

SECTION – V

CHECK LIST FOR 765KVCURRENT TRANSFORMER

SNo.	Parameters	Data	YES/NO	Remarks
1.	Manufacturer's type designation	Bidder to furnish in Remarks.		
2.	Type of CT			
	a) Insulation (As per clause 2.3 of section-II)	i. SF6	YES/NO	
		ii. Oil	YES/NO	
	b) Installation	Outdoor	YES	
	c) Mounting	Upright mounting on steel structure	YES	
	d) Tank design	i. Live tank	YES/NO	
		ii. Dead tank	YES/NO	
3.	Standards Applicable	Latest version of IEC-61869-1 & 61869-2 or IS-2705 Part 1 to 4	YES	
4.	Rated Voltage (kV rms)	765KV	YES	
5.	Rated Primary Current	3000A with 120% Extended current	YES	
6.	Rated short time thermal withstand current	40KA for 1 Sec	YES	
7.	Rated dynamic current	100kAp /125kAp as applicable	YES	
8.	Max. Temperature rise over design ambient temperature	As per IEC	YES	
9.	Full wave impulse withstand voltage (1.2/50microsecond) between line terminals and ground (kV Peak)	± 2100	YES	
10.	Switching impulse withstand voltage (250/2500microsecond)(dry and wet) between line terminals and ground (kV Peak)	± 1550	YES	
11.	One minute power frequency dry withstand voltage (dry and wet) between line terminals and ground (kV Peak)	975 (dry only)	YES	
12.	One minute power frequency withstand voltage between secondary terminals and earth (kV rms)	5kV	YES	

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13.	Max. radio interference voltage for frequency between 0.5MHz and 2MHz at (Micro volts)	2500 at 508kVrms	YES	
14.	Minimum Corona extinction voltage (kVrms)	508	YES	
15.	Seismic acceleration (Horizontal)	0.3g	YES	
16.	Minimum Creepage distance (mm)	20000	YES	
17.	System neutral earthing	Effectively earthed	YES	
18.	CT Core details	complies to requirement under Table -IIA of TS Section-2	YES	
19.	CT Insulator	Polymer insulator	YES	
20.	CT shall have cantilever strength not less than-	500kG	YES	
21.	Offered CT has been provided with oil filling and drain plugs, Oil sight glass		YES	
22.	If SF6 gas filled CT is offered	Suitable SF6 gas density monitoring device with NO/NC contacts to facilitate remote annunciation and tripping in case of SF6 gas leakage.	YES	
		Provision for online gas filling	YES	
		Suitable rupture disc to prevent explosion provided.	YES	
		SF6 gas shall comply with IEC-60376, 60376A, 60376B & IEC-60480	YES	
23.	If Oil filled CT is offered	Insulating oil shall be of EHV grade and conforms to IS-335, IEC-60296 (required for First filling) .		
24.	Secondary terminal box	As per Section -III	YES	

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25.	In case of inverted (Live tank) type	Bellows made of stainless steel shall be used at the top for hermetic sealing of CT.	YES	
26.	Offered CTs shall be with necessary mounting hardwares for mounting on steel structures.		YES	
27.	Terminal connectors are not in scope of bidder		YES	
28.	Test requirement	As per clause 6.0 & 9.0 of Section-II and clause 8.0,9.0,10.0 of Section –III	YES	
29.	Compliance to Defect liability requirement	As per Clause 10.0 of Section –II	YES	
30.	Pre-/post commissioning procedures and formats to be followed	As per Doc CF/CT/04/R-4 dtd 01-04-2013 under Powergrid document No D-2-01-03-01-04	YES	
31.	Supervision of erection , testing & Commissioning of CT	As per clause 2.0, iv of Section –I	YES	
32.	Bidder shall supply 2No. Oil sampling device for each substation namely Solapur S/s, Aurangabad S/s, Wardha S/s. Price for same is included in quoted in price of main item of each substation.		YES	
33.	Documentary proof against technical qualifying requirement under Annexure-A of Section –I	Attached along with offer.	YES	
34.	Bidder to confirm if Powergrid approved drawings,MQP/ Previous Powergrid approval for the offered CTs are available for approval extension.	If Yes , bidder shall submit the powergrid approval letters along with offer .	YES	