

<b>TOSHIBA</b>	<b>Toshiba Transmission &amp; Distribution Systems (India) Pvt.Ltd. Distribution Transformers Division</b>	<b>Engineering</b>
		<b>Unit-10</b>

<b>GUARANTEED TECHNICAL PARTICULARS THREE PHASE DISTRIBUTION TRANSFORMER</b>					
<b>Tender No : 09573-4</b>		<b>Customer :- KKM POWER OY, FINLAND Tender No :- 233449</b>			
<b>kVA : 315</b>	<b>kV :20.5/0.41</b>	<b>Phase : 3</b>	<b>Freq. : 50Hz</b>	<b>Cooling : ONAN</b>	<b>Doc No: EGT 38071</b>
<b>Sl. No.</b>	<b>Description</b>	<b>UNIT</b>	<b>315 kVA</b>		
1)	Make		Toshiba Transmission & Distribution Systems (India) Pvt. Ltd		
2)	Type		Hermitically Sealed		
3)	Phases	No.	Three		
4)	Rating	kVA	315 kVA		
5)	Voltage:				
	HV	V	20500		
	LV	V	410		
6)	Tapping		Not Applicable		
7)	Frequency	Hz	50		
8)	Vector Group		Dyn11		
9)	Insulation Level				
	HV	kV peak	125		
	LV	kV peak	Not Applicable		
10)	Power Frequency Level				
	HV	kV rms	50		
	LV	kV rms	3		
11)	Winding material		Aluminum		
12)	Core Material		CRGO		
13)	Temperature Rise:				
	Oil	°C	60		
	Winding	°C	65		
14)	Losses				
	No Load Losses at rated Voltage and Frequency	Watt	360 (MAX)-A0		
	Load Losses at 75 °C	Watt	3900 (MAX)-Ck		
15)	Impedance Voltage	%	4% (+/- IEC Tolerance Applicable)		
16)	Percentage Resistance	%	1.24		

"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"

<b>TOSHIBA</b>		<b>Toshiba Transmission &amp; Distribution Systems (India) Pvt.Ltd. Distribution Transformers Division</b>		<b>Engineering</b>
				<b>Unit-10</b>
17)	Regulation at:			
	Full Load UPF	%	1.31	
	Full Load 0.8 PF	%	3.30	
18)	Efficiency at 0.8 PF:			
	Full Load	%	98.34	
	$\frac{3}{4}$ Full Load	%	98.67	
	$\frac{1}{2}$ Full Load	%	98.95	
19)	Terminal Arrangement:			
	HV		Bare Bushings -Porcelain	
	LV		Bare Bushings -Porcelain	
20)	Actual Overall Dimensions:			
	Length	mm	1095	
	Width	mm	875	
	Height	mm	1530	
21)	Overall Weight			
	Total Weight	Kg.	1415	
22)	Noise Level	LwA dB (A )	49	

Note:

1. Actual overall dimensions and weights are subjected to +/-10% Tolerance, provided that the tolerance is not exceeded the maximum value defined.
2. All the efficiencies and regulations are calculated at the nominal values of NLL, LL AT 75 Deg C and % Z at 75 Deg C.