

## **PART 2: TECHNICAL SPECIFIC TECHNICAL REQUIREMENTS**

1	Rated KVA (ONAN rating)	25KVA. 63 KVA, 100KVA 11/0.433 KV
2	No. of phases	3
3	Type of installation	Outdoor
4	Frequency	50 Hz (± 5% )
5	Cooling medium	Insulating Oil (ONAN)
6	Type of mounting	On Channels.
7	Rated voltage	
a)	High voltage winding	11 KV
b)	Low voltage winding	0.433 KV
8	Highest continuous system voltage	
a)	Maximum system voltage ratio (HV / LV )	12 KV / 0.476 KV
b)	Rated voltage ratio (HV / LV )	11 KV / 0.433 KV
9	No. of windings	Two winding Transformers (3 Star Rated)
10	Type of cooling	ONAN (Oil natural / Air natural )
11	KVA Rating corresponding to ONAN cooling system	100%
12	Method of connection:	
	HV:	Delta
	LV:	Star
13	Connection symbol	Dyn 11
14	System earthing	Neutral of LV side to be solidly earthed.
15	Percentage impedance voltage on normal tap and KVA base at 75 <sup>0</sup> C corresponding to HV/ LV rating and applicable tolerances :	<b><u>% Impedance</u> + <u>Tolerance %</u></b> 4.5 + 10%
		<b>(No negative tolerance will be allowed)</b>
16	Intended regular cyclic overloading of windings	As per IEC –76-1, Clause 4.2
17	a) Anticipated unbalanced loading	Around 10%
	b) Anticipated continuous loading of windings (HV / LV)	110 % of rated current
18	a) Type of tap changer	NA
	b) Range of tapping	No Tap
19	Neutral terminal to be brought out	On LV side only
20	Over Voltage operating capability and duration	112.5 % of rated voltage ( continuous )
21	Maximum Flux Density in any part of the core and yoke at rated KVA, rated voltage i.e 11 KV / 0.433 KV and system frequency of 50 HZ	1.5 Tesla

