

TECHNICAL EVALUATION SHEET

Manually Operated 3 phase; 415 V; 50 Amp; Trolley mounted Voltage Variac for Electrical Testing

Sr No.	Technical Specification Desired	Accepted	Not accepted
1	Input - Supply Voltage – 415 volts (+/- 10%); Phase – 3 ; Frequency – 50 Hz		
2	Output - Voltage – 0 – 470 volt; Current Rating – 50 amp; Phase – 3 ; Frequency – 50 Hz		
3	Operation – manually operated		
4	Ventilation – Air Cooled		
5	Insulation Resistance – Not less than 5 Mohms at 500 v DC		
6	Dielectric Test – 2.5 KV RMS for 1 min		
7	Operating Temp. – 50 Deg C.		
8	Storage Temp. - -9 – 70 Deg C		
9	Humidity – upto 95% RH		
10	Confirms to – IS5142		
11	Two separate terminal boxes to be provided for primary and secondary connections.		
12	Contactors (L&T / Siemens make) controlled power connections with start / stop push button and ON / OFF indications is to be provided on primary side of the dimmerstat.		
13	The terminal boxes to be provided with nut bolt type of connectors only		
14	4C * 16 sqmm Cu Stranded flexible cable (IS marked) 10 mtr for primary end and 25 mtr on secondary is to be provided with dimmerstat.		
15	The secondary side (4C * 16 sq mm) power cable (IS marked) should be provided with crocodile testing clamps suitable for 100 amps current handling.		
16	After material delivery at site, vendor will demonstrate equipment at BPCL Site.		
17	BPCL will provide material acceptance only after verifying all PO conditions and successful demonstration at site		
	Enclosure –		
18	Sheet Thickness - 2mm		
19	Epoxy based Powder Coating		
20	Shade External & Internal RAL-7035		
21	Physical Dimensions should not be more than 1000mm (L)* 800mm(W)*1000mm(D)		
22	Enclosure is to be provided with louvers for better air ventilation		
23	All the hardware used should be of SS material only		
24	The dimmerstat is to be provided with eye bolts of sufficient capacity for lifting purpose		
	Trolley wheel Specifications		
25	Weight testing Certificate to be provided for Trolley)		
26	Wheel carrying capacity – 1.5 times of that of dimmerstat gross weight		
27	Swivel Section - steel formed top plate. Tempered and polished steel balls rotate in two smooth raceways		
28	Legs - steel formed legs welded inside and outside to outer raceway		
29	Axel - hex head bolt with lock nut		
30	Lubrication - Pre-lubricated before shipping		
31	Finish - Zing Plating for corrosion resistance		
32	Trolley should have handle for manual shifting		
33	The dimmerstat is to be fixed on the trolley and if required the trolley and dimmerstat can be separated		
34	provide one set (for all 3 phase) brushes as spares		
35	Warranty of the dimmerstat will be 24 months from the date of delivery at site.		
36	The warranty will include dimmerstat and its operating mechanism.		
37	Metallic embossed Name plate with technical details and Mfg. Month /year ((IS5142)		
38	Detailed electrical test certificate for dimmerstat (IS5142)		
39	Trolley weight carrying capacity certificate		
	Any additional feature if vendor wants to include		
40			
41			
42			
43			