

**الملحق 1 مواصفات المحولة 1600 كيلو فولط أمبير.**

**TECHNICAL GUARANTEES AND PARTICULARS**

(Information to be provided with the Tender

Signed and approved by the manufacturer and the offer )

Item No	Description	Units	PETDE Requirements	Offered Data
1	Name of manufacturer			
2	Country of origin			
3	Voltage ratio	kV	20/0.4	
4	Vector Group		Dyn11	
5	Method of cooling		ONAN	
6	Rated power when operated at the specified site conditions	kVA	1600	
7	Maximum temperature rise above 50 C° ambient at rated power:			
7.1	Winding temperature rise	°C	≤ 55	
7.2	Top oil temperature rise	°C	≤ 50	
7.3	Hot spot temperature rise	°C		
8	<b>Losses :</b>			
8.1	No load losses at rated voltage	W	≤ 2200	
8.2	Load losses at rated power At u.p.f. and 75 C°	W	≤ 14000	
8.3	Total losses at 75 C°	W	≤ 16200	
9	Impedance voltage (at 75 C°, rated power and principle tapping )	%	6	
10	Power frequency withstand voltage:			
10.1	20 kv winding and bushing	kV	50	
10.2	LV winding and bushing	kV	3	
11	Impulse withstand voltage 1.2/50 μs:			
11.1	20 KV winding and bushing	kV <sub>peak</sub>	125	
11.2	LV winding and bushing	kV <sub>peak</sub>	6	
12	Winding resistance at 75C° :			
12.1	20 kv winding	Ω/phase		
12.2	LV winding	Ω/phase		
13	Magnetizing current in % of rated current at rated voltage	%	≤ 1	
14	2 sec short circuit withstand current : -HV winding -LV winding	kA		
15	Maximum flux density at normal voltage and frequency.	Tesla	≤ 1.7	