

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 INCLUDING JHARKHAND**

2700 # SHRI DEEPAK PRAKASH:
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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 promote domestic manufacturing under the Atmanirbhar Bharat initiative;
- (b) the manner in which the Electricity (Rights of Consumers) Rules have impacted the timelines for obtaining new electricity connections in metropolitan and rural areas;
- (c) whether the mandatory 50 per cent domestic content requirement for public procurement 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**.

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

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

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

The details of 215 identified power sector items:

Item Sl. No.	Sl. No.	Electrical Equipment for Generation, Transmission and Distribution sectors with sufficient 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 Insulated 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 Optic Terminal 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 with Room 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 Auxilleries	
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 reclaimers	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	Scraper 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
		Circulating 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
