



			GUARANTEED	TECHNICAL PAR	RTICULARS					
		Тŀ	IREE PHASE DI	STRIBUTION TR/	ANSFORMER					
Work order No : Customer: Re-Tech Oy, Finland . 08861D										
kVA : 500		kV :20.5/0.41	Phase : 3	Freq. : 50Hz	Cooling : ONAN					
SI. No.	Descrip	otion		UNIT	500 kVA					
1)	Make				Toshiba Transmission & Distribution Systems (India) Pvt. Ltd					
2)	Туре				Hermitically Sealed					
3)	Phases			No.	Three					
4)	Rating			kVA	500 kVA					
5)a)	Rated Voltage:									
0/a/	HV			V	20500					
	LV			V	410					
b)	Highest voltage for equipment									
	HV			kV	24					
	LV			kV	1					
c)	HV Tapping Range				+5% to -5% insteps of 2.5%					
6)	Frequency			Hz	50					
7)	Vector Group				Dyn11					
8)	Insulation Level									
	HV			kV peak	125					
	LV			kV peak	Not Applicable					
9)		Frequency Level								
	HV			kV rms	50					
	LV			kV rms	3					
10)	Winding material				Aluminium					
11)	Core M				CRGO					
12)	Temperature Rise:			° 0						
	Oil			C	60					
	Winding			°C	65					
13)	Losses									
	No Load Losses at rated Voltage and			Watt	459 (MAX)-Tier-2					
	Frequency									
	Load Losses at 75 °C			Watt	3900 (MAX)-Tier-2					
14)	Impedance Voltage			%	4% (+/- IEC Tolerance Applicable)					
15)	Percentage Resistance			%	0.78					
16)	Regulation at:									
	Full Load UPF			%	0.86					
	Full Load 0.8 PF			%	3.01					
17)	17) Efficiency at 0.8 PF:									

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Toshiba Transm			sion & Distribution Systems (India) Pvt.Ltd.		Engineering		
105	SHIBA	Distrit	oution Transformers Division		Unit-10		
	Full Load	·	%	98.92			
	¾ Full Load		%	99.12	99.12		
	½ Full Load		%	99.29			
18)	Terminal Arrangement:						
	HV			Bare Bushings − Plug−in −24kV/250A			
	LV			Bare Bushings - Porcelain-1kV/1250A			
19)	Actual Overall Dimensions:						
	Length		mm	1365			
	Width		mm	955			
	Height		mm	1340 (without rollers)*			
20)	Overall Weight						
	Total Weight		Kg.	2440			
21)	Noise Level		LwAdB (A)	51			
	Applicability of Optional Fittings For above mentioned Actual Overall Dimensions						
22)	Provision for	Rollers		Yes			
23)	Pole Mountin	g consoles		No			
24)	HV bushing fl	ags/connector/lug		No			
25)	LV bushing fla	ags/ connector/lug		No			
26)	HV Tapping/	Tap Switch		Yes			

Note:

- 1. Actual overall dimensions and weights are subjected to +/-10% Tolerance.
- All the efficiencies and regulations are calculated at the nominal values of NLL, LL @ 75DegC and %Z @75 DegC.
- 3. * With Rollers transformer height will increase by 100mm.
- 4. Paint: Class C4 corrosion protection paint will be provided.