

Group – A : Sl. No. - 1) 11 KV 200 Amp 3 Pole AB Switch

Guaranteed Technical Particulars

Sl. No	Particulars	Requirement	Bidders offer
		List of relevant standards. : IS 1818,9921,2544,1394,4691,325, 4722, 2629, 4759, 2633, 1573,3033, 2016, 3961, 5561, 1554, 5578,11353,9920	
1	Maker's name & Address	To be specified by the bidder	
2	Type of Switch	Rotating Type	
3	Suitable for mounting	Horizontal only	
4	No. of Breakers per phase	Single Break	
5	No. of Post Insulators per phase	2nos. of 12KV Post Insulators as per IS:2544/73 per phase	
6 (a)	Post Insulators Maker's Name & Country of Manufacture of Post Insulator	Techno Ceramic / Allied Ceramic /JSI/equivalent Type Test certificates to be provided along with the offer.	
(b)	Type of cementing	Original Cementing. The insulator to be cemented with MCI (Hot dip galvanised /Al Alloy cap and MCI/Forged steel hot deep galvanized pedestral)	
(c)	Power frequency withstand voltage (Dry)	65KV RMS	
(d)	One minute Power frequency withstand voltage (wet)	40KV RMS	
(e)	Visible discharge voltage	9KV RMS	
(f)	Dry flash over voltage	70 KV	
(g)	Power frequency puncture withstand voltage	110KV	
(h)	Creepage distance	320 mm	
(7)	Impulse withstand voltage for positive & negative polarity (1.2/50 micro second wave)		
(a)	Across the isolating	85KV Peak	

	distance		
(b)	To earth & between poles	75KV Peak	
8	Rated one minute Power frequency withstand voltage		
(a)	Across the Isolating distance	32KV(RMS)	
(b)	To earth & between poles	28KV(RMS)	
9(a)	Rated voltage nominal/maximum	11/12KV	
(b)	Rated normal current and rated frequency	200 Amps. 50hz	
10	Rated short-circuit making capacity	20KA (Peak)	
11	Rated Short-time current	16KA	
12	Rated peak withstand current	40KA	
13	Rated mainly active load breaking capacity	10KA	
14	Rated transformer off load breaking capacity	16.3A	
15	Rated line charging capacity	2.5A(RMS)	
16	Rated cable charging capacity	10A(RMS)	
17	Minimum clearance between adjacent phase		
(a)	Switch closed (center to center)	Mm	
(b)	Switch opened (Center of post insulator to the edge of the blade)	Mm	
18	<u>Temperature rise</u> The Temperature rise should not exceed the maximum limit to 65°C at an ambient temperature not exceeding 40°C	The Temperature rise of contacts & terminals are within permissible limit of 65°C & 50°C respectively.	
19	Vertical clearance from top of insulator cap to mounting	Mm	

	channel		
20	Type of connect	<p>a) Self aligned high pressure law type fixed contacts of hard drawn copper of size 35X6X70 mm contact is riveted with three nos. copper rivets with a bunch of copper strips suitable to give desired spring action.</p> <p>b) Solid rectangular blade type moving contact of size 35X6mm and length 220 mm duly silver plated.</p> <p>c) <b>Stainless Steel</b> Pressure springs are used in jaw contacts having 8nos. of turns X28mm heights X14.4mm diameter with 14 SWG wire</p>	
21(a)	Terminal connector (fixed)	Copper flat of size 35X6mm and length 95mm duly silver plated with 1 no. long 1/2" dia G.I. Nut Bolt & Spring washers suitable for 10Sq.mm conductor.	
(b)	Terminal connector (Movable)	Copper flat of size 35X6mm and length 100mm duly silver plated with 1no long 1/2" dia G.I. Nut Bolt & Spring washers suitable to accommodate bimetallic socket up to 80sq mm. conductor.	
22	Terminal supporting flat	Movable terminal contact is supported by G.I. flat of size 50 X 8mm X 370mm on each phase.	
23 (a)	Phase Coupling Rod	ISI mark 25mm nominal bore G.I. Pipe (Medium) conforming to IS:1239/Part	
(b)	Operating Rod	ISI mark 32mm nominal bore G.I. Pipe (Medium) conforming to IS:1239/Part	
(c)	Arcing Horn	10mm dia G.I. Rod	
(d)	Force of fixed contact spring	30lbe to 50 lbs	
(e)	Copper braided flexible taps	320mm long 2no. tin coated copper braided flexible tape both end seated with copper sheets duly punched for fixing	
(f)	Quick break device	Lever mechanism	
		4nos of self .....	
26	Fastners	All fastners (nut & bolts) should be hot-dip galvanized & should be provided with spring and plane washers.	

	Note-1: Type test reports shall be submitted for acceptance which would not be more than seven years.		
	Note-2: The dimensions shown are indicative and are for reference. However the bidders are to submit their drawings as per type test reports along with their offers.		