



	GUARANTEED TECHNICAL PARTICULARS									
		TH	IREE PHASE DIS	TRIBUTION TRA	NSFORMER					
Work orde 0886		Customer: Re-Tech	Oy, Finland.							
kVA : 315		kV :20.5/0.41	Phase : 3	Freq. : 50Hz	Cooling : ONAN					
SI. No.	Descrip	otion		UNIT	315 kVA					
1)	Make				Toshiba Transmission & Distribution Systems (India) Pvt. Ltd					
2)	Туре				Hermitically Sealed					
3)	Phases			No.	Three					
4)	Rating			kVA	315 kVA					
5)a)	Rated Voltage:									
	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) 7)	Frequency			Hz	50 Dyn11					
8)	Vector Group Insulation Level			Dynti						
0)	HV			kV peak	125					
	LV			kV peak	Not Applicable					
9)	Power Frequency Level									
	HV			kV rms	50					
	LV			kV rms	3					
10)	Winding material				Aluminum					
11)	Core Material			CRGO						
12)	Temperature Rise:									
	Oil			°C	60					
	Winding		°C	65						
13)	Losses									
	No Load Losses at rated Voltage and Frequency			Watt	324 (MAX)-Tier-2					
	Load Losses at 75 °C		Watt	2800 (MAX)-Tier-2						
14)	Impedance Voltage			%	4% (+/- IEC Tolerance Applicable)					
15)	Percentage Resistance			%	0.89					
16)	Regulation at:									
	Full Load UPF			%	0.96					
	Full Load 0.8 PF			%	3.08					
17)	7) Efficiency at 0.8 PF:									

"ALL INFORMATION CONTAINED IN THIS DOCUMENT IS CONFIDENTIAL AND THE PROPERTY OF TOSHIBA TRANSMISSION & DISTRIBUTION SYSTEMS (INDIA) PVT. LTD., REPRODUCTION OF THIS IN ANY FORM IS TO BE DONE WITH THE SPECIFIC PERMISSION OF THE ORGANIZATION"

		Toshiba Transmission & Distribution Systems (India) Pvt.Ltd. Distribution Transformers Division			Engineering		
TO	SHIBA				Unit-10		
	Full Load		%	98.78	1		
	¾ Full Load		%	99.01			
	½ Full Load		%	99.19			
18)	Terminal Arrangement:						
	HV			Bare Bushings - Plug-in-24kV/250A			
	LV			Bare Bushings - Porcelain-1kV/630A			
19)	Actual Overall Dimensions:						
	Length		mm	1135			
	Width		mm	890			
	Height		mm	1325(without rollers)*			
20)	Overall Weight						
	Total Weight		Kg.	1600			
21)	Noise Level		LwAdB(A)	49			
	Applicability of Optional Fittings For above mentioned Actual Overall Dimensions						
22)	Provision for	Rollers		Yes			
23)	Pole Mounting	g consoles		No			
24)	HV flags/con	nector/lug		No			
25)	LV flags/conr	nector/lug		No			
26)	HV Tapping/1	ap 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 AT 75 Deg C and % Z at 75 Deg C.
- 3. * With Rollers transformer height will increase by 100mm.
- 4. Paint: Class C4 corrosion protection paint will be provided.