



			GUARANTEED T	ECHNICAL PART	TCULARS	
		TF	IREE PHASE DIS	TRIBUTION TRA	NSFORMER	
ENQUIRY 11158		Customer: KKM PO	WER Oy, Finland (C	ARUNA)		
kVA : 1000 kV :20.5/0.41 Phase : 3			Freq. : 50Hz	Cooling : ONAN Doc No: EGT 44455		
SI. No.	Descrip	otion		UNIT	1000 kVA	
1)	Make			Toshiba Transmission & Distribution System (India) Pvt. Ltd		
2)	Туре				Hermitically Sealed	
3)	Phases		No.	Three		
4)	Rating			kVA	1000 kVA	
5)a)		Voltare:		NVA	1000	
J/a/	Rated Voltage: HV			V	20500	
				V	410	
b)	-	t voltage for equipm	ent			
	HV			kV	24	
	LV			kV	1	
c)	HV Tap	pping Range			Not Applicable	
6)	Frequency			Hz	50	
7)	Vector Group				Dyn 11	
8)		on Level				
	HV			kV peak	125	
	LV			kV peak	Not Ap	plicable
9)		Frequency Level				
	HV			kV rms		50
	LV			kV rms	3	
10)	Winding material Core Material			Aluminium CRGO		
11)					UH	GU
12)	Temperature Rise:			°		
	Oil			° C	60	
	Winding		C	65		
13)	Losses					
	No Load Losses at rated Voltage and Frequency			Watt	693 (MAX)-Tier-2	
	Load Losses at 75 $^\circ$ C		Watt	7600 (MAX)-Tier-2		
14)	Impedance Voltage			%	6% (+/- IEC Tolerance Applicable)	
15)	Percentage Resistance		%	0.76		
16)	Regulation at:					
	Full Load UPF			%	0.94	
	Full Load 0.8 PF			%	4.27	
17)	Efficiency at 0.8 PF:			1 1		

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TO		Toshiba Transmission & Distribution Systems (India) Pvt.Ltd.			Engineering			
10:	SHIBA	Distrib	Distribution Transformers Division					
	Full Load		%	98.97				
	¾ Full Load		%	99.18				
	½ Full Load		%	99.36				
18)	Terminal Arrangement:							
	HV			Bare Bushings - Porcelain-24kV/250A-P2				
	LV			Bare Bushings – Porcelain-1kV/2000A				
19)	Actual Overal	I Dimensions:						
	Length		mm	As per GA drawing 3 OG 86673				
	Width		mm					
	Height		mm	3 00 80073				
20)	Overall Weigh	t						
	Total Weight		Kg.	3380				
21)	Noise Level		LwAdB(A)	55				
	Applicability of Optional Fittings For above mentioned Actual Overall Dimensions							
22)	Provision for	Rollers		Yes				
23)	Pole Mounting	g consoles		No				
24)	HV bushing fla	ags/connector/lug		No				
25)	LV bushing fla	ags/ connector/lug		No				
26)	HV Tapping/1	ap Switch		No				

Note:

- 1. Actual overall dimensions and weights are subjected to +/-10% Tolerance.
- 2. All the efficiencies and regulations are calculated at the nominal values of NLL, LL AT 75DegC and %Z at 75 Deg C.
- 3. * With Rollers transformer height will increase by 135mm.
- 4. With HV flags transformer overall height will increase.
- 5. Paint: Class C4 corrosion protection paint will be provided.