

(b) and (c) The Government is aware of the relationship between quality of drinking water supply, safe sanitation and hygiene and accordingly, the Swachh Bharat Mission (Gramin) [SBM(G)] aims *inter-alia*, at attaining an Open Defecation Free India by 2nd October, 2019, by providing assistance for access and use of toilet facilities with additional provision for water for handwashing and toilet use to all rural households and initiating Solid and Liquid Waste Management activities in Gram Panchayats.

Proposed thermal power plants

†*278. SHRI MAHENDRA SINGH MAHRA :Will the Minister of POWER be pleased to state:

(a) the number of thermal power plants (TPPs) proposed to be established, State-wise and location-wise;

(b) whether those TPPs could not be established due to non-allotment of land by the States;

(c) if not, the reasons for the delay in establishing those TPPs; and

(d) by when the approved/proposed TPPs would be established?

THE MINISTER OF STATE OF THE MINISTRY OF POWER (SHRI PIYUSH GOYAL): (a) to (d) A State-wise and sector-wise list of thermal power projects which are under implementation and due for commissioning in Twelfth Plan or beyond and facing certain difficulties including land acquisition issues, along with their anticipated commissioning schedule is given in Statement (*See below*).

The target for thermal capacity addition in Twelfth Plan covering coal, lignite and gas based plants is 72,340 MW. Against this, 47,163 MW has already been commissioned up to November, 2014. The total thermal capacity addition in Twelfth Plan is expected to exceed the target.

†Original notice of the question was received in Hindi.

Statement

Details of Thermal Power Projects under implementation and due for commissioning in Twelfth Plan and beyond

State	Project Name	Unit No.	Capacity (MW)	Anticipated Commissioning Schedule	Issues
1	2	3	4	5	6
	Central Sector				
Assam	Bongaigaon TPP	U-1	250	Jun-15	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. Acquisition of balance land for Railway siding.
		U-2	250	16-17	
		U-3	250	16-17	
	State Sector				
	Namrup CCGT	GT	70	Sep-15	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 and shortage of skilled manpower. Termination of NBPL order. Delay in re-award of civil and Mechanical Electrical and Instrumentation agency.
		ST	30	Dec-15	
SUB TOTAL			850		

Written Answers to

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Starred Questions

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1	2	3	4	5	6
Andhra Pradesh	State Sector				
	Damodaram Sanjeevaiah TPS	U-2	800	Jan-15	Due to delay in start of civil works and delay in supplies. Delay in readiness of external CHP, RWPH and CT. Delay in readiness of transmission line. Work for transmission line from plant to LILO point is held up due to ROW problem.
	Rayalseema TPP St-III	U-6	600	Dec-16	Delay in start and completion of civil works and land acquisition.
	Private Sector				
	Bhavanapadu TPP Ph-I	U-1	660	Mar-17	Work remained under suspension due to MoE&F order for a long time. After restart works hampered due to two cyclones . Agitation against State bifurcation.
		U-2	660	Oct-17	
	NCC TPP	U-1	660	Apr-16	Delay in start and slow progress of civil works. Delay in supply and erection of material due to financial problem.
		U-2	660	Aug-16	
	Painampuram TPP	U-1	660	Dec-14	Delay in start of TG civil work. Delay because of change in foundation design due to soil issue.
		U-2	660	Mar-15	
	Simhapuri Energy Pvt. Ltd Ph-II	U-4	150	Jan-15	Delay in commissioning of phase-I of the project and delay in supply of TG, CHP, refractory material and MS diffuser.
	Thamminapatnam TPP stage -II	U-3	350	Aug-16	Slow progress of Civil works. Due to financial problem, work at site remained closed for a long time.

	U-4	350	Nov-16	
Vizag TPP	U-1	525	Mar-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. Acquisition of balance land for railway line.
	U-2	525	Aug-15	
UMPP				
Krishnapatnam UMPP (Coastal Andhra Power Limited-CAPL)	U- 1 to 6	3960	13th plan	APSPDCL <i>vide</i> letter dated 15.3.2012 has issued termination notice to CAPL stating that in view of the defaults and anticipatory breach having no alternative, the procurers together decided and elect to terminate the agreement and same shall come into effect from 7th day of receipt of this notice. CAPL approached the High Court of Delhi. APSPDCL <i>vide</i> letter dated 20.4.2012 informed that procurers filed counter affidavit on 16.4.2012. The Delhi High Court has dismissed the petition of CAPL on 2.7.2012. CAPL has approached Division Bench, Delhi High Court as well as Indian Arbitrator Council for Arbitration. Developer has also filed petition before CERC. Matter has been kept in abeyance by ICA till disposal of HC petition CERC on 06.06.2013 directed the matter to be listed after hearing in the Delhi High Court.
SUB TOTAL		11220		

1	2	3	4	5	6
Bihar	Central Sector				
	Barh STPP- I	U-1	660	17-18	Delay due to dispute of NTPC with Power Machine and Technopromexport, Russia. *Orig. Sch. was in 2009-10 and 2010-11. Delay in supply of boiler material and ordering of Bought Out Items (BOIs) by M/s TPE due to financial constraint. Slow progress of works at site by M/s TPE and M/s Powermachines, Russia.
		U-2	660	17-18	
		U-3	660	18-19	
	Barh STPP-II	U-5	660	Mar-15	Delay in Supplies by BHEL. Delay in readiness of CHP and Completion of T-23 welding joints.
	Muzaffarpur TPS Exp	U-3	195	Mar-15	Delay in award of main plant civil works. Delay in completion of civil works. Delay in land acquisition and availability of Right of Approach.(RoA) for Raw Water Line. Delay in readiness of CHP, AHP and switch yard. Land acquisition for raw water pipeline and availability of Right of Approach (RoA).
		U-4	195	Sep-15	
	Nabi Nagar TPP	U-1	250	Sep-15	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).
	U-2	250	Mar-16	
	U-3	250	Sep-16	
	U-4	250	Apr-17	
New Nabi Nagar TPP	U-1	660	Jun-17	Acquisition of balance land and relocation of homestead owners still living inside the project area.
	U-2	660	Sep-17	
	U-3	660	Jan-18	
State Sector				
Barauni TPS Extn.	U-1	250	Oct-15	Delay in readiness of CT, CW system etc. Delay in acquisition of land for ash dyke and raw water system.
	U-2	250	Dec-15	
Private Sector				
Jas Infra. TPS	U-1	660	13th plan	No work is going on at site.
	U-2	660	13th plan	
	U-3	660	13th plan	
	U-4	660	13th plan	
SUB TOTAL		9150		

1	2	3	4	5	6
Chhattisgarh	State Sector				
	Marwa TPP	U-2	500	Mar-15	Initial delay is due to change of award of chimney. Delay in readiness of BOPs (CHP, AHP and 400 KV Switchyard etc.,) and Law and Order Problems, pilferage of material etc. Shortage of man power.
	Private Sector				
	Akaltara TPP (Naiyara)	U-3	600	Nov-15	Shortage of manpower, agitation by villagers, supply of material due to shortage of fund.
		U-4	600	Jul-16	
		U-5	600	Dec-16	
		U-6	600	Apr-17	
	Baradarha TPP	U-2	600	Mar-15	Delay in Readiness of CHP & AHP, mills. Delay due to problem faced in Generator Stator. Delay in supply of cannibalized/missing items.
	Balco TPP	U-1	300	Apr-15	Collapse of chimney. Delay in issuing consent to operate by the State Government.
		U-2	300	Jun-15	
	Bandakhar TPP	U-1	300	Feb-15	Delay in start of civil works. Work suffered due to financial problems. Delay in readiness of CHP/AHP and problem in generator stator.

Binjkote TPP	U-1	300	Jun-15	Delay in start of civil works. Delay in supply of the Boiler Drum. Delay due to stoppage of erection work for boiler and TG because of change of STG erection agencies. Balance Land acquisition for ash dyke.
	U-2	300	Sep-15	Delay in start of civil works. Slow progress of pressure parts erection. Balance Land acquisition for ash dyke.
	U-3	300	17-18	Work yet to start.
	U-4	300	17-18	Work yet to start.
Lanco Amarkantak TPP-II	U-3	660	17-18	Delay in acquisition of land for water system. Presently No work is going at site due to financial problems.
	U-4	660	17-18	
Raikheda TPP	U-1	685	Jan-15	Delay in start of civil works. Progress of various activities suffered some time due to financial problems.
	U-2	685	Jul-15	
Singhitarai TPP	U-1	600	Dec-15	Delay in land acquisition. Slow progress of Boiler and TG erection. Delay due to financial problems.
	U-2	600	Jun-16	
Swastic TPP	U-1	25	Mar-15	Delay in readiness of BoPs. Delay due to commercial dispute with CHP vendors and refractory work and defect in super heater coil. Delay in getting Start up power due to transfer of the land of 132 Kv pooling sub station from CSIDC to CSPTCL.

1	2	3	4	5	6
	TRN Energy TPP	U-1	300	Jul-15	Delay in start of civil works. Slow progress in erection works of boiler and T.G. Manpower shortage.
		U-2	300	Dec-15	
	Uchpinda TPP	U-1	360	Apr-15	Work suffered due to agitation by villagers. Slow progress of work at site. Delay in readiness of BOPs. Delay in readiness of start up power. Delay due to financial problem. Balance land acquisition for ash pond and railway siding
		U-2	360	Jun-15	
		U-3	360	Sep-15	
		U-4	360	Mar-16	
	Salora TPP	U-2	135	Mar-15	Delay in commissioning of unit-1. Agitation by villagers at site. Delay in supply of BTG and CHP material. Non-cooperation of BTG supplier in commissioning activities.
	Visa TPP	U-1	600	17-18	Order for AHP, Fire protection system, AC and Ventilation system, LT/HT Switchgear, Cables, Air Compressor, LT transformer, Station transformer, GT and Unit transformer not yet placed. Acquiring of land for Railway siding is pending. Lease deed for 67 acres land. Work is on hold due to financial crunch.
	SUB TOTAL		12290		

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Starred Questions

Gujarat	State Sector				
	Sikka TPP Extn.	U-3	250	Mar-15	Delay in readiness of civil fronts and placement of BOPs orders. Slow progress of erection of boiler and TG. Slow progress in BOPs. Change of BTG erection agency. Delay in supply of material by BHEL. Shortage of HP welders.
		U-4	250	Jun-15	
	Bhavnagar CFBC TPP	U-1	250	Mar-15	Delay in civil works and non-sequential supply. Slow progress of BOPs. Delay in readiness of AHP and Lignite handling plant.
		U-2	250	Jun-15	
	SUB TOTAL		1000		
Jharkhand	Central Sector				
	Bokaro TPS "A" Exp.	U-1	500	Sep-15	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 under ground facilities. Delay in resolution of price variation issues. Readiness of CHP.
	Private Sector				
	Matrishri Usha TPP Ph-I	U-1	270	17-18	Law and order problem. Delay 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.
		U-2	270	17-18	

1	2	3	4	5	6
	Matrishri Usha TPP Ph-II	U-3	270	18-19	Law and order problem and delay in supply of BTG material. Work is held up due to financial problems at site. May slip to 13th plan.
		U-4	270	18-19	
	Tori TPP	U-1	600	Apr-17	Law and order problem. Delay in start of civil work and slow progress of works. Delay in MOEF clearance for Unit-2.
		U-2	600	Oct-17	
	UMPP				
	Tilaiya UMPP	U-1 to 6	3960	13th plan	Land acquisition and preliminary works under process.
	SUB TOTAL		6740		
Karnataka	Central Sector				
	Kudgi STPP Ph-I	U-1	800	May-16	Delay in award of SG civil works. Delay in TG erection start. Stoppage of work on account of NGT order in 03/14. Unrest and violent agitation in 07/14 with exodus of manpower.
		U-2	800	Aug-16	
		U-3	800	Dec-16	
	State Sector				
	Bellary TPS	U-3	700	Nov-15	Delay in awarding civil contract for main plant and BOPs.

					Delay in awarding of CHP & AHP. Dispute between AHP vendor and BHEL. Delay in supply of L.P. Rotor.
	Yermarus TPP	U-1	800	Jul-15	Repeated soil investigations due to change in plot plan and additional soil investigation at specific areas and IIIrd party vetting.
		U-2	800	Nov-15	
	SUB TOTAL		4700		
Maharashtra	State Sector				
	Chandrapur TPS	U-8	500	Mar-15	Delay in placement of BOPs order and delay in main plant equipment supply. Delay in readiness of BOPs and Heavy monsoon.
		U-9	500	Jul-15	
	Koradi TPP Expn.	U-8	660	Mar-15	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.
		U-9	660	Jul-15	
		U-10	660	Feb-16	
	Parli TPP Expn.	U-8	250	Mar-15	Delay in BTG supply. Delay in approval of drawings. Slow erection work. Slow progress in BOPs. Commercial dispute with M/s Sunil Hitech.

1	2	3	4	5	6
Private Sector					
Amravati	TPP Ph-I	U-3	270	Feb-15	Non-sequential supply of BTG material. Delay in readiness of civil fronts. Payment issue with BHEL. Delay in insulation application. Delay in readiness of HFO, CHP & AHP. Re-awarding of boiler erection agency. Readiness of railway siding.
		U-4	270	Jun-15	
		U-5	270	Sep-15	
Amravati	TPP Ph-II	U-1	270	13th plan	No work is going on at site due to financial problems.
		U-2	270	13th plan	
		U-3	270	13th plan	
		U-4	270	13th plan	
		U-5	270	13th plan	
Lanco	Vidarbha TPP	U-1	660	18-19	No work is going at site due to financial problems.
		U-2	660	18-19	
Nasik	TPP Ph-I	U-2	270	Jan-15	Delay in readiness of Railway siding .Non-sequential supply of BTG material and Civil fronts readiness. Payment issue with BHEL. Readiness of Mills, HFO, CHP & AHP, ducting insulation etc.
		U-3	270	Jun-16	Non-Acceptance of BTG material by Project Authorities. No work is going at site due to financial problems.

		U-4	270	Sep-16	
		U-5	270	Mar-17	
Nasik Ph-II	TPP	U-1	270	13th plan	No Work is going on at site due to financial problems. May slip to 13th plan.
		U-2	270	13th plan	
		U-3	270	13th plan	
		U-4	270	13th plan	
		U-5	270	13th plan	
SUB TOTAL			9140		
Madhya Pradesh	Central Sector				
	Vindhyachal TPP Ph-V	U-13	500	Oct-15	Delay in placement of BOPs order. Delay in erection of boiler material.
	Gadarwara STPP	U-1	800	Jun-17	Delay in balance land acquisition and ordering of balance BOP's
		U-2	800	Nov-17	
	Private Sector				
	Anuppur TPP Ph-I	U-1	600	Jan-15	Delay in start and slow progress of civil works. Delay in supply of Drum. Readiness of insulation of boiler and ESP.
		U-2	600	Jul-15	
	Mahan TPP	U-2	600	Jun-15	Delay in development of Coal Block

1	2	3	4	5	6
	Nigri TPP	U-2	660	Feb-15	Delay in start of civil works. Delay in preparation of ACW system. Delay in readiness of Transmission line.
	Gorgi TPP	U-1	660	18-19	Order for main plant equipment has not been placed so far.
	Seoni TPP Ph-I	U-1	600	Apr-15	Delay in readiness of civil fronts. Chimney readiness. Delay in supply of boiler and TG material due to financial problem.
	SUB TOTAL		5820		
Odisha	Private Sector				
	Derang TPP	U-2	600	Jan-15	Delay in commissioning of unit-1. Law and order problem. Delay in land acquisition. Agitation by villagers.
	Ind Bharat TPP (Odisha)	U-1	350	Mar-15	Delay due to heavy rains. Delay in readiness of transmission line for start up power. Acquisition of Balance land of 3 KM which falls in mining area for railway line.
		U-2	350	Jun-15	
	KVK Nilanchal TPP	U-1	350	Jun-16	Initially delayed due to chimney clearance and law & order problem. Work was held up due to stay by Hon'ble High Court of Orissa. Hon'ble High Court has given order dated : 20.05.14 to start the work. Delay in restart of work.
		U-2	350	17-18	
		U-3	350	17-18	
	Lanco Babandh TPP	U-1	660	17-18	Delay in land acquisition. No work is going on at site due to financial problem

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			U-2	660	17-18	
	Malibrahmani TPP		U-1	525	May-15	Delay in land acquisition and delay in supply of TG hall structures. Slow progress due to financial problem.
			U-2	525	Dec-15	
	SUB TOTAL			4720		
Punjab	Private Sector					
	Goindwal Sahib		U-1	270	Jun-15	Delay in readiness of CHP & AHP. Delay in readiness of Railway line. No progress of work at site due to financial problem.
			U-2	270	Sep-15	
	Talwandi Sabo TPP		U-2	660	Mar-15	Delay in readiness of Civil fronts. Delay in readiness of AHP, Chimney, Mills, Cooling tower due to shortage of man power. Boiler insulation work delayed due to heavy rains.
			U-3	660	Jun-15	
	SUB TOTAL			1860		
Rajasthan	State Sector					
	Kalisindh TPS		U-2	600	Jan-15	Delay in erection of bunkers and coal mills and supply of balance material by M/s, BGR.
	Chhabra STPP		U-5	660	Apr-17	Slow progress of boiler erection.
	Suratgarh STPP		U-7	660	Apr-17	Slow progress of boiler erection.
			U-8	660	Jul-17	Slow progress of boiler erection.
	Sub Total			2580		

1	2	3	4	5	6
Tamil Nadu	Central Sector				
	Neyveli TPS-II Exp.	U-2	250	Aug-15	Delay in COD declaration of Unit -1 due to major modifications done in U-1 Boiler. The same modifications has been done in U-2 as per U-1. And U-2 synchronized on 23.11.2014. Presently the unit is under shut down to attend bearing problems.
	Tuticorin JV	U-1	500	Feb-15	Change in design of foundations of main plant equipments. Slow progress of civil works. Shortage of manpower. Delay in availability of soft water and start of power. Delay in achievement of statutory clearances (wild life, forest clearance etc.). Acquisition of balance land for ash dyke.
		U-2	500	May-15	
	Private Sector				
	Melamaruthur TPP	U-2	600	Jun-15	Delay in supply of main plant Equipment. Delay due to manpower shortage and readiness of switchyard and DM Plant. Change in policy for supply of sand and use of ground water. Delay in disbursement of additional loan by bankers.
	Tuticorin TPP (Ind-Barath)	U-1	660	Sep-17	Late start and slow progress of civil works and delay in supply of boiler structural material at site.
	SUB TOTAL		2510		

Telangana	State Sector					
	Kakatiya TPP Extn	U-1	600	Dec-15	Delay in placement of BOP order, handing over of foundation of Boiler and ESP and awards of boiler erection agency. Delay due to change of BOP consortium leader.	
	Singareni TPP	U-1	600	Nov-15	Delay in placement of order for BOPs.	
		U-2	600	Mar-16		
	SUB TOTAL		1800			
Tripura	Central Sector					
	Monarchak CCPP	GT	61.3	Apr-15	Delay in award of civil work contract and supply of material by BHEL. Heavy monsoon. Delay in readiness of Gas pipeline and gas gathering station.	
		ST	39.7	Jun-15		
	SUB TOTAL		101			
Uttar Pradesh	Central Sector					
	Unchahar St- IV	U-6	500	Jun-17	Delay in award of main plant civil work packages and BOPs.	
	Meja STPP	U-1	660	Jun-16	Delay in supply of boiler material by M/s BGR. Slow progress of main plant civil works.	
		U-2	660	Jun-17		

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1	2	3	4	5	6
	State Sector				
	Anpara-D	U- 6	500	Mar-15	Delay in placement of order for BOPs. Very slow progress of fire fighting work. Inadequate manpower deployment by BHEL. Slow progress of work in AHP, CW system and FO system.
		U-7	500	Aug-15	
	Private Sector				
	Prayagraj (Bara) TPP	U-1	660	Jul-15	Delay in BTG supply, Raw water pipeline readiness and transmission line readiness for start up power. Progress of work at site delayed due to financial problems. Land for railway siding is yet to be handed over to the project by the concerned authorities.
		U-2	660	Dec-15	
		U-3	660	Mar-16	
	Lalitpur TPP	U-1	660	Mar-15	Delay due to heavy rains, delay in TG erection start, boiler insulation and fuel oil system readiness etc. Financial problems.
		U-2	660	Jun-15	
		U-3	660	Dec-15	
	SUB TOTAL		6780		

West Bengal	Central Sector				
	Raghunathpur TPP, Ph-I	U-2	600	Jun-15	Delay in commissioning of Unit-1. Delay in Land acquisition for water and Rail corridor. Delay in erection of main plant equipments by RIL Law and Order Problem. Frequent stoppage of work by local people. Replacement of bottom ring header. Delay due to damage of boiler insulation.
	Raghunathpur TPP, Ph-II	U-3	660	Oct-18	Delay in start of main plant civil works.
		U-4	660	Mar-19	
	State Sector				
	Sagardighi TPP-II	U-3	500	Jun-15	Slow progress in erection and supply of BTG material. Delay in placement of order for electrical erection work. Slow progress of AHP. Balance land acquisition for raw water line and Railway siding.
		U-4	500	Sep-15	
	Private Sector				
	Haldia TPP	U-1	300	Dec-14	Delay in readiness of power evacuation system.
		U-2	300	Mar-15	
SUB TOTAL			3520		
TOTAL			84781		

<i>Gas Based Power Projects ready for commissioning</i>					
1	2	3	4	5	6
Andhra Pradesh	Private Sector				Projects are ready for commissioning but could not be done due to non-availability of gas.
	GMR Vemagiri Exp	--	768	--	
	Kondapalli Exp St-III	--	742	--	
	Samalkot Exp	--	2400	--	
	CCGT By Panduranga	--	116	--	
	Gas Engine by Astha	--	35	--	
	SUB TOTAL		4061		
Uttara-khand	Private Sector				
	Kashipur Saravanthi St-I and II	--	450	--	
	Beta Infratech CCGT	--	225	--	

Gama Infraprop CCGT	--	225	--
SUB TOTAL		900	
Maharashtra Private Sector			
CCGT By Pioneer Gas Power Ltd	--	388	--
SUB TOTAL		388	
TOTAL		5349	