

**GOVERNMENT OF INDIA
MINISTRY OF POWER**

**LOK SABHA
UNSTARRED QUESTION NO.3089
TO BE ANSWERED ON 17.12.2015**

POWER PROJECTS

**3089. SHRI PARESH RAVAL:
SHRI RAJESHBHAI CHUDASAMA:
DR. KIRIT P. SOLANKI:**

**Will the Minister of POWER
be pleased to state:**

- (a) the details of the power projects being undertaken for execution, etc. by the Bharat Heavy Electrical Limited (BHEL) including Gujarat State Electricity Corporation Limited (GSECL) along with the repair and maintenance of existing power plants in Gujarat, State/UT-wise;**
- (b) whether there has been any delay in execution of Power Projects by M/s BHEL including the projects executed/yet to be executed till date;**
- (c) if so, the details thereof along with action taken thereon; and**
- (d) the steps Government proposes to take in this regard?**

A N S W E R

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

(SHRI PIYUSH GOYAL)

(a) to (d) : At present there are 44 thermal and 15 hydro-electric power projects under execution by Bharat Heavy Electrical Limited (BHEL) including those of Gujarat State Electricity Corporation Limited (GSECL). In addition, the following renovation and modernisation works of existing power plants are under execution by BHEL in Gujarat:

- i. Up-gradation of Control system of Ukai Unit No.3 & 4. Order issued on 18.06.2015.**
- ii. Availability & Efficiency improvement through modification in Boiler back pass & APH of Unit No-4 of Ukai TPS. Order issued on 23.09.2015.**

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The power projects get delayed due to various reasons viz. delay in land acquisition, local agitations, law & order problems, contractual disputes, delay in material supply from BHEL, extreme weather conditions etc.

State-wise details of power projects being undertaken for execution by BHEL, including GSECL, along with reasons for delay are given at Annex.

The steps taken by the Government for timely commissioning of power projects including those of GSECL are given below:

- (i) Central Electricity Authority (CEA) monitors the progress of under construction power projects through frequent site visits and interaction with the developers and equipment suppliers. CEA holds review meetings periodically with the developers and other stakeholders and identify issues critical for commissioning of projects and help in resolving them.**
- (ii) 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.**
- (iii) A Power Project Monitoring Panel (PPMP) has been set up by the Ministry of Power for monitoring of on-going Thermal and Hydro Generation projects targeted for commissioning during the 12th Plan and beyond along with the associated transmission system.**
- (iv) The review meetings are held by Secretary (Power) to monitor completion of power projects being executed by BHEL, with Department of Heavy Industry and BHEL.**
- (v) Issues are also raised in PRAGATI, for proactive governance and timely implementation, as and when required.**

ANNEX REFERRED TO IN REPLY TO PARTS (a) TO (d) OF UNSTARRED QUESTION NO. 3089 TO BE ANSWERED IN THE LOK SABHA ON 17.12.2015.

Power Projects undertaken for execution by Bharat Heavy Electrical Limited (BHEL) in various States and UTs including Gujarat along with reasons for delay

A: THERMAL PROJECTS

Sl. No	Project Name	State	Unit No	Capacity (MW)	Commissioning Schedule		Reasons for Delay
					Original	Anticipated	
CENTRAL SECTOR							
1	Bongaigaon TPP	Assam	U-2	250	May-11	Oct-16	Frequent bandhs, Heavy monsoon and slow civil works. Delay in supply of material by BHEL. 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 .
			U-3	250	Sep-11	Apr-17	
2	Muzaffarpur TPS Exp	Bihar	U-4	195	Jan-13	Mar-16	Delay in award of main plant civil works. Delay in completion of civil works due to poor performance of civil agency. Delay in land acquisition & availability of Right of Approach.(ROA) for Raw Water Line. Delay in readiness of CHP , AHP and switch yard.
3	Nabi Nagar TPP	Bihar	U-1	250	May-13	Apr-16	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 erection agencies. 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). Acquisition of land and relocation of homestead owners still living inside the project area.
			U-2	250	Sep-13	Apr-17	
			U-3	250	Jan-14	Jul-17	
			U-4	250	May-14	Oct-17	

4	Bokaro TPS "A" Exp.	Jharkhand	U-1	500	Dec-11	Apr-16	Delay in supply of material by BHEL Delay in handing over of fronts to BHEL because of delay in shifting of switch yard and removal of underground facilities. Delay in resolution of price variation issues. Readiness of CHP & NDCT.
5	North Karanpura TPP	Jharkhand	U-1	660	Feb-18	Oct-18	Delay in start of civil works due to land acquisition issues. Delay in BHEL supplies.
			U-2	660	Aug-18	Dec-18	
			U-3	660	Feb-19	Jun-19	
6	Mouda STPS St-II	Maharashtra	U-3	660	Mar-16	Aug-16	Slow progress works by main plant civil agency(IVRCL). Delay in supply and slow progress in erection activities of Boiler. Slow progress of steam Generator by BHEL.
			U-4	660	Sep-16	Feb-17	
7	Gadarwara STPP	MP	U-1	800	Mar-17	Jun-17	Work stopped due to agitation by villagers demanding additional compensation for already acquired land. Delay in balance land acquisition.
			U-2	800	Sep-17	Nov-17	
8	Monarchak CCPP	Tripura	ST	35.6	Jul-13	Feb-16	Delay in award of civil work contract and supply of material by BHEL. Heavy monsoon. Delay in readiness of Gas pipe line and gas gathering station. Delay in readiness of DM, PT, CT, CW system etc.
9	Unchahar St- IV	UP	U-6	500	Dec-16	Nov-17	Delay in award of main plant civil work packages and BOPs.
10	Raghunath- pur TPP, Ph-II	WB	U-3	660	Aug-17	Jun-19	Delay in start of main plant civil works due to fund crunch being faced by DVC.
			U-4	660	Jan-18	Jun-20	
STATE SECTOR							
11	Rayalseema TPP St-III	AP	U-6	600	Aug-14	Feb-17	Delay in start & completion of civil works and land acquisition. Delay in BoP works.
12	Namrup CCGT	Assam	GT	70	Sep-11	Jun-16	Delay in start and slow progress 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.
			ST	30	Jan-12	Sep-16	

13	Barauni TPS Extn.	Bihar	U-8	250	May-14	Dec-16	Delay in obtaining Environmental clearance, Delay in readiness of CT, CW system etc. and acquisition of balance land for intake pump house, raw water line etc.
			U-9	250	Jul-14	Apr-17	

14	Marwa TPP	Chhattisgarh	U-2	500	Jul-12	Feb-16	Initial delay is due to Change of award of Chimney. Delay in readiness of BOPs (CHP, AHP & 400 KV Switchyard etc.,) and Law & Order Problems, pilferage of material etc. Shortage of man power by M/s BGR. Fire Accident in the Coal Handling Plant.
15	Bhavnagar CFBC TPP	Gujarat	U-1	250	Feb-13	Dec-15	Delay in readiness of civil fronts and non - sequential supply. Slow progress of BoPs. Delay in readiness of AHP and Lignite handling plant. Delay in availability of raw water.
			U-2	250	May-13	Apr-16	
16	Wankbori TPS Ext.	Gujarat	U-8	800	Oct-18	Oct-18	
17	Bellary TPS	Karnataka	U-3	700	Aug-14	Jan-16	Delay in awarding civil contract for main plant and BoPs. Dispute between AHP vendor and BHEL. Delay in supply of L.P. Rotor. Change of AHP vendor and completion of CHP.
18	Yermarus TPP	Karnataka	U-1	800	Apr-14	Feb-16	Change in Orientation of marshalling yard, Repeated soil investigations due to change in plot plan and additional soil investigation at specific areas and Illrd party vetting. Readiness of AHP & CHP.
			U-2	800	Oct-14	May-16	
19	Chandrapur TPS	Maharashtra	U-9	500	Sep-12	Feb-16	Delay in placement of BoPs order and delay in main plant equipment supply. Delay in readiness of BoPs and Heavy monsoon.
20	Parli TPP Expn.	Maharashtra	U-8	250	Jan-12	Jan-16	Delay in placement of BoP order. Delay in BTG supply. Delay in approval of drawings. Slow erection work. Slow progress of BoPs due to commercial dispute with M/s Sunil Hitech. Shortage of water.
21	I.B. Vally TPP	Orissa	U-3	660	Aug-17	Dec-17	
			U-4	660	Jan-18	Jun-18	
22	Chhabra STPP	Rajasthan	U-5	660	Sep-16	Feb-17	Delay in receiving Marshalling yard coordinates from RITES, Shortage of man power.
			U-6	660	Jun-17	Dec-17	
23	Suratgarh	Rajasthan	U-7	660	Jul-16	Apr-17	Slow progress of boiler

	STPP		U-8	660	Oct-16	Jul-17	erection.
24	Kakatiya TPP Extn	Telangana	U-1	600	Jul-12	Dec-15	Delay in placement of order for BoP's & change of BoP contractor consortium leader, Delay in award of erection agency by BHEL. Delay in handing over of civil fronts by Techpro. Delay in finalisation of raw water reservoir location.
25	Singareni TPP	Telangana	U-1	600	Feb-15	Mar-16	Delay in placement of order for BOPs and subsequent delay in completion of BoP works.
			U-2	600	Jun-15	Jun-16	

26	Bhadradi TPP	Telangana	U-1	270	Feb-17	Nov-17	Delay is notional as the original schedule is too much compressed by utility/ BHEL.
			U-2	270	Apr-17	Jan-18	
			U-3	270	Jun-17	Mar-18	
			U-4	270	Aug-17	May-18	
27	Kothagudem TPS Ext. St-VII	Telangana	U-1	800	Nov-17	Jul-18	Delay is notional as the original schedule is too much compressed by utility/ BHEL.
28	Ennore SCTPP (TANGEDCO)	TN	U-1	660	Jan-18	Sep-18	Delay in civil works.
			U-2	660	Mar-18	Mar-19	
29	Anpara-D	UP	U-7	500	Jun-11	Dec-15	Delay in placement of order for BOPs. Very slow progress of firefighting work. Inadequate manpower deployment by BHEL. Slow work in AHP, CW system & FO system.
30	Sagardighi TPP-II	WB	U-3	500	Jul-14	Feb-16	Slow progress in erection and supply of BTG material. Delay in placement of order for electrical erection work. Delay in readiness of AHP due to termination and re-awarding contract.
			U-4	500	Oct-14	Jun-16	

PRIVATE SECTOR

31	Vizag TPP	AP	U-1	520	Jun-13	Dec-15	Delay in readiness of transmission line for start-up power. Slow progress of civil works, sea water intake and outfall system, CHP etc.. Delay in readiness of railway line. Delay due to damage because of cyclone.
			U-2	520	Sep-13	Feb-16	
32	Deveri TPP (Visa TPP)	Chhattisgarh	U-1	600	Aug-13	*	Order for AHP, Fire protection system, AC & Ventilation system, LT/HT Switchgear, Cables, Air Compressor, LT transformer, Station, GT & Unit transformer not yet placed. Work is on hold due to financial crunch.
33	Matrishri	Jharkhand	U-1	270	May-12	*	Law and order problem. Delay

	Usha TPP Ph-I		U-2	270	Jun-12	*	in supply of BTG equipment. Delay in readiness of transmission line due to forest clearance. Work held up due to financial problems since Nov, 12.
34	Matrishri Usha TPP Ph-II	Jharkhand	U-3	270	Feb-13	*	Law and order problem and delay in supply of BTG material. Work is held up due to financial problems at site.
			U-4	270	Mar-13	*	
35	Amravati TPP Ph-II	Maharashtra	U-1	270	Jul-14	*	No Work is going on at site due to financial problems.
			U-2	270	Sep-14	*	
			U-3	270	Nov-14	*	
			U-4	270	Jan-15	*	
			U-5	270	Mar-15	*	

36	Nasik TPP Ph-I	Maharashtra	U-2	270	Apr-12	Dec-15	Delay in readiness of Railway siding .Non-sequential supply of BTG material & Civil fronts readiness. Payment issue with BHEL. Readiness of Mills, HFO, CHP & AHP, ducting insulation etc. PPA is yet to be signed.
			U-3	270	Jun-12	Jun-17	Non-Acceptance of BTG material by Project Authorities. No work is going at site due to financial problems.
			U-4	270	Aug-12	Nov-17	
			U-5	270	Oct-12	Mar-18	
37	Nasik TPP Ph-II	Maharashtra	U-1	270	Apr-13	*	No Work is going on at site due to financial problems. May slip to 13th plan.
			U-2	270	Jun-13	*	
			U-3	270	Aug-13	*	
			U-4	270	Oct-13	*	
			U-5	270	Dec-13	*	
38	Gorgi TPP	MP	U-1	660	Jun-13	*	Order for main plant equipment has been placed. Work is on hold.
39	Seoni TPP Ph-I	MP	U-1	600	Mar-13	Jul-16	Delay in readiness of civil fronts. Chimney readiness. Delay in supply of boiler and TG material due to financial problem. Presently no work is going on at site. Financial dispute yet to be resolved.
40	Malibrahmani TPP	Orissa	U-1	525	Dec-12	Aug-16	Delay in land acquisition and delay in supply of TG hall structures. Slow progress due to financial problem.
			U-2	525	Feb-13	Dec-16	
41	Goindwal Sahib	Punjab	U-1	270	Apr-13	*	Delay in readiness of CHP & AHP. Delay in readiness of Railway line. Delay in land acquisition.
			U-2	270	Oct-13	*	
42	Prayagraj	UP	U-1	660	Feb-14	Dec-15	Delay in BTG supply, Raw

	(Bara) TPP		U-2	660	Jul-14	Apr-16	water pipe line readiness and transmission line readiness for start-up power. Progress of work at site delayed due to financial problems. Land for railway siding and power evacuation.
			U-3	660	Dec-14	Jul-16	
43	Lalitpur TPP	UP	U-1	660	Oct-14	Dec-15	Delay due to heavy rains, delay in TG erection start, boiler insulation and fuel oil system readiness etc. Financial problems. Power evacuation problem.
			U-2	660	Feb-15	Jul-16	
			U-3	660	Jun-15	Oct-16	
44	Kasbere (Haldia) TPP	WB	U-1	150		Jun-16	
			U-2	150		Oct-16	
			U-3	150		Feb-17	

* The commissioning schedule not determined, as there is no progress of work at site

B: HYDRO PROJECTS (ABOVE 25 MW)

SI No.	Project Name	State	Unit No	Capacity (MW)	Commissioning Schedule		Reasons for Delay
					Original	Anticipated	
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	2018-19 2018-19 2018-19 2018-19	<ul style="list-style-type: none">➤ Delay in procurement/deployment of Tunnel Boring Machine by Civil Contractor.➤ Slow progress in Power house due to poor rock strata.➤ Heavy water ingress due to bad geology in HRT and rock fall on TBM.➤ Flash flood in June, 2013.➤ 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	2021-22 2021-22 2021-22 Subject to restart of works.	<ul style="list-style-type: none">➤ 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	Tuirial (2x30 = 60 MW) NEEPCO	Mizoram	1 2	30 30	2006-07 2006-07	2016-17 2016-17	<ul style="list-style-type: none">➤ Suspension of Project activities due to local agitation for about 7 yrs. (June-2004 to May-2011)➤ Poor approach roads.➤ Slope failure in Power House.➤ Insufficient Resource mobilization and lack of labour etc.
4	Kameng (4x150 = 600 MW) NEEPCO	Arunachal Pradesh	1 2 3 4	150 150 150 150	2009-10 2009-10 2009-10 2009-10	2016-17 2016-17 2016-17 2016-17	<ul style="list-style-type: none">➤ 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.
5	Teesta Low Dam- IV (4x40 = 160 MW) NHPC	West Bengal	1 2 3 4	40 40 40 40	2009-10 2009-10 2009-10 2009-10	2015-16 2015-16 2016-17 2016-17	<ul style="list-style-type: none">➤ Delay in forest clearance.➤ Flash flood in July, 2007, May, 2009 & July, 2010.➤ Gorkha Jan Mukti agitations/bandhs.➤ Cash crunch of Civil contractor (M/s HCC), the civil works were at halt from March, 2013 to November, 2014.

6	Parbati - II (4x200 = 800 MW) NHPC	Himachal Pradesh	1 2 3 4	200 200 200 200	2009-10 2009-10 2009-10 2009-10	2018-19 2018-19 2018-19 2018-19	<ul style="list-style-type: none"> ➤ 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. ➤
7	Kishanganga (3x110 = 330 MW) NHPC	Jammu & Kashmir	1 2 3	110 110 110	2015-16 2015-16 2015-16	2016-17 2016-17 2016-17	<ul style="list-style-type: none"> ➤ 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.
8	Vishnugad Pipalkoti (4x111 = 444 MW) THDC	Uttarakhand	1 2 3 4	111 111 111 111	2013-14 2013-14 2013-14 2013-14	2019-20 2019-20 2019-20 2019-20	<ul style="list-style-type: none"> ➤ 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. ➤
9	Rammam III (3x40=120 MW) NTPC	West Bengal	1 2 3	40 40 40	2019-20 2019-20 2019-20	2019-20 2019-20 2019-20	
STATE SECTOR							
10	Uhl-III (3x33.33 = 100 MW) BVPCL (HPSEB)	Himachal Pradesh	1 2 3	33.33 33.33 33.33	2006-07 2006-07 2006-07	2017-18 2017-18 2017-18	<ul style="list-style-type: none"> ➤ Delay in award of works. ➤ Contract for construction of HRT rescinded twice i.e. during May, 2008 & July, 2010 due to slow progress and non-performance by the contractor. ➤ Poor geology in HRT.
11	Pulichintala (4x30 = 120 MW) TGENCO	Telengana	1 2 3 4	30 30 30 30	2009-11 2009-11 2009-11 2009-11	2016-17 2016-17 2016-17 2016-17	<ul style="list-style-type: none"> ➤ Delay in award of E&M works. ➤ Unprecedented floods in Oct.2009 & Sept.2011. ➤ Contractual issues. ➤ Slow progress of Power

							House works.
12	Nagarjuna Sagar Tail Pool Dam (2x25 = 50 MW) APGENCO	Andhra Pradesh	1 2	25 25	2008-09 2008-09	2015-16 2015-16	➤ Slow progress of dam due to frequent flooding during 2009, 2011& 2013. ➤ Delay in award of HM works. ➤ Contractual issues in Dam works. ➤ Non-availability of water.

13	Shahpurkandi 3x33+3x33+1x8 =206 MW, Irrigation Deptt. &PSPCL	<u>Punjab</u>	1 2 3 4 5 6 7	33 33 33 33 33 33 8	2017-18	2018-19 (Subject to restart of works)	➤ 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.
14	Vyasi (2X60=120 MW) UJVNL	<u>Uttarakhand</u>	1 2	60 60	2018-19 2018-19	2018-19 2018-19	

PRIVATE SECTOR

15	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	2017-18 (Subject to restart of works)	➤ R&R issues ➤ Cash flow problem with developer
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