Tata Power Northern Odisha Distribution Limited, Balasore
Pre-Bid Query Response NIT-027, 11, 33kV CT/PT

Item	Requirement as per Tender	Amendment Proposed	Justification	TPNODL Remarks
12kV CT 800-400-200/1-1-1A	Given in TS: Vk>=250 V (At 200/1A) and Vk>=500V (At 400/1A)	Vk is not given for 800/1 A, So Vk shall be: Vk>=1000/500/250 V	As you have not given Vk for 800 /1 ratio, we have assumed 1000V. Kindly confirm the same.	YES. Vk>=1000V (At 400/1A)
	Given in TS: Rct=5 Ohm	But it is not mentioned that 5 Ohm is for which ratio. So Rct shall be : Rct@75◦C <= 20/10/5 Ohms **(if Rct 5 Ohm is considered @ 200/1 A)**	As you have not given Rct of all ratios, we have assumed 20/10/5 ohms. Kindly confirm the same.	Yes it is in proportion with **Rct 5 Ohm is considered @ 200/1 A**)- RCT 5 OHM= 200/1 RCT 10OHM=400/1 RCT 20 OHM= 800/1
	Given in TS: Maximum excitation current (Ie) @ Vk/2 shall not be less than 30mA.	But as per IS , maximum excitation current shall be " less than or equal to " the specified value. So maximum excitation current shall be: Ie@Vk/2<= 30mA (At 200/1, 400/1A, 800/1A)	We have assumed Rct<= 5 ohms at 200/1A ratio and accordingly maximum excitation current assumed is Ie@Vk/2<=30 mA at 200/1A,400/1A,800/1A. Kindly confirm the same.	Maximum excitation current (Ie) @ Vk/2 shall not be **greater** than 30mA.
33 CT 400-200-100/1-1-1A	**Given in TS:** Vk>=250 V (At 200/1A) and Vk>=500V (At 400/1A)	Vk shall be Vk>=500/250/125 V	We have assumed Vk>=125V at 100/1 A ratio. Kindly confirm the same.	Vk>=125 V (At 100/1A) Vk>=250 V (At 200/1A) and Vk>=500V (At 400/1A)
	Given in TS: Rct=5 Ohm	Rct shall be : Rct@75◦C <= 10/5/2.5 Ohms **(if Rct 5 Ohm is considered @ 200/1 A)**	We have assumed Rct<=5 ohms at 200/1A ratio, so Rct at others taps shall be assumed as 10/5/2.5 ohms. Kindly confirm the same.	RCT=2.5 Ohm, 100/1 A RCT=5 Ohm, 200/1 A RCT=10 Ohm, 400/1 A

	Given in TS: Maximum excitation current (Ie) @ Vk/2 shall not be less than 30mA.	Maximum excitation current, Ie@Vk/2<= 30mA (At 100/1, 200/1A,4800/1A)	We have assumed maximum excitation current Ie@Vk/2<=30mA at 100/1A,200/1A,400/1A Kindly confirm the same.	Maximum excitation current (Ie) @ Vk/2 shall not be **greater** than 30mA.
12kV CT 600-300-150/1-1-1A	Specification of Core details is not given in the TS.	Kindly provide the core details of CT 600-300-150/1-1-1A	You have not given core details in TS, so kindly provide the same.*****	
	TECHNICAL SPECIFICATION, CLAUSE No 4(i). & 5 (f), PAGE NO. 4 OF 19	4.0 i) System fault level - 26.3 KA for 3 sec. 5.0 (f) Rated Short time withstand current - 25KA RMS for 3 sec	Please confirm the short circuit level of CT, we are assuming Short circuit level at 25 KA for 3 sec	**As per Tender Specifications,** Short circuit level at 25 KA for 3 sec

*Core details of CT 600-300-150/1-1-1A	Metering	PROTN	PS
Current ratio	(As per BPS)		
Accuracy class	0.2(33)0.5(11)	5P20	PS
Burden (VA)	30	30	
Instrument security Factor	≤5	-	
Accuracy Limit Factor	-	≥20	
Knee point voltage			VK≥750V at 600/1A & >=325V at 300/1 & >= 187.5V to 150/1Maximum exciting current at Vk/2 shall not be greater than 30mA. Rct=15/7.5/3.75 for 600-300-150/1-1-1A