भारत सरकार/Government of India

विद्युत मंत्रालय/Ministry of Power

केन्द्रीय विद्युत प्राधिकरण/Central Electricity Authority

विद्युत प्रणाली अभियांत्रिकी एवं प्रौद्योगिकी विकास प्रभाग

Power System Engineering & Technology Development Division

Date: **28.10.2026**

To

<All Interested and Established Manufacturers>

विषयः Furnishing of Details on Development, Manufacturing Capacity and Readiness for Various Transmission Technological Innovations – reg.

You are kindly aware that in its endeavour to address Right of Way (RoW) related issues for transmission infrastructure, the Central Government has been actively encouraging adoption of new technological innovations, such as Pole Structures, Multi-Circuits, and Insulated Cross Arms at 400 kV and 765 kV voltage levels. Further, to ensure their large scale adoption, a proposal to stipulate their usage in suitable corridors for upcoming ISTS Projects is under active consideration.

In this regard, to ascertain the readiness from the Industry for supporting various technological innovations, it is proposed to seek relevant details such as development status, manufacturing capacity, commercial readiness and indicative costs of the aforesaid technological innovations, etc. from all interested & established manufacturers in the prescribed format provided at **Annexure**.

Accordingly, all interested and established Manufacturers are requested to kindly furnish the sought details, complete in all respects, to Chief Engineer (PSE&TD Division), CEA at ce-psetd@gov.in positively by **05.11.2026**.

Digitally signed by
N.R.L.K. Prasad
Date: 28-10-2026
17:35:15

(एन.आर.एल.के. प्रसाद/N.R.L.K. Prasad)

मुख्य अभियन्ता/Chief Engineer

Copy to:

IT Division, CEA (with request to publish on CEA Website)

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Annexure

1. **Name & Address of the Company**

2. **Contact Details (Name, Designation, Contact No & E-Mail ID) of the Company's Representatives**

3. **Details of Development Status of Various Technological Innovations:**

SN	Type of Technological Innovation	Design Validation Completion status	Type Testing Completion Status	Reference Technical Standards used for Design Validation	Reference Technical Standards used for Type Testing completion	Tentative Timeline for Commercial Readiness of the Technological Innovation	Constraints, if any, w.r.t. overall development, and the measures proposed to overcome the same with indicative timelines
1	400 kV Double Circuit Pole Structures with Quad Conductor						
2	400 kV Multi Circuit (Four Circuit Configuration) Pole Structures.						
3	400 kV Insulated Cross Arm						
4	765 kV Double Circuit Pole Structures						
5	765 kV Multi Circuit (Four Circuit Configuration) Pole Structures						
6	765 kV Multi Circuit (Four Circuit Configuration) Tower Structures						
7	765 kV Insulated Cross Arm						

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4. Details of Manufacturing Capacities of Various Technological Innovations

SN	Type of Technological Innovation	Expected annual & monthly manufacturing capacity (in number of structures)	Expected annual & monthly manufacturing capacity (in metric tonne)	Availability of requisite raw materials (including different grades of steel)	Sources of procurement of Raw materials	Constraints anticipated, if any, in the procurement of Raw materials, along with measures proposed to overcome the same
1	400 kV Double Circuit Pole Structures with Quad Conductor					
2	400 kV Multi Circuit (Four Circuit Configuration) Pole Structures.					
3	400 kV Insulated Cross Arm					
4	765 kV Double Circuit Pole Structures					
5	765 kV Multi Circuit (Four Circuit Configuration) Pole Structures					
6	765 kV Multi Circuit (Four Circuit Configuration) Tower Structures					
7	765 kV Insulated Cross Arm					

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5. Tentative/ Indicative cost details for the following:

SN	Type of Technological Innovation	Type-A Structure	Type-A Structure with Typical Extension	Type-B Structure	Type-B Structure with Typical Extension	Type-C Structure	Type-C Structure with Typical Extension	Type-D Structure	Type-D Structure with Typical Extension
1	400 kV D/C Pole Structures with Twin Moose Conductor								
2	400 kV D/C Pole Structures with Quad Moose Conductor								
3	400 kV Multi-Circuit (4-circuit) Pole Structures								
4	400 kV Insulated Cross Arm								
5	765 kV S/C Pole Structures								
6	765 kV D/C Pole Structures								
7	765 kV Multi-circuit (4-circuit) Pole Structures								
8	765 kV Multi-circuit (4-circuit) Tower Structures								
9	765 kV Insulated Cross Arm								

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6. Details of Development Status of Lattice Towers at Different Voltage levels duly considering Importance Factor, k4, of 1.3 for use in Coastal Stretches"

SN	Voltage level	Wind Zone considered	Design Validation Completion status	Type Testing Completion Status	Reference Technical Standards used for Design Validation	Reference Technical Standards used for Type Testing completion	Tentative Timeline for Commercial Readiness of the Tower	Constraints, if any, w.r.t. overall development, and the measures proposed to overcome the same with indicative timelines
1	66 kV							
2	132 kV/ 110 kV							
3	220 kV/ 230 kV							
4	400 kV							
5	765 kV							

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