GOVERNMENT OF INDIA
MINISTRY OF POWER

RAJYA SABHA
STARRED QUESTION NO.252
ANSWERED ON 16.03.2026

LOAD SHEDDING AND AT&C LOSS MONITORING AT DISTRIBUTION COMPANY LEVEL

252 SMT. GEETA ALIAS CHANDRAPRABHA:

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

(a) whether internal monitoring systems capture DISCOM-wise actual versus scheduled load delivery, seasonal load shedding events, and granular AT&C loss breakdowns at feeder or ward levels, beyond State-level performance figures;

(b) if so, the comparative internal performance summaries for the State of Uttar Pradesh, including rural distribution segments; and

(c) whetherAuraiya district-specific load reliability records, feeder-wise loss indices, and consumer complaint resolution timelines are maintained in internal dashboards that are not publicly available, and the measures taken to utilise such data for improving electricity distribution efficiency?

A N S W E R

THE MINISTER OF POWER

(SHRI MANOHAR LAL)

(a) to (c) : A Statement is laid on the Table of the House.

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STATEMENT

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (c) IN RESPECT OF RAJYA SABHA STARRED QUESTION NO.252 FOR REPLY ON 16.03.2026 REGARDING LOAD SHEDDING AND AT&C LOSS MONITORING AT DISTRIBUTION COMPANY LEVEL ASKED BY SHRI SMT. GEETA ALIAS CHANDRAPRABHA.

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(a) & (b): Electricity is a concurrent subject and power distribution comes under the purview of distribution utilities that function under the guidance of their respective Electricity Regulatory Commission (ERC) and State Government.

Aggregate Technical & Commercial (AT&C) loss for a distribution utility is published annually by Power Finance Corporation at the utility level and it is based on its submitted annual accounts. Further, State level details related to actual power supply position like energy requirement and energy met are also published by Grid India.

For the State of Uttar Pradesh, in FY2024-25 the AT&C loss is 19.54%. Further, the gap between Energy Supplied (1,41,449 million units) and Energy Requirement (1,41,475 million units) has declined to almost "Nil" during the current year. As reported by the State, average daily hours of supply details are enclosed at **Annexure**.

The data related to scheduled load delivery, seasonal load shedding events and granular AT&C loss at feeder or ward levels is maintained and monitored by respective State Governments and distribution utilities.

(c): The Electricity (Rights of Consumers) Rules, 2020, provide for Consumer Grievance Redressal Forums (CGRFs) at different levels in the distribution utility. If a consumer is dissatisfied with the resolution provided by the utility, they can approach the CGRF and further the Ombudsman, for resolution. Also, as per the rules, ERCs have to notify the standards of performance for the utilities which shall contain time period for resolution of various electricity related complaints.

As reported by the State, the average daily hours of supply (during 01.04.2025 to 12.03.2026) in rural and urban areas of Auraiya district is 21:44 hours and 23:17 hours respectively.

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ANNEXURE

ANNEXURE REFERRED TO IN PARTS (a) & (b) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 252 ANSWERED IN THE RAJYA SABHA ON 16.03.2026 REGARDING LOAD SHEDDING AND AT&C LOSS MONITORING AT DISTRIBUTION COMPANY LEVEL

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Average daily supply hours of Uttar Pradesh

Month	Rural		Urban			Emergency power cut
	Except Bundelkhand (Scheduled 18 hrs)	Bundelkhand (Scheduled 20 hrs)	Nagar Panchayat (Scheduled 21:30 hrs)	Tehsil Headquarter (Scheduled 21:30 hrs)	Janpad Headquarter (Scheduled 24 hrs)	
April 2025	18:28	20:05	21:31	21:36	24:00	-
May 2025	18:36	20:12	21:35	21:37	24:00	-
June 2025	18:34	20:13	21:36	21:40	24:00	-
July 2025	18:19	20:05	21:30	21:30	24:00	-
August 2025	19:04	20:39	21:55	21:53	24:00	-
September 2025	18:37	20:19	21:44	21:41	24:00	-
October 2025	22:19	22:50	23:15	23:19	24:00	-
November 2025	18:41	20:19	21:37	21:36	24:00	-
December 2025	18:21	20:03	21:31	21:31	24:00	-
January 2026	18:47	20:16	21:39	21:39	24:00	-
February 2026	18:52	20:24	21:44	21:46	24:00	-

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GOVERNMENT OF INDIA
MINISTRY OF POWER

RAJYA SABHA
UNSTARRED QUESTION NO.2700
ANSWERED ON 16.03.2026

SELF-RELIANCE AND CONSUMER RIGHTS IN THE POWER SECTOR IN THE COUNTRY INCLUDINGJHARKHAND

2700 # SHRI DEEPAK PRAKASH:
SMT. KIRAN CHOUDHRY:
SMT. SEEMA DWIVEDI:
DR. PARMAR JASHVANTSINH SALAMSINH:
SHRI MITHLESH KUMAR:
SHRI NARAYANA KORAGAPPA:
DR. MEDHA VISHRAM KULKARNI:
SHRI SUBHASH BARALA:

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

(a) details of the 17 critical power sector items that have been identified to promotedomestic manufacturing under the Atmanirbhar Bharat initiative;

(b) the manner in which the Electricity (Rights of Consumers) Rules have impacted thetimelines for obtaining new electricity connections in metropolitan and rural areas;

(c) whether the mandatory 50 per cent domestic content requirement for publicprocurement has been successfully notified for all 215 identified power sector items; and

(d) if so, the details thereof?

A N S W E R

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI SHRIPAD NAIK)

(a): Central Electricity Authority (CEA) has identified 16 critical power sector items which are currently being imported. These items have been prioritized to promote domestic manufacturing under the Atmanirbhar Bharat initiative. The details of the 16 critical Items are given at **Annexure-I.**

(b): Electricity being a concurrent subject, the supply and distribution of electricity to the various categories of consumers in a State/UT is within the purview of the respective State Government/Power Distribution Utility. Further, the Power Distribution Utility works as per the Supply Code, Performance Standards and Regulations laid down by the State Commission.

As per the Electricity (Rights of Consumers) Amendment Rules, 2024 notified by Ministry of Power, the State Commission shall specify the maximum time period, after submission of application complete in all respects, not exceeding three (03) days in metropolitan areas, seven (07) days in other municipal areas and fifteen (15) days in rural areas, within which the distribution licensee shall provide new connection or modify an existing connection. Provided that for rural areas of States and Union Territories having hilly terrain, the maximum time period for new connection or modification of an existing connection, after submission of application, complete in all respects, shall not exceed thirty (30) days. Provided further that where such supply requires extension of distribution mains, or commissioning of new substations, the distribution licensee shall supply the electricity to such premises immediately after such extension or commissioning within a period not exceeding ninety (90) days.

For the purposes of this rule, the term 'States and Union Territories having hilly terrain' means the States of Arunachal Pradesh, Himachal Pradesh, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim, Tripura, Uttarakhand, Union Territory of Jammu & Kashmir and Union Territory of Ladakh.

These provisions have improved timeliness and strengthened consumer rights in the power sector.

(c) & (d): The Ministry of Power has notified 215 Power Sector items with at least 50% Minimum Local Content (MLC) requirement, vide Public Procurement (Preference to Make in India) Order dated 16.11.2021. The details of 215 notified items are given at **Annexure-II**.

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ANNEXURE-I

ANNEXURE REFERRED IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 2700 ANSWERED IN THE RAJYA SABHA ON 16.03.2026

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The details of the 16 critical power sector items that have been identified to promote domestic manufacturing under the Atmanirbhar Bharat Initiative:

Sl. No	Name of Critical Item	HSN Code
1	Subsea Cables (HVDC & HVAC)	8544
2	Permanent Magnet (NdFeB) for actuators	85059000, 85051190
3	Oxygen Free High Conductivity Copper Rods of very high precision, of flatness, ppm level <5, various diameters (Dia 25 to 45 mm)	74071010
4	Aluminum zinc coated steel sheets of non-skin passed, non-oiled, non-chromatid grade, 2mm thickness	72106100
5	HVDC Valve assemblies including IGBT/ Thyristors, Capacitor banks and cooling system	8481
6	Porcelain Hollow Insulators – Complete range from 33 kV to 800 kV	85462090
7	Composite/Polymer Hollow Core Insulators – Complete range from 33 kV to 420 kV	85469090
8	Modular type Ethernet Switches (automatic data processing/ communication switches) suitable for IEC communication protocol ex IEC61850, PLC Controllers (FRTU) with digital inputs and digital outputs	85176290
9	Lightning Arrester	85354010
10	Solid insulated/screened touch proof bus bars, adaptors of high dielectric strength and insulation properties	85366990
11	Insulating Spacers / Gas Partitions Insulation Chamber / Insulation Rod	Likely under 8546 or 8547 (Electrical Insulators of Any Material)
12	Hollow Core Insulators for Gas-Air Bushings (>245 kV)	85469090
13	Voltage Transformers	850421, 850422, 850423, 850431, 850432, 850433, 850434
14	Pipes for Gas Insulated Bus Ducts and Bus bar (ID >400mm) (Spiral welded Aluminium pipe)	7608
15	Epoxy raw material (Resin, Hardener), Liquid Silicone Rubber, Bus bar insulation shrink tubing of high die electric strength and insulation properties.	390730, 3910
16	Motors and VCB mechanisms assembly with miniature gear train	8501, 853521

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ANNEXURE-II

ANNEXURE REFERRED IN REPLY TO PARTS (c) & (d) OF UNSTARRED QUESTION NO. 2700 ANSWERED IN THE RAJYA SABHA ON 16.03.2026

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The details of 215 identified power sector items:

Item Sl. No.	Sl. No.	Electrical Equipment for Generation, Transmission and Distribution sectors with sufficent local capacity and competition	Class-I Local Supplier (Minimum Local Content (%)
	(A) Common items for Transmission, Distribution and Generation Sector		
1	1	Power Transformers (up to 765 kV, including Generator transformers)	60
2	2	Instrument Transformer (up to 765 kV)	60
3	3	Transformer Oil Dry Out System (TODOS)	60
4	4	Reactors up to 765 kV	60
5	5	Oil Impregnated Bushing (up to 400 kV)	60
6	6	Resin Insultated Paper (RIP) bushings (up to 145 kV)	50
7	7	Circuit Breakers (up to 765 kV AC - Alternating Current)	60
8	8	Disconnectors/Isolators (up to 765 kV AC)	60
9	9	Wave trap (up to 765 kV AC)	60
10	10	Oil Filled Distribution Transformers up to & Including 33 kV [Cold Rolled Grain Oriented (CRGO)/Amorphous, Aluminium/Copper wound]	60
11	11	Dry Type Distribution Transformer upto and including 33 kV (CRGO/Amorphous, Aluminium/Copper wound)	60
12	12	Conventional Conductor	60
13	13	Accessories for Conventional conductors	60
14	14	High Temperature/High Temperature Low Sag (HTLS) conductors (such as Composite core, GAP, ACSS, INVAR, AL59) and Accessories	60
15	15	Optical ground wire (OPGW) – all designs	60
16	16	Fiber OpticTerminal Equipment (FOTE) for OPGW	50
17	17	OPGW related Hardware and Accessories	60
18	18	Remote Terminal Unit (RTU)	50
19	19	Power Cables and accessories up to 33 kV	60
20	20	Control cables including accessories	60
21	21	XLPE Cables up to 220 kV	60
22	21.A	XLPE Cables (above 220 kV and upto 400 kV)	50
23	22	Substation Structures	60
24	23	Transmission Line Towers	60
25	24	Porcelain (Disc/Long Rod) Insulators	60
26	25	Bus Post Insulators (Porcelain)	60
27	26	Porcelain Disc Insulators with Room Temperature Vulcanisation (RTV) coating	50
28	27	Porcelain Longrod Insulators withRoom Temperature Vulcanisation (RTV) coating	50
29	28	Hardware Fittings for Porcelain Insulators	60
30	29	Composite/Polymeric Long Rod Insulators	*60*
31	30	Hardware Fittings for Polymer Insulators	60

32	31	Bird Flight Diverter (BFD)	60
33	32	Power Line Carrier Communication (PLCC) System (up to 800 kV)	60
34	33	Gas Insulated Switchgear (up to 400 kV AC)	60
35	34	Gas Insulated Switchgear (above 400 kV AC)	50
36	35	Surge/Lightning Arrester (up to 765 kV AC)	60
37	36	Power Capacitors	60
38	37	Packaged Sub-station (6.6 kV to 33 kV)	60
39	38	Ring Main Unit (RMU) (up to 33 kV)	60
40	39	Medium Voltage (MV) GIS Panels (up to 33 kV)	60
41	40	Automation and Control System/Supervisory Control and data Acquisition (SCADA) System in Power System	50
42	41	Control and Relay Panel (including Digital/Numerical Relays)	50
43	42	Electrical Motors 0.37 kW to 1 MW	60
44	43	Energy Meters including Smart Meters	50
45	43.A	Head End System (HES)	100
46	43.B	Meter Data Management System (MDMS)	100
47	44	Control & power cables and Accessories (up to 1.1 kV)	60
48	45	Diesel Generating (DG) set	60
49	46	DC system (DC Battery & Battery Charger)	60
50	47	AC & DC Distribution Board	60
51	48	Indoor Air Insulated Switchgear (AIS) upto 33 kV	60
52	49	Poles (PCC, PSCC, Rolled Steel Joist, Rail Pole, Spun, Steel Tubular)	60
53	50	Material for Grounding/earthing system	60
54	51	Illumination system	60
55	52	Overhead Fault Sensing Indicator (FSI)	50
56	53	Power Quality Meters	50
57	54	Auxilliary Relays	50
58	55	Load Break Switch	50
		(B) Hydro Sector	
	56	Hydro Turbine & Associated equipment	
59		a) Francis Turbine	60
60		b) Kaplan Turbine	60
61		c) Pelton Turbine	50
62	57	Main Inlet Valve & Associated Equipment	60
63	58	Penstock Protection Valve and Associated Equipment	60
64	59	Governing system & Accessories	60
65	60	Generator for Hydro Project & Associated Equipment	60
66	61	Static Excitation System	60
67	62	Workshop Equipment	60
68	63	Cooling Water System	60
69	64	Compressed Air System	60
70	65	Drainage/Dewatering System	60
71	66	Fire Protection System	60
72	67	Heating, Ventilation & Air Conditioning System (HVAC)	60
73	68	Oil Handling System	60
74	69	Mechanical Balance of Plant (BOP) Items	60
		(C) Thermal Sector	
		Boiler Auxiliaries	

75	70	Air Pre-Heater	60
76	71	Steam Coil Air Pre Heater (SCAPH)	60
77	72	Steam soot blowers [wall blowers & Long Retractable Soot Blower (LRSB)]	60
78	73	Auxiliary Steam Pressure Reducing &Desuperheating (PRDS)	60
79	74	Fuel oil system	60
80	75	Seal air Fan	60
81	76	Ducts and dampers	60
82	77	Duct expansion joints	60
83	78	Blowdown tanks	60
84	79	Coal burners and oil burners	60
85	80	Coal mills	60
86	81	Gear Box of Coal Mill	50
87	82	Coal feeders	60
88	83	Primary Air Fans	60
89	84	Forced Draft Fans	60
90	85	Induced Draft Fans	60
91	86	Forced Draft (FD)/Induced Draft (ID)/ Primary Air (PA) Fan Servo Motor Assembly	50
92	87	Tubes (Carbon Steel)	50
93	88	Steam pipes (Carbon Steel)	50
94	89	Steam drum	50
95	90	Separator	50
96	91	Selective Catalytic Reduction (SCR)	50
		Electro-Static Precipitators (ESPs)	
97	92	Casing	60
98	93	Electrodes	60
99	94	Rapping System	60
100	95	Hopper Heaters	60
101	96	Transformer Rectifiers	60
102	97	Insulators	60
		Turbine & Auxiliaries	
103	98	Turbine (High Pressure/Intermediate Pressure/Low Pressure)	50
104	99	Condensate Extraction Pumps	60
105	100	Condenser On line Tube Cleaning System (COLTC)	60
106	101	Debris filters	60
107	102	Deaerator	60
108	103	Drain Cooler and Flash Tank	60
109	104	ECW Pump	50
110	105	Plate Heat Exchanger	50
111	106	Self- cleaning filters	50
112	107	Condensate Polishing Units (CPUs)	60
113	108	Chemical Dosing System	60
114	109	Oil Filter	60
115	110	Gland Steam Condenser	60
116	111	Oil Purifying Centrifuge	50
117	112	Water Cooled Condenser	50
118	113	Boiler Feed Pumps (BFPs)	50
		Generator and Auxillieries	
119	114	Generator (including Seal Oil System, Hydrogen Cooling System, Stator water cooling system)	60

		Electrical Works	
120	115	Control and metering equipment	60
		Control & Instrumentation System (C&I System)	
121	116	Thermocouples	50
122	117	Measuring instruments [Resistance Temperature Detectors (RTDs)], Local gauges	50
123	118	Actuators (Pneumatic and conventional electric)	50
124	119	Interplant Communication/ Public Address (PA) system except IP based	50
		Coal Handling Plant	
125	120	Conveyors	60
126	121	Wagon Tippler	60
127	122	Side Arm Charger	60
128	123	Paddle feeder	60
129	124	Crushers & Screens	60
130	125	Dust suppression (dry fog & plain water) system	60
131	126	Air Compressors	50
132	127	Magnetic separators & metal detectors	60
133	128	Coal Sampling System	60
134	129	Stacker cum reclaimer	60
135	130	Belt weighing & monitoring system.	60
136	131	Wheel & axle assembly (without bearings) for Bottom Opening Bottom Release (BOBR) Wagons	60
		Ash Handling System	
137	132	Clinker grinder	60
138	133	Water jet ejectors	60
139	134	Scrapper chain conveyor	60
140	135	Dry fly ash vacuum extraction system	60
141	136	Pressure pneumatic conveying system	60
142	137	Ash water & ash slurry pumps	60
143	138	Compressors, air dryers & air receivers	50
144	139	Ash water recovery system	60
		Raw Water Intake & Supply System	
145	140	Travelling water screens	60
146	141	Raw water supply pumps	60
147	142	Valves, RE joints etc.	60
		Water Treatment System and Effluent Treatment System	
148	143	Clarification plant	60
149	144	Filtration plant	60
150	145	Ultra filtration plant	50
151	146	Reverse Osmosis (RO) plant and its membrane	55
152	147	De-Mineralised water plant (DM Plant)	60
153	148	Chlorination plant	60
154	149	Chemical dosing system	60
155	150	Effluent Treatment Plant	60
		Circulationg Water (CW) & Auxiliary Circulating Water (ACW) System	
156	151	CW & ACW Pumps	60
157	152	Butter Fly (BF) valves, Non-return Valves (NRVs) etc.	60
158	153	Rubber Expansion (RE) joints	60
159	154	Air release valves	60
		Cooling Towers (NDCT/ IDCT)-Natural-Draft and Induced Draft Cooling Tower	
160	155	Water Distribution System	60

161	156	Spray nozzles	60
162	157	Packing	60
163	158	Drift eliminators	60
164	159	Cooling Tower (CT) Fans (for Induced Draft Cooling Towers IDCT)	60
165	160	Gear boxes, shafts & motors (for IDCT)	60
		Air Conditioning & Ventilation System	
166	161	Split & window air conditioners	60
167	162	Chilling/ condensing unit [upto 500 ton of refrigeration(TR)]	55
168	163	Air Handling Unit (AHU) and Fresh air unit	60
169	164	Cooling Towers	60
170	165	Air Washing Units (AWUs), axial fans, roof extractors	60
171	166	Ducts, louvers & dampers	60
		Flue Gas Desulphurization (FGD)	
172	167	Spray Nozzles,	50
173	168	Spray header	50
174	169	Oxidation Blowers	50
175	170	Limestone wet Ball Mill	50
176	171	Slurry Handling Pumps for FGD system	50
177	172	Booster Fans for FGD system	50
178	173	Carbon Steel Ducts and Dampers for FGD	60
179	174	Storage Tanks and Silos	60
180	175	Process Water Pump for FGD system	50
	(D) Other Common Items		
		Fire protection and detection system	
181	176	Motor driven fire water pumps	60
182	177	Diesel engine driven fire water pumps	60
183	178	Hydrant system for the power plant.	60
184	179	High velocity water spray system	60
185	180	Medium velocity water spray system	60
186	181	Foam protection system	60
187	182	Inert gas flooding system	60
188	183	Fire tenders	60
189	184	Portable fire-extinguishers	60
190	185	Cranes, EOT cranes, gantry crane & chain pulley blocks etc.	60
191	186	Elevator	60
	(E) Minimum Local Content percentages in Engineering, Procurement & Construction (EPC) / Turnkey project		
	In case the contract is awarded through the EPC route, the contractor should comply with the requirement of MLC for individual items as listed in Annexure-I and should purchase these items only from Class-I Local supplier. In addition, MLC for complete EPC project may also be prescribed as below:		
		(1) Package Based Works	**Minimum Local Content (%)**
192	1	Boiler	60
193	2	TG System (Water Cooled Condenser)	60
194	3	Ash Handling Plant	60
195	4	Coal Handling Plant	60
196	5	Electro-static Precipitator (ESP)	60
197	6	Circulating Water (CW) System	60
198	7	Cooling Tower	60
199	8	Water Treatment System	60
200	9	Air Conditioning System (below 500TR)	60

201	10	Flue Gas Desusphurisation (FGD) System	60
202	11	Station Control & Instrumentation (C&I)	50
203	12	Hydro Power Projects (Electro-Mechanical Works)	60
		Gas based generation	
		Overall Gas Turbine Package (on finished Product basis)	
204	13	< 44 MW	60
205	14	44 –145 MW	50
		Overall Combined Cycle Gas Turbine (CCGT) Package (on finished Product basis)	
206	15	< 44 MW	60
207	16	44 – 145 MW	60
208	17	> 150 MW	60
		(2) Project as a whole	
209	1	Works and service contracts in Power Sector	60
210	2	Transmission Line with Conventional conductors (ACSR, AAAC, AL-59 etc.)	60
211	3	Transmission Line with High temperature Low Sag (HTLS) conductors	60
212	4	HVAC Substation Air Insulated (AIS)	60
213	5	HVAC Substation Gas Insulated (GIS)	60
214	6	HVDC Substation	60
215	7	Distribution Sector	60

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GOVERNMENT OF INDIA
MINISTRY OF POWER

RAJYA SABHA
UNSTARRED QUESTION NO.2701
ANSWERED ON 16.03.2026

PROGRESS ON SUBANSIRI LOWER HYDROELECTRIC PROJECT

2701 # SMT. MAYA NAROLIYA:

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

(a) the significance of the Subansiri Lower Hydroelectric Project and the impact of thecommercial operation of unit-2 on renewable energy generation and grid stability;

(b) the timeline for commissioning of the remaining units and the estimated total installedcapacity upon completion of the project;

(c) the measures taken by Government to ensure environmental sustainability, river basinmanagement and safety during the commissioning and operation of the project; and

(d) the steps being taken to benefit the local communities and stakeholders of the Subansiririver basin through the project, in terms of employment generation, local development and improved electricity access?

A N S W E R

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI SHRIPAD NAIK)

(a) & (b): The Subansiri Lower Hydroelectric Project (HEP), located on the Subansiri River at the border of Arunachal Pradesh and Assam, with a total installed capacity of 2000 MW (eight units of 250 MW each), is being implemented by NHPC Limited. Out of the eight units, two units have been commissioned and the power generated is being supplied to the beneficiaries of this project. The remaining units are planned to be commissioned in a phased manner till Dec'26. Upon completion, the project is expected to generate about 7,422 Million Units (MU) of electricity annually, thereby contributing significantly to the country's renewable energy generation. The project is also envisaged to provide flood moderation benefits in the Brahmaputra Valley besides supporting grid stability by balancing intermittent renewable energy sources such as solar and wind energy, as well as by providing peaking power support to the national grid.

(c): The Subansiri Lower HEP has been accorded statutory clearances relating to Environment and Forest by the concerned authorities. In addition, the riverbank protection and erosion control measures have been implemented by NHPC Limited in the downstream of the project. Further, the dam safety aspects are being ensured in accordance with the provisions of the Dam Safety Act, 2021 under the guidance and recommendations of the National Dam Safety Authority (NDSA).

(d): The various initiatives have been taken by NHPC Limited to benefit the local communities and stakeholders of the project. During the construction stage, employment opportunities have been provided to about 7,000 local workers. NHPC Limited is also implementing Corporate Social Responsibility (CSR) initiatives in sectors such as education, skill development, health, sanitation and rural development for the benefit of local communities. In addition, NHPC has implemented various livelihood programmes benefiting about 5,000 women. The project has also contributed to development of local infrastructure, including roads & bridges, thereby improving connectivity for nearby villages.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

RAJYA SABHA
UNSTARRED QUESTION NO.2702
ANSWERED ON 16.03.2026

STATUS ON EMISSION STANDARDS COMPLIANCE BY THERMAL POWER PLANTS

2702 MS. SWATI MALIWAL:

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

(a) the number of coal-based thermal power plants in the country over the last five years,State-wise, with installed, operational and idle capacities, year-wise;

(b) the number of plants with Continuous Emission Monitoring Systems (CEMS) installed,operational, and reporting, with timelines for pending installations;

(c) instances of exceedance of prescribed emission norms, penalties imposed, collected, orpending, State-wise and year-wise;

(d) the status of modernisation and efficiency upgrades including supercritical/ultra-supercritical retrofits; and

(e) steps taken to ensure compliance with emission standards and improve monitoringmechanisms?

A N S W E R

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI SHRIPAD NAIK)

(a): As on 31.01.2026, there are 201 coal and lignite based thermal power plants, of central generation companies (GENCOs), state GENCOS and Independent Power Producers (IPPs), operational in the country with a total of about 227.83 GW of capacity. The details of State-Wise, Station-Wise Generation Data for the last 5 years (2019-20 to 2024-25) and current financial year 2025-26 (upto Jan'26) are given at **Annexure-I.**

(b), (c) & (e): (i) State Pollution Control Boards (SPCBs)/ Pollution Control Committees (PCCs) have been directed by Central Pollution Control Board (CPCB) to ensure installation of Online Continuous Emission & Effluent Monitoring System (OCEMS) in 17 categories of industries (including thermal power plants (TPPs)) and also directed to incorporate specific condition in the Consent to Operate Order (CTO) for OCEMS in these industries, commissioned after 28.02.2017.

(ii) The OCEMS data is primarily for self-monitoring by the industries, which is shared with the CPCB and the concerned SPCB/PCC servers by the industries including TPPs. The list of Industries connected with Central Pollution Control Board (CPCB) server under Power Plant category (as of date 06.03.2026) is given as **Annexure-II.**

(iii) The environmental compliance of power plants is primarily enforced by the respective State Pollution Control Boards (SPCBs) or Pollution Control Committees (PCCs) through the consent mechanism. Based on emission monitoring carried out by CPCB, CPCB has issued Show-Cause Notice cum Directions to 03 Thermal Power Plants [Unit 2 of M/s Bhavnagar Lignite TPS, GSECL, Gujarat, Unit 1,2& 3 of Shri DamodaramSanjeevaiah Thermal Power Station (Stage I & II) & Unit 4 to 8 of M/s Raichur Thermal Power Station, KPCL, Karnataka] due to violation of prescribed emission standards. Further, direction under section 5 of Environment (Protection) Act (EPA), 1986 is issued to 01 Thermal Power Plant [Unit 6 & 8 of M/s Maharashtra State Power Generation Co, Ltd. (MAHAGENCO), Parli Thermal Power Station].

(iv) The Thermal Power Plants are regulated and monitored through SPCBs as per the provisions of Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981.

(v) In case of non-compliance beyond the prescribed timelines, the following Environmental Compensation will be levied on non-compliant TPPs:

Non-Compliant operation beyond the Timeline	**EnvironmentalCompensations (Rs.Per unit electricity generated)**
0-180days	0.20
181-365days	0.30
366daysandbeyond	0.40

(d): Central Electricity Authority (CEA) has identified 223 units with total capacity of 63,440 MW as potential candidates for Renovation and Modernization/ Life Extension (R&M/LE) works with age older than 20 years as on December, 2022. R&M/LE works in these units have to be implemented in nine phases to avoid any major energy demand- supply gap.

The phasing plan of 223 units along with tentative timelines for implementation of R&M/LE intervention is given as under:

Phase	**Timeline**	**Central Sector Units**	**Central Sector Capacity (in MW)**	**State Sector Units**	**State Sector Capacity (in MW)**	**Private Sector Units**	**Private Sector Capacity (in MW)**	**Total Units**	**Total Capacity (in MW)**
Phase 1	01-01-2024 to 30-06-2026	11	2,230	25	5,230	1	500	37	**7,960**
Phase 2	01-07-2026 to 31-12-2028	18	5,170	10	2,140	0	0	28	**7,310**
Phase 3	01-01-2029 to 30-06-2031	12	2,810	14	3,560	0	0	26	**6,370**
Phase 4	01-07-2031 to 31-12-2033	8	2,550	15	3,730	2	500	25	**6,780**
Phase 5	01-01-2034 to 30-06-2036	5	1,630	17	4,330	3	750	25	**6,710**
Phase 6	01-07-2036 to 31-12-2038	12	5,420	8	2,175	0	0	20	**7,595**

Phase 7	01-01-2039 to 30-06-2041	5	2,000	16	4,590	4	1,000	25	**7,590**
Phase 8	01-07-2041 to 31-12-2043	5	1,740	9	2,655	9	2,660	23	**7,055**
Phase 9	01-01-2044 to 30-06-2046	5	2,490	2	460	7	3,120	14	**6,070**
Total	**Overall**	**81**	**26,040**	**116**	**28,870**	**26**	**8,530**	**223**	**63,440**

The first phase of Renovation and Modernisation (R&M) plan is effective from 01.01.2024 to 30.06.2026. The details of R&M status of 37 units of 7,960 MW installed capacity is given as under:

i. Central Sector: Out of 11 TPP units of 2,230 MW installed capacity, 8 units of 1,600 MW installed capacity are undergoing need based R&M and remaining 3 units of 630 MW installed capacity are under implementation of R&M programme.

ii. State Sector: Out of 25 units of 5,230 MW installed capacity, 9 units of 1,890 MW installed capacity are undergoing need based R&M, 10 units of 2,090 MW installed capacity are under implementation of R&M programme, 2 units of 420 MW installed capacity are undergoing R&M and Life extension study. Remaining 4 units of 830 MW installed capacity has been retired.

iii. Private Sector: 1 unit of 500 MW installed capacity does not intend to carry out R&M as PPA is only for 5 years with minimum allowed capex.

Further, installation of efficient Supercritical/ Ultra Super-critical units over Subcritical Thermal Units is promoted as these units are more efficient and their CO_2 emission per unit of electricity generation is less than subcritical units. This results in corresponding savings in coal consumption and a reduction in greenhouse gas (GHG) emissions. A total capacity of 72,450 MW (104 units) of Supercritical units and 8,340 MW (12 units) of Ultra-Supercritical units has been commissioned till 28.02.2026. Presently, there is no retrofit option for upgrading an existing sub-critical TPP into super-critical/ultra-supercritical TPP.

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ANNEXURE-I

ANNEXURE REFERRED IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 2702 ANSWERED IN THE RAJYA SABHA ON 16.03.2026

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The details of State-Wise & Coal & Lignite Based Power Station-Wise Generation Data for FY 2025-26 (Till 31.01.2026).

Sl.No	State	Station Name	Monitored Capacity (MW)	Generation (MUs)
			FY 2025-26 (upto Jan'26)	
A. Coal Based Power Stations				
1	**Andhra Pradesh**	DAMODARAM SANJEEVAIAH TPS	2,400.00	9,843.35
2		Dr. N.TATA RAO TPS	2,560.00	11,413.87
3		PAINAMPURAM TPP	1,320.00	6,604.05
4		RAYALASEEMA TPS	1,650.00	7,175.35
5		SGPL TPP	1,320.00	7,901.48
6		SIMHADRI	2,000.00	9,153.38
7		SIMHAPURI TPS	600.00	2,272.83
8		MEENAKSHI ENERGY LTD	1,000.00	1,374.21
9		VIZAG TPP	1,040.00	4,319.05
10	**Assam**	BONGAIGAON TPP	750.00	3,725.47
11	**Bihar**	BARAUNI TPS	500.00	2,890.04
12		BARH STPS	3,300.00	14,173.51
13		BUXAR TPP	660.00	583.85
14		KAHALGAON TPS	2,340.00	13,073.16
15		MUZAFFARPUR TPS	390.00	2,053.09
16		NABINAGAR STPP	1,980.00	10,662.52
17		NABINAGAR TPP	1,000.00	5,116.80
18	**Chhattisgarh**	ADANI POWER LIMITED RAIGARH TPP	600.00	3,098.01
19		ADANI POWER LIMITED RAIPUR TPP	1,370.00	6,781.74
20		JSW Mahanadi Power Company Limited	1,800.00	9,897.53
21		BALCO TPS	600.00	3,245.05
22		BANDAKHAR TPP	300.00	1,782.24
23		BARADARHA TPS	1,200.00	7,361.57
24		BHILAI TPS	500.00	3,010.34
25		BINJKOTE TPP	600.00	3,475.78
26		CHAKABURA TPP	30.00	171.93
27		DSPM TPS	500.00	3,300.69
28		KASAIPALLI TPP	270.00	1,307.50
29		KORBA STPS	2,600.00	16,560.81
30		KORBA-WEST TPS	1,340.00	6,854.45
31		LARA TPP	1,600.00	10,110.77
32		MARWA TPS	1,000.00	5,348.75

33		NAWAPARA TPP	600.00	3,320.41
34		OP JINDAL TPS	1,000.00	6,351.58
35		PATHADI TPP	600.00	3,598.46
36		RATIJA TPS	100.00	526.10
37		SIPAT STPS	2,980.00	17,564.89
38		SVPL TPP	63.00	303.99
39		TAMNAR TPP	2,400.00	15,067.91
40		UCHPINDA TPP	1,440.00	6,753.71
41		Vedanta Ltd Chhattisgarh TPP	600.00	1,715.83
42	**Gujarat**	ADANI POWER LIMITED MUNDRA TPP - I & II	2,640.00	11,204.04
43		ADANI POWER LIMITED MUNDRA TPP - III	1,980.00	9,908.13
44		GANDHI NAGAR TPS	630.00	1,027.24
45		MUNDRA UMTPP	4,000.00	6,414.01
46		SABARMATI (D-F STATIONS)	362.00	2,076.88
47		SALAYA TPP	1,200.00	4,955.96
48		SIKKA REP. TPS	500.00	400.92
49		UKAI TPS	1,110.00	4,657.38
50		WANAKBORI TPS	2,270.00	6,516.64
51	**Haryana**	INDIRA GANDHI STPP	1,500.00	6,418.00
52		MAHATMA GANDHI TPS	1,320.00	6,055.18
53		PANIPAT TPS	710.00	2,720.96
54		RAJIV GANDHI TPS	1,200.00	3,537.76
55		YAMUNA NAGAR TPS	600.00	3,036.17
56	**Jharkhand**	BOKARO TPS `A` EXP	500.00	2,149.34
57		CHANDRAPURA(DVC) TPS	500.00	2,476.96
58		JOJOBERA TPS	240.00	1,373.99
59		KODARMA TPP	1,000.00	5,058.11
60		MAHADEV PRASAD STPP	540.00	2,966.70
61		MAITHON RB TPP	1,050.00	5,692.97
62		NORTH KARANPURA TPP	1,980.00	10,287.47
63		PATRATU STPP	800.00	1,251.20
64		TENUGHAT TPS	420.00	1,654.40
65	**Karnataka**	ADANI POWER LIMITED UDUPI TPP	1,200.00	4,120.65
66		BELLARY TPS	1,700.00	6,727.52
67		KUDGI STPP	2,400.00	8,010.25
68		RAICHUR TPS	1,720.00	6,115.50
69		TORANGALLU TPS(SBU-I)	260.00	1,691.14
70		TORANGALLU TPS(SBU-II)	600.00	3,003.67
71		YERMARUS TPP	1,600.00	4,297.06
72	**Madhya Pradesh**	AMARKANTAK EXT TPS	210.00	1,442.74
73		ANUPPUR TPP	1,250.00	7,014.88
74		BINA TPS	500.00	2,758.30
75		GADARWARA TPP	1,600.00	7,460.15
76		KHARGONE STPP	1,320.00	5,853.74
77		MAHAN TPP	1,200.00	6,690.25

78		NIGRI TPP	1,320.00	8,580.75
79		NIWARI TPP	90.00	458.59
80		SANJAY GANDHI TPS	1,340.00	6,398.03
81		SASAN UMTPP	3,960.00	25,109.05
82		SATPURA TPS	500.00	2,769.83
83		SEIONI TPP	600.00	3,237.44
84		SHREE SINGAJI TPP	2,520.00	11,422.99
85		VINDHYACHAL STPS	4,760.00	27,425.73
86	**Maharashtra**	ADANI POWER LIMITED TIRODA TPP	3,300.00	17,011.55
87		AMRAVATI TPS	1,350.00	8,012.42
88		BELA TPS	270.00	1,596.60
89		BHUSAWAL TPS	1,870.00	7,448.33
90		BUTIBORI TPP	600.00	1,969.39
91		CHANDRAPUR(MAHARASHTRA) STPS	2,920.00	11,624.10
92		DAHANU TPS	500.00	2,331.53
93		DHARIWAL TPP	600.00	3,715.77
94		GEPL TPP Ph-I	120.00	-
95		GMR WARORA TPS	600.00	3,681.57
96		JSW RATNAGIRI TPP	300.00	1,427.26
97		KHAPARKHEDA TPS	1,340.00	6,268.89
98		KORADI TPS	2,190.00	10,707.72
99		MAUDA TPS	2,320.00	12,420.10
100		MIHAN TPS	246.01	-
101		NASIK TPS	630.00	2,302.94
102		PARAS TPS	500.00	2,322.62
103		PARLI TPS	750.00	2,280.83
104		SHIRPUR TPP	300.00	1,525.84
105		SOLAPUR STPS	1,320.00	5,413.21
106		TROMBAY TPS	750.00	3,133.91
107		WARDHA WARORA TPP	540.00	3,207.81
108	**Odisha**	DARLIPALI STPS	1,600.00	9,625.40
109		DERANG TPP	1,200.00	7,525.53
110		IB VALLEY TPS	1,740.00	10,382.60
111		JSW Energy Utkal Limited	700.00	3,373.59
112		KAMALANGA TPS	1,050.00	6,595.26
113		Maadurga Thermal Power Company Ltd.	60.00	287.48
114		TALCHER STPS	3,000.00	17,120.36
115		VEDANTA TPP	600.00	2,189.18
116	**Punjab**	GH TPS (LEH.MOH.)	920.00	4,804.62
117		GOINDWAL SAHIB TPP	540.00	2,159.35
118		RAJPURA TPP	1,400.00	8,043.17
119		ROPAR TPS	840.00	3,580.79
120		TALWANDI SABO TPP	1,980.00	8,823.28

121		ADANI POWER LIMITED KAWAI TPP	1,320.00	6,654.73
122		CHHABRA-I PH-1 TPP	500.00	2,412.17
123		CHHABRA-I PH-2 TPP	500.00	2,681.35
124		CHHABRA-II TPP	1,320.00	5,048.04
125	**Rajasthan**	KALISINDH TPS	1,200.00	5,444.55
126		KOTA TPS	1,240.00	6,066.37
127		SHREE CEMENT LTD TPS	344.00	1,066.22
128		SURATGARH STPS	1,320.00	5,939.25
129		SURATGARH TPS	1,500.00	4,640.10
130		ITPCL TPP	1,200.00	4,756.45
131		METTUR TPS	840.00	3,817.05
132		METTUR TPS-II	600.00	2,166.24
133		MUTHIARA TPP	1,200.00	4,011.77
134		NORTH CHENNAI TPS STAGE 1	630.00	2,332.50
135		NORTH CHENNAI TPS STAGE 2	1,200.00	3,984.51
136		NTPL TUTICORIN TPP	1,000.00	4,356.02
137	**Tamil Nadu**	OPG Power Generation Private Limited	414.00	1,512.23
138		TCP Limited	63.50	-
139		TUTICORIN (P) TPP	300.00	-
140		TUTICORIN TPP ST-IV	525.00	2,390.57
141		TUTICORIN TPS	1,050.00	3,076.40
142		VALLUR TPP	1,500.00	6,359.56
143		NORTH CHENNAI TPS STAGE 3	800.00	121.99
144		BHADRADRI TPP	1,080.00	4,281.13
145		KAKATIYA TPS	1,100.00	6,059.42
146		KOTHAGUDEM TPS (NEW)	1,000.00	3,655.18
147		KOTHAGUDEM TPS (STAGE-7)	800.00	3,445.40
148	**Telangana**	RAMAGUNDEM STPS	2,600.00	11,339.58
149		RAMAGUNDEM-B TPS	62.50	-
150		SINGARENI TPP	1,200.00	6,246.79
151		TELANGANA STPP PH-1	1,600.00	7,887.77
152		YADADRI TPS	2,400.00	4,502.38
153		ANPARA C TPS	1,200.00	6,777.85
154		ANPARA TPS	2,630.00	15,170.04
155		BARKHERA TPS	90.00	274.50
156		DADRI (NCTPP)	1,820.00	7,441.85
157		GHATAMPUR TPP	1,320.00	3,378.27
158		HARDUAGANJ TPS	1,265.00	3,880.68
159	**Uttar Pradesh**	JAWAHARPUR STPP	1,320.00	2,114.38
160		KHAMBARKHERA TPS	90.00	263.23
161		KHURJA TPP	1,320.00	4,982.67
162		KUNDARKI TPS	90.00	279.02
163		LALITPUR TPS	1,980.00	9,885.83
164		MAQSOODPUR TPS	90.00	272.89

165		MEJA STPP	1,320.00	6,553.53
166		OBRA TPS	2,320.00	8,285.71
167		PANKI TPS EXT	660.00	1,673.42
168		PARICHHA TPS	920.00	3,977.31
169		PRAYAGRAJ TPP	1,980.00	10,734.22
170		RIHAND STPS	3,000.00	18,058.31
171		ROSA TPP Ph-I	1,200.00	5,811.22
172		SINGRAULI STPS	2,000.00	11,604.96
173		TANDA TPS	1,760.00	7,668.28
174		UNCHAHAR TPS	1,550.00	7,714.55
175		UTRAULA TPS	90.00	264.62
176	**West Bengal**	BAKRESWAR TPS	1,050.00	6,841.69
177		BANDEL TPS	270.00	1,664.51
178		BUDGE BUDGE TPS	750.00	4,416.03
179		D.P.L. TPS	550.00	2,898.40
180		DURGAPUR STEEL TPS	1,000.00	5,134.47
181		FARAKKA STPS	2,100.00	10,362.70
182		HALDIA TPP	600.00	4,166.18
183		HIRANMAYE TPP	300.00	1,462.36
184		KOLAGHAT TPS	840.00	4,472.33
185		MEJIA TPS	2,340.00	12,726.61
186		RAGHUNATHPUR TPP	1,200.00	5,554.44
187		SAGARDIGHI TPS	1,600.00	10,100.54
188		SANTALDIH TPS	500.00	3,350.62
189		SOUTHERN REPL. TPS	135.00	220.87
	Coal Based Sub Total		**2,21,210.01**	**10,31,882.53**
B. Lignite Based Power Stations				
1	Gujarat	AKRIMOTA LIG TPS	250.00	158.54
2		BHAVNAGAR CFBC TPP	500.00	1,421.09
3		KUTCH LIG. TPS	150.00	255.22
4		SURAT LIG. TPS	500.00	2,626.30
5	Rajasthan	BARSINGSAR LIGNITE	250.00	1,316.45
6		GIRAL TPS	250.00	-
7		JALIPA KAPURDI TPP	1,080.00	5,251.68
8	Tamil Nadu	NEYVELI (EXT) TPS	420.00	1,794.01
9		NEYVELI NEW TPP	1,000.00	4,648.32
10		NEYVELI TPS-II	1,470.00	4,665.65
11		NEYVELI TPS-II EXP	500.00	1,478.28
12		NEYVELI TPS(Z)	250.00	1,291.18
Lignite Based Sub Total			**6,620.00**	**24,906.72**
Grand Total (No of Plants =201 Nos)			**2,27,830.01**	**10,56,789.25**

The details of State-Wise & Coal & Lignite Based Power Station-Wise Generation Data for FY 2023-24 and 2024-25

Sl. No	State	Station Name	Capacity (MW)	Generation (MUs)	Capacity (MW)	Generation (MUs)
			FY 2023-24		FY 2024-25	
A. Coal Based Power Stations						
1	**Andhra Pradesh**	DAMODARAM SANJEEVAIAH TPS	2,400.00	9,751.63	2,400.00	11,859.81
2		Dr. N.TATA RAO TPS	2,560.00	12,062.94	2,560.00	14,381.73
3		PAINAMPURAM TPP	1,320.00	9,522.77	1,320.00	8,134.65
4		RAYALASEEMA TPS	1,650.00	10,423.04	1,650.00	9,318.22
5		SGPL TPP	1,320.00	9,287.00	1,320.00	9,485.55
6		SIMHADRI	2,000.00	11,641.37	2,000.00	12,233.13
7		SIMHAPURI TPS	600.00	3,098.28	600.00	3,252.71
8		THAMMINAPATNAM TPS	300.00	-	300.00	269.48
9		VIZAG TPP	1,040.00	5,454.21	1,040.00	3,897.66
10	**Assam**	BONGAIGAON TPP	750.00	5,058.11	750.00	4,787.20
11	**Bihar**	BARAUNI TPS	710.00	3,151.64	710.00	3,632.02
12		BARH STPS	2,640.00	14,392.04	2,640.00	16,667.03
13		KAHALGAON TPS	2,340.00	16,555.49	2,340.00	16,525.32
14		MUZAFFARPUR TPS	390.00	2,906.20	390.00	2,802.01
15		NABINAGAR STPP	1,980.00	14,411.96	1,980.00	14,044.14
16		NABINAGAR TPP	1,000.00	6,944.47	1,000.00	7,087.23
17	**Chhattisgarh**	ADANI POWER LIMITED RAIGARH TPP	600.00	3,971.95	600.00	4,370.64
18		ADANI POWER LIMITED RAIPUR TPP	1,370.00	8,687.26	1,370.00	9,395.44
19		AKALTARA TPS	1,800.00	10,716.06	1,800.00	10,630.78
20		BALCO TPS	600.00	3,259.83	600.00	4,031.65
21		BANDAKHAR TPP	300.00	2,176.19	300.00	1,958.01
22		BARADARHA TPS	1,200.00	9,004.67	1,200.00	8,917.50
23		BHILAI TPS	500.00	3,875.74	500.00	3,613.86
24		BINJKOTE TPP	600.00	2,949.11	600.00	3,704.52
25		CHAKABURA TPP	30.00	220.13	30.00	189.31
26		DSPM TPS	500.00	4,072.79	500.00	3,733.11
27		KASAIPALLI TPP	270.00	1,508.73	270.00	1,380.66
28		KATGHORA TPP	35.00	-	35.00	-
29		KORBA STPS	2,600.00	20,517.25	2,600.00	20,671.02
30		KORBA-WEST TPS	1,340.00	9,607.08	1,340.00	8,301.97
31		LARA TPP	1,600.00	11,751.56	1,600.00	12,648.07
32		MARWA TPS	1,000.00	7,388.58	1,000.00	6,804.82
33		NAWAPARA TPP	600.00	3,430.44	600.00	3,859.20
34		OP JINDAL TPS	1,000.00	7,517.45	1,000.00	7,293.09
35		PATHADI TPP	600.00	3,872.30	600.00	4,315.03
36		RATIJA TPS	100.00	643.65	100.00	607.61
37		SALORA TPP	135.00	-	135.00	-
38		SIPAT STPS	2,980.00	22,358.74	2,980.00	22,986.72
39		SVPL TPP	63.00	338.82	63.00	381.62
40		SWASTIK KORBA TPP	25.00	-	25.00	-
41		TAMNAR TPP	2,400.00	17,140.60	2,400.00	18,979.52

42		UCHPINDA TPP	1,440.00	7,379.70	1,440.00	7,657.23
43	**Gujarat**	ADANI POWER LIMITED MUNDRA TPP - I & II	2,640.00	10,639.41	2,640.00	16,762.56
44		ADANI POWER LIMITED MUNDRA TPP - III	1,980.00	11,847.96	1,980.00	11,990.52
45		GANDHI NAGAR TPS	630.00	2,966.65	630.00	2,373.57
46		MUNDRA UMTPP	4,000.00	20,275.93	4,000.00	23,655.33
47		SABARMATI (D-F STATIONS)	362.00	2,892.14	362.00	2,578.41
48		SALAYA TPP	1,200.00	4,029.55	1,200.00	5,707.94
49		SIKKA REP. TPS	500.00	784.77	500.00	889.64
50		UKAI TPS	1,110.00	5,274.58	1,110.00	5,683.31
51		WANAKBORI TPS	2,270.00	12,070.01	2,270.00	10,128.56
52	**Haryana**	INDIRA GANDHI STPP	1,500.00	8,284.84	1,500.00	8,711.53
53		MAHATMA GANDHI TPS	1,320.00	8,251.07	1,320.00	8,132.51
54		PANIPAT TPS	710.00	3,707.13	710.00	4,489.69
55		RAJIV GANDHI TPS	1,200.00	4,304.34	1,200.00	5,551.36
56		YAMUNA NAGAR TPS	600.00	3,512.77	600.00	3,343.47
57	**Jharkhand**	BOKARO TPS `A` EXP	500.00	3,607.92	500.00	3,188.70
58		CHANDRAPURA(DVC) TPS	500.00	3,747.66	500.00	3,479.40
59		JOJOBERA TPS	240.00	1,713.30	240.00	1,685.54
60		KODARMA TPP	1,000.00	7,066.86	1,000.00	7,358.35
61		MAHADEV PRASAD STPP	540.00	3,740.28	540.00	3,886.08
62		MAITHON RB TPP	1,050.00	8,179.04	1,050.00	7,253.28
63		NORTH KARANPURA TPP	1,320.00	5,335.16	1,320.00	9,708.54
64		TENUGHAT TPS	420.00	2,374.59	420.00	2,252.32
65	**Karnataka**	ADANI POWER LIMITED UDUPI TPP	1,200.00	5,655.83	1,200.00	5,450.40
66		BELLARY TPS	1,700.00	8,208.51	1,700.00	8,182.28
67		KUDGI STPP	2,400.00	12,092.37	2,400.00	12,090.09
68		RAICHUR TPS	1,720.00	7,875.64	1,720.00	8,310.39
69		TORANGALLU TPS(SBU-I)	260.00	1,711.45	260.00	1,595.43
70		TORANGALLU TPS(SBU-II)	600.00	2,693.49	600.00	2,825.05
71		YERMARUS TPP	1,600.00	6,229.29	1,600.00	5,914.29
72	**Madhya Pradesh**	AMARKANTAK EXT TPS	210.00	1,804.17	210.00	1,546.01
73		ANUPPUR TPP	1,250.00	8,429.27	1,250.00	8,515.23
74		BINA TPS	500.00	3,328.98	500.00	3,006.48
75		GADARWARA TPP	1,600.00	9,995.71	1,600.00	9,027.54
76		KHARGONE STPP	1,320.00	7,686.92	1,320.00	7,421.16
77		MAHAN TPP	1,200.00	6,736.17	1,200.00	8,324.39
78		NIGRI TPP	1,320.00	9,840.56	1,320.00	9,357.73
79		NIWARI TPP	90.00	540.25	90.00	526.85
80		SANJAY GANDHI TPS	1,340.00	7,991.71	1,340.00	8,445.18

81		SASAN UMTPP	3,960.00	32,529.74	3,960.00	31,425.10
82		SATPURA TPS	1,330.00	3,900.76	1,330.00	3,756.02
83		SEIONI TPP	600.00	3,596.53	600.00	3,216.46
84		SHREE SINGAJI TPP	2,520.00	14,912.41	2,520.00	15,042.59
85		VINDHYACHAL STPS	4,760.00	37,386.85	4,760.00	36,506.02
86	**Maharashtra**	ADANI POWER LIMITED TIRODA TPP	3,300.00	21,262.06	3,300.00	21,595.86
87		AMRAVATI TPS	1,350.00	9,758.55	1,350.00	9,278.91
88		BELA TPS	270.00	1,790.43	270.00	1,862.03
89		BHUSAWAL TPS	1,210.00	7,575.38	1,870.00	7,250.32
90		BUTIBORI TPP	600.00	-	600.00	-
91		CHANDRAPUR(MAHA RASHTRA) STPS	2,920.00	16,279.77	2,920.00	14,900.57
92		DAHANU TPS	500.00	3,248.48	500.00	3,200.80
93		DHARIWAL TPP	600.00	4,421.55	600.00	4,588.52
94		GEPL TPP Ph-I	120.00	-	120.00	-
95		GMR WARORA TPS	600.00	4,374.59	600.00	4,452.36
96		JSW RATNAGIRI TPP	300.00	1,975.40	300.00	1,971.76
97		KHAPARKHEDA TPS	1,340.00	8,267.44	1,340.00	8,811.42
98		KORADI TPS	2,190.00	13,173.34	2,190.00	13,608.83
99		MAUDA TPS	2,320.00	14,906.24	2,320.00	14,264.23
100		MIHAN TPS	246.01	-	246.01	-
101		NASIK (P) TPS	1,350.00	-	1,350.00	-
102		NASIK TPS	630.00	2,647.28	630.00	2,973.62
103		PARAS TPS	500.00	3,596.01	500.00	3,041.57
104		PARLI TPS	750.00	4,103.55	750.00	3,952.75
105		SHIRPUR TPP	300.00	334.11	300.00	1,487.97
106		SOLAPUR STPS	1,320.00	7,181.43	1,320.00	6,830.21
107		TROMBAY TPS	750.00	4,179.09	750.00	3,192.59
108		WARDHA WARORA TPP	540.00	3,850.10	540.00	3,892.91
109	**Odisha**	DARLIPALI STPS	1,600.00	12,054.96	1,600.00	12,096.12
110		DERANG TPP	1,200.00	8,289.60	1,200.00	9,043.44
111		IB VALLEY TPS	1,740.00	11,799.68	1,740.00	12,769.14
112		UTKAL TPP (IND BARATH)	350.00	262.99	350.00	1,984.08
113		KAMALANGA TPS	1,050.00	7,581.80	1,050.00	7,944.68
114		Maadurga Thermal Power Company Ltd.	-	-	60.00	197.15
115		TALCHER STPS	3,000.00	22,625.01	3,000.00	21,382.44
116		VEDANTA TPP	600.00	2,996.34	600.00	2,442.35
117	**Punjab**	GH TPS (LEH.MOH.)	920.00	4,639.97	920.00	4,865.76
118		GOINDWAL SAHIB TPP	540.00	2,464.79	540.00	3,061.23
119		RAJPURA TPP	1,400.00	10,344.57	1,400.00	10,085.85
120		ROPAR TPS	840.00	3,953.06	840.00	4,553.78
121		TALWANDI SABO TPP	1,980.00	11,060.46	1,980.00	11,008.59
122	**Rajasthan**	ADANI POWER LIMITED KAWAI TPP	1,320.00	8,881.72	1,320.00	9,177.28
123		CHHABRA-I PH-1 TPP	500.00	3,481.68	500.00	3,411.49
124		CHHABRA-I PH-2 TPP	500.00	2,544.58	500.00	3,590.70
125		CHHABRA-II TPP	1,320.00	7,229.32	1,320.00	8,017.52
126		KALISINDH TPS	1,200.00	7,062.75	1,200.00	7,565.81
127		KOTA TPS	1,240.00	8,482.51	1,240.00	8,796.64

128		SHREE CEMENT LTD TPS	300.00	445.25	300.00	1,377.53
129		SURATGARH STPS	1,320.00	6,489.12	1,320.00	6,952.58
130		SURATGARH TPS	1,500.00	7,084.69	1,500.00	7,655.53
131	**Tamil Nadu**	ITPCL TPP	1,200.00	7,440.83	1,200.00	6,936.33
132		METTUR TPS	840.00	5,805.22	840.00	4,989.65
133		METTUR TPS - II	600.00	3,202.15	600.00	2,704.65
134		MUTHIARA TPP	1,200.00	5,518.77	1,200.00	5,236.46
135		NORTH CHENNAI TPS	1,830.00	9,986.57	1,830.00	8,306.98
136		NTPL TUTICORIN TPP	1,000.00	5,462.36	1,000.00	5,236.46
137		OPG Power Generation Private Limited	414.00	492.17	414.00	2,323.98
138		TCP Limited	-	-	63.50	-
139		TUTICORIN (P) TPP	300.00	-	300.00	-
140		TUTICORIN TPP ST-IV	525.00	3,041.79	525.00	3,039.92
141		TUTICORIN TPS	1,050.00	6,485.17	1,050.00	5,941.41
142		VALLUR TPP	1,500.00	6,623.27	1,500.00	8,660.91
143	**Telangana**	BHADRADRI TPP	1,080.00	6,953.98	1,080.00	5,332.79
144		KAKATIYA TPS	1,100.00	8,227.68	1,100.00	6,443.45
145		KOTHAGUDEM TPS (NEW)	1,000.00	6,828.34	1,000.00	5,940.32
146		KOTHAGUDEM TPS (STAGE-7)	800.00	6,011.28	800.00	5,538.98
147		RAMAGUNDEM STPS	2,600.00	16,949.35	2,600.00	15,037.78
148		RAMAGUNDEM-B TPS	62.50	258.90	62.50	21.09
149		SINGARENI TPP	1,200.00	8,853.53	1,200.00	7,986.30
150		TELANGANA STPP PH-1	1,600.00	2,830.67	1,600.00	10,404.44
151		YADADRI TPS	-	-	800.00	264.05
152	**Uttar**	ANPARA C TPS	1,200.00	8,161.55	1,200.00	8,160.08
153	**Pradesh**	ANPARA TPS	2,630.00	17,256.44	2,630.00	17,006.56
154		BARKHERA TPS	90.00	347.29	90.00	387.62
155		DADRI (NCTPP)	1,820.00	9,982.72	1,820.00	9,901.80
156		GHATAMPUR TPP	-	-	660.00	1,053.22
157		HARDUAGANJ TPS	1,265.00	6,428.87	1,265.00	5,430.45
158		JAWAHARPUR STPP	660.00	-	1,320.00	2,405.03
159		KHAMBARKHERA TPS	90.00	339.87	90.00	389.34
160		KHURJA TPP	-	-	660.00	870.80
161		KUNDARKI TPS	90.00	326.46	90.00	374.97
162		LALITPUR TPS	1,980.00	12,352.91	1,980.00	12,551.42
163		MAQSOODPUR TPS	90.00	349.51	90.00	404.43
164		MEJA STPP	1,320.00	8,275.82	1,320.00	8,598.70
165		OBRA TPS	1,660.00	4,810.77	1,660.00	7,975.65
166		PANKI TPS EXT	-	-	660.00	-
167		PARICHHA TPS	920.00	5,208.04	920.00	5,439.03
168		PRAYAGRAJ TPP	1,980.00	12,699.02	1,980.00	12,987.15
169		RIHAND STPS	3,000.00	23,399.81	3,000.00	23,426.61
170		ROSA TPP Ph-I	1,200.00	7,609.70	1,200.00	7,402.50
171		SINGRAULI STPS	2,000.00	15,756.09	2,000.00	15,657.40
172		TANDA TPS	1,760.00	10,397.00	1,760.00	10,728.24
173		UNCHAHAR TPS	1,550.00	8,464.35	1,550.00	9,815.70
174		UTRAULA TPS	90.00	338.98	90.00	370.60

175	**West Bengal**	BAKRESWAR TPS	1,050.00	8,155.93	1,050.00	8,583.13
176		BANDEL TPS	270.00	1,774.69	270.00	2,158.88
177		BUDGE BUDGE TPS	750.00	5,734.98	750.00	5,489.13
178		D.P.L. TPS	550.00	2,375.21	550.00	3,887.17
179		DISHERGARH TPP	12.00	46.52	12.00	41.19
180		DURGAPUR STEEL TPS	1,000.00	7,079.73	1,000.00	7,058.57
181		FARAKKA STPS	2,100.00	13,784.22	2,100.00	14,023.79
182		HALDIA TPP	600.00	4,563.95	600.00	4,790.42
183		HIRANMAYE TPP	300.00	1,861.44	300.00	1,933.85
184		KOLAGHAT TPS	840.00	5,393.77	840.00	5,606.49
185		MEJIA TPS	2,340.00	15,670.77	2,340.00	15,711.73
186		RAGHUNATHPUR TPP	1,200.00	6,954.97	1,200.00	6,576.47
187		SAGARDIGHI TPS	1,600.00	11,527.89	1,600.00	12,734.18
188		SANTALDIH TPS	500.00	3,949.21	500.00	4,133.69
189		SOUTHERN REPL. TPS	135.00	640.68	135.00	439.48
190		TITAGARH TPS	240.00	-	240.00	-
Coal Based Sub Total			**2,10,969.51**	**12,60,902.62**	**2,15,193.01**	**12,98,872.29**
B. Lignite Based Power Stations						
1	Gujarat	AKRIMOTA LIG TPS	250.00	451.98	250.00	88.13
2		BHAVNAGAR CFBC TPP	500.00	1,874.93	500.00	1,521.86
3		KUTCH LIG. TPS	150.00	404.40	150.00	470.98
4		SURAT LIG. TPS	500.00	3,085.12	500.00	3,164.78
5	Rajasthan	BARSINGSAR LIGNITE	250.00	1,692.16	250.00	1,759.56
6		GIRAL TPS	250.00	0.00	250.00	0.00
7		JALIPA KAPURDI TPP	1,080.00	7,084.30	1,080.00	6,760.62
8	Tamil Nadu	NEYVELI (EXT) TPS	420.00	2,871.16	420.00	3,006.93
9		NEYVELI NEW TPP	1,000.00	7,073.21	1,000.00	6,729.57
10		NEYVELI TPS-II	1,470.00	5,756.11	1,470.00	6,760.01
11		NEYVELI TPS-II EXP	500.00	2,154.85	500.00	1,074.46
12		NEYVELI TPS(Z)	250.00	1,501.57	250.00	1,657.87
Lignite Based Sub Total			**6,620.00**	**33,949.79**	**6,620.00**	**32,994.77**
Grand Total			**2,17,589.51**	**12,94,852.41**	**2,21,813.01**	**13,31,867.06**

The details of State-Wise & Coal & Lignite Based Power Station-Wise Generation Data for FY 2021-22 & 2022-23

Sl. No.	State	Station Name	Capacity (MW)	Generation (MUs)	Capacity (MW)	Generation (MUs)
			2021-22		2022-23	
A. Coal Based Power Stations						
1	**Andhra Pradesh**	DAMODARAM SANJEEVAIAH TPS	1,600.00	5,672.41	2,400.00	5,883.05
2		Dr. N.TATA RAO TPS	1,760.00	11,591.18	1,760.00	11,121.58
3		PAINAMPURAM TPP	1,320.00	9,331.61	1,320.00	8,897.49
4		RAYALASEEMA TPS	1,650.00	6,828.52	1,650.00	9,313.14
5		SGPL TPP	1,320.00	7,629.01	1,320.00	8,101.71
6		SIMHADRI	2,000.00	11,570.21	2,000.00	12,641.29
7		SIMHAPURI TPS	600.00	0.00	600.00	135.53
8		THAMMINAPATNAM TPS	300.00	422.41	300.00	0.00
9		VIZAG TPP	1,040.00	281.39	1,040.00	4,838.14
10	**Assam**	BONGAIGAON TPP	750.00	4,201.45	750.00	5,026.24
11	**Bihar**	BARAUNI TPS	710.00	2,410.67	710.00	3,622.80
12		BARH STPS	1,980.00	8,821.55	1,980.00	13,138.38
13		KAHALGAON TPS	2,340.00	16,026.71	2,340.00	15,595.60
14		MUZAFFARPUR TPS	390.00	2,849.53	390.00	2,991.96
15		NABINAGAR STPP	1,980.00	8,138.21	1,980.00	12,924.67
16		NABINAGAR TPP	1,000.00	5,693.73	1,000.00	6,926.80
17	**Chhattisgarh**	AKALTARA TPS	1,800.00	9,005.13	1,800.00	10,630.91
18		ADANI POWER LIMITED RAIGARH TPP	600.00	3,704.70	600.00	3,968.28
19		BALCO TPS	600.00	3,438.03	600.00	2,541.09
20		BANDAKHAR TPP	300.00	2,162.84	300.00	1,513.15
21		BARADARHA TPS	1,200.00	8,633.69	1,200.00	7,632.45
22		BHILAI TPS	500.00	3,517.73	500.00	3,791.95
23		BINJKOTE TPP	600.00	1,664.15	600.00	1,452.13
24		CHAKABURA TPP	30.00	104.40	30.00	195.15
25		DSPM TPS	500.00	3,908.44	500.00	3,648.13
26		KASAIPALLI TPP	270.00	1,391.81	270.00	1,139.39
27		KATGHORA TPP	35.00	0.00	35.00	0.00
28		KORBA STPS	2,600.00	21,245.37	2,600.00	20,759.68
29		KORBA-WEST TPS	1,340.00	8,778.11	1,340.00	9,686.01
30		LARA TPP	1,600.00	11,365.81	1,600.00	11,685.41
31		MARWA TPS	1,000.00	4,827.36	1,000.00	4,375.48
32		NAWAPARA TPP	600.00	693.79	600.00	2,588.65
33		OP JINDAL TPS	1,000.00	5,225.88	1,000.00	5,990.97
34		PATHADI TPP	600.00	4,024.01	600.00	3,235.81
35		ADANI POWER LIMITED RAIPUR TPP	1,370.00	8,834.61	1,370.00	7,084.49
36		RATIJA TPS	100.00	663.75	100.00	537.07
37		SALORA TPP	135.00	0.00	135.00	0.00
38		SIPAT STPS	2,980.00	21,220.75	2,980.00	21,168.02
39		SVPL TPP	63.00	0.00	63.00	0.00
40		SWASTIK KORBA TPP	25.00	0.00	25.00	0.00
41		TAMNAR TPP	2,400.00	9,587.90	2,400.00	12,977.06
42		UCHPINDA TPP	1,440.00	6,872.61	1,440.00	5,997.92

43	**Gujarat**	GANDHI NAGAR TPS	630.00	3,313.29	630.00	3,694.55
44		ADANI POWER LIMITED MUNDRA TPP - III	1,980.00	2,982.15	1,980.00	3,784.88
45		ADANI POWER LIMITED MUNDRA TPP - I & II	2,640.00	8,980.02	2,640.00	5,690.16
46		MUNDRA UMTPP	4,000.00	9,088.34	4,000.00	11,730.07
47		SABARMATI (D-F STATIONS)	362.00	2,437.82	362.00	2,798.01
48		SALAYA TPP	1,200.00	0.00	1,200.00	2,056.52
49		SIKKA REP. TPS	500.00	962.12	500.00	1,563.82
50		UKAI TPS	1,110.00	5,027.92	1,110.00	5,431.52
51		WANAKBORI TPS	2,270.00	11,092.74	2,270.00	10,847.05
52	**Haryana**	INDIRA GANDHI STPP	1,500.00	7,051.21	1,500.00	8,268.17
53		MAHATMA GANDHI TPS	1,320.00	7,756.83	1,320.00	8,145.93
54		PANIPAT TPS	710.00	2,754.95	710.00	4,859.39
55		RAJIV GANDHI TPS	1,200.00	2,674.31	1,200.00	6,636.56
56		YAMUNA NAGAR TPS	600.00	2,610.13	600.00	4,226.63
57	**Jharkhand**	BOKARO TPS `A` EXP	500.00	2,996.83	500.00	3,796.11
58		CHANDRAPURA(DVC) TPS	500.00	3,815.98	500.00	3,478.12
59		JOJOBERA TPS	240.00	1,615.14	240.00	1,788.09
60		KODARMA TPP	1,000.00	6,930.26	1,000.00	7,269.56
61		MAHADEV PRASAD STPP	540.00	3,724.14	540.00	3,497.06
62		MAITHON RB TPP	1,050.00	7,489.25	1,050.00	7,558.98
63		NORTH KARANPURA TPP	-	-	660.00	499.32
64		TENUGHAT TPS	420.00	1,767.12	420.00	2,585.54
65	**Karnataka**	BELLARY TPS	1,700.00	6,616.60	1,700.00	7,096.67
66		KUDGI STPP	2,400.00	6,709.08	2,400.00	11,330.75
67		RAICHUR TPS	1,720.00	6,700.99	1,720.00	6,582.65
68		TORANGALLU TPS(SBU-I)	260.00	1,428.38	260.00	1,835.47
69		TORANGALLU TPS(SBU-II)	600.00	1,957.41	600.00	2,018.43
70		ADANI POWER LIMITED UDUPI TPP	1,200.00	1,712.43	1,200.00	1,410.93
71		YERMARUS TPP	1,600.00	5,380.37	1,600.00	4,739.40
72	**Madhya Pradesh**	AMARKANTAK EXT TPS	210.00	1,507.83	210.00	1,433.97
73		ANUPPUR TPP	1,200.00	7,715.95	1,200.00	7,518.22
74		BINA TPS	500.00	2,508.67	500.00	2,979.74
75		GADARWARA TPP	1,600.00	7,965.67	1,600.00	9,390.94
76		KHARGONE STPP	1,320.00	6,343.97	1,320.00	5,630.45
77		MAHAN TPP	1,200.00	3,431.14	1,200.00	3,782.92
78		NIGRI TPP	1,320.00	8,381.90	1,320.00	8,036.35
79		NIWARI TPP	90.00	167.99	90.00	318.71
80		SANJAY GANDHI TPS	1,340.00	6,631.59	1,340.00	8,782.77
81		SASAN UMTPP	3,960.00	32,673.14	3,960.00	29,763.91
82		SATPURA TPS	1,330.00	3,449.85	1,330.00	3,968.04
83		SEIONI TPP	600.00	3,708.01	600.00	3,727.99
84		SHREE SINGAJI TPP	2,520.00	9,418.46	2,520.00	13,167.30
85		VINDHYACHAL STPS	4,760.00	35,730.28	4,760.00	37,337.16

86	**Maharashtra**	AMRAVATI TPS	1,350.00	8,880.99	1,350.00	9,127.46
87		BELA TPS	270.00	0.00	270.00	759.21
88		BHUSAWAL TPS	1,210.00	6,158.13	1,210.00	6,835.02
89		BUTIBORI TPP	600.00	0.00	600.00	0.00
90		CHANDRAPUR(MAHARASHTRA) STPS	2,920.00	14,991.95	2,920.00	15,067.28
91		DAHANU TPS	500.00	3,337.86	500.00	3,498.90
92		DHARIWAL TPP	600.00	3,990.83	600.00	4,229.47
93		GEPL TPP Ph-I	120.00	0.00	120.00	0.00
94		GMR WARORA TPS	600.00	3,478.26	600.00	4,318.74
95		JSW RATNAGIRI TPP	300.00	3,417.94	300.00	676.13
96		KHAPARKHEDA TPS	1,340.00	7,140.51	1,340.00	7,775.49
97		KORADI TPS	2,190.00	11,746.63	2,190.00	12,399.53
98		MAUDA TPS	2,320.00	12,205.51	2,320.00	14,714.12
99		MIHAN TPS	246.00	0.00	246.00	0.00
100		NASIK (P) TPS	1,350.00	0.00	1,350.00	0.00
101		NASIK TPS	630.00	2,014.02	630.00	2,666.36
102		PARAS TPS	500.00	2,634.60	500.00	3,069.69
103		PARLI TPS	750.00	2,950.05	750.00	3,927.99
104		SHIRPUR TPP	150.00	0.00	150.00	0.00
105		SOLAPUR STPS	1,320.00	5,081.29	1,320.00	5,879.54
106		ADANI POWER LIMITED TIRODA TPP	3,300.00	21,647.19	3,300.00	22,600.44
107		TROMBAY TPS	750.00	4,550.60	750.00	4,147.53
108		WARDHA WARORA TPP	540.00	2,259.56	540.00	2,784.57
109	**Odisha**	DARLIPALI STPS	1,600.00	9,129.42	1,600.00	11,317.57
110		DERANG TPP	1,200.00	8,559.39	1,200.00	7,862.69
111		IB VALLEY TPS	1,740.00	10,199.41	1,740.00	11,724.28
112		KAMALANGA TPS	1,050.00	7,530.42	1,050.00	7,080.76
113		TALCHER STPS	3,000.00	22,123.45	3,000.00	23,223.19
114		UTKAL TPP (IND BARATH)	350.00	0.00	350.00	0.00
115		VEDANTA TPP	600.00	2,276.82	600.00	3,323.09
116	**Punjab**	GH TPS (LEH.MOH.)	920.00	2,007.29	920.00	3,917.16
117		GOINDWAL SAHIB TPP	540.00	1,884.24	540.00	2,141.36
118		RAJPURA TPP	1,400.00	9,654.01	1,400.00	10,379.53
119		ROPAR TPS	840.00	1,734.71	840.00	3,532.26
120		TALWANDI SABO TPP	1,980.00	8,895.57	1,980.00	11,535.85
121	**Rajasthan**	CHHABRA-II TPP	1,320.00	5,633.26	1,320.00	7,268.77
122		CHHABRA-I PH-1 TPP	500.00	2,547.02	500.00	3,192.78
123		CHHABRA-I PH-2 TPP	500.00	2,075.69	500.00	2,338.09
124		KALISINDH TPS	1,200.00	7,144.53	1,200.00	6,109.58
125		ADANI POWER LIMITED KAWAI TPP	1,320.00	8,345.81	1,320.00	8,920.29
126		KOTA TPS	1,240.00	6,904.60	1,240.00	7,979.25
127		SURATGARH STPS	1,320.00	4,474.19	1,320.00	4,683.88
128		SURATGARH TPS	1,500.00	3,721.27	1,500.00	6,474.04
129	**Tamil Nadu**	ITPCL TPP	1,200.00	3,093.68	1,200.00	2,302.51
130		METTUR TPS	840.00	4,795.92	840.00	5,395.76
131		METTUR TPS - II	600.00	2,763.78	600.00	3,000.69
132		MUTHIARA TPP	1,200.00	1,221.72	1,200.00	2,349.99

133		NORTH CHENNAI TPS	1,830.00	7,868.89	1,830.00	8,574.92
134		NTPL TUTICORIN TPP	1,000.00	4,182.47	1,000.00	5,930.01
135		TUTICORIN (P) TPP	300.00	0.00	300.00	0.00
136		TUTICORIN TPP ST-IV	525.00	0.00	525.00	922.46
137		TUTICORIN TPS	1,050.00	4,962.60	1,050.00	5,717.92
138		VALLUR TPP	1,500.00	7,913.49	1,500.00	9,566.74
139	**Telangana**	BHADRADRI TPP	1,080.00	5,098.49	1,080.00	6,136.87
140		KAKATIYA TPS	1,100.00	7,141.46	1,100.00	7,570.14
141		KOTHAGUDEM TPS (NEW)	1,000.00	6,376.97	1,000.00	7,184.59
142		KOTHAGUDEM TPS (STAGE-7)	800.00	5,856.82	800.00	4,211.26
143		RAMAGUNDEM-B TPS	62.50	273.39	62.50	271.26
144		RAMAGUNDEM STPS	2,600.00	17,450.00	2,600.00	16,059.37
145		SINGARENI TPP	1,200.00	9,352.93	1,200.00	9,304.71
146	**Uttar**	ANPARA C TPS	1,200.00	8,270.56	1,200.00	8,129.22
147	**Pradesh**	ANPARA TPS	2,630.00	17,428.19	2,630.00	18,347.23
148		BARKHERA TPS	90.00	200.16	90.00	290.68
149		DADRI (NCTPP)	1,820.00	5,723.77	1,820.00	10,703.99
150		HARDUAGANJ TPS	1,265.00	1,528.65	1,265.00	5,660.07
151		KHAMBARKHERA TPS	90.00	199.94	90.00	262.15
152		KUNDARKI TPS	90.00	280.07	90.00	319.34
153		LALITPUR TPS	1,980.00	9,551.59	1,980.00	11,334.39
154		MAQSOODPUR TPS	90.00	198.40	90.00	291.60
155		MEJA STPP	1,320.00	7,572.83	1,320.00	7,366.82
156		OBRA TPS	1,094.00	4,644.41	1,000.00	5,591.02
157		PARICHHA TPS	1,140.00	3,708.94	1,140.00	5,198.64
158		PRAYAGRAJ TPP	1,980.00	11,656.38	1,980.00	12,509.99
159		RIHAND STPS	3,000.00	22,406.34	3,000.00	23,368.30
160		ROSA TPP Ph-I	1,200.00	5,773.63	1,200.00	7,511.05
161		SINGRAULI STPS	2,000.00	14,453.81	2,000.00	15,332.74
162		TANDA TPS	1,760.00	8,616.41	1,760.00	10,039.63
163		UNCHAHAR TPS	1,550.00	8,242.66	1,550.00	8,615.27
164		UTRAULA TPS	90.00	242.19	90.00	282.86
165		BAKRESWAR TPS	1,050.00	8,288.17	1,050.00	8,497.25
166		BANDEL TPS	330.00	1,730.12	270.00	1,855.19
167		BUDGE BUDGE TPS	750.00	5,562.04	750.00	5,330.70
168		DISHERGARH TPP	12.00	0.00	12.00	43.50
169		D.P.L. TPS	550.00	2,567.62	550.00	2,707.16
170		DURGAPUR STEEL TPS	1,000.00	6,138.47	1,000.00	7,096.23
171	**West Bengal**	DURGAPUR TPS	210.00	215.11	-	-
172		FARAKKA STPS	2,100.00	12,421.57	2,100.00	12,402.37
173		HALDIA TPP	600.00	4,276.69	600.00	4,219.33
174		HIRANMAYE TPP	300.00	1,110.66	300.00	1,878.54
175		KOLAGHAT TPS	1,260.00	4,271.63	840.00	4,970.39
176		MEJIA TPS	2,340.00	14,599.25	2,340.00	15,668.23
177		RAGHUNATHPUR TPP	1,200.00	6,081.72	1,200.00	5,641.39

178		SAGARDIGHI TPS	1,600.00	11,885.63	1,600.00	12,529.57
179		SANTALDIH TPS	500.00	3,904.06	500.00	4,001.79
180		SOUTHERN REPL. TPS	135.00	164.03	135.00	635.69
181		TITAGARH TPS	240.00	0.00	240.00	0.00
Coal Based Sub Total			**2,04,559.50**	**10,41,487.43**	**2,05,235.50**	**11,45,907.58**
B. Lignite Based Power Stations						
1	Gujarat	AKRIMOTA LIG TPS	250.00	589.71	250.00	821.94
2		BHAVNAGAR CFBC TPP	500.00	1656.68	500.00	1340.41
3		KUTCH LIG. TPS	150.00	508.76	150.00	659.73
4		SURAT LIG. TPS	500.00	2928.87	500.00	2904.27
5	Rajasthan	BARSINGSAR LIGNITE	250.00	1627.84	250.00	1716.03
6		GIRAL TPS	250.00	0.00	250.00	0.00
7		JALIPA KAPURDI TPP	1080.00	7134.19	1080.00	7285.68
8	Tamil Nadu	NEYVELI (EXT) TPS	420.00	3266.37	420.00	3114.00
9		NEYVELI NEW TPP	1000.00	6177.93	1000.00	7156.19
10		NEYVELI TPS-II	1470.00	9623.91	1470.00	8000.26
11		NEYVELI TPS-II EXP	500.00	2041.50	500.00	1972.52
12		NEYVELI TPS(Z)	250.00	1538.28	250.00	1217.31
Lignite Based Sub Total			**6620.00**	**37094.04**	**6620.00**	**36188.34**
Grand Total			**2,11,179.50**	**10,78,581.47**	**2,11,855.50**	**11,82,095.92**

The details of State-Wise & Coal & Lignite Based Power Station-Wise Generation Data for FY 2019-20 and FY 2020-21.

Sl. No.	State	Station Name	Capacity (MW)	Generation (MUs)	Capacity (MW)	Generation (MUs)
			FY 2019-20		FY 2020-21	
A. Coal Based Power Stations						
1	**Andhra Pradesh**	DAMODARAM SANJEEVAIAH TPS	1,600.00	7,127.55	1,600.00	7,228.27
2		Dr. N.TATA RAO TPS	1,760.00	11,061.93	1,760.00	8,330.96
3		PAINAMPURAM TPP	1,320.00	10,302.97	1,320.00	8,992.83
4		RAYALASEEMA TPS	1,650.00	6,408.90	1,650.00	2,373.87
5		SGPL TPP	1,320.00	8,403.69	1,320.00	9,270.13
6		SIMHADRI	2,000.00	10,649.71	2,000.00	8,679.00
7		SIMHAPURI TPS	600.00	0.00	600.00	0.00
8		THAMMINAPATNAM TPS	300.00	0.00	300.00	126.83
9		VIZAG TPP	1,040.00	2,961.32	1,040.00	1,143.82
10	**Assam**	BONGAIGAON TPP	750.00	3,929.96	750.00	2,976.74
11	**Bihar**	BARAUNI TPS	710.00	228.69	710.00	1,362.95
12		BARH II	1,320.00	8,219.09	1,320.00	7,803.80
13		KAHALGAON TPS	2,340.00	16,504.46	2,340.00	13,231.15
14		MUZAFFARPUR TPS	610.00	2,904.66	610.00	2,468.93
15		NABINAGAR STPP	660.00	2,616.70	1,320.00	4,734.79
16		NABINAGAR TPP	750.00	4,887.16	750.00	4,264.52
17	**Chhattisgarh**	AKALTARA TPS	1,800.00	10,309.80	1,800.00	10,475.04
18		ADANI POWER LIMITED RAIGARH TPP	600.00	483.99	600.00	2,877.03
19		BALCO TPS	600.00	3,497.96	600.00	3,781.65
20		BANDAKHAR TPP	300.00	2,062.18	300.00	2,090.95
21		BARADARHA TPS	1,200.00	6,439.02	1,200.00	8,073.35
22		BHILAI TPS	500.00	2,745.97	500.00	3,209.98
23		BINJKOTE TPP	600.00	2,683.49	600.00	1,866.84
24		CHAKABURA TPP	30.00	235.35	30.00	204.38
25		DSPM TPS	500.00	3,847.87	500.00	3,336.85
26		KASAIPALLI TPP	270.00	1,695.85	270.00	1,404.55
27		KATGHORA TPP	35.00	0.00	35.00	0.00
28		KORBA-III	240.00	1,308.74	-	-
29		KORBA STPS	2,600.00	19,793.34	2,600.00	21,332.59
30		KORBA-WEST TPS	1,340.00	8,699.78	1,340.00	9,379.24
31		LARA TPP	800.00	2,752.24	1,600.00	6,096.63
32		MARWA TPS	1,000.00	4,356.14	1,000.00	4,542.20
33		NAWAPARA TPP	600.00	1,926.84	600.00	1,963.01
34		OP JINDAL TPS	1,000.00	2,341.80	1,000.00	4,397.99
35		PATHADI TPP	600.00	3,480.50	600.00	4,568.84
36		ADANI POWER LIMITED RAIPUR TPP	1,370.00	5,831.21	1,370.00	6,540.99
37		RATIJA TPS	100.00	714.20	100.00	483.68
38		SALORA TPP	135.00	0.00	135.00	0.00
39		SIPAT STPS	2,980.00	22,530.32	2,980.00	23,524.78
40		SVPL TPP	63.00	313.10	63.00	0.00
41		SWASTIK KORBA TPP	25.00	0.00	25.00	0.00
42		TAMNAR TPP	2,400.00	7,119.61	2,400.00	8,667.68
43		UCHPINDA TPP	1,440.00	2,822.97	1,440.00	4,820.53
44	**Gujarat**	GANDHI NAGAR TPS	630.00	1,709.10	630.00	1,464.48
45		MUNDRA TPS	4,620.00	29,825.01	4,620.00	25,664.98
46		MUNDRA UMTPP	4,000.00	26,495.39	4,000.00	26,208.53
47		SABARMATI (D-F STATIONS)	362.00	2,317.99	362.00	1,403.80
48		SALAYA TPP	1,200.00	4,589.86	1,200.00	4,048.87

49		SIKKA REP. TPS	500.00	2,711.25	500.00	1,836.22
50		UKAI TPS	1,110.00	5,781.18	1,110.00	4,601.92
51		WANAKBORI TPS	2,270.00	5,581.26	2,270.00	6,408.75
52	**Haryana**	INDIRA GANDHI STPP	1,500.00	3,842.82	1,500.00	3,654.73
53		MAHATMA GANDHI TPS	1,320.00	5,888.87	1,320.00	4,873.03
54		PANIPAT TPS	920.00	1,972.80	710.00	1,218.49
55		RAJIV GANDHI TPS	1,200.00	2,316.12	1,200.00	1,636.91
56		YAMUNA NAGAR TPS	600.00	2,741.24	600.00	2,611.42
57	**Jharkhand**	BOKARO `B` TPS	210.00	94.03	210.00	18.59
58		BOKARO TPS `A` EXP	500.00	2,689.99	500.00	3,271.47
59		CHANDRAPURA(DVC) TPS	630.00	3,425.71	500.00	3,268.59
60		JOJOBERA TPS	240.00	1,464.39	240.00	1,417.27
61		KODARMA TPP	1,000.00	6,459.72	1,000.00	7,508.95
62		MAHADEV PRASAD STPP	540.00	3,029.42	540.00	3,113.78
63		MAITHON RB TPP	1,050.00	6,488.20	1,050.00	6,383.36
64		TENUGHAT TPS	420.00	2,420.62	420.00	2,237.96
65	**Karnataka**	BELLARY TPS	1,700.00	4,050.40	1,700.00	3,094.68
66		KUDGI STPP	2,400.00	4,604.36	2,400.00	4,711.33
67		RAICHUR TPS	1,720.00	8,532.64	1,720.00	3,927.85
68		TORANGALLU TPS(SBU-I)	260.00	1,130.77	260.00	1,007.73
69		TORANGALLU TPS(SBU-II)	600.00	1,863.53	600.00	1,389.74
70		ADANI POWER LIMITED UDUPI TPP	1,200.00	3,277.94	1,200.00	2,350.12
71		YERMARUS TPP	1,600.00	376.78	1,600.00	3,379.79
72	**Madhya Pradesh**	AMARKANTAK EXT TPS	210.00	1,691.61	210.00	1,632.45
73		ANUPPUR TPP	1,200.00	6,267.72	1,200.00	6,654.31
74		BINA TPS	500.00	2,513.68	500.00	1,686.39
75		GADARWARA TPP	800.00	1,076.12	1,600.00	4,497.00
76		KHARGONE STPP	1,320.00	959.11	1,320.00	4,340.13
77		MAHAN TPP	1,200.00	3,281.04	1,200.00	2,889.61
78		NIGRI TPP	1,320.00	6,356.69	1,320.00	8,106.40
79		NIWARI TPP	90.00	243.25	90.00	170.23
80		SANJAY GANDHI TPS	1,340.00	6,604.20	1,340.00	8,616.32
81		SASAN UMTPP	3,960.00	33,340.92	3,960.00	33,387.69
82		SATPURA TPS	1,330.00	5,276.35	1,330.00	4,505.80
83		SEIONI TPP	600.00	2,901.09	600.00	3,677.23
84		SHREE SINGAJI TPP	2,520.00	8,647.04	2,520.00	5,928.37
85		VINDHYACHAL STPS	4,760.00	35,659.46	4,760.00	36,997.85
86	**Maharashtra**	AMRAVATI TPS	1,350.00	3,196.28	1,350.00	2,835.89
87		BELA TPS	270.00	0.00	270.00	0.00
88		BHUSAWAL TPS	1,210.00	5,317.27	1,210.00	4,801.30
89		BUTIBORI TPP	600.00	0.00	600.00	0.00
90		CHANDRAPUR(MAHARASHTRA) STPS	2,920.00	16,028.86	2,920.00	16,097.12
91		DAHANU TPS	500.00	3,347.43	500.00	3,206.13
92		DHARIWAL TPP	600.00	3,378.10	600.00	4,228.79
93		GEPL TPP Ph-I	120.00	0.00	120.00	0.00
94		GMR WARORA TPS	600.00	4,138.84	600.00	3,934.82
95		JSW RATNAGIRI TPP	1,200.00	7,868.77	1,200.00	6,199.03
96		KHAPARKHEDA TPS	1,340.00	7,260.45	1,340.00	7,930.84
97		KORADI TPS	2,400.00	9,466.38	2,400.00	8,430.42
98		MAUDA TPS	2,320.00	10,403.74	2,320.00	6,694.84
99		MIHAN TPS	246.00	0.00	246.00	0.00
100		NASIK (P) TPS	1,350.00	0.00	1,350.00	0.00

101		NASIK TPS	630.00	2,359.70	630.00	737.11
102		PARAS TPS	500.00	2,773.98	500.00	3,368.79
103		PARLI TPS	750.00	2,434.21	750.00	2,408.06
104		SHIRPUR TPP	150.00	0.00	150.00	0.00
105		SOLAPUR STPS	1,320.00	817.22	1,320.00	3,586.06
106		ADANI POWER LIMITED TIRODA TPP	3,300.00	23,254.40	3,300.00	18,049.49
107		TROMBAY TPS	750.00	4,758.17	750.00	3,586.29
108		WARDHA WARORA TPP	540.00	198.36	540.00	2,078.85
109	**Odisha**	DARLIPALI STPS	800.00	421.11	800.00	4,775.89
110		DERANG TPP	1,200.00	5,199.79	1,200.00	5,936.33
111		IB VALLEY TPS	1,740.00	6,495.79	1,740.00	8,643.13
112		KAMALANGA TPS	1,050.00	5,865.43	1,050.00	7,101.19
113		STERLITE TPP	1,200.00	585.71	1,200.00	3,033.78
114		TALCHER (OLD) TPS	460.00	3,378.28	460.00	3,405.51
115		TALCHER STPS	3,000.00	19,261.20	3,000.00	21,897.14
116		UTKAL TPP (IND BARATH)	350.00	0.00	350.00	0.00
117	**Punjab**	GH TPS (LEH.MOH.)	920.00	915.99	920.00	905.76
118		GOINDWAL SAHIB TPP	540.00	1,312.74	540.00	1,282.71
119		RAJPURA TPP	1,400.00	8,757.21	1,400.00	7,951.49
120		ROPAR TPS	840.00	1,051.62	840.00	883.52
121		TALWANDI SABO TPP	1,980.00	8,864.11	1,980.00	6,971.31
122	**Rajasthan**	CHHABRA TPP	2,320.00	13,515.68	2,320.00	14,421.24
123		KALISINDH TPS	1,200.00	5,728.09	1,200.00	6,089.98
124		ADANI POWER LIMITED KAWAI TPP	1,320.00	8,000.29	1,320.00	8,590.50
125		KOTA TPS	1,240.00	6,513.16	1,240.00	5,192.46
126		SURATGARH TPS	2,160.00	4,690.34	2,160.00	2,443.87
127	**Tamil Nadu**	ITPCL TPP	1,200.00	7,235.28	1,200.00	4,819.06
128		METTUR TPS	840.00	4,619.22	840.00	3,544.11
129		METTUR TPS - II	600.00	2,596.36	600.00	1,418.37
130		MUTHIARA TPP	1,200.00	3,559.82	1,200.00	2,297.10
131		NORTH CHENNAI TPS	1,830.00	9,047.66	1,830.00	6,458.77
132		TUTICORIN (JV) TPP	1,000.00	4,844.41	1,000.00	5,290.62
133		TUTICORIN (P) TPP	300.00	0.00	300.00	0.00
134		TUTICORIN TPS	1,050.00	5,303.36	1,050.00	4,132.38
135		VALLUR TPP	1,500.00	5,674.72	1,500.00	4,369.00
136	**Telangana**	BHADRADRI TPP	-	-	810.00	1,670.75
137		KAKATIYA TPS	1,100.00	7,554.74	1,100.00	6,322.47
138		KOTHAGUDEM TPS	420.00	2,295.57	-	-
139		KOTHAGUDEM TPS (NEW)	1,000.00	7,167.84	1,000.00	6,316.18
140		KOTHAGUDEM TPS (STAGE-7)	800.00	3,578.51	800.00	6,109.56
141		RAMAGUNDEM-B TPS	62.50	398.09	62.50	285.95
142		RAMAGUNDEM STPS	2,600.00	17,126.05	2,600.00	16,711.55
143		SINGARENI TPP	1,200.00	9,226.98	1,200.00	7,344.30
144	**Uttar Pradesh**	ANPARA C TPS	1,200.00	7,539.56	1,200.00	8,666.50
145		ANPARA TPS	2,630.00	17,047.66	2,630.00	15,279.04
146		BARKHERA TPS	90.00	90.84	90.00	184.19
147		DADRI (NCTPP)	1,820.00	6,546.43	1,820.00	3,957.75
148		HARDUAGANJ TPS	605.00	3,274.14	605.00	2,142.65
149		KHAMBARKHERA TPS	90.00	79.81	90.00	188.10
150		KUNDARKI TPS	90.00	125.18	90.00	246.58
151		LALITPUR TPS	1,980.00	7,174.91	1,980.00	7,289.49
152		MAQSOODPUR TPS	90.00	102.56	90.00	190.83
153		MEJA STPP	660.00	1,050.67	1,320.00	4,054.65
154		OBRA TPS	1,094.00	3,695.92	1,094.00	4,698.93

155		PARICHHA TPS	1,140.00	3,835.22	1,140.00	3,677.32
156		PRAYAGRAJ TPP	1,980.00	9,120.88	1,980.00	10,751.13
157		RIHAND STPS	3,000.00	23,359.27	3,000.00	23,398.68
158		ROSA TPP Ph-I	1,200.00	6,039.70	1,200.00	6,751.18
159		SINGRAULI STPS	2,000.00	15,331.89	2,000.00	14,959.51
160		TANDA TPS	1,100.00	3,958.39	1,760.00	5,738.68
161		UNCHAHAR TPS	1,550.00	8,526.46	1,550.00	7,156.40
162		UTRAULA TPS	90.00	119.42	90.00	261.35
163	**West Bengal**	BAKRESWAR TPS	1,050.00	7,002.77	1,050.00	7,896.57
164		BANDEL TPS	330.00	860.04	330.00	1,170.80
165		BUDGE BUDGE TPS	750.00	5,798.13	750.00	5,422.69
166		D.P.L. TPS	550.00	2,233.33	550.00	2,787.96
167		DURGAPUR STEEL TPS	1,000.00	6,319.02	1,000.00	5,780.98
168		DURGAPUR TPS	210.00	437.85	210.00	135.82
169		FARAKKA STPS	2,100.00	13,132.63	2,100.00	11,928.60
170		HALDIA TPP	600.00	4,430.09	600.00	4,224.94
171		HIRANMAYE TPP	300.00	10.02	300.00	433.86
172		KOLAGHAT TPS	1,260.00	2,871.42	1,260.00	1,769.36
173		MEJIA TPS	2,340.00	12,540.81	2,340.00	12,828.81
174		RAGHUNATHPUR TPP	1,200.00	5,030.71	1,200.00	5,225.69
175		SAGARDIGHI TPS	1,600.00	6,695.31	1,600.00	9,596.12
176		SANTALDIH TPS	500.00	3,693.99	500.00	3,442.98
177		SOUTHERN REPL. TPS	135.00	339.27	135.00	89.89
178		TITAGARH TPS	240.00	0.00	240.00	0.00
Coal Based Sub Total			**1,99,272.50**	**9,61,218.23**	**2,02,662.50**	**9,50,937.55**
B. Lignite Based Power Stations						
1	**Gujarat**	AKRIMOTA LIG TPS	250.00	740.25	250.00	435.05
2		BHAVNAGAR CFBC TPP	500.00	596.27	500.00	1,201.05
3		KUTCH LIG. TPS	290.00	883.25	150.00	809.43
4		SURAT LIG. TPS	500.00	3,359.81	500.00	2,975.71
5	**Rajasthan**	BARSINGSAR LIGNITE	250.00	1,528.01	250.00	1,451.70
6		GIRAL TPS	250.00	0.00	250.00	0.00
7		JALIPA KAPURDI TPP	1,080.00	5,875.54	1,080.00	7,026.83
8	**Tamil Nadu**	NEYVELI (EXT) TPS	420.00	3,328.54	420.00	2,786.96
9		NEYVELI NEW TPP	500.00	547.87	1,000.00	3,349.84
10		NEYVELI TPS-I	500.00	2,711.74	0.00*	531.64
11		NEYVELI TPS-II	1,470.00	10,356.22	1,470.00	6,955.54
12		NEYVELI TPS-II EXP	500.00	1,613.71	500.00	2,095.81
13		NEYVELI TPS(Z)	250.00	1,437.55	250.00	886.12
Lignite Based Sub Total			**6,760.00**	**32,978.76**	**6,620.00**	**30,505.68**
Grand Total			**2,06,032.50**	**9,94,196.99**	**2,09,282.50**	**9,81,443.23**

(*) All the units of NEYVELI TPS-I were retired by 30.09.2020. Hence the monitored capacity on 31.03.2021 is 0 MW

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ANNEXURE-II

ANNEXURE REFERRED IN REPLY TO PARTS (b), (c) & (e) OF UNSTARRED QUESTION NO. 2702 ANSWERED IN THE RAJYA SABHA ON 16.03.2026

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Power Plants with Online Continuous Emission and Effluent Monitoring System (OCEMS)

Sl. No.	Power Plant Name	State	City
1	KTA POWERS PVT LTD	Rajasthan	Jhunjhunu
2	JASRASAR GREEN POWER ENERGY PRIVATE LIMITED	Rajasthan	Nokha
3	KHURJA SUPER THERMAL POWER PROJECT, THDC INDIA LIMITED	Uttar Pradesh	Khurja
4	SARDARSHASHAR AGRI ENERGY PVT. LTD.	Rajasthan	Sardarshashar
5	TNA RENEWABLE ENERGY PRIVATE LIMITED	Rajasthan	Bhadra
6	KPC GAS POWER CORPORATION LIMITED (KPC-GPCL)	Karnataka	Bidadi
7	NORTH CHENNAI THERMAL POWER STATION - I	Tamil Nadu	Chennai
8	MAHARASHTRA STATE POWER GENERATION CO. LIMITED, GAS TURBINE POWER STATION,MSPGCL,URAN.	Maharashtra	Uran
9	ROSA POWER SUPPLY CO. LTD._STAGE-2	Uttar Pradesh	Shahjahanpur
10	ADHUNIK POWER AND NATURAL RESOURCES LTD.	Jharkhand	SeraikellaKharsawan
11	NABHA POWER LTD,	Punjab	Rajpura
12	PRAGATI POWER STATION	Delhi	New Delhi
13	BOKARO POWER SUPPLY CO.PVT LTD	Jharkhand	Bokaro
14	ZAUROMIRA ENERGY LTD TIRUNALVELI	Tamil Nadu	Tirunalveli
15	MAITHON POWER LTD	Jharkhand	Dhanbad
16	GLOBAL POWER TECH EQUIPMENTS LTD.	Tamil Nadu	Tiruvannamalai
17	IND-BARATH POWER GENCOM LTD	Tamil Nadu	Nagapattinam
18	J.KPOWER LTD (J.K CEMENT) - CHITTORGARH	Rajasthan	Chittorgarh
19	NEYVELI LIGNITE CORPORATION LTD., TPS-2	Tamil Nadu	Kunankuruchi
20	RAGHU RAMA RENEWABLE ENERGY LTD.	Tamil Nadu	Ramanathapuram
21	ADANI POWER LIMITED [FORMERLY KNOWN AS ADANI ELECTRICITY MUMBAI LIMITED, ADANI DAHANU THERMAL POWER STATION (ADTPS)/ (M/S. RELIANCE INFRASTRUCTURE LIMITED, DAHANU THERMAL POWER STATION)]	Maharashtra	Palghar
22	SAI REGENCY POWER CORPORATION PVT LTD	Tamil Nadu	Ramanathapuram
23	SAI WARDHA POWER LTD	Maharashtra	Chandrapur
24	TERRA ENERGY LIMITED	Tamil Nadu	Cuddalore
25	TAMILNADU NEWSPRINT AND PAPERS LTD	Tamil Nadu	Karur
26	JHAJJAR POWER LIMITED	Haryana	Jhajjar
27	ACC KYMORE 25 MW UNIT 1	Madhya Pradesh	Kymore
28	CESC LTD - BUDGE BUDGE GENERATING STATION	West Bengal	Pujali
29	M/S INDIA POWER CORPORATION LTD (FORMERLY DISHERGARH POWER SUPPLY CO.LTD.)	West Bengal	Asansol
30	SOUTHERN GENERATING STATION	West Bengal	Kolkata
31	TITAGARH GENERATING STATION	West Bengal	Titagarh
32	NAVA LIMITED (FORMERLY KNOWN AS NAVA BHARAT VENTURES LTD.)	Orissa	Meramandali
33	SURATGARH SUPER THERMAL POWER STATION (RRVUNL)	Rajasthan	Suratgarh
34	SAI LILAGAR POWER LTD.	Chhattisgarh	Bilaspur
35	SRI JYOTI RENEWABLE ENERGY PVT LTD	Haryana	Bhiwani
36	SANJAY GANDHI THERMAL POWER STATION	Madhya Pradesh	Magdhar
37	SASAN POWER LIMITED	Madhya Pradesh	Singrauli
38	GRASIM INDUSTRIES LTD , POWER PLANT DIVISION RENUKOOT	Uttar Pradesh	Renukoot

39	ARKAY ENERGY LTD	Tamil Nadu	Ramnad
40	COROMANDEL ELECTRIC COMPANY LTD	Tamil Nadu	Ramanathapuram
41	BAJAJ ENERGY POWER LTD_BARKHERA	Uttar Pradesh	Pilibhit
42	BAJAJ ENERGY PVT LIMITED_KUNDARKI,GONDA	Uttar Pradesh	Gonda
43	BAJAJ ENERGY POWER LTD_KHAMBARKHERA	Uttar Pradesh	Khambarkhera
44	BAJAJ ENERGY POWER LTD_,UTRAULA,BALRAMPUR	Uttar Pradesh	Utraula
45	BAJAJ ENERGY POWER LTD_MAQSOODPUR	Uttar Pradesh	Maqsoodpur
46	ULTRA TECH CEMENT LTD VIKRAM CEMENT	Madhya Pradesh	Vikram Nagar
47	VIDHARBA IINDUSTRIES POWER LTD - BUTTIBORI	Maharashtra	Nagpur
48	METTUR THERMAL POWER STATION	Tamil Nadu	Mettur
49	M/S. NORTH CHENNAI THERMAL POWER STATION, STAGE II,	Tamil Nadu	Tiruvallur
50	OPG POWER GENERATION	Tamil Nadu	Thiruvallur
51	PPNPOWER	Tamil Nadu	Nagapattinum
52	JSW ENERGY (BARMER) LIMITED FORMERLY KNOWN RAJ WASTE POWER	Rajasthan	Barmer
53	ROSA POWER SUPPLY CO LTD STAGE 1	Uttar Pradesh	Shahjahanpur
54	KSK MAHANADI POWER COMPANY LIMITED	Chhattisgarh	Champa
55	SHRIRAM NON CONVENTIONAL ENERGY LTD	Tamil Nadu	Thanjavur
56	SHRIRAM POWERGEN LTD	Tamil Nadu	Dindigul
57	SYNERGY SHAKTHI RENEWABLE ENERGY LTD	Tamil Nadu	Pochampalli
58	TALWANDI SABO POWER LTD	Punjab	Bhatinda
59	TCP POWER PLANT GUMMIDIPOONDI	Tamil Nadu	Thiruvallur
60	TUTICORIN THERMAL POWER STATION	Tamil Nadu	Thoothukudi
61	JINDAL POWER LTD - RAIGARH	Chhattisgarh	Raigarh
62	DURGAPUR STEEL THERMAL POWER STATION	West Bengal	Burdwan
63	THERAYMONDLTD	Madhya Pradesh	Chhindwara
64	HANUMAN AGRO INDUSTRIES LIMITED	Chhattisgarh	Nawapara-Rajim
65	SRF LIMITED	Rajasthan	Bhiwadi
66	TRIPURA GAS BASED POWER PLANT, NEEPCO LTD	Tripura	Monarchak
67	AGARTALA GAS TURBINE COMBINE CYCLE POWER PLANT, NEEPCO LTD	Tripura	Agartala
68	GULBARGA POWER PVT LTD	Karnataka	Gulbarga
69	AMARKANATAK THERMAL POWER STATION,CHACHAI MP	Madhya Pradesh	Chachai
70	BHARATHI CEMENT CORPORATION PVT.LTD	Andhra Pradesh	Kadapa
71	BANSWARA SYNTEX LIMITED	Rajasthan	Banswara
72	CHHABRA THERMAL POWER PLANT	Rajasthan	Chhabra
73	D.B. POWER LIMITED	Chhattisgarh	Badadarha
74	GMR EMCO ENERGY LMITED	Maharashtra	Warora
75	GEMCO ENERGY LIMITED	Haryana	Bhiwani
76	GURU HARGOBIND THERMAL PLANT	Punjab	Bathinda
77	GRASIM ENERGY CENTER 2	Madhya Pradesh	Ujjain
78	TORRENT POWER LTD SUGEN MEGA POWER PLANT	Gujarat	Surat
79	TORRENT POWER LIMITED DGEN MEGA POWER PROJECT	Gujarat	Bharuch
80	NATIONAL CAPITAL POWER PROJECT - DADRI	Uttar Pradesh	Dadri
81	ACC LIMITED-WADI CEMENT WORKS CPP	Karnataka	Kalaburagi
82	JABALPUR MSW PVT. LTD.	Madhya Pradesh	Jabalpur
83	JAYPEE NIGRIE SUPER THERMAL POWER PLANT 2 X 660 MW (A UNIT OF JAIPRAKASH POWER VENTURES LIMITED)	Madhya Pradesh	Singrauli
84	JSW ENERGY LTD 860 MW POWER PLANT	Karnataka	Bellary
85	KOTHAGUDEM THERMAL POWER STATION OLD STATION	Telangana	Palvancha
86	STAR CEMENT MEGHALAYA LIMITED (43 MW TPP) (FORMERLY KNOWN AS MEGHALAYA POWER LTD.)	Meghalaya	Jowai

87	MEJIA THERMAL POWER STATION	West Bengal	Bankura
88	PRAGATI - III COMBINED CYCLE POWER PROJECT, BAWANA	Delhi	New Delhi
89	RELIANCE INFRASTRUCTURE LIMITED,SAMALKOT	Andhra Pradesh	Samalkot
90	RAJASTHAN TEXTILE & WEAVING MILLS	Rajasthan	BhawaniMandi
91	ANDHRA PRADESH GAS POWER CORPORATION LTD	Andhra Pradesh	West Godavari
92	NITIN SPINNERS - THERMAL POWER PLANT	Rajasthan	Hamirgarh
93	KOTHAGUDEM THERMAL POWER STATION	Telangana	Paloncha
94	TOPWORTH URJA & METALS LIMITED	Maharashtra	Nagpur
95	VARDHMAN FABRICS	Madhya Pradesh	Budhni
96	VIDARBHA INDUSTRIES POWER LTD	Maharashtra	Nagpur
97	EASTERN INDIA POWERTECH LTD - GIDDI	Jharkhand	Giddi-C
98	VARDHMAN YARNS-POWER DIVISION	Madhya Pradesh	Mandideep
99	GUJARAT STATE ELETCTRICITY CORPORATION LTD FORMALLY GEB, (WANAKBORI THERMAL POWER STATION)	Gujarat	Galteshwar
100	USHA MARTIN LTD, THERMAL POWER PLANT	Jharkhand	Ranchi
101	KAKATIYA THERMAL POWER PROJECT - STAGE-II	Telangana	Warangal
102	TAQA NEYVELI POWER COMPANY PVT LTD	Tamil Nadu	Cuddalore
103	ARS ENERGY PVT LTD	Tamil Nadu	Tiruvallur
104	HIMATSINGKA CAPTIVE POWER PLANT	Karnataka	Hassan
105	KALISINDH THERMAL POWER PLANT	Rajasthan	Jhalawar
106	DURGAPUR THERMAL POWER STATION	West Bengal	Durgapur
107	MAITHAN ALLOYS LTD	Meghalaya	Shillong
108	SUKHBIR AGRO ENERGY LTD.	Uttar Pradesh	Ghazipur
109	CHANDRAPUR SUPER THERMAL POWER STATION UNIT	Maharashtra	Chandrapur
110	GMR WARORA ENERGY LIMITED	Maharashtra	Chandrapur
111	SHYAM CENTURY FERROUS LTD	Meghalaya	Shillong
112	VANDANA VIDYUTH LTD	Chhattisgarh	Bilaspur
113	INDSIL ENERGY AND ELECTROCHEMICALS PRIVATE LTD	Chhattisgarh	Raipur
114	NTPC LIMITED FARIDABAD	Haryana	Faridabad
115	NTPC LIMITED KAWAS GAS POWER PLANT	Gujarat	Surat
116	NTPC LTD BARH (STAGE - I , UNIT - I)	Bihar	Patna
117	NTPC LIMITED ANTA GAS POWER STATION	Rajasthan	Anta
118	NTPC TANDA THERMAL POWER PROJECT	Uttar Pradesh	Ambedkarnagar
119	NTPC LIMITED RIHAND SUPERTHERMAL POWER	Uttar Pradesh	Rihandnagar
120	NTPC LIMITED KAHALGAON SUPER THERMAL POWER STATION	Bihar	Bhagalpur
121	NTPC LIMITED FARAKKA SUPER THERMAL POWER STATION	West Bengal	Murshidabad
122	DONGAMAHUA CAPTIVE POWER PLANT JSPL	Chhattisgarh	Raigarh
123	GRASIM ENERGY CENTER-4_40 MW	Madhya Pradesh	Ujjain
124	NTPC LIMITED SINGRAULI SUPER THERMAL POWER STATION	Uttar Pradesh	Sonebhadra
125	NTPC LIMITED KORBA SUPER THERMAL POWER STATION	Chhattisgarh	Korba
126	KESORAM CEMENTS CAPTIVE POWER PLANT	Telangana	Basantnagar
127	KODERMA THERMAL POWER PLANT_BANJHEDIH	Jharkhand	Koderma
128	THE DURGAPUR PROJECTS LIMITED	West Bengal	Durgapur
129	MEIL ANPARA ENERGY LIMITED (FORMERLY KNOWN AS LANCO ANPARA POWER LIMITED)	Uttar Pradesh	Anpara
130	NAVA BHARAT ENERGY INDIA LTD	Telangana	Paloncha
131	BHUSAWAL THERMAL POWER STATION_UNIT 2&3	Maharashtra	Bhusawal
132	BHUSAWAL THERMAL POWER STATION_UNIT 4& 5	Maharashtra	Bhusawal
133	PANIPAT THERMAL POWER STATION	Haryana	Panipat

134	BHUSHAN ENERGY LIMITED	Orissa	Angul
135	ASSAM GAS BASED POWER PLANT (NORTH EASTERN ELECTRIC POWER CORPORATION LTD)	Assam	Bokuloni
136	VASAVADATTA CEMENT POWER PLANT	Karnataka	Sedam
137	NTPC LIMITED RAMAGUNDAM SUPER THERMAL POWER STATION	Telangana	Jyotinagar
138	NTPC LIMITED LTD, VINDHYACHAL SUPER THERMAL POWER PROJECT	Madhya Pradesh	Vindhyanagar
139	NTPC LIMITED AURAIYA GAS POWER STATION	Uttar Pradesh	Auraiya
140	NTPC LIMITED BADARPUR THERMAL POWER STATION	Delhi	New Delhi
141	NTPC LIMITED TALCHER SUPER THERMAL POWER STATION	Orissa	Angul
142	NTPC LIMITED MOUDA SUPER THERMAL POWER STATION	Maharashtra	Nagpur
143	NTPC LIMITED SIMHADRI SUPER THERMAL POWER STATION	Andhra Pradesh	Visakhapatnam
144	NTPC LIMITED SIPAT SUPER THERMAL POWER	Chhattisgarh	Bilaspur
145	NTPC LIMITED TALCHER THERMAL POWER STATION	Orissa	Angul
146	NTPC LIMITED JHANOR - GANDHAR GAS POWER PROJECT	Gujarat	Gandhar
147	NTPC - RAJIV GANDHI COMBINED CYCLE POWER PLANT	Kerala	Kayamkulam
148	NTPC LIMITED FEROZ GANDHI UNCHAHAR THERMAL POWER STATION	Uttar Pradesh	Raebareli
149	KUTTALAM GAS TURBINE POWER STATION, TAMILNADU GENERATION AND DISTRIBUTION CORPORATION LIMITED	Tamil Nadu	Nagapattinam
150	DHARIWAL INFRASTRUCTURE LIMITED,	Maharashtra	Chandrapur
151	VALUTHUR GAS TURBINE POWER STATION	Tamil Nadu	Ramanathapuram
152	M/S NUVOCO VISTAS CORPORATION LIMITED (NVCL)(FORMALLY KNOWN AS NIRMA LIMITED)	Rajasthan	Beawar
153	KUTTALAM GAS TURBINE POWER STATION, TAMILNADU GENERATION AND DISTRIBUTION CORPORATION LIMITED	Tamil Nadu	Kuttalam
154	NEYVELI LIGNITE CORPORATION LIMITED	Tamil Nadu	Cuddalore
155	PIONEER POWER LIMITED	Tamil Nadu	Ramanathapuram
156	HARDUAGANJ TAPIYA VIDYUT PARIYOJNA, (2X250 MEGAWATT VISTAR PARIYOJNA)	Uttar Pradesh	Aligarh
157	PANKI THERMAL POWER STATION	Uttar Pradesh	Kanpur
158	EAST DELHI WASTE PROCESSING COMPANY PRIVATE LIMITED (FORMERLY EAST DELHI WASTE POWER CORPORATION PRIVATE LIMITED)	Delhi	Delhi
159	TAMILNADU NEWSPRINT AND PAPERS LIMITED UNIT II (CAPTIVE CO GENERATION PLANT)	Tamil Nadu	Manapparai
160	COASTAL ENERGEN PVT LTD	Tamil Nadu	Tuticorin
161	JK LAKSHMI CEMENT -SIROHI POWER PLANT	Rajasthan	Tehsil Pindwara
162	GMR KAMALANGA ENERGY LTD	Orissa	Kamalanga
163	SHREE RAIPUR CEMENT PLANT (A UNIT OF SHREE CEMENT LTD.)	Chhattisgarh	Raipur
164	NTPC SAIL POWER COMPANY LIMITED(A JOINT VENTURE OF NATIONAL THERMAL POWER CORPORATION & STEEL AUTHORITY OF INDIA LIMITED), CAPTIVE POWER PLANT-2	Chhattisgarh	Bhilai
165	NTPC-SAIL POWER COMPANY LIMITED (P) LIMITED.(CPP-II)	Orissa	Rourkela
166	HALDIA ENERGY LIMITED	West Bengal	East Medinipur

167	IND-BARATH ENERGIES (THOOTHUKUDI) LIMITED	Tamil Nadu	Thoothukudi
168	IND BARATH THERMAL POWER PLANT	Tamil Nadu	Thoothukudi
169	MADRAS ATOMIC POWER STATION	Tamil Nadu	Kancheepuram
170	RAJIV GANDHI THERMAL POWER PLANT	Haryana	Khedar,Barwala
171	HIRA POWER AND STEELS LIMITED UNIT-II	Chhattisgarh	Raipur
172	SHRI BAJARANG POWER & ISPAT LIMITED-TMT DIVISION	Chhattisgarh	Raipur
173	RAMAGUNDAM THERMAL STATION(T.S. POWER GENERATION CORPORATION LTD)	Telangana	Ramagundam
174	RAYALASEEMA THERMAL POWER PLANT	Andhra Pradesh	Kadapa
175	SURYADEV ALLOYS AND POWER PVT LTD	Tamil Nadu	Thiruvallur
176	INDIAN METALS & FERRO ALLOYS LTD (80MW)	Orissa	Choudwar
177	NARORA ATOMIC POWER STATION NPCIL	Uttar Pradesh	Narora
178	FINOLEX INDUSTRIES LIMITED	Maharashtra	Ratnagiri
179	DAMODAR VALLEY CORPORATION, CHANDRAPURA THERMAL POWER STATION	Jharkhand	Chandrapura
180	KUTCH LIGNITE THERMAL POWER STATION	Gujarat	Khanot
181	UKAI THERMAL POWER STATION	Gujarat	Tapi
182	UTTRAN GAS BASED POWER STATION	Gujarat	Surat
183	DHUVARAN GAS POWER STATION	Gujarat	Anand
184	SIKKA THERMAL POWER STATION	Gujarat	Sikka
185	INDRAPRASTHA POWER GENERATION CO. LTD	Delhi	Delhi
186	GUJARAT STATE ELECTRICITY CORPORATION LTD	Gujarat	Gandhinagar
187	SAGARDIGHI THERMAL POWER PROJECT WEST - BENGAL PDCL	West Bengal	Sagardighi
188	MAHARASHTRA STATE POWER GENERATION COMPANY LTD-NASHIK THERMAL POWER STATION	Maharashtra	Nashik
189	INDUSTRIAL ENERGY LIMITED - PH-6	Jharkhand	Jamshedpur
190	HINDALCO INDUSTRIES LTD.RENUSAGAR POWER DIVISION	Uttar Pradesh	Renusagar
191	MARUTI CLEAN COAL AND POWER LTD.	Chhattisgarh	Bandhakar
192	SPECTRUM COAL & POWER LTD.	Chhattisgarh	Ratija
193	SUDHA BIO POWER PVT LTD	Chhattisgarh	Mohtarai
194	ACB(INDIA)LIMITED (KNOWN AS ARYAN COAL BENEFIACTION PVT LTD) 30 MW	Chhattisgarh	Kasaipali
195	DR.NARLA TATARAO THERMAL POWER STATION	Andhra Pradesh	Ibrahimpatnam
196	PRAKASH INDUSTRIES LTD	Chhattisgarh	Champa
197	MMS STEEL & POWER PRIVATE LIMITED	Tamil Nadu	Nagapattinam
198	RAMGARH GAS THERMAL POWER PLANT	Rajasthan	Jaisalmer
199	THE RAMCO CEMENTS LIMITED	Tamil Nadu	Ariyalur
200	RAJASTHAN RAJYA VIDYUT UTPADAN NIGAM LTD	Rajasthan	Dholpur
201	THIRUMAKOTAI (K) GAS TURBINE POWER STATION	Tamil Nadu	Thiruvarur
202	PUNJAB STATE POWER CORPORATION LIMITED/GURU GOVIND SINGH SUPER THERMAL PLANT	Punjab	Roopnagar
203	SARDA ENERGY & MINERALS LTD (POWER)	Chhattisgarh	Raipur
204	GUJARAT INDUSTRIES POWER COMPANY LIMITED	Gujarat	Vadodara
205	INDRA POWERGEN PVT. LTD	Chhattisgarh	Surajpur
206	INLAND POWER LIMITED	Jharkhand	Ranchi
207	KALINDI POWER AND STEEL LTD.	Chhattisgarh	Mahasamund
208	N.R. ISPAT & POWER LTD	Chhattisgarh	Chhattisgarh
209	NEERAJ POWER P LTD.	Chhattisgarh	Simga
210	LANCO AMARKANTAK POWER LTD.	Chhattisgarh	Korba
211	SHANTI G D ISPAT & POWER PVT. LTD.	Chhattisgarh	Champa
212	SHYAM WAREHOUSING AND POWER PLANT	Chhattisgarh	Janjgirâ€“Champa
213	MAHAVIR ENERGY AND COAL BENFICATION LTD	Chhattisgarh	Raigarh
214	ONGC TRIPURA POWER COMPANY LIMITED	Tripura	Palatana
215	BHUBANESHWAR POWER PRIVATE LIMITED	Orissa	Cuttack
216	KOTA SUPER THERMAL POWER STATION (KSTPS)	Rajasthan	Kota

217	NLC TAMILNADU POWER LIMITED	Tamil Nadu	Thoothukudi
218	ADANI POWER RAJASTHAN LIMITED	Rajasthan	Baran
219	M/S AMNS KHOPOLI LIMITED (FORMERLY KNOWN AS M/S UTTAM GALVA STEEL LIMITED)	Maharashtra	NaringiKhopoli
220	IL&FS TAMILNADU POWER COMPANY LTD	Tamil Nadu	BhuvanagiriTaluk
221	BAKRESWAR THERMAL POWER PROJECT	West Bengal	Sadaipur
222	BANDEL THERMAL POWER STATION	West Bengal	Tribeni
223	SKS POWER GENERATION LTD	Chhattisgarh	Kharsia
224	ACB (INDIA)LIMITED 2*135 MW	Chhattisgarh	Chakabura
225	ADANI POWER LIMITED (FORMERLY RAIPUR ENERGY LIMITED)	Chhattisgarh	Raikheda
226	ECO TECH PAPERS	Assam	Guwahati
227	ATAL BIHARI VAJPAYEE THERMAL POWER STATION (FORMERLY CHHATISGARH STATE POWER GENERATION COMPANY LIMITED)	Chhattisgarh	Marwa
228	SIMHAPURI ENERGY LIMITED	Andhra Pradesh	Thamminapatnam
229	NTPC TAMILNADU ENERGY COMPANY LTD.	Tamil Nadu	Tiruvallur
230	AURO ENERGY	Tamil Nadu	Thanjavur
231	SHRIRAM FERTILISERS & CHEMICALS(POWER PLANT)	Rajasthan	Kota
232	WEST BOKARO COLLIERY POWER PLANT	Jharkhand	Ramgarh
233	MAHAN ENERGEN LIMITED(FORMERLY KNOWN AS ESSAR POWER MP LIMITED)	Madhya Pradesh	Bandhaura
234	SBQ STEELS LTD_CAPTIVE POWER PLANTS	Andhra Pradesh	Ankulapaturu
235	CLP INDIA PVT. LTD. (FORMERLY KNOWN AS GUJARATPAGUTHANENERGYCORPORATIONPVT.LTD)	Gujarat	Bharuch
236	JINDAL INDIA THERMAL POWER LTD	Orissa	Angul
237	PARICHHA THERMAL POWER PROJECT	Uttar Pradesh	Jhansi
238	SITAPURAM POWER LIMITED	Telangana	Suryapet
239	MALU PAPER MILL LTD.(NEWS PRINT/WRITING PRINTING DIV. UNIT-III)	Maharashtra	Nagpur
240	HALDIA ENERGY LIMITED	West Bengal	Haldia
241	CHATTISGARH STATE ELECTRICITY BOARD	Chhattisgarh	Korba
242	SATPURA THERMAL POWER STATION, M P POWER GENERATION CO LTD	Madhya Pradesh	Betul
243	OPG ENERGY PVT LTD.	Tamil Nadu	Nagapattinam
244	CHATTISGARH STATE ELECTRICITY BOARD, KORBA THERMAL POWER STATION (EAST), KORBA	Chhattisgarh	Korba
245	BOKARO THERMAL POWER STATION	Jharkhand	Bokaro
246	VS LIGNITE POWER PVT LTD	Rajasthan	Bikaner
247	SOUTHERN ENERGY DEVELOPMENT CORPORATION LTD	Tamil Nadu	Tiruvallur
248	VEDANTA LTD THERMAL POWER DIVISION	Tamil Nadu	Thoothukudi
249	TATA CHEMICAL LTD MITHAPUR	Gujarat	Mithapur
250	SHREE AMBIKA SUGARS LTD. (POWER DIVISION)	Tamil Nadu	Cuddalore
251	BRAHMAPURAM DIESEL POWER PLANT	Kerala	Ernakulam
252	GUJARAT INDUSTRIES POWER COMPANY LIMITED (SURAT LIGNITE POWER PLANT)	Gujarat	Vadodara
253	GVK POWER (GOINDWAL SAHIB) LIMITED	Punjab	Tarn Taran
254	TRN ENERGY PRIVATE LIMITED(1X300MW)	Chhattisgarh	Raigarh
255	LALITPUR POWER GENERATION COMPANY LIMITED	Uttar Pradesh	Lalitpur
256	LANCO TANJORE POWER COMPANY LIMITED	Tamil Nadu	ThiruvidaimaruthurTaluk
257	RATTANINDIA POWER LTD, AMRAVATI	Maharashtra	Amravati
258	IGSTPP ARAVALI POWER COMPANY PRIVATE LIMITED	Haryana	Jhajjar
259	SESHASAYEE PAPER AND BOARDS LTD., UNIT : TIRUNELVELI (CO-GEN PLANT)	Tamil Nadu	Tirunelveli
260	DIVINE VIDYUT LIMITED	Jharkhand	Palgam
261	EMAMI CEMENT LTD,BALODA BAZAR.	Chhattisgarh	Baloda Bazar
262	INDO RAMA SYNTHETICS LTD.	Maharashtra	Butibori

263	JAYPEE BINA THERMAL POWER PLANT	Madhya Pradesh	Bina
264	KALPATARU POWER TRANSMISSION LIMITED	Rajasthan	Tonk
265	KHAPERKHEDA THERMAL POWER STATION UNIT I TO IV	Maharashtra	Saoner
266	KHAPERKHEDA THERMAL POWER STATION, UNIT 5	Maharashtra	Khaperkheda
267	KOLAGHAT THERMAL POWER STATION,WBPDCL	West Bengal	Midnapore
268	KORADI THERMAL POWER STATION	Maharashtra	Nagpur
269	MSPGCL-PARAS THERMAL POWER STATION	Maharashtra	Paras
270	VEDANTA LIMITED (THERMAL POWER PLANT)	Orissa	Jharsuguda
271	SEMBCORP ENERGY INDIA LIMITED (PROJECT 2) (FORMERLY KNOWN AS SEMBCORP GAYATRI POWER LIMITED)	Andhra Pradesh	Muthukur
272	TORRENT POWER LTD	Gujarat	Ahmedabad
273	URJANKUR SHREE DATTA POWER COMPANY LTD.	Maharashtra	Kolhapur
274	URJANKUR SHREE TATYASAHEB KORE WARNA POWER COMPANY LTD	Maharashtra	Panhala
275	TATA POWER COMPANY LIMITED	Jharkhand	Jamshedpur
276	KAVERI GAS POWER LTD	Tamil Nadu	Mayiladuthurai
277	CHHATTISGARH STATE POWER GENERATION COMPANY LIMITED-KORBA (EAST) DR SHYAMA PRASAD MUKHARJEE THERMAL POWER STATION KORBA(EAST),DIST KORBA	Chhattisgarh	Korba
278	EMPEE POWER COMPANY (INDIA) LTD	Andhra Pradesh	Nayudupeta
279	MEENAKSHI ENERGY LIMITED	Andhra Pradesh	Nellore
280	THE TATA POWER COMPANY LIMITED (FORMARLY KNOWN AS COASTAL GUJARAT POWER LIMITED)	Gujarat	Mundra
281	DEEN BANDHU CHHOTU RAM THERMAL POWER PROJECT	Haryana	Yamunanagar
282	MANGALAM CEMENT LTD_POWER PLANT	Rajasthan	Kota
283	ANIMESH ISPAT PVT. LTD.,FORMERLY KNOWN AS SOUTH ASIAN INDUSTRIES LIMITED	Chhattisgarh	Baloda Bazar
284	VANDANA GLOBAL LTD., (CPP)	Chhattisgarh	Raigarh
285	NLC INDIA LTD. (FORMELY NEYVELI LIGNITE CORPORATION LTD.)	Rajasthan	Bikaner
286	OBRA THERMAL POWER STATION	Uttar Pradesh	Sonebhadra
287	ANPARA THERMAL POWER PLANT	Uttar Pradesh	Anpara
288	SAHELI EXPORTS PVT. LTD.	Tamil Nadu	Kuttalam
289	NTPC LIMITED KUDGI SUPER THERMAL POWER PROJECT	Karnataka	Bijapur
290	NTPC LIMITED SOLAPUR SUPER THERMAL POWER	Maharashtra	Solapur
291	RAMNIK POWER & ALLOYS PVT. LTD.	Madhya Pradesh	Balaghat
292	GRASIM INDUSTRIES LTD.	Gujarat	Bharuch
293	JAGDAMBA POWER & ALLOYS LTD	Chhattisgarh	Siltara
294	MAHARASHTRA STATE POWER GENERATION COMPANY (MAHAGENCO)-THERMAL POWER STATION,PARLI UNIT 6 , 7.	Maharashtra	Parli
295	TENUGHAT THERMAL POWER STATION	Jharkhand	Bokaro
296	BHADRESHWAR VIDYUT PRIVATE LIMITED, FORMERLY KNOWN AS OPGS POWER GUJARAT PRIVATE LIMITED	Gujarat	Bhadreshwar
297	MAHARASHTRA STATE POWER GENERATION COMPANY (MAHAGENCO)-THERMAL POWER STATION,PARLI UNIT 8	Maharashtra	Parli
298	SANTALDIH THERMAL POWER STATION (WBPDCL)	West Bengal	Purulia
299	SRI DAMODARAM SANJEEVAIAH THERMAL POWER STATION POWER STATION (ANDHRA PRADESH POWER DEVELOPMENT COMPANY LIMITED)	Andhra Pradesh	Nelatur Village
300	ESSAR POWER GUJARAT LIMITED	Gujarat	MotaMandha
301	AMNS POWER HAZIRA LTD FORMERLY (ESSAR POWER HAZIRA LTD. (EPHL)	Gujarat	Hazira

302	ACC LIMITED, KYMORE, 25MW CPP (UNIT2)	Madhya Pradesh	Kymore
303	NLC LIMITED TPS-II EXPANSION	Tamil Nadu	Neyveli
304	THERMAL POWER PLANT OF AMBUJA CEMENT LTD	Gujarat	Kodinar
305	ARCELOR MITTAL NIPPON STEEL INDIA LIMITED (CPP)	Orissa	Paradeep
306	RAICHUR THERMAL POWER STATION	Karnataka	Raichur
307	KOZHIKODE DIESEL POWER PROJECT KERALA STATE ELECTRICITY BOARD LIMITED	Kerala	Kozhikode
308	HINDUJA NATIONAL POWER CORPORATION LIMITED	Andhra Pradesh	Visakhapatnam
309	BONGAIGAON THERMAL POWER PROJECT (NTPC)	Assam	Kokrajhar
310	SHREE SINGAJI THERMAL POWER PROJECT, STAGE -I-MPPGCL	Madhya Pradesh	Dongaliya
311	KANTI BIJLEE UTPADAN NIGAM LIMITED	Bihar	Muzaffarpur
312	WELSPUN CAPTIVE POWER GENERATION LTD	Gujarat	Anjar
313	RAGHUNATHPUR THERMAL POWER STATION-DAMODARVALLEYCO	West Bengal	Raghunathpur
314	WELSPUN CORP LTD-OLD WELSPUN GUJARAT STAHL ROHERNL	Gujarat	Anjar
315	KALPATARU POWER TRANSMISSION LTD-BIOMASS	Rajasthan	Padampur
316	PRAYAGRAJ POWER GENERATION COMPANY LIMITED	Uttar Pradesh	Prayagraj
317	SEMBCORP ENERGY INDIA LIMITED-OLD NAME THERMAL POWERTECH CORPORATION INDIA LTD	Andhra Pradesh	Nelaturu
318	TATA POWER COMPNAY LIMITED	Maharashtra	Mahul Road
319	SURYAA CHAMBAL POWER LTD	Rajasthan	Ladpura
320	YERMARUS THERMAL POWER STATION	Karnataka	Bijapur
321	BARAUNI THERMAL POWER STATION	Bihar	Begusarai
322	JHABUA POWER LIMITED	Madhya Pradesh	Ghansore
323	NLC INDIA LIMITED,THERMAL POWER STATION_II	Tamil Nadu	Cuddalore
324	NATIONAL ALUMINIUM COMPANY_NALCO(CPP)	Orissa	Angul
325	SANJOG SUGARS & ECO POWER PRIVATE LIMITED	Rajasthan	Sangaria
326	HIRANMAYE ENERGY LTD	West Bengal	Kasberia
327	A2Z INFRA ENGINEERING LIMITED	Punjab	Nakodar
328	BALKRISHNA INDUSTRIES LIMITED	Gujarat	Kutch
329	MAHENDRA POWER PRIVATE LIMITED	Chhattisgarh	Champa
330	STAR WIRE(INDIA) VIDYUT PVT LTD	Haryana	Mahendargarh
331	MB POWER (MADHYA PRADESH) LIMITED	Madhya Pradesh	Jaithari
332	SINGARENI COLLIERIES COMPANY LTD.	Telangana	Mancherial
333	THE INDIA CEMENTS LIMITED-WADAPALLY(55 MW CPP)	Telangana	Nalgonda
334	RATTANINDIA NASHIK POWER LIMITED	Maharashtra	Nashik
335	ABHINAV STEEL AND POWER LTD.	Uttar Pradesh	Jaunpur
336	BHARTIYA RAIL BIJLI COMPANY LIMITED, BRBCL	Bihar	Aurangabad
337	MADHYA BHARAT PAPERS LIMITED	Chhattisgarh	Champa
338	M/S. R.K.M POWERGEN PVT. LTD.	Chhattisgarh	Janjgir-Champa
339	ACC CEMENT LTD TIKARIA	Uttar Pradesh	Amethi
340	ALTEN POWER PVT LTD	Tamil Nadu	Sivagangai
341	M/S. CHEMPLAST LIMITED,COAL POWER PLAN	Tamil Nadu	Mettur
342	SIMBHAOLI POWER PVT.LTD.(POWER DIV.)	Uttar Pradesh	Simbhaoli
343	JUBILANT INGREVIA LTD. - POWER PLANT (FORMERLY: JUBILANT LIFE SCIENCES LIMITED_POWER PLANT)	Uttar Pradesh	Bhartiagram
344	THE ANDHRA SUGARS LIMITED (POWER DIVISION)	Andhra Pradesh	Saggonda
345	ADANI POWER LIMITED, UDUPI (FORMERLY UDUPI POWER CORPORATION LIMITED, ADANI POWER, UDIPI)	Karnataka	Udupi
346	CHHATTISGARH STEEL AND POWER LIMITED	Chhattisgarh	Amjhar

347	NTPC SAIL POWER COMPANY LIMITED(A JOINT VENTURE OF NATIONAL THERMAL POWER CORPORATION & STEEL AUTHORITY OF INDIA LIMITED) - EXPANSION PP3	Chhattisgarh	Bhilai
348	NTPC-SAIL POWER COMPANY LIMITED.CPP_II	West Bengal	Durgapur
349	THE CHENGALRAYAN CO-GENERATION POWER PLANT (18MW)	Tamil Nadu	Ulundurpettai
350	VELLORE CO-OPERATIVE SUGAR MILLS LIMITED(CO-GEN PLANT- 15MW)	Tamil Nadu	Katpadi
351	METTUR THERMAL POWER STATION-II	Tamil Nadu	Mettur
352	RASHMI METALIKS LIMITED (POWER DIVISION)	West Bengal	Khargapur
353	SARDA METALS & ALLOYS LTD	Andhra Pradesh	Vizianagaram
354	BSES KERALA POWER LTD	Kerala	Pathalam
355	SPECTRUM POWER GENERATION LIMITED	Andhra Pradesh	Kakinada
356	M/S BARAUNI THERMAL POWER STATION (BTPS), (A UNIT OF NTPC) (FORMER NAME BSPGCL-BIHAR STATE POWER GENERATION COMPANY LIMITED - BTPS_UNIT 8-9)	Bihar	Patna
357	HINDALCO INDUSTRIESLTD.	Orissa	Sambalpur
358	MEJA URJA NIGAM PRIVATE LIMITED	Uttar Pradesh	Allahabad
359	KOTHAGUDEM THERMAL POWER STATION, STAGE-VI (500MW),KTPS, VI TH STAGE,	Telangana	Khammam
360	KOTHAGUDEM THERMAL POWER STATION, STAGE-VII (800MW)	Telangana	Khammam
361	KOTHARI SUGARS AND CHEMICALS LIMITED	Tamil Nadu	Sathamangalam
362	CAUVERY POWER GENERATION CHENNAI PVT LTD.	Tamil Nadu	Billakuppam Village
363	BHAVNAGAR ENERGY CO. LTD.	Gujarat	Bhavnagar
364	THE INDIA CEMENTS LIMITED -CAPTIVE POWER PLANT	Tamil Nadu	Tirunelveli
365	HINDUSTAN ZINC LTD, ZAWAR CPP	Rajasthan	Udaipur
366	ARCELORMITTAL NIPPON STEEL INDIA PRIVATE LIMITED- POWER DIVISION (525MW) [FORMERLY KNOWN AS ARCELORMITTAL NIPPON STEEL INDIA LIMITED-POWER DIVISION (525MW)]	Gujarat	Surat
367	SHALIVAHANA GREEN ENERGY LTD (6 MW BIOMASS POWER PLANT)	Telangana	Mancherial
368	GURU NANAK DEV THERMAL PLANT, PUNJAB STATE POWER CORPORATION LIMITED, BATHINDA	Punjab	Bhatinda
369	BALRAMPUR CHINI MILLS LTD (POWER DIVISION BALRAMPUR)	Uttar Pradesh	Balrampur
370	ULTRATECH CEMENT LTD. UNIT: SIDHI CEMENT WORKS(2X60 MW TPP)	Madhya Pradesh	Sidhi
371	RSWM LIMITED	Rajasthan	Banswara
372	JINDAL PIPES LIMITED	Uttar Pradesh	Hapur
373	SHRI GIRIJA ALLOY & POWER (I) PRIVATE LIMITED	Andhra Pradesh	Peddapuram
374	ULTRATECH CEMENT LIMITED (UNIT : BIRLA WHITE)	Rajasthan	Bhopalgarh
375	PERAMBALUR CO-GENERATION POWER PLANT(18MW)	Tamil Nadu	Eraiyur
376	PUDUCHERRY POWER CORPORATION LIMITED	Puducherry	TrPattinam
377	GADARWARA SUPER THERMAL POWER STATION	Madhya Pradesh	Gadarwara
378	NUVOCO VISTAS CORPORATION LIMITED	Rajasthan	Chittorgarh
379	VAYUNANDANA POWER LIMITED	Maharashtra	Gadchiroli
380	S.M.ENVIORNMENTAL TECHNOLOGIES PVT LTD.	Rajasthan	Baran
381	ORIENT GREEN POWER COMPANY (RAJASTHAN) PRIVATE LIMITED	Rajasthan	Baran

382	ORISSA METALIKS PRIVATE LIMITED (POWER DIVISON)	West Bengal	Midnapore
383	JAI BALAJI INDUSTRIES LIMITED 2	Chhattisgarh	Rasmada
384	NTPC LIMITED, LARA SUPER THERMAL POWER PROJECT	Chhattisgarh	Raigarh
385	NABI NAGAR SUPER THERMAL POWER PROJECT	Bihar	Aurangabad
386	INDRAJIT POWER PVT LTD.(PHAS I &II),(FORMERLY KNOWN AS M/S. INDRAJIT INFRASTRUCTURE PVT. LTD.)	Maharashtra	Wardha
387	ACC LIMITED JAMUL CEMENT WORKS	Chhattisgarh	Bhilai
388	DARLIPALI SUPER THERMAL POWER PROJECT (NTPC LTD.)	Orissa	Sundargarh
389	RATNAGIRI GAS & POWER PVT. LTD.	Maharashtra	Ratnagiri
390	ACC LIMITED, CAPTIVE POWER PLANT,MADUKKARAI	Tamil Nadu	Coimbatore
391	LAKWA THERMAL POWER STATION	Assam	Sonari
392	TRANSTECH GREEN POWER PVT. LTD.	Rajasthan	Sanchore
393	SURATGARH SUPERCRITICAL THERMAL POWERPLANT2X660MW_RAJASTHAN RAJYAVIDYUTUTPADANNL	Rajasthan	Suratgarh
394	ADANI POWER LIMITED (FORMERLY KNOWN AS M/S RAIGARH ENERGY GENERATION LIMITED)	Chhattisgarh	Raigarh
395	SHREE SINGAJI THERMAL POWER PROJECT, DONGALIA, STAGE-II(2X660 MW)	Madhya Pradesh	Khandwa
396	TRIVENI ENGINEERING & INDUSTRIES LIMITED	Uttar Pradesh	Khatauli
397	TAMILNADU NEWSPRINT AND PAPERS LTD (BOILER PLANT)	Tamil Nadu	Kallakurichi
398	JSW STEEL LIMITED., CPP-II, SALEM WORKS	Tamil Nadu	Mettur
399	NEYVELI NEW THERMAL POWER STATION	Tamil Nadu	Cuddalore
400	PENNA CEMENT INDUSTRIES LTD - POWER PLANT	Telangana	Wadapalli
401	RANA POWER LIMITED	Uttar Pradesh	Moradabad
402	NTPC KHARGONE SUPER THERMAL POWER PROJECT	Madhya Pradesh	Khargone
403	SAI LILAGAR POWER GENERATION LIMITED (FORMERLY KNOWN M/S ARASMETTA CAPTIVE POWER COMPANY PRIVATE LIMITED)	Chhattisgarh	Janjgir-Champa
404	BIRLA CORPORATION LIMITED - 27 MW POWER PLANT	Rajasthan	Chittorgarh
405	GMDC	Gujarat	Kutch
406	JINDAL URBAN WASTE MANAGEMENT (GUNTUR) LIMITED	Andhra Pradesh	Guntur
407	INDIAN METALS & FERRO ALLOYS LTD (120MW)	Orissa	Choudwar
408	AMBUJA CEMENT LIMITED_RAWAN	Chhattisgarh	Rawan
409	BLA POWER PVT.LTD	Madhya Pradesh	Gadarwara
410	ODISHA POWER GENERATION CORPORATION (2X660 MW ITPS)	Orissa	Jharsuguda
411	M/S SUNIL SPONGE PRIVATE LIMITED	Chhattisgarh	Raipur
412	JINDAL POWER LIMITED(FORMERLY SIMHAPURI ENERGY LIMITED)	Andhra Pradesh	Tirupati
413	MONGIA POWER PRIVATE LIMITED	Jharkhand	Giridih
414	1X660MW HARDUAGANJ THERMAL POWER PLANT EXTN. II	Uttar Pradesh	Kasimpur
415	LANCO KONDAPALLI POWER PLANT	Andhra Pradesh	Ibrahimpatnam
416	MVK INDUSTRIES PRIVATE LIMITED (FORMERLY KNOWN AS - M/S KVK BIO ENERGY PRIVATE LIMITED)	Chhattisgarh	Janjgir
417	SUKHBIR AGRO ENERGY LTD	Haryana	Kaithal
418	NAYARA ENERGY LIMITED (CAPTIVE POWER PLANT) (OLD NAME:- VADINAR POWER COMPANY LIMITED)	Gujarat	Vadinar
419	GUJARAT STATE ENERGY GENERATION LIMITED	Gujarat	Surat

420	NORTH KARANPURA SUPER THERMAL POWER PROJECT	Jharkhand	Tandwa
421	INDEEN BIO POWER LIMITED	Rajasthan	Tonk
422	ADANI POWER LIMITED	Gujarat	Mundra
423	ADANI POWER LIMITED	Maharashtra	Gondia
424	JSW ENERGY LIMITED	Maharashtra	Post Jaigad - Taluka&Dist-Ratnagiri
425	SRI ANDAL PAPER MILLS PRIVATE LIMITED POWER DIVISION	Tamil Nadu	Sathyamangalam
426	SEPC POWER PRIVATE LIMITED	Tamil Nadu	Thoothukudi
427	ADANI POWER (JHARKHAND) LIMITED	Jharkhand	Godda
428	TELANGANA SUPER THERMAL POWER PROJECT (NTPC LTD)	Telangana	Ramagundam
429	KPC GAS POWER CORPORATION LTD, 1X370 MW YELAHANKA COMBINED CYCLE POWER PLANT	Karnataka	Bangalore North
430	ANTONY LARA RENEWABLE ENERGY PVT. LIMITED	Maharashtra	Moshi PimpriChinchwad
431	KAKATIYA THERMAL POWER PROJECT, STAGE - I	Telangana	JayashankarBhupl alapally
432	JSW ENERGY LIMITED, (CAPTIVE POWER PLANT),	Andhra Pradesh	GadivemulaMonda l
433	TRIVENI ENGINEERING AND INDUSTRIES LTD	Uttar Pradesh	Deoband
434	JAGANNATH POWER AND INFRA PVT LTD	Orissa	Dhenkanal
435	THE HIND SAMACHAR LIMITED	Haryana	Kurukshetra
436	SHRI BAJRANG CHEMICAL DISTILLERY LLP	Chhattisgarh	Arang
437	FATEHABAD BIO ENERGY LLP	Haryana	Bhuna
438	JIND BIO ENERGY LLP	Haryana	Pillukhera
439	GREENERGY BIO REFINERIES PRIVATE LIMITED	Karnataka	Ranebennur
440	PRAGATI POWER STATION 330 MW COMBINED CYCLE GAS TURBINE	Delhi	Delhi
441	MAADURGA THERMAL POWER COMPANY LIMITED	Orissa	Boinchua
442	NAMRUP THERMAL POWER STATION	Assam	Dibrugarh
443	CHATTARGARH RENEWABLE ENERGY PVT. LTD.	Rajasthan	Bikaner
444	SHIKHAR COMMODITIES	Chhattisgarh	Bilaspur
445	RAJASTHAN ATOMIC POWER STATION (UNIT-3 & 4)	Rajasthan	Rawatbhata
446	RAJASTHAN ATOMIC POWER STATION (UNIT-2)	Rajasthan	Bengu
447	JINDAL URBAN WASTE MANAGEMENT (AHMEDABAD) LIMITED	Gujarat	Ahmedabad
448	JABALPUR MSW PVT. LIMITED	Madhya Pradesh	Jabalpur

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GOVERNMENT OF INDIA
MINISTRY OF POWER

RAJYA SABHA
UNSTARRED QUESTION NO.2703
ANSWERED ON 16.03.2026

ENERGY TRANSITION AND RENEWABLE CAPACITY

2703 SHRI KESRIDEVSINH JHALA:
SHRI HARSH MAHAJAN:
DR. SUMER SINGH SOLANKI:
SHRI BRIJ LAL:
SMT. SEEMA DWIVEDI:
SHRI ASHOKRAO SHANKARRAO CHAVAN:
SHRI SUBHASH BARALA:
DR. PARMAR JASHVANTSINH SALAMSINH:
SHRI LAHAR SINGH SIROYA:
SHRI SADANAND MHALU SHET TANAVADE:

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

(a) the specific non-fossil fuel electricity capacity target India achieved nearly five yearsahead of the scheduled timeline;

(b) the manner in which the share of non-fossil fuels in the total installed power generationcapacity has changed between 2014 and December 2025;

(c) whether Government has identified specific measures to address the challenges ofclimate change through energy transition initiatives; and

(d) if so, the details thereof, and by when Government is likely to achieve the next majormilestone in expanding renewable energy capacity?

A N S W E R

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI SHRIPAD NAIK)

(a): India has achieved a landmark in its energy transition journey by reaching 50% of its installed electricity capacity from non-fossil fuel sources in June, 2025 – more than five years ahead of the target set under its Nationally Determined Contributions (NDCs) to the Paris Agreement. This significant milestone underscores the country's steadfast commitment to climate action and sustainable development. Out of the total installed generation capacity of 484.82 GW (as on 30th June, 2025), the non-fossil fuel based installed capacity was 242.78 GW, which is 50.08% of the installed capacity.

(b): The share of non-fossil fuel capacity in the total installed power generation capacity has increased from 32.54 % (as on 31.03.2014) to 51.93 % (as on 31.12.2026) and its details are given at **Annexure.**

…….2.

(c) & (d): Government of India has taken various measures to address the challenges of climate change through energy transition initiatives. The Government is implementing reforms towards a secure, affordable and sustainable energy system to power a robust economic growth and have taken several measures like increasing the share of installed RE capacity & its uptake and promoting energy efficiency in all sphere of life.

The Government of India has undertaken several initiatives to achieve 500 GW non fossil capacity by 2030. Steps taken by Government of India to promote and accelerate renewable energy capacity in the country include the following:

(i) 100% Inter State Transmission System (ISTS) charges have been waived for inter-state sale of solar and wind power for projects to be commissioned by 30th June 2025 (with waiver tapering off 25% annually till June 2028), for co-located BESS projects commissioned by June 2028, for Hydro PSP projects where construction work awarded by June 2028, for Green Hydrogen Projects commissioned till December 2030 and for offshore wind projects commissioned till December 2032.

(ii) Standard Bidding Guidelines for tariff based competitive bidding process for procurement of Power from Grid Connected Solar, Wind, Wind-Solar Hybrid and Firm &Dispatchable RE (FDRE) projects have been issued.

(iii) Ministry of New & Renewable Energy (MNRE) has issued Bidding Trajectory for issuance of RE power procurement bids of 50 GW per annum by 'Renewable Energy Implementing Agencies' (REIAs) from FY 2023-24 to FY 2027-28.

(iv) Foreign Direct Investment (FDI) has been permitted up to 100 percent under the automatic route.

(v) Laying of new transmission lines and creating new sub-station capacity has been supported under the Green Energy Corridor Scheme for evacuation of renewable power.

(vi) To augment transmission infrastructure needed for steep RE trajectory, transmission plan has been prepared till 2032.

(vii) Scheme for setting up of Solar Parks and Ultra Mega Solar Power projects is being implemented to provide land and transmission to RE developers for installation of RE projects at large scale.

(viii) Schemes such as Pradhan Mantri KisanUrjaSurakshaevamUtthaanMahabhiyan (PM-KUSUM), PM Surya Ghar Muft Bijli Yojana, National Programme on High Efficiency Solar PV Modules, New Solar Power Scheme (for Tribal and PVTG Habitations/Villages) under Pradhan Mantri JanjatiAdivasiNyayaMahaAbhiyan (PM JANMAN) and DhartiAabhaJanjatiya Gram UtkarshAbhiyan (DA JGUA), National Green Hydrogen Mission, Viability Gap Funding (VGF) Scheme for Offshore Wind Energy Projects have been launched.

……..3.

(ix) Government of India, in September 2023, approved a Viability Gap Funding (VGF) scheme for development of Battery Energy Storage Systems (BESS). BESS capacity of 13.22 GWh is under implementation with a budgetary allocation of Rs 3,760 Cr. under this scheme. Considering the increasing demand of BESS, Ministry of Power, in June 2025, has approved another VGF scheme for development of 30 GWh BESS capacity with a financial support of Rs 5,400 Cr from Power System Development Fund (PSDF).

(x) To boost RE consumption, Renewable Purchase Obligation (RPO) followed by Renewable Consumption Obligation (RCO) trajectory has been notified till 2029-30. The RCO which is applicable to all designated consumers under the Energy Conservation Act 2001 will attract penalties on non-compliance. RCO also includes specified quantum of consumption from Decentralized Renewable Energy sources.

(xi) "Strategy for Establishments of Offshore Wind Energy Projects" has been issued.

(xii) To achieve the objective of increased domestic production of Solar PV Modules, the Govt. of India is implementing the Production Linked Incentive (PLI) scheme for High Efficiency Solar PV Modules.

(xiii) 12,723.5 MW of Hydro Electric Projects are under construction. Further, 4,274 MW of Hydro Electric Projects are under various stage of planning and targeted to be completed by 2031-32.

(xiv) Ministry of Power has initiated the steps to promote Pumped Storage Projects (PSPs) to support renewable energy integration and grid stability. At present, 10 Pumped Storage Projects totaling 11,870 MW are under construction in the country.

Further, Nuclear power has huge potential to ensure long term energy security and is vital for India's clean energy transition towards Net Zero by 2070. It is a clean and environment friendly source of base load power. The lifecycle emissions of nuclear power are comparable to those of renewables like hydro and wind. The Government of India has set an ambitious target of 100 GW nuclear power capacity by 2047.

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ANNEXURE

ANNEXURE REFERRED IN REPLY TO PART (b) OF UNSTARRED QUESTION NO. 2703 ANSWERED IN THE RAJYA SABHA ON 16.03.2026

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The details of the share of non-fossil fuel-based capacity in the total installed power generation capacity as on 31.03.2014 and 31.12.2025:

As on	**Total Installed Capacity (GW)**	**Non-Fossil fuel-based Capacity (GW)**	**% share of Non-Fossil Capacity w.r.t. Total Installed Power Generation Capacity**
31.03.2014	249.42	81.16	32.54%
31.12.2025	513.73	266.79	51.93%

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GOVERNMENT OF INDIA
MINISTRY OF POWER

RAJYA SABHA
UNSTARRED QUESTION NO.2704
ANSWERED ON 16.03.2026

POWER GENERATION AND DEMAND-SUPPLY GAP

2704 SHRI A. D. SINGH:

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

(a) the total power generation capacity in the country as on date;

(b) whether there exists any gap between demand and supply of electricity during peakhours; and

(c) the measures being taken by Government to bridge this gap and ensure uninterruptedpower supply to all sectors?

A N S W E R

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI SHRIPAD NAIK)

(a): As on 31.01.2026, the total 'installed power generation capacity' in the country is 5,20,511 MW.

(b) & (c): There is adequate availability of power in the country. Present installed generation capacity of the country is 520.51 GW (as on January, 2026). Government of India has addressed the critical issue of power deficiency by adding 296.388 GW of fresh generation capacity since April, 2014 transforming the country from power deficit to power sufficient.

The 'Power Supply Position' for last three financial years and the current financial year i.e. 2025-26 (up to February, 2026) is given at **Annexure.** The 'Energy Supplied' has been commensurate to the 'Energy Requirement' with only a marginal gap which is generally on account of constraints in the State transmission / distribution network**.**

The following steps have been taken to to bridge the gap during peak hours: -

(i) Hydro based generation is being scheduled in a manner so as to conserve water for meeting demand during peak period.

(ii) Planned maintenance of generating units is minimized during period of high demand.

(iii) Steady supply of coal to all the thermal power plants is ensured to prevent fuel shortages

(iv) All the GENCOs including IPPs and Central generating stations have been advised to generate and maintain full availability on daily basis excluding the period of planned maintenance or forced outage.

(v) A robust national grid has been established to facilitate the transfer of power from power surplus regions to power deficit regions. The capacity of National Grid is being expanded on a continuous basis commensurate with the growth in electricity generation and electricity demand.

(vi) Proactive monitoring of generation projects under construction to facilitate commensurate capacity addition.

(vii) The Electricity market has been reformed by adding the Real Time Market (RTM), Green Day Ahead Market (GDAM), Green Term Ahead Market (GTAM), High Price Day Ahead Market (HP-DAM) in Power Exchanges. Also, DEEP Portal (Discovery of Efficient Electricity Price) for e-Bidding and e-Reverse for procurement of short-term power by DISCOMs was introduced.

Further, the Government have taken the following steps to ensure uninterrupted power supply to all sectors:

1. **Generation and Storage Planning:**

(i) As per National Electricity Plan (NEP), installed generation capacity in 2031-32 is likely to be 874 GW. With a view to ensure generation capacity remains ahead of projected peak demand, all the States, in consultation with CEA, have prepared their "Resource Adequacy Plans (RAPs)", which are dynamic 10-year rolling plans and includes power generation as well as power procurement planning.

(ii) All the States were advised to initiate process for creating/ contracting generation capacities; from all generation sources, as per their Resource Adequacy Plans.

(iii) In order to augment the power generation capacity, the Government of India has initiated following capacity addition programme:

(A) The projected thermal (coal and lignite) capacity requirement by the year 2034–35 is estimated at approximately 3,07,000 MW as against the 2,11,855 MW installed capacity as on 31.03.2023. To meet this requirement, Ministry of Power has envisaged to set up an additional minimum 97,000 MW coal and lignite based thermal capacity.

To meet this requirement, several initiatives have already been undertaken. Thermal capacities of around 18,160 MW have already been commissioned since April 2023 till 31.01.2026. In addition, 38,745 MW of thermal capacity (including 4,845 MW of stressed thermal power projects) is currently under construction. The contracts of 22,920 MW have been awarded and are due for construction. Further, 24,020 MW of coal and lignite-based candidate capacity has been identified which is at various stages of planning in the country.

(B) 12,723.50 MW of Hydro Electric Projects are under construction. Further, 4,274 MW of Hydro Electric Projects are under various stage of planning and targeted to be completed by 2031-32.

(C) 6,600 MW of Nuclear Capacity is under construction and targeted to be completed by 2029-30. 7,000 MW of Nuclear Capacity is under various stages of planning and approval.

(D) 1,57,800 MW Renewable Capacity including 67,280 MW of Solar, 6,500 MW of Wind and 60,040 MW Hybrid power is under construction while 48,720 MW of Renewable Capacity including 35,440 MW of Solar and 11,480 MW Hybrid Power is at various stages of planning and targeted to be completed by 2029-30.

(E) In energy storage systems, 11,620 MW/69,720 MWh Pumped Storage Projects (PSPs) are under construction. Further, a total of 6,580 MW/39,480 MWh capacity of Pumped Storage Projects (PSPs) are concurred and yet to be taken up for construction. Currently, 9,653.94 MW/ 26,729.32 MWh Battery Energy Storage System (BESS) capacity are under construction and 19,797.65 MW/ 61,013.40 MWh BESS capacity are under tendering stage.

2. **Transmission Planning:** Inter and Intra-State Transmission System has been planned and implementation of the same is taken up in matching time frame of generation capacity addition. As per the National Electricity Plan, about 1,91,474 ckm of transmission lines and 1,274 GVA of transformation capacity is planned to be added (at 220 kV and above voltage level) during the ten-year period from 2022-23 to 2031-32.

In addition to the above, the Ministry of Power has issued guidelines dated 14.06.2024, 21.03.2025 and 15.12.2025 regarding the payment of compensation for Right of Way (RoW) for transmission lines, wherein the land rate has been linked to the prevailing market rate. These guidelines address the key challenges of RoW arising from landowners demanding higher compensation than the rates determined by the State Government.

3. Promotion of Renewable Energy Generation:

(i) 100% Inter State Transmission System (ISTS) charges have been waived for inter-state sale of solar and wind power for projects to be commissioned by 30th June 2025 (with waiver tapering off 25% annually till June 2028), for co-located BESS projects commissioned by June 2028, for Hydro PSP projects where construction work awarded by June 2028, for Green Hydrogen Projects commissioned till December 2030 and for offshore wind projects commissioned till December 2032.

(ii) Standard Bidding Guidelines for tariff based competitive bidding process for procurement of Power from Grid Connected Solar, Wind, Wind-Solar Hybrid and Firm &Dispatchable RE (FDRE) projects have been issued.

(iii) Renewable Energy Implementing Agencies (REIAs) are regularly inviting bids for procurement of RE power.

(iv) Foreign Direct Investment (FDI) has been permitted up to 100 percent under the automatic route.

(v) To augment transmission infrastructure needed for steep RE trajectory, transmission plan has been prepared till 2032.

(vi) Laying of new intrastate transmission lines and creating new sub-station capacity has been supported under the Green Energy Corridor Scheme for evacuation of renewable power.

(vii) Scheme for setting up of Solar Parks and Ultra Mega Solar Power projects is being implemented to provide land and transmission to RE developers for installation of RE projects at large scale.

(viii) Schemes such as Pradhan Mantri KisanUrjaSurakshaevamUtthaanMahabhiyan (PM-KUSUM), PM Surya Ghar Muft Bijli Yojana, National Programme on High Efficiency Solar PV Modules, New Solar Power Scheme (for Tribal and PVTG Habitations/Villages) under Pradhan Mantri JanjatiAdivasiNyayaMahaAbhiyan (PM JANMAN) and DhartiAabhaJanjatiya Gram UtkarshAbhiyan (DA JGUA), National Green Hydrogen Mission, Viability Gap Funding (VGF) Scheme for Offshore Wind Energy Projects have been launched.

(ix) To encourage RE consumption, Renewable Purchase Obligation (RPO) followed by Renewable Consumption Obligation (RCO) trajectory has been notified till 2029-30. The RCO which is applicable to all designated consumers under the Energy Conservation Act, 2001 will attract penalties on non-compliance.

(x) "Strategy for Establishment of Offshore Wind Energy Projects" has been issued.

(xi) Green Term Ahead Market (GTAM) has been launched to facilitate sale of Renewable Energy Power through exchanges.

(xii) Production Linked Incentive (PLI) scheme has been launched to achieve the objective of localization of supply chain for solar PV Modules.

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ANNEXURE

ANNEXURE REFERRED IN REPLY TO PARTS (b) & (c) OF UNSTARRED QUESTION NO. 2704 ANSWERED IN THE RAJYA SABHA ON 16.03.2026

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The details of actual Power Supply Position of the country for last three financial years and the current financial year i.e. 2025-26 (upto February, 2026):

Financial Year	Energy Requirement	Energy Supplied	Energy not Supplied		Peak Demand	Peak Met	Demand not Met	
	(MU)	(MU)	(MU)	(%)	(MW)	(MW)	(MW)	(%)
2022-23	15,13,497	15,05,914	7,583	0.5	2,15,888	2,07,231	8,657	4.0
2023-24	16,26,132	16,22,020	4,112	0.3	2,43,271	2,39,931	3,340	1.4
2024-25	16,93,959	16,92,369	1,590	0.1	2,49,856	2,49,854	2	0.0
2025-26 (upto February, 2026)	15,59,936	15,59,482	454	0.0	2,45,444	2,45,416	28	0.0

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GOVERNMENT OF INDIA
MINISTRY OF POWER

RAJYA SABHA
UNSTARRED QUESTION NO.2705
ANSWERED ON 16.03.2026

POWER AVAILABILITY ESSENTIAL FOR THE ECONOMIC GROWTH

2705 SHRI P. P. SUNEER:

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

(a) whether it is a fact that the power sector is the backbone of India's economy andreliable power supply is essential for the country's growth ,particularly for building our own AI capabilities and infrastructure; and

(b) if so, the details and the steps that are proposed to be taken to increase the poweravailability in the country?

A N S W E R

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI SHRIPAD NAIK)

(a) & (b): Yes**.** There is adequate availability of power in the country. Present installed generation capacity of the country is 520.51 GW (as on January, 2026). Government of India has addressed the critical issue of power deficiency by adding 296.388 GW of fresh generation capacity since April, 2014 transforming the country from power deficit to power sufficient.

The Government have taken the following steps to increase the power availability in the country:

1. Generation and Storage Planning:

(i) As per National Electricity Plan (NEP), installed generation capacity in 2031-32 is likely to be 874 GW. With a view to ensure generation capacity remains ahead of projected peak demand, All the States, in consultation with CEA, have prepared their "Resource Adequacy Plans (RAPs)", which are dynamic 10-year rolling plans and include power generation as well as power procurement planning.

(ii) All the States were advised to initiate process for creating/ contracting generation capacities; from all generation sources, as per their Resource Adequacy Plans.

(iii) In order to augment the power generation capacity, the Government of India has initiated following capacity addition programme:

(A) The projected thermal (coal and lignite) capacity requirement by the year 2034–35 is estimated at approximately 3,07,000 MW as against the 2,11,855 MW installed capacity as on 31.03.2023. To meet this requirement, Ministry of Power has envisaged to set up an additional minimum 97,000 MW coal and lignite based thermal capacity.

……..2.

To meet this requirement, several initiatives have already been undertaken. Thermal capacities of around 18,160 MW have already been commissioned since April 2023 till 31.01.2026. In addition, 38,745 MW of thermal capacity (including 4,845 MW of stressed thermal power projects) is currently under construction. The contracts of 22,920 MW have been awarded and are due for construction. Further, 24,020 MW of coal and lignite-based candidate capacity has been identified which is at various stages of planning in the country.

(B) 12,723.50 MW of Hydro Electric Projects are under construction. Further, 4,274 MW of Hydro Electric Projects are under various stage of planning and targeted to be completed by 2031-32.

(C) 6,600 MW of Nuclear Capacity is under construction and targeted to be completed by 2029-30. 7,000 MW of Nuclear Capacity is under various stages of planning and approval.

(D) 1,57,800 MW Renewable Capacity including 67,280 MW of Solar, 6,500 MW of Wind and 60,040 MW Hybrid power is under construction while 48,720 MW of Renewable Capacity including 35,440 MW of Solar and 11,480 MW Hybrid Power is at various stages of planning and targeted to be completed by 2029-30.

(E) In energy storage systems, 11,620 MW/69,720 MWh Pumped Storage Projects (PSPs) are under construction. Further, a total of 6,580 MW/39,480 MWh capacity of Pumped Storage Projects (PSPs) are concurred and yet to be taken up for construction. Currently, 9,653.94 MW/ 26,729.32 MWh Battery Energy Storage System (BESS) capacity are under construction and 19,797.65 MW/ 61,013.40 MWh BESS capacity are under tendering stage.

2. **Transmission Planning:** Inter and Intra-State Transmission System has been planned and implementation of the same is taken up in matching time frame of generation capacity addition. As per the National Electricity Plan, about 1,91,474 ckm of transmission lines and 1,274 GVA of transformation capacity is planned to be added (at 220 kV and above voltage level) during the ten-year period from 2022-23 to 2031-32.

In addition to the above, the Ministry of Power has issued guidelines dated 14.06.2024, 21.03.2025 and 15.12.2025 regarding the payment of compensation for Right of Way (RoW) for transmission lines, wherein the land rate has been linked to the prevailing market rate. These guidelines address the key challenges of RoW arising from landowners demanding higher compensation than the rates determined by the State Government.

3. Promotion of Renewable Energy Generation:

(i) 100% Inter State Transmission System (ISTS) charges have been waived for inter-state sale of solar and wind power for projects to be commissioned by 30th June 2025 (with waiver tapering off 25% annually till June 2028), for co-located BESS projects commissioned by June 2028, for Hydro PSP projects where construction work awarded by June 2028, for Green Hydrogen Projects commissioned till December 2030 and for offshore wind projects commissioned till December 2032.

(ii) Standard Bidding Guidelines for tariff based competitive bidding process for procurement of Power from Grid Connected Solar, Wind, Wind-Solar Hybrid and Firm &Dispatchable RE (FDRE) projects have been issued.

(iii) Renewable Energy Implementing Agencies (REIAs) are regularly inviting bids for procurement of RE power.

(iv) Foreign Direct Investment (FDI) has been permitted up to 100 percent under the automatic route.

(v) To augment transmission infrastructure needed for steep RE trajectory, transmission plan has been prepared till 2032.

(vi) Laying of new intrastate transmission lines and creating new sub-station capacity has been supported under the Green Energy Corridor Scheme for evacuation of renewable power.

(vii) Scheme for setting up of Solar Parks and Ultra Mega Solar Power projects is being implemented to provide land and transmission to RE developers for installation of RE projects at large scale.

(viii) Schemes such as Pradhan Mantri KisanUrjaSurakshaevamUtthaanMahabhiyan (PM-KUSUM), PM Surya Ghar Muft Bijli Yojana, National Programme on High Efficiency Solar PV Modules, New Solar Power Scheme (for Tribal and PVTG Habitations/Villages) under Pradhan Mantri JanjatiAdivasiNyayaMahaAbhiyan (PM JANMAN) and DhartiAabhaJanjatiya Gram UtkarshAbhiyan (DA JGUA), National Green Hydrogen Mission, Viability Gap Funding (VGF) Scheme for Offshore Wind Energy Projects have been launched.

(ix) To encourage RE consumption, Renewable Purchase Obligation (RPO) followed by Renewable Consumption Obligation (RCO) trajectory has been notified till 2029-30. The RCO which is applicable to all designated consumers under the Energy Conservation Act, 2001 will attract penalties on non-compliance.

(x) "Strategy for Establishment of Offshore Wind Energy Projects" has been issued.

(xi) Green Term Ahead Market (GTAM) has been launched to facilitate sale of Renewable Energy Power through exchanges.

(xii) Production Linked Incentive (PLI) scheme has been launched to achieve the objective of localization of supply chain for solar PV Modules.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

RAJYA SABHA
UNSTARRED QUESTION NO.2706
ANSWERED ON 16.03.2026

SMART GRID PROJECTS

2706 SHRI PARIMAL NATHWANI:

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

(a) whether Government has implemented or proposed smart grid projects in urban areas;

(b) if so, the number of such projects currently operational across the country; and

(c) the benefits accrued from the adoption of smart grid technologies**?**

A N S W E R

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI SHRIPAD NAIK)

(a) to (c): Government of India (GoI) has supported the States/ distribution utilities in implementation of smart grid projects across the country through financial assistance earlier under schemes like Restructured Accelerated Power Development and Reforms Programme (RAPDRP), Integrated Power Distribution Scheme (IPDS), National Smart Grid Mission (NSGM) and currently under the Revamped Distribution Sector Scheme (RDSS),launched in July 2021.

11 Nos. of Smart Grid pilot projects under Restructured Accelerated Power Development and Reforms Programme (RAPDRP)/Integrated Power Development Scheme (IPDS) and 2 Smart Grid projects under National Smart Grid Mission (NSGM) were deployed at various locations in the country.

Thereafter, under RDSS, pre-paid smart metering works covering 19.79 crore consumers and smart system metering works for 2.11 lakh feeders and 52.53 lakh Distribution Transformers (DTs) have been sanctioned. Till date, 5.97 crore smart meters have been installed across the country under various schemes.

Further, under the above schemes, Supervisory Control and Data Acquisition (SCADA) works have been sanctioned for 455 towns.

The following benefits to DISCOMs and consumers are envisaged with the adoption of smart grid technologies:

i. Enhanced revenue collection for DISCOMs along with automatic energy accounting.

ii. Real-time detection and recording of outages, reduced equipment failure and faster fault detection and restoration.

iii. Improved consumer experience due to accurate billing and ability to track electricity consumption.

iv. Improved load forecasting along with facilitating an enabling ecosystem for energy transition.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

RAJYA SABHA
UNSTARRED QUESTION NO.2707
ANSWERED ON 16.03.2026

SHORTAGE OF ELECTRICITY IN THE COUNTRY

2707 DR. KANIMOZHI NVN SOMU:

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

(a) whether there is acute shortage of electricity in the country;

(b) if so, the details thereof and the steps taken by Government to restore normal demandand supply of electricity; and

(c) the strategy adopted by Government to eliminate the gap between the unitcost ofelectricity supply and price/revenue realisation?

A N S W E R

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI SHRIPAD NAIK)

(a) & (b): There is adequate availability of power in the country. Present installed generation capacity of the country is 520.51 GW (as on January, 2026). India has addressed the critical issue of power deficiency by adding 296.388 GW of fresh generation capacity since April, 2014 transforming the country from power deficit to power sufficient.

The 'Power Supply Position' for last three financial years and the current financial year i.e. 2025-26 (up to February, 2026) is given at **Annexure.** The 'Energy Supplied' has been commensurate to the 'Energy Requirement' with only a marginal gap which is generally on account of constraints in the State transmission / distribution network**.**

(c): Revamped Distribution Sector Scheme (RDSS) has been launched in the year 2021withtheobjectiveofimprovingthequalityandreliabilityofsupplyofpower through a financially sustainable and operationally efficient distribution sector.

A key objective of the RDSS is to reduce the Aggregate Technical and Commercial (AT&C) losses to pan-India levels of 12-15 % and the gap between Average Cost of Supply (ACS) and Average Revenue Realized (ARR) to Zero. To achieve this objective, works amounting to Rs 1.53 Lakh Crores for strengthening of Distribution Infrastructure and Rs 1.3 lakh Crores for smart metering have been sanctioned under the scheme based on the proposals submitted by States.

The following works to strengthen the distribution network have been sanctioned under the scheme:

- Works for creation of new substations/upgradation of substations

- Installation of new Distribution Transformers (DTs) and augmentation of existing DTs
- Replacement of old conductors
- Undergrounding of HT/LT lines
- Segregation of agricultural feeders

Further, smart metering works help improve the collection efficiency of Distribution utilities while providing benefits like automatic energy accounting, improved load forecasting and facilitating an enabling ecosystem for energy transition. Pre-paid smart metering works covering 19.79 crore consumers and smart system metering works for 2.11 lakh feeders and 52.53 lakh DTs have been sanctioned under the scheme. Till date, 4.55 Cr crore smart meters have been installed under RDSS, and overall, 5.97 crore smart meters have been installed across the country under various schemes.

The release of funds under the scheme is contingent on improvement in operational and financial performance of the utilities which, in addition to the above initiatives taken by GoI, has helped in bringing discipline in payment of Government subsidies and Govt. department dues to the utilities, regular issuance of tariff orders, timely publishing of accounts, non-creation of regulatory assets, etc.

Further, in addition to implementation of RDSS, Government of India has taken the following measures to improve the financial condition of distribution utilities:

(i) Additional Borrowing space of 0.5% of GSDP to State Governments, which is conditional on them undertaking specific reforms in the power sector.

(ii) Additional Prudential Norms for sanctioning of loans to State owned Power Utilities which would be contingent to the performance of Power Distribution Utilities against prescribed conditions.

(iii) Rules for implementation of Fuel and Power Purchase Cost Adjustment (FPPCA) and Cost reflective tariff so as to ensure that all prudent cost for supply of electricity are passed through.

(iv) Rules and Standard Operating Procedure issued for proper Subsidy Accounting and their timely payment.

(v) Advisory to SERCs (State Electricity Regulatory Commission) & JERCs (Joint Electricity Regulatory Commission) for timely issuance of tariff and true up orders.

(vi) Toimprove payment disciplineinthepower sectorvalue chain,Electricity (Late Payment Surcharge and Related Matters) Rules, 2022 were promulgated, 2022 whichentailobligationsupontheDISCOMstoclear theirlegacyduesasexisting on 03.06.2022 in a phased manner and time bound clearance of current dues.

With concerted efforts of Central and State Governments, the Aggregate Technical and Commercial (AT&C) losses at national level have reduced from 21.91% in FY21 to 15.04% in FY25 while the national Average Cost of Supply - Average Revenue Realized (ACS-ARR)gaphas reduced fromRs. 0.69/kWhtoRs. 0.06/kWh. Thesecollectiveefforts havealsoresultedinDISCOMsachievingaprofitaftertax(PAT)ofRs2,701croreforthe first time.

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ANNEXURE

ANNEXURE REFERRED IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 2707 ANSWERED IN THE RAJYA SABHA ON 16.03.2026

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The details of actual Power Supply Position of the country for last three financial years and the current financial year i.e. 2025-26 (upto February, 2026):

Financial Year	Energy Requirement	Energy Supplied	Energy not Supplied		Peak Demand	Peak Met	Demand not Met	
	(MU)	(MU)	(MU)	(%)	(MW)	(MW)	(MW)	(%)
2022-23	15,13,497	15,05,914	7,583	0.5	2,15,888	2,07,231	8,657	4.0
2023-24	16,26,132	16,22,020	4,112	0.3	2,43,271	2,39,931	3,340	1.4
2024-25	16,93,959	16,92,369	1,590	0.1	2,49,856	2,49,854	2	0.0
2025-26 (upto February, 2026)	15,59,936	15,59,482	454	0.0	2,45,444	2,45,416	28	0.0

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GOVERNMENT OF INDIA
MINISTRY OF POWER

RAJYA SABHA
UNSTARRED QUESTION NO.2708
ANSWERED ON 16.03.2026

INTEGRATION OF NON-FOSSIL FUEL POWER GENERATING INTO NATIONAL GRID

2708 SHRI KARTIKEYA SHARMA:

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

(a) the preparedness of Government to integrate the targeted 500 GW non-fossil fuelpower capacity by 2030, particularly the rising share of solar and wind, into the nationalgrid;

(b) the details of grid-readiness and stability assessments conducted to manageintermittency, variability and peak-load balancing without risk of outages;

(c) the measures taken to strengthen grid resilience, including transmission expansion,Green Energy Corridors, energy storage systems, smart-grid technologies, forecasting andreal-time balancing mechanisms; and

(d) whether additional flexible or baseload reserve capacity is being planned to ensurereliable 24×7 electricity supply, along with the timeline thereof?

A N S W E R

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI SHRIPAD NAIK)

(a), (b) & (c): Grid-readiness and stability for integrating large shares of renewable energy are continuously assessed through system studies, including load flow studies, dynamic stability studies, and contingency analysis. These studies evaluate the impact of renewable energy variability, intermittency and peak-load requirements on the grid.

The following measures are in place to ensure the smooth integration of RE into the national grid, maintain grid stability, manage intermittency, variability and peak-load balancing without risk of outages: -

(i) Transmission system has been planned for integration of over 500 GW RE capacity by the year 2030. The transmission schemes associated with RE generation projects are being taken up for implementation in a phased manner commensurate with the RE Capacity addition.

(ii) Development of intra-state transmission network is being planned to keep pace with RE capacity addition. Strong inter connection of ISTS RE schemes with the intra-state network to ensure better reliability in terms of anchoring voltage stability, angular stability, losses reduction etc. is being done.

(iii) Central Financial Assistance (CFA) is being provided to the States for setting up Transmission infrastructure for RE integration within their State under the Green Energy Corridor Scheme. Intra State Green Energy Corridor (GEC) scheme is being implemented by the Ministry of New and Renewable Energy (MNRE) in 10 States. The intra state transmission system for evacuation of 24 GW RE under Green Energy Corridor Phase-I (GEC-I) is already commissioned. The transmission system under GEC-II for evacuation of around 20 GW RE is under implementation.

(iv) Setting up of Regional Energy Management Centers (REMCs) for better forecasting of renewable power and to assist grid operators to manage variability and intermittency of renewable power.

(v) Innovative products like Solar-Wind Hybrid Projects, RE projects with energy storage systems and supply of RE power balanced with power from non-RE sources launched to reduce intermittency.

(vi) Implementation of Green Term Ahead Market (GTAM) and Green Day Ahead Market (GDAM) for sale of renewable energy.

(vii) Flexibility in generation and Scheduling of Thermal/Hydro Power Stations to address the variability of RE generation.

(viii) CEA (Technical Standards for Connectivity to the Grid) Regulations lay down the minimum technical requirements for the RE generating plants to ensure the safe, secure and reliable operation of the grid. The compliances to the said regulations by RE plants are verified jointly by Central Transmission Utility (CTUIL) and Grid-India / Regional Load DespatchCentres (RLDCs) before granting connectivity/interconnection to the national grid. Robust compliances verification is done before interconnection of any new plant to the grid.

(ix) Indian Electricity Grid Code mandates that RE plants participate in the primary and secondary frequency control in case of contingencies. Hybrid RE power plants, Energy Storage Systems such as BESS (Battery Energy Storage System) and PSP (Pump Storage Project) are being promoted for mitigating variability in RE generation and provide adequate frequency support to the grid. Considering the requirement of 'Energy Storage' to facilitate integration of renewable energy in the country, Ministry of Power (MOP) is providing Viability Gap funding (VGF) for installation of Battery Energy Storage System (BESS). Through this scheme, development of 43 GWh BESS is envisaged.

(x) Static Synchronous Compensators (STATCOM) and Static VAR Compensator (SVC) are being deployed to dynamically adjust the reactive power flow in the grid for maintaining stable voltage levels. Further, Several Dynamic Compensation devices such as Static Var Compensators (SVCs) Static Compensators (STATCOMs) and Synchronous Condensers (SynCons) in ISTS system are under various stages of Planning and implementation.

(xi) Automatic Generation Control (AGC) is being utilized to maintain frequency stability by sending Secondary Reserve Ancillary Services (SRAS) Up or Down signals every four (04) seconds to AGC-enabled power plants.

(xii) Market-based Tertiary Reserve Ancillary Services (TRAS) for addressing real-time demand–supply imbalances.

(xiii) The generators with high ramp rate (e.g. hydro or gas) are also scheduled optimally to maintain load generation balance.

(xiv) Switching of Reactors is effected to maintain voltage in RE complex within the desired range for secure & reliable grid operation.

(xv) Ministry of Heavy Industries (MHI), has a Production Linked Incentive (PLI) scheme, 'National Programme on Advanced Chemistry Cell (ACC) Battery Storage' for implementation of giga-scale ACC manufacturing facilities in India, with an aim to establish a competitive domestic manufacturing ecosystem for 50 GWh with a total budgetary outlay of ₹18,100 crore. Out of 50 GWh capacity, 10 GWh has been earmarked for grid scale stationary storage applications to MNRE.

(xvi) CEA has issued guidelines dated 07.07.2025 for installation of Automatic Weather Stations (AWS) for Solar and Wind Power Plants to measure critical meteorological parameters for accurate, real-time measurement of weather to enable optimization of RE generation. This would improve overall generation predictability, efficiency, enhance grid reliability and ensure regulatory compliance.

To strengthen the transmission infrastructure in line with the growing electricity demand, the Government of India notified the National Electricity Plan (Volume-II Transmission) in 2024. The plan outlines the transmission system requirements for the period 2023 to 2032, commensurate with projected generation capacity additions to meet the projected electricity demand.

(d): The peak electricity demand and electrical energy requirement are expected to reach 446 GW and 3215 BU respectively in 2034-35. To meet the projected electricity demand, adequate generation capacity has been planned in the country. In this regard, the Government of India has initiated the following capacity addition programme:

(A) The projected thermal (coal and lignite) capacity requirement by the year 2034–35 is estimated at approximately 3,07,000 MW as against the 2,11,855 MW installed capacity as on 31.03.2023. To meet this requirement, Ministry of Power has envisaged to set up an additional minimum 97,000 MW coal and lignite based thermal capacity.

To meet this requirement, several initiatives have already been undertaken. Thermal capacities of around 18,160 MW have already been commissioned since April 2023 till 31.01.2026. In addition, 38,745 MW of thermal capacity (including 4,845 MW of stressed thermal power projects) is currently under construction. The contracts of 22,920 MW have been awarded and are due for construction. Further, 24,020 MW of coal and lignite-based candidate capacity has been identified which is at various stages of planning in the country.

(B) 12,723.50 MW of Hydro Electric Projects are under construction. Further, 4,274 MW of Hydro Electric Projects are under various stage of planning and targeted to be completed by 2031-32.

(C) 6,600 MW of Nuclear Capacity is under construction and targeted to be completed by 2029-30. 7,000 MW of Nuclear Capacity is under various stages of planning and approval.

(D) 1,57,800 MW Renewable Capacity including 67,280 MW of Solar, 6,500 MW of Wind and 60,040 MW Hybrid power is under construction while 48,720 MW of Renewable Capacity including 35,440 MW of Solar and 11,480 MW Hybrid Power is at various stages of planning and targeted to be completed by 2029-30.

(E) In energy storage systems, 11,620 MW/69,720 MWh Pumped Storage Projects (PSPs) are under construction. Further, a total of 6,580 MW/39,480 MWh capacity of Pumped Storage Projects (PSPs) are concurred and yet to be taken up for construction. Currently, 9,653.94 MW/

26,729.32 MWh Battery Energy Storage System (BESS) capacity are under construction and 19,797.65 MW/ 61,013.40 MWh BESS capacity are under tendering stage.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

RAJYA SABHA
UNSTARRED QUESTION NO.2709
ANSWERED ON 16.03.2026

DISCOM DEBT

2709 SMT. SAGARIKA GHOSE:

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

(a) total accumulated debt of DISCOMs;

(b) State-wise breakdown of this debt;

(c) debt service coverage ratio (DSCR) since 2020;

(d) gap between average cost of supply and average revenue realised; and

(e) projected subsidy dependence and details of support provided to State Governmentsupport?

A N S W E R

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI SHRIPAD NAIK)

(a) & (b): As per the 14th Annual Integrated Rating and Ranking report on Power Distribution Utilities, total accumulated debt of distribution utilities as on 31.03.2025 is Rs. 7,26,378 Cr. The State-wise details are placed at **Annexure-I.**

(c): State-wise Debt Service Coverage Ratio (DSCR) since 2020 is placed at**Annexure-II**.

(d): State-wise gap between Average Cost of Supply (ACS) and Average Revenue Realized (ARR)for FY 2024-25 is placed at**Annexure-I.**

(e): It is the State Government which provides subsidy support to DISCOMs for various categories of consumers in line with section 65 of Electricity Act, 2003.

Further, details of subsidy provided by State Governments to DISCOMs are captured from the annual financial accounts of the utilities after the end of financial year. Accordingly, State-wise details of subsidy billed and subsidy received as on 31.03.2025is placed at**Annexure-III.**

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ANNEXURE-I

ANNEXURE REFERRED IN REPLY TO PARTS (a), (b)& (d) OF UNSTARRED QUESTION NO. 2709 ANSWERED IN THE RAJYA SABHA ON 16.03.2026

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State-wise ACS-ARR Gap for FY 2024-25 and Accumulated Debt as on 31.03.2025

State	ACS-ARR Gap (Rs./kWh)	Total accumulated debt (Rs Cr)
State Sector	0.11	7,11,402
Andaman & Nicobar Islands	2.22	NA
Andhra Pradesh	(0.15)	77,583
Arunachal Pradesh	0.00	NA
Assam	(0.26)	1,131
Bihar	(0.41)	14,002
Chhattisgarh	(0.19)	5,428
Delhi (NDMC)	(0.86)	NA
Goa	0.20	NA
Gujarat	(0.40)	258
Haryana	0.10	20,311
Himachal Pradesh	0.23	7,024
Jharkhand	0.95	22,381
Karnataka	0.69	47,993
Kerala	(0.17)	17,638
Ladakh	(0.89)	NA
Madhya Pradesh	(0.04)	49,239
Maharashtra	0.56	90,659
Manipur	(0.20)	745
Meghalaya	0.13	1,474
Mizoram	(0.34)	NA
Nagaland	(0.50)	NA
Puducherry	(0.64)	NA
Punjab	(0.30)	17,411
Rajasthan	(0.04)	98,488
Sikkim	0.33	NA
Tamil Nadu	(0.19)	1,01,782
Telangana	0.27	59,230
Tripura	1.40	842
Uttar Pradesh	0.73	61,395
Uttarakhand	0.06	1,729
West Bengal	(0.03)	14,658
Private Sector	(0.65)	14,975
National	0.06	7,26,378

NA: Data not available. Balance Sheet data such as Debt is not available for Power Departments
Source: 14th Annual Integrated Rating and Ranking report on Power Distribution Utilities

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ANNEXURE-II

ANNEXURE REFERRED IN REPLY TO PART (c) OF UNSTARRED QUESTION NO. 2709 ANSWERED IN THE RAJYA SABHA ON 16.03.2026

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State-wise Debt Service Coverage Ratio (DSCR)

State	As on March 31, 2020	As on March 31, 2021	As on March 31, 2022	As on March 31, 2023	As on March 31, 2024	As on March 31, 2025
State Sector	-0.11	-0.11	0.47	0.30	0.43	0.66
Andhra Pradesh	0.12	-0.67	0.01	0.22	-0.03	0.94
Assam	0.13	0.32	1.02	-0.15	0.86	2.72
Bihar	-2.84	-1.48	-1.23	1.28	1.57	1.87
Chhattisgarh	0.45	-0.64	-0.02	0.82	1.30	4.60
Gujarat	4.05	9.21	7.72	6.17	16.00	12.63
Haryana	0.33	1.40	1.80	1.30	-0.19	-0.23
Himachal Pradesh	1.10	1.08	0.91	-0.09	0.21	0.20
Jharkhand	-0.81	-0.83	-0.36	-0.34	-0.42	0.34
Karnataka	-0.06	-0.31	1.63	0.45	0.61	0.39
Kerala	0.42	0.64	0.90	0.67	0.47	1.17
Madhya Pradesh	-0.07	-0.38	0.29	0.34	0.08	0.22
Maharashtra	0.19	-0.20	0.76	-0.10	0.09	1.07
Manipur	-3.77	-2.52	8.06	0.33	3.64	-0.24
Meghalaya	-2.09	-0.78	0.60	-0.09	-0.01	1.02
Punjab	0.14	0.89	1.05	0.27	0.99	1.51
Rajasthan	-0.13	0.49	0.92	0.61	0.46	0.32
Tamil Nadu	-0.46	0.04	0.16	0.14	0.43	0.44
Telangana	-2.39	-1.04	-0.89	-0.52	-0.62	-0.31
Tripura	-0.60	-0.87	-4.01	-5.46	-4.56	0.38
Uttar Pradesh	-0.81	-0.67	0.62	0.97	1.10	0.89
Uttarakhand	-0.83	1.03	3.73	-1.09	0.95	1.07
West Bengal	0.12	-0.73	1.03	0.38	0.73	0.96
Private Sector	1.00	1.52	1.46	1.39	2.05	2.86
National	-0.04	-0.02	0.51	0.34	0.47	0.71

Source: 14th Annual Integrated Rating and Ranking report on Power Distribution Utilities

Data not available for Power departments of states/UTs such as Arunachal Pradesh, Goa, Puducherry, Mizoram, Nagaland, Sikkim, Ladakh and Andaman & Nicobar Islands.

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ANNEXURE-III

ANNEXURE REFERRED IN REPLY TO PART (e) OF UNSTARRED QUESTION NO. 2709 ANSWERED IN THE RAJYA SABHA ON 16.03.2026

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State-wise details of subsidy for FY24-25 as on 31.03.2025 (in Rs. Crore)

	Tariff Subsidy Billed	Tariff Subsidy Received
State Sector	2,37,260	2,34,751
Andaman & Nicobar Islands	790	790
Andhra Pradesh	16,681	15,527
Assam	845	845
Bihar	15,405	15,422
Chhattisgarh	6,519	7,841
Delhi (NDMC)	14	14
Gujarat	9,277	9,277
Haryana	7,115	6,386
Himachal Pradesh	1,650	943
Jharkhand	3,521	3,727
Karnataka	27,725	30,434
Kerala	382	382
Madhya Pradesh	23,780	26,796
Maharashtra	23,149	20,466
Manipur	246	267
Mizoram	356	356
Nagaland	543	543
Puducherry	32	32
Punjab	20,693	16,892
Rajasthan	30,597	29,846
Sikkim	5	5
Tamil Nadu	15,701	15,772
Telangana	11,157	11,157
Tripura	68	68
Uttar Pradesh	19,095	19,095
Uttarakhand	47	0
West Bengal	1,868	1,869
Private Sector	3,732	3,581
Grand Total	2,40,992	2,38,332

Source: 14th Annual Integrated Rating and Ranking report on Power Distribution Utilities

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GOVERNMENT OF INDIA
MINISTRY OF POWER

RAJYA SABHA
UNSTARRED QUESTION NO.2710
ANSWERED ON 16.03.2026

CAG REPORT ON DDUGJY AND SAUBHAGYA SCHEMES

2710 # SHRI JAVED ALI KHAN:

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

(a) whether Government has taken cognizance of the report of the Comptroller and AuditorGeneral of India on the Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY) and thePradhan Mantri Sahaj Bijli Har Ghar Yojana (Saubhagya) schemes;

(b) the reasons cited in the report for the failures of the said schemes;

(c) the details of the recommendations made by the CAG for future improvements; and

(d) the details of the action taken by Government on the recommendations made by theCAG regarding the failures of said schemes?

A N S W E R

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI SHRIPAD NAIK)

(a) to (d): Government of India launched Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)and Pradhan Mantri Sahaj Bijli Har Ghar Yojana (SAUBHAGYA) to supplement the efforts of the states to provide reliable electricity to all households. As reported by the States, all inhabited un-electrified census villages were electrified by28th April 2018**,** with18,374 villages electrified under DDUGJY**,** and 2.86 crore households electrified during SAUBHAGYA period. Both schemes were successfully closed on 31.03.2022.

The Comptroller and Auditor General (CAG) of India has submitted Performance Audit Report on DDUGJY and SAUBHAGYA (Report No. 17 of 2025)**.** The report contains observations on various aspects of the schemes including financial management, implementation of schemes, quality assurance mechanism and monitoring, and achievement of the intended objectives of the schemes.

Audit has observed a delay in projects and has noted factors such as issues relating to land acquisition and permissions, challenges in field surveys and project planning, constraints in availability of resources, and other operational and administrative difficulties faced during implementation by the concerned agencies etc. as some of the reasons for the delay. The details of the recommendations made by the CAG for future improvements are enclosed at **Annexure-I.**

Ministry of Power has actively evolved its strategy by internalizing lessons from the implementation of previous flagship schemes like DDUGJY and SAUBHAGYA. The ongoing Revamped Distribution Sector Scheme (RDSS) already incorporates CAG recommendations by focusing on a "reforms-based and results-linked" framework. The broadframework of RDSS is enclosed at **Annexure-II.** Further, the improved standards and audit-driven insights would be considered and integrated into all future schemes.

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ANNEXURE-I

ANNEXURE REFERRED IN REPLY TO PARTS (a) TO (d) OF UNSTARRED QUESTION NO. 2710 ANSWERED IN THE RAJYA SABHA ON 16.03.2026

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Details of the recommendations made by the CAG for future improvements:

Para 3.1.2: Feasibility study needs to be ensured by Ministry of Power (MoP) for realistic estimation of work to avoid major variation during work sanction and execution.

Para 3.1.4: Field surveys may be carried out before preparation of DPRs, as per the provisions of scheme guidelines, to improve the scheme planning process and to minimise variations during execution.

Para 3.2.2: MoP may ensure standardisation of all procedures related to award and execution of projects to help in timely completion of award and execution process.

Para 4.1: Nodal Agency may ensure that release of funds is done as per the approved funding guidelines.

Para 5.1: Quality Assurance and Monitoring mechanism (viz. 100 per cent pre-dispatch inspection, procurement of materials in agreement with turnkey contract, ensuring the compliances of quality monitoring guidelines etc.) may be strengthened at DISCOM as well as REC level.

Para 5.3: MoP may ensure that meetings of State Level Standing Committee (SLSC) and Monitoring Committee (MC) are conducted at regular intervals for timely sanction, monitoring and review of implementation of the schemes.

Para 6.2.1: MoP may ensure accurate data/information regarding potential beneficiaries before launch of a scheme and carry out planning of fund allocation judiciously for efficient implementation of scheme based on detailed field surveys. Preparation of the DPRs may be ensured based on detailed field surveys.

Para 6.3.1.2: MoP may develop a robust mechanism to periodically reconcile the data of household electrification under all the schemes implemented during the same period and fix accountability of the officials responsible for lapses to ensure that works executed under one scheme are not claimed under other similar schemes too.

Para 7.1: Ministry of Power/ REC Ltd. may develop a mechanism to ensure that funds through Extra Budgetary Resource (EBR) are raised strictly as per the assessed requirements after completion of modalities for release of funds.

Para 8.1 and 8.2: MoP may ensure that the control and monitoring mechanism is strengthened at all levels, as well as Quality Assurance framework is followed strictly by the Project Implementing Agencies in the upcoming schemes.

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ANNEXURE-II

ANNEXURE REFERRED IN REPLY TO PARTS (a) TO (d) OF UNSTARRED QUESTION NO. 2710 ANSWERED IN THE RAJYA SABHA ON 16.03.2026

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Steps taken by Ministry of Power under Revamped Distribution Sector Scheme (RDSS) framework

- **Addressing gaps in System Strengthening & Feeder Separation:** Under RDSS, works are sanctioned based on Action Plans and DPRs submitted by States/ UTs after recommendation from State Distribution Reforms Committee (DRC) headed by Chief Secretary of the States. Approval by State Cabinet is also mandated. DPRs focus on loss-reduction infrastructure including feeder separation and distribution system strengthening in a need-based manner.
- **AT&C loss reduction linked with comprehensive reforms:** RDSS adopts a holistic loss-reduction framework combining network strengthening with measures to improve billing/ collection and financial discipline (timely payment of Government dues/ subsidy, avoiding regulatory assets, etc.) to enable sustained reduction in AT&C losses.
- **Feasibility/ realistic estimation to minimize large variations:** RDSS requires detailed planning through Action Plans/ DPRs and technical appraisal prior to sanction to ensure estimates and component-wise works are realistic and aligned to ground requirements.
- **Field survey/ beneficiary validation and consumer indexing:** For household/ consumer-level interventions, beneficiary details/ list is mandatory for release of funds; consumer indexing is being undertaken to improve data accuracy and future planning.
- **Standardization of procedures for timely award/execution:** Comprehensive Standard Bidding Documents (SBDs) have been prepared under RDSS for key work-streams (Loss Reduction works, Smart Metering, SCADA, PMA, Unified Billing System, etc.) to bring uniformity and reduce delays.
- **Strengthening fund release controls and transparency:** Under RDSS, funds are released in phases after annual evaluations as per prescribed guidelines approved by the competent authority/ Monitoring Committee. A **TSA (Treasury Single Account)** mechanism has been introduced wherein funds remain with RBI and are mapped end-to-end for utilization, enabling real-time monitoring and enhanced transparency.
- **Improving utilization monitoring and reducing scheme-wise mismatches:** Defined end-use tracking improves monitoring of scheme-wise utilization.
- **Quality assurance strengthened (DISCOM + third-party):** RDSS incorporates strengthened quality guidelines, structured field inspections at defined stages and third-party quality monitoring through dedicated agencies. **Additional quality safeguards are introduced in the form of** random sampling/ testing of materials from site stores (in addition to manufacturer-stage checks) and testing in NABL-accredited labs to improve reliability and deter dummy material substitution. Field quality inspections by DISCOM officials are also mandatory under the scheme.
- **Governance/ monitoring strengthened:** Inter Ministerial Monitoring Committee meetings under RDSS are held regularly; reviews are also conducted at senior levels to ensure timely decisions and close monitoring.
- **Strengthening scrutiny before sanction/ release:**RDSS is a reform-based result linked scheme and release of funds, except 10% of GBS as advance, under the scheme is contingent upon DISCOMs/ Power Departments qualifying the annual evaluations for a particular financial year and based on the actual physical progress under the scheme. Basic structure for providing financial assistance under the scheme is linked with the reforms, and grant are only released to distribution utilities if they undertake reforms and achieve desired results as per the scheme guidelines. Accordingly, the fund utilisation under the scheme has been in line with the basic reform linked structure of the scheme.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

RAJYA SABHA
UNSTARRED QUESTION NO.2711
ANSWERED ON 16.03.2026

ELECTRIFICATION OF VILLAGES

2711 SHRI C. VE. SHANMUGAM:

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

(a) whether it is a fact that Government has targeted to achieve 100 per cent electrificationof villages and households in the country;

(b) if so, the details thereof and if not, the reasons therefor including the current status ofrural electrification and the measures being taken in this regard;

(c) the initiatives undertaken to promote renewable energy sources like solar and windunder various central schemes; and

(d) further steps taken by Government to electrify all the villages and the households withat least renewable energy?

A N S W E R

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI SHRIPAD NAIK)

(a), (b) & (d): Electricity being a concurrent subject, supply and distribution of electricity to all consumers, is within the purview of the respective State Government/ distribution utility. Government of India has supplemented the efforts of the States earlier through schemes like Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY), Pradhan Mantri Sahaj Bijli Har Ghar Yojana (SAUBHAGYA) and currently under the Revamped Distribution Sector Scheme (RDSS), launched in July 2021, to help them achieve the objective of providing quality and reliable supply of power to all households.

As reported by the States/UTs, all the inhabited un-electrified census villages in the country were electrified by 28thApril, 2018. A total of 18,374 villages were electrified during DDUGJY. Under DDUGJY and thereafter under SAUBHAGYA, as reported by all States/UTs, electrification of all willing households was completed by 31st March, 2019. A total of 2.86 crore households were electrified during SAUBHAGYA period. Both the schemes stand closed as on 31.03.2022.

Under RDSS, grid electrification works for households belonging to Particularly Vulnerable Tribal Groups (PVTG) identified under Pradhan Mantri JanjatiAdivasiNyayaMahaAbhiyan (PM-JANMAN), households belonging to Scheduled Tribes (STs) under DA-JGUA (DhartiAabaJanjatiya Gram UtkarshAbhiyan), households belonging to Scheduled Castes (SC) under Pradhan Mantri AnusuchitJaatiAbhyuday Yojana (PM-AJAY) and households in remote & border areas under Vibrant Village Program (VVP), have been sanctioned, wherever found feasible. Till date, works amounting to Rs. 6,521 Cr. have been sanctioned for grid electrification of 13,65,139 households under RDSS. Further, under New Solar Power Scheme, works have been sanctioned for PVTG and

tribal households for off-grid solar based electrification under PM-JANMAN and DA-JGUA respectively. State/UT-wise details of household electrification works are at **Annexure.**

Since most of the left-out households are in remote, hilly and forest areas, the norms for electrification under RDSS have been relaxed and the ceiling limit for cost of electrification was enhanced. Grid based electrification works have been sanctioned under RDSS wherever found feasible as per the revised norms. Further, regular review meetings are convened with all stakeholders to facilitate smooth execution of works and early achievement of targets.

(c): The Government of India has taken several steps and initiatives to promote and accelerate renewable energy capacity in the country. These, inter-alia, include the following:

i. 100% Inter State Transmission System (ISTS) charges have been waived for inter-state sale of solar and wind power for projects to be commissioned by 30th June 2025 (with waiver tapering off 25% annually till June 2028), for co-located BESS projects commissioned by June 2028, for Hydro PSP projects where construction work awarded by June 2028, for Green Hydrogen Projects commissioned till December 2030 and for offshore wind projects commissioned till December 2032.

ii. Standard Bidding Guidelines for tariff based competitive bidding process for procurement of Power from Grid Connected Solar, Wind, Wind-Solar Hybrid and Firm &Dispatchable RE (FDRE) projects have been issued.

iii. Ministry of New & Renewable Energy (MNRE) has issued Bidding Trajectory for issuance of RE power procurement bids of 50 GW/annum by Renewable Energy Implementing Agencies (REIAs) from FY 2023-24 to FY 2027-28.

iv. Foreign Direct Investment (FDI) has been permitted up to 100 percent under the automatic route.

v. Laying of new transmission lines and creating new sub-station capacity has been supported under the Green Energy Corridor Scheme for evacuation of renewable power.

vi. To augment transmission infrastructure needed for steep RE trajectory, transmission plan has been prepared till 2032.

vii. Scheme for setting up of Solar Parks and Ultra Mega Solar Power projects is being implemented to provide land and transmission to RE developers for installation of RE projects at large scale.

viii. Schemes such as Pradhan Mantri KisanUrjaSurakshaEvamUtthaanMahabhiyan (PM-KUSUM), PM Surya Ghar Muft Bijli Yojana, National Programme on High Efficiency Solar PV Modules, New Solar Power Scheme (for Tribal and PVTG Habitations/Villages) under Pradhan Mantri JanjatiAdivasiNyayaMahaAbhiyan (PM JANMAN) and DhartiAabhaJanjatiya Gram UtkarshAbhiyan (DA JGUA), National Green Hydrogen Mission, Viability Gap Funding (VGF) Scheme for Offshore Wind Energy Projects have been launched.

ix. Government of India, in September 2023, approved a Viability Gap Funding (VGF) scheme for development of Battery Energy Storage Systems (BESS). BESS capacity of 13.22 GWh is under implementation with a budgetary allocation of Rs. 3,760 Cr. under this scheme. Considering the increasing demand of BESS, Ministry of Power, in June 2025, has approved

another VGF scheme for development of 30 GWh BESS capacity with a financial support of Rs. 5,400 Cr from Power System Development Fund (PSDF).

x. To boost RE consumption, Renewable Purchase Obligation (RPO) followed by Renewable Consumption Obligation (RCO) trajectory has been notified till 2029-30. The RCO which is applicable to all designated consumers under the Energy Conservation Act 2001 will attract penalties on non-compliance. RCO also includes specified quantum of consumption from Decentralized Renewable Energy sources.

xi. "Strategy for Establishments of Offshore Wind Energy Projects" has been issued.

xii. To achieve the objective of increased domestic production of Solar PV Modules, the Govt. of India is implementing the Production Linked Incentive (PLI) scheme for High Efficiency Solar PV Modules.

xiii. 12,723.5 MW of Hydro Electric Projects are under construction. Further, 4,274 MW of Hydro Electric Projects are under various stages of planning and targeted to be completed by 2031-32.

xiv. Ministry of Power has initiated the steps to promote Pumped Storage Projects (PSPs) to support renewable energy integration and grid stability. At present, 10 Pumped Storage Projects totaling 11,870 MW are under construction in the country.

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ANNEXURE

ANNEXURE REFERRED IN REPLY TO PARTS (a), (b)& (d) OF UNSTARRED QUESTION NO. 2711 ANSWERED IN THE RAJYA SABHA ON 16.03.2026

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Household electrification status under RDSS

S. No.	State	Sanctioned Outlay (Rs. Crore)	Sanctioned GBS (Rs. Crore)	Households Sanctioned	Households Electrified
A.	**Additional. Households**				
1	Andhra Pradesh	49.24	29.55	15,475	15,319
2	Arunachal Pradesh	47.11	42.40	6,506	0
3	Assam	785.55	706.99	1,27,111	16,748
4	Bihar	238.86	143.32	35,467	0
5	Chhattisgarh	166.55	99.93	34,078	9,084
6	Jammu & Kashmir	106.70	96.03	15,359	0
7	Jharkhand	25.16	15.09	4,853	804
8	Kerala	0.33	0.20	40	11
9	Madhya Pradesh	1.13	0.68	196	21
10	Manipur	214.44	193.00	36,972	0
11	Meghalaya	435.70	392.13	50,501	0
12	Mizoram	79.90	71.91	15,167	0
13	Nagaland	69.55	62.59	10,004	0
14	Rajasthan	1,526.94	916.16	3,38,702	91,534
15	Uttar Pradesh	931.04	558.62	2,51,487	1,317
	Total (A)	**4,678.19**	**3,328.60**	**9,41,918**	**134,838**
B.	**Vibrant Village Program**				
1	Himachal Pradesh	6.08	5.47	0	0
2	Arunachal Pradesh	20.18	18.16	1,683	0
3	Uttarakhand	13.08	11.77	1,154	0
	Total (B)	**39.34**	**35.41**	**2,837**	**0**
C	**PM-JANMAN**				
C1	**Under RDSS**				
1	Andhra Pradesh	88.71	53.23	24,967	24,925
2	Chhattisgarh	38.16	22.90	7,077	7,160
3	Jharkhand	74.13	44.48	12,442	11,504
4	Karnataka	3.76	2.26	1,615	1,546
5	Kerala	0.86	0.52	345	314

6	Madhya Pradesh	148.83	89.28	30,216	27,202
7	Maharashtra	26.61	15.97	8,556	9,216
8	Rajasthan	40.34	24.20	17,633	16,023
9	Tamil Nadu	29.89	17.93	8,603	7,053
10	Telangana	6.79	4.07	3,884	3,884
11	Tripura	61.52	55.37	11,664	11,692
12	Uttar Pradesh	1.10	0.66	316	195
13	Uttarakhand	0.60	0.54	669	669
	Sub Total (C1)	**521.59**	**331.57**	**1,27,987**	**1,21,383**
C2	**Under State Plan**				
1	Gujarat	0	0	0	6,626
2	Odisha	0	0	0	5,203
3	West Bengal	0	0	0	3,372
	Sub Total (C2)	**0**	**0**	**0**	**15,201**
C3	**Public Places under RDSS**				
1	Madhya Pradesh	0	0	25	20
	Sub Total (C3)	0	0	25	20
	Total (C=C1+C2+C3)	**521.74**	**331.66**	**1,28,012**	**1,36,604**
D.	**DA-JGUA**				
D1	**Under RDSS**				
1	Andhra Pradesh	19.12	11.47	4,921	4,527
2	Arunachal Pradesh	8.20	7.38	1,938	1,579
3	Bihar	61.40	36.84	7,117	752
4	Chhattisgarh	218.44	131.06	39,579	15,456
5	Himachal Pradesh	0.49	0.45	93	10
6	Jammu & Kashmir	89.84	80.85	13,824	0
7	Jharkhand	92.44	55.47	19,467	0
8	Karnataka	41.00	24.60	5,288	1,429
9	Kerala	5.73	3.44	1,080	248
10	Madhya Pradesh	305.66	183.40	59,172	15,981
11	Maharashtra	23.60	14.16	6,961	5,228
12	Rajasthan	197.11	118.26	82,842	492
13	Telangana	110.73	66.44	26,525	17,465
14	Tripura	40.69	36.62	7,677	6,678
15	Uttar Pradesh	32.21	19.32	6,867	65
16	Uttarakhand	0.84	0.75	207	157
	Sub Total (D1)	**1,247.50**	**790.52**	**2,83,558**	**70,067**
D2	**Under State Plan**				
1	Odisha	0	0	0	0
	Sub Total (D2)	0	0	0	0

D3	**Public Places under RDSS**				
1	Andhra Pradesh	0.70	0.42	182	129
2	Arunachal Pradesh	0.04	0.03	9	9
3	Himachal Pradesh	0.05	0.05	7	3
4	Jharkhand	8.25	4.95	1,910	0
5	Kerala	0.15	0.09	17	0
6	Madhya Pradesh	3.32	1.99	650	100
7	Rajasthan	0.70	0.42	195	0
8	Telangana	2.90	1.74	672	0
9	Tripura	2.31	2.08	512	0
10	Uttar Pradesh	0.13	0.08	30	7
11	Uttarakhand	0.08	0.07	19	3
	Sub Total (D3)	**18.63**	**11.92**	**4,203**	**251**
D4	**Public Places under State Plan**				
1	Odisha	0	0	0	0
	Sub Total (D4)	0	0	0	0
	Total (D=D1+D2+D3+D4)	**1,266.13**	**802.44**	**2,87,761**	**70,318**
E.	**PM-AJAY**				
1	Andhra Pradesh	3.50	2.10	811	437
2	Jharkhand	6.141	3.684	1,782	0
3	Madhya Pradesh	0.002	0.001	6	3
4	Maharashtra	6.810	4.086	2,012	361
	Total (E)	**16.45**	**9.87**	**4,611**	**801**
	Grand Total (A+B+C+D+E)	**6,521.85**	**4,507.98**	**13,65,139**	**3,42,561**

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GOVERNMENT OF INDIA
MINISTRY OF POWER

RAJYA SABHA
UNSTARRED QUESTION NO.2712
ANSWERED ON 16.03.2026

LIABILITIES OF STATE DISTRIBUTION COMPANIES

2712 SHRI ASHOK SINGH:

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

(a) whether the accumulated liabilities of State distribution companies have increaseddespite successive financial restructuring packages;

(b) whether Government has undertaken an independent assessment of the actual subsidygap between cost of supply and revenue realised, including delayed State subsidy payments;

(c) whether smart metering rollouts are linked to measurable reduction in AT&C losses andwhether penalty clauses exist for non-achievement of targets; and

(d) whether a uniform national performance benchmark framework for DISCOMs withmandatory public disclosure of feeder-level data is under active consideration?

A N S W E R

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI SHRIPAD NAIK)

(a) & (b): Electricity is a concurrent subject and power distribution comes under the purview of respective Electricity Regulatory Commission (ERC) and the State Government.

The Annual Integrated Rating and Ranking report on Power Distribution Utilities, published by Power Finance Corporation (PFC), brings out the annual status on key financial and operational parameters including outstanding borrowing of the utilities and the gaps in subsidy receipts from the State Government.

As per the above report on Power Distribution Utilities, total outstanding borrowings and subsidy details at national level for the last two years are as below:

(inRscrore)

	FY 2023-24	FY 2024-25
Outstanding Borrowing	7,58,996	7,26,378
Tariff Subsidy billed	2,10,710	2,40,992
Tariff Subsidy received	2,05,346	2,38,332

…….2.

Government of India has been supporting the distribution utilities to improve their financial viability through various initiatives. Some of the key initiatives taken are as under:

i) Revamped Distribution Sector Scheme (RDSS) has been launched in the year 2021 with the objective of improving the quality and reliability of power through a financially sustainable and operationally efficient distribution sector. The release of funds under the scheme is linked to States/ distribution utilities taking necessary measures to improve their performance.

ii) Additional borrowing space of 0.5% of GSDP to State Governments, which is conditional on them undertaking specific reforms in the power sector.

iii) Additional Prudential Norms for sanctioning of loans to State owned power utilities are contingent to the performance of power distribution utilities against prescribed conditions.

iv) Rules for implementation of Fuel and Power Purchase Costs Adjustment (FPPCA) and cost reflective tariff so as to ensure that all prudent cost for supply of electricity are passed through.

v) Rules and Standard Operating Procedure issued for proper subsidy accounting and their timely payment.

With concerted efforts of Central and State Governments, the Aggregate Technical and Commercial (AT&C) losses at national level have reduced from 21.87% in FY21 to 15.04% in FY25. Also, the national Average Cost of Supply - Average Revenue Realized (ACS-ARR) gap has reduced from Rs. 0.63/kWh to Rs. 0.06/kWh.

(c): Installation of smart meters is a key intervention under the ongoing Revamped Distribution Sector Scheme (RDSS) envisaged to provide benefits to both consumers and distribution utilities. In addition, States have installed smart meters under various other schemes including State schemes. As on 11.03.2026, 5.97 crore smart meters have been installed in the country under various schemes.
Smart metering helps DISCOMs improve their Aggregate Technical and Commercial (AT&C) loss because of accurate energy accounting and auditing and through prepaid billing.

In states like Bihar and Assam, where substantial number of prepaid smart meters have been installed, the impact may be seen as below:

Aggregate Technical and Commercial (AT&C) Losses:

State	Percentage of consumers with smart meters	FY20	FY24
Assam	78	23.39%	15.44%
Bihar	85	39.95%	15.51%

As can be seen from above tables, both the States have shown substantial improvement both in terms of operational and financial parameters.

Further, release of funds under RDSS is contingent to performance of utilities on key operational and financial parameters including reduction in AT&C loss.

(d): The operational and financial parameters of distribution utilities like AT&C Losses, Profit after Tax (PAT), Gap between Average Cost of Supply and Average Revenue Realised (ACS-ARR Gap), etc. are calculated annually at the level of distribution utility based on their audited annual financial accounts.

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GOVERNMENT OF INDIA
MINISTRY OF POWER

RAJYA SABHA
UNSTARRED QUESTION NO.2713
ANSWERED ON 16.03.2026

STRENGTHENING OF POWER INFRASTRUCTURE IN J AND K

2713 SHRI SAT PAUL SHARMA:

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

(a) whether Government has identified the reasons for frequent power cuts in the Jammuand Kashmir region during the winter months;

(b) the steps taken by Government to mitigate the power cuts; and

(c) the measures taken by Government to strengthen power infrastructure and ensureuninterrupted electricity supply in the region?

A N S W E R

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI SHRIPAD NAIK)

(a): Electricity being a concurrent subject, supply and distribution of electricity to consumers is within the purview of the respective State Government/ distribution utility. As reported by UT of J&K, power cuts are primarily driven by system constraints at the transmission and distribution levels, alongside unrestricted energy consumption in unmetered areas.

(b) & (c): Government of India (GoI) has supplemented the efforts of the States/UT including Jammu and Kashmir through schemes like Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY), Integrated Power Development Scheme (IPDS) and Pradhan Mantri Sahaj Bijli Har Ghar Yojana (SAUBHAGYA), to help them achieve the objective of providing quality and reliable power supply. These schemes stand closed as on 31.03.2022. Under these schemes, projects worth Rs. 2,909 crore were executed for strengthening of power distribution infrastructure in the UT of J&K. Further, the Government of India, in November 2016, had approved Prime Minister Development Package (PMDP) for augmentation of infrastructure for distribution systems including capital cities, tourist destinations along with Advance Technology interventions for erstwhile state of J&K (including Ladakh). Under PMDP, projects worth Rs. 2780 Cr have been executed. Under the above schemes and project, the major executed works include creation and augmentation of substations, Distribution Transformers, High Tension (HT) Lines, Low Tension (LT) Lines, feeder separation etc.

……2.

Further, the Government of India, in July 2021, launched the Revamped Distribution Sector Scheme (RDSS) with the objective of improving the quality and reliability of power supply to consumers through a financially sustainable and operationally efficient Distribution Sector in the country.

Under RDSS, Projects worth Rs. 5,034 crores for loss reduction works and Rs. 1,064 crores for smart metering works have been sanctioned for the UT of J&K. The sanctioned works include execution of new and upgradation of existing substations and Distribution Transformers (DTs), HT & LT lines, agricultural feeder segregation, household electrification, etc.

Ministry of Power also allocates additional power from the Central Generating Stations (CGSs) during winter months every year with a view to facilitate electric supply in J&K. In the winter of current FY 2025-26, Ministry of Power had allocated the following additional power from the CGSs:

(i) 120 MW unallocated power from Patratu Thermal Power Plant (Unit#1) as specific allocation from 05.11.2025 (Commercial Operation Date) to 28.02.2026.

(ii) 292.99 MW power from NTPC Kahalgaon Super Thermal Power Station (Stage-I) from 01.10.2025 to 28.02.2026.

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