

SCHEDULE OF THE TECHNICAL INFORMATION
(INFORMATION TO BE SUPPLIED WITH TENDER)

18. capacitor bank

a: CAPACITOR

item	Description	TECHNICAL PARTICULARS
1	Manufacturer	PKC
2	Type of capacitor	PK400/11.56 EDRI
3	Number of capacitors in parallel	7
4	Number of capacitors in series	8
5	Application standard	IEC 871
6	Assigned rated current ----- amp	34.61
7	Assigned rated voltage ----- kv	11.56
8	Assigned rated output ----- kvar	400
9	Nominal capacitance ----- μ f	9.53
10	Variation in capacitance due to temperature variation (percent with respect to value at reference ambient temperature)	
	a) At lowest ambient temperature ----- %	<1%
	b) At upper limit of ambient temperature ----- %	<1%
11	Nominal rated voltage of elements ----- V	1445
12	Element construction	
	a) electrode	Aluminium foil
	b) solid dielectric	polypropylene film
	c) impregnant	jarlyc c101 PCB free

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item	Description	TECHNICAL PARTICULARS
13	a) minimum dielectric strength ----- v/m	61kv/mm
	b) maximum dielectric stress at rated voltage ---- v/m	65kv/mm
14	Number of elements connected in series and/or parallel per phase	56
15	Details of fusing arrangement and whether internal or external (current time characteristic of fuses to be provided)	EXTERNAL FUSE
16	Minimum breakdown voltage of individual elements ----- V	1.14*Un
17	Details of mineral oil for impregnating medium	jarlyc c101 PCB free
18	Detail of alternative impregnating medium	Benzylated toluene & Dibenzylated toluene
19	Total losses at reference ambient temperature, at rated voltage and frequency ----- kw	0.048
20	total losses at lowest ambient temperature, at rated voltage and frequency ----- kw	0.02
21	total losses at upper ambient temperature, at rated voltage and frequency ----- kw	0.06
22	total weight of complete capacitor including all fittings and impregnating medium ----- kg	69

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item	Description	TECHNICAL PARTICULARS
23	Detail of fitting and parts detached for transport	6 hongers on sites
24	Weight of complete three phase capacitor bank arranged for transport	
	a) total ----- tones	2000kg
	b) heaviest packages ----- tones	600kg
25	Material of tank or container	stainless steel
26	thickness of tank or container	
	a) sides ----- mm	1.5
	b) bottom ----- mm	1.5
	c) details of overall finish (including method of cleaning, primary and finishing paints)	60µm primary 60µm finishing
27	Type of connector at H.V terminal of capacitor bank	NUT(M16)
28	Type of connector at nutral end of capacitor bank	NUT(M12)
29	Insulation level between terminal and container:	
	_ impulse withstand ----- kv peak	170
	_ Power frequency withstand ----- kv rms	70
30	Creepage distance -----mm	762
31	a) Resistance of discharge resistor ----- ohm	10900kohm
	b) Temperature category	40/D
32	Container hottest spot temperature rise above ambient at rated powe ----- C	At rated operation the temperature rise of the case is +8 to +10 in shadow