

Amendment no. 05 issued dated 19.09.2025 for Intra-State Transmission Scheme for “Execution of System Strengthening/Upgradation Works and Intra-State Transmission System projects by Creation/Augmentation of Grid Stations and Laying of Transmission Lines”

Sl. No.	Clause No.	Existing Clause					New/Revised Clause						
1.	Clause No. B.2.1.3 of RfP	Clause No. B.2.1.3 of Annexure-C of RFP					Clause No. B.2.1.3 of Annexure-C of RFP						
		Sr. No.	Description	Unit	Parameters			Sr. No.	Description	Unit	Parameters		
					105 MVA, 220/132/11 kV, 1-phase Auto Transformer	53.33 MVA, 220/33kV, 1-phase Power Transformer	53.33 MVA, 220/66/11 kV, 1-Phase Power Transformer				105 MVA, 220/132/11 kV, 1-phase Auto Transformer	53.33 MVA, 220/33/33 kV, 1-phase Power Transformer	53.33 MVA, 220/66/11 kV, 1-Phase Power Transformer
		1.	Voltage ratio (Phase Voltage)	kV	220/√3/132/√3	220/√3/33/√3/	220/√3/66/√3/11	1.	Voltage ratio (Phase Voltage)	kV	220/√3/132/√3	220/√3/33/√3/33/√3	220/√3/66/√3/11
		2.	Rated Capacity:					2.	Rated Capacity:				
		b)	IV	MVA	105	-	-	b)	IV	MVA	105	-	53.33
		c)	LV (Tertiary)	MVA	3.5	53.33	53.33	c)	LV (Tertiary)	MVA	3.5	53.33 (LV1+LV2)	2
		4.	Vector Group (3 –ph)		YNa0d11	YNyn0d11	YNyn0d11	4.	Vector Group (3 –ph)		YNa0d11	YNyn0yn0	YNyn0d11
		5.	Type of Transformer		Auto	Auto	Auto	5.	Type of Transformer		Auto	Power	Power

Sl. No.	Clause No.	Existing Clause						New/Revised Clause					
		11.	Impedance at 75 Deg C and at highest MVA base					11.	Impedance at 75 Deg C and at highest MVA base				
		a)	Maximum voltage tap	%	14	13.2	13.2	a)	Maximum voltage tap	%	9.50	15.0	15.20
		b)	Principal tap	%	12.5	12.5	12.5	b)	Principal tap	%	12.5	15.0	15.0
		c)	Minimum voltage tap	%	8.5	11.8	11.8	c)	Minimum voltage tap	%	14	15.0	14.50
		17.	Winding hot spot rise over yearly weighted temperature of 32 deg C	deg C	98	98	98		LV1-LV2	%		25 (Min)	
									HV-IV	%	35 (Min)		29 (Min)
									IV-LV	%	23 (Min)		12 (Min)
		20.	Windings					17.	Winding hot spot rise over yearly weighted temperature of 32 deg C	deg C	66	66	66
		b)	Lightning Impulse Withstand Voltage										
		iii)	LV	kVp	250	170	75	20.	Windings				

Sl. No.	Clause No.	Existing Clause						New/Revised Clause					
		d)	One Minute Power Frequency Withstand					b)	Lightning Impulse Withstand Voltage				
		iii)	LV	kVrms	95	70	28	iii)	LV	kVp	170	170	75
		22.	Bushing					d)	One Minute Power Frequency Withstand				
		b)	Rated Current					iii)	LV	kVrms	70	70	70
		iii)	LV	A	1250	4500	4500	22.	Bushing				
		24	Maximum Permissible Losses of Transformers					b)	Rated Current				
		a)	Max. No Load Loss at rated voltage and frequency	kW	65	26 (Max)	26 (Max)	iii)	LV	A	1250	2000	2000
		c)	Max I ² R loss at rated current and frequency and at 75°C	kW	145	107 (Max)	107 (Max)	24	Maximum Permissible Losses of Transformers		-	-	-
								a)	Max. No Load Loss at rated voltage and frequency	kW	25 (Max)	35 (Max)	30 (Max)

Sl. No.	Clause No.	Existing Clause	New/Revised Clause					
			c)	Max I ² R loss at rated current and frequency and at 75°C	kW	145	80 (Max)	80 (Max)