Sep-18				61	
			U-6	600	Dec-13	Dec-18	1			60	7
3	Chhattisgarh	Uchpinda TPP/ RKM Powergen. Pvt. Ltd.	U-4	360	Jul-13	Jul-18	6653.61	11784.51	77.11%	60	Delayed due to non availability of Consent To Operate(CTO).
4	Maharashtra	Shirpur TPP ,Shirpur Power Pvt. Ltd.	U-2	150	Apr-15	Jul-18	2413	2413	0.00%	39	Delay in start up Power, No PPA, No Coal linkage, Financial constraints.
5	MP	Mahan TPP / Essar Power MP Ltd.	U-2	600	Dec-11	Aug-18	7738	7738	0.00%	80	Very slow progress due to Non availability of coal block/Coal Linkage.
6	TN	Tuticorin TPP St-IV / SEPC	U-1	525	Sep-18	Mar-19	3514	3514	0.00%	6	Slow progress in BoP areas, Delay in award of interconnection and transmission facility.
7	WB	Hiranmaye Energy Ltd (India Power corporation (Haldia) TPP / Haldia Energy Ltd	U-3	150	May-16	Aug-18	2656	3307	24.51%	27	MoEF Moratorium for no construction activity in haldia and asansol industrial area in WB

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DETAILS OF UNDER CONSTRUCTION HYDRO ELECTRIC PROJECTS (ABOVE 25 MW) HAVING TIME/COST OVERRUN

				1	1		ING TIME/COS	1	1	1	I	1	T
SI. No	Project Name/(I.C.)/ Executing Agency	State	Unit No.	Capacity (MW)	Original Commis- sioning Sche -dule	Revised Commis- sioning Sche- dule	Anticip -ated Commis- sioning Sche -dule	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 overrun
	CENTRAL SECTOR												
1	Tapovan Vishnughad (4x130 = 520 MW) NTPC	Uttarakhand	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 (Mar³20)	84	2978.48 (11/06)	3846.30 (01/14)	3846.30 (01/14)	867.82	 Heavy water ingress due to bad geology in HRT and rock fall on TBM. TBM struck up thrice. Flash flood in June, 2013 & Aug'12 damaging coffer dam. Termination of civil contracts for Barrage and HRT.
2	Lata Tapovan (3x57 = 171 MW) NTPC	Uttarakhand	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.	 Flash flood during June, 2013 in Uttarakhand. Local issues / non-start of works in Barrage area Hon'ble Supreme court ban on construction works since May-14
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	 Delay in getting permission for tree felling from Govt. of West Bengal for Access road from Adit-1 to Adit-2.
4	Pare (2x55 = 110 MW) NEEPCO	Arunachal Pradesh	1 2	55 55	2012-13 2012-13 (Aug'12)		2017-18 2017-18 (Mar ³ 18)	67	573.99 (06/07)		1337.76 (01/16)	763.77	 Law & Order problem. Poor geology. Poor approach roads. Flash flood during monsoons of year 2014,2015,2016 and 2017. Dam area inundated with water.
5	Kameng (4x150 = 600 MW) NEEPCO	Central	1 2 3 4	150 150 150 150 150	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	 Change in dam parameters. Slow progress in dam & HRT due to bad geology, heavy seepage, inadequate machinery. Flash flood in Oct. 2008 and Sept. 2012. Ingress of water in HRT. Poor approach roads. Contractual issues. Shortage of aggregate. Clearance for quarry from State Govt. Slow Progress of works.

6	Tehri PSS (4x250 = 1000 MW) THDC	Uttara khand	1 2 3 4	250 250 250 250 250	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	 Approval of RCE as L-1 price bid was more than cost estimate. RCE approved in Nov-2011. Cash flow problem with contractor. Litigation by bidders. Poor geology. Local agitation at Asena Quarry. Agitation at muck disposal area. Poor preparedness of contractor. Revision of Lay out of machine hall due to poor geology.
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	 Hon'ble High Court of Himachal Pradesh ban on stone crusher operation. Delay in revised forest clearance. TBM suffered extensive damage due to heavy ingress of water and slush in TBM face in Nov, 2006. Slide in Power House area in Apr-04, Jun-06 and Feb-07. Flash flood in 2004,2005,2010 and 2011. Jiwa Nallah works affected due to cavity treatment. Contractual issues. Poor geology in HRT.
8	Subansiri Lower (8x250 = 2000 MW) NHPC	Arunachal Pradesh/ Assam	1 2 3 4 5 6 7 8	250 250 250 250 250 250 250 250 250	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 (subject to re-start of works (4 years))	150	6285.33 (12/02)		18559.49 (04/17)	12274.16	 Delay in transfer of forest land. Disruption of works by locals in Ar. Pradesh side. Slope failure in Power House in Jan, 2008. Damage to bridge on Ranganadi river. Change in design of surge shafts to surge tunnels. Stoppage of works due to agitation launched by Anti Dam activists in Assam against construction of Project. Work stopped since 16.12.2011. Issue of D/s impact studies. Case in NGT.
9	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	 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. Disruption of works by local people. Cash flow problem with contractor.

1	10	Kishanganga	Jammu &	1	110	2014-15	2015-16	2017-18	44	2238.67	3642.04	5882.01	3643.34	~	Appro	val of R	CE as	L-1 price bi	id was
		(3x110 = 330 MW)	Kashmir	2	110	2014-15	2015-16	2017-18	>	(11/05)	(09/07)	(01/17)			more	than	cost	estimate.	RCE

	NHPC		3	110	2014-15 (July ² 14)	2015-16 (Jan'16) RCE-I	2017-18 (Mar-18)					approved in Jan2009. Heavy Rainfall in March, 2011. Cavity in HRT – TBM portion. Poor geology in Access tunnel. Dam works affected due to arbitration proceedings at International Court of Arbitration. Local people demanding Employment in NHPC. R&R Issues. Completion of power evacuation arrangement (PGCIL) Stoppage of works in Power House area since 09.07.2016 due to disturbance in Kashmir velley. Works partially resumed in Jan 2017.
	STATE SECTOR											
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 (Completi on cost)	640.41 (Complet ion cost)	Nil	 Slow progress of works. Delay in Land acquisition.
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) (Completi on cost)	576.87 (12/12) (Complet ion cost)	Nil	 Inadequate mobilization of man & machinery by Contractor. Delany in finalization of R&R Plan. Slow progress of works. Funds constraints with contractor. Contractor under CDR.
13	Uhi-III (3x33.33 = 100 MW) BVPCL	Himachal Pradesh	1 2 3	33.33 33.33 33.33	2006-07 2006-07 2006-07 (Mar³07)		2017-18 2017-18 2017-18 (Mar,18)	132	431.56 (09/02)	1281.52 (12/12)	849.96	 Delay in transfer of forest land. Delay in acquisition of private land Delay in transfer of quarry sites. Delay in award of works. Contract for construction of HRT rescinded twice i.e. during April, 2008 July, 2010 due to slow progress and non-performance by the contractor. Poor geology in HRT.
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	 Delay in MOEF clearance. Delay in award of Civil & E&M works. Poor geology in HRT. Slow progress of HRT Lining. Contractual issues. Contract for HRT package terminated on 9.1.14. Re-awarded in Nov,2014 to M/s. HCC.

15	Shongtom Karcham	Himachal	1	150	2016-17	2021-22	h	2807.83	2807.83	Nil	> Shifting of Army Ammunition Depot.
	(3x150 = 450 MW)	Pradesh	2	150	2016-17	2021-22	≻ 58	(06/11)	(06/11)		Local Issues.
	HPPCL 16.08.2012		3	150	2016-17	2021-22	Ų				
					(Mar'17)	(Jan,22)					

16	Pulichintala (4x30 = 120 MW) TGENCO	State	1 2 3 4	30 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 nonavailability 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 ² 12)	2020-21 2020-21 (subject to restart 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 (subject to restart of works(4 years))	60 60	1835.50 (04/08) (Power Componen t)	1835.50 (04/08) (Power Compone nt)	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 (Dec'14)	2019-20 2019-20 (Mar,20)	- 63	936.23 (02/10)	936.23 (02/10)	Nil	Delay in award of works.Local Issues.

22	Polavaram	Andhra	1	80	2017-18	2020-21)	36	4956.39	4956.39	Nil	> Slow progress of works
	(12x80 = 960 MW)	Pradesh	2	80	2017-18	2020-21	 		(2016-17 PL)	(2016-17		Funds constraints
	PPA		3	80	2017-18	2020-21			(Power	PL)		E&M works yet to be awarded
			4	80	2017-18	2021-22	<u></u>		Component)	(Power		

			5	80	2017-18	2021-	22		Component)		
			6	80	2017-18	2021-					
			7	80	2017-18	2021-					
			8	80	2017-18	2021-					
			9	80	2017-18	2021-					
			-	80	2017-18	2021-					
			10			_	-				
			11	80	2017-18	2022-	()				
			12	80	2017-18	2022-	, ,				
					(Mar'18)	(Sep,	22)				
	PRIVATE SECTOR										
23	Tangnu Romai-I	Himachal	1	22	2014-15	2019-	20 \ 69	255.00	562.97	307.97	> Slow progress of civil works.
	(2x22 = 44 MW)	Pradesh	2	22	2014-15	2019-	20 🗇	(01/07)	(01/17)		> Poor geology.
	TRPGPL				(Jun'14)	(subject	to re-	`			> Difficult area.
					, ,	start of w	orks (4				> Weather conditions & accessibility.
						years	s))				> Financial constraints with the
						•	"				developer.
24	Sorang	Himachal	1	50	2011-12	2019-20 2	019-20 100	586.00	Under	N.A.	> Poor geology.
	(2x50 = 100 MW),	Pradesh	2	50	2011-12	(subject	to re-	(04/2005)	revision		> Poor weather conditions, difficult &
	HSPPL				(Nov'11)	start of w	orks(1				poor accessibility.
						Year))				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.
25	Singoli Bhatwari	Uttarakhand	1	33	2012-13	2018-	19)	666.47	1577	910.53	> Poor geology in HRT.
	(3x33 = 99 MW)		2	33	2012-13	2018-	19 [(2008)			Agitation by local people.
	L&T		3	33	2012-13	2018-	19 75				Flash flood in June,2013.
					(Dec'12)	(Mar,	19) J				·
					`,						
26	Phata Byung	Uttarakhand	1	38	2012-13	2019-		520.00	1225.53	705.53	> Flash flood in June,2013.
	(2x38 = 76 MW), LANCO		2	38	2012-13	2019-	20 📗	(2013-14)			Poor geology in HRT.
					(Jun'12)	(subject	to re-				
						start of w	orks(3				
						years	•				
		1	l	1			1	1			1

27	Maheshwar (10x40 = 400 MW) SMHPCL	Madhya Pradesh	1 2 3 4 5 6 7 8 9	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	2019-20 (subject to re-start of works(1-½ years)	216	1569.27 (96-97)	8121.00 (2016-17)	6551.73	 R&R issues Cash flow problem with developer
28	Teesta Stage VI (4x125 = 500 MW) Lanco Energy Pvt. Ltd.	Sikkim	1 2 3 4	125 125 125 125 125	(Mar³02) 2012-13 2012-13 2012-13 2012-13 (Jul³12)	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	Poor geology. Land acquisition. Contractual issues Funds constraints with developer
29	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	 Slow progress of HRT & Surge Shaft works due to poor geology. Works hampered due to earthquake in September, 2011. Financial constraints with developer
30	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	Forest clearance Financial constraints with developer
31	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	Land AcquisitionPoor geology.
32	Ratie (4x205+1x30) = 850 MW Ratie HEP Pvt .Ltd.	J&K	1 2 3 4 5	205 205 205 205 205 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	 Slow progress of works. Works suspended since 11.7.14 due to frequent local disturbance. 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.

33	Gongri	Ar. Pradesh	1	72	2016-17	2021-22						> Works	awarded	on	22.11.2011.
	2x72= 144 MW		2	72	2016-17	2021-22	_	65	1436.27	1436.27	Nil	Howe	ver, consent	t to e	stablish from

	Dirang Energy (P)Ltd				(Oct'16)	(subject to restart of works(3-1/2 years)		(05/12)	(05/12)		State Pollution Control Board was issued on 19-5-14. > Financial constraints with the developer.
34	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	> Slow progress of works.
35	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	 Slow progress of works. Financial constraints with the developer.
36	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 restart of works(4- ½ years)	48	1833.05 (2009)	2491.00 (2016)	657.95	 Clearance from NWLB received in December, 2015. Clearance from NGT.
37	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
