

Addendum to Technical specification GETCO/E/TS 11 kV A.B. SWITCH-57/R4/July-23

(Technical specifications for 22 kV Outdoor type Polymeric Air Break switch as per IEC 62271-103 with latest Amendment

Important Note:

Bidder must have to follow the aforesaid technical parameters for **22 kV Outdoor type Polymeric Air Break switch as per IEC 62271-103 with latest Amendment**. However, for remaining technical parameters, GETCO Technical Specification No; **GETCO/E/TS 11 kV A.B. SWITCH-57/R4/July-23** shall have to be follow.

PRINCIPAL PARAMETERS:

Sr. No.	Particulars
1	22 kV Outdoor type Air Break switch shall confirming IS/IEC, 62271-103:2011 & IS/IEC 62271-1:2007 with latest Amendment if any, IS: 2633 IEC 62231-ED-1-0 2006 & IS 10742/1983 with latest amendment if any and as per drawing.
2	Rated system voltage – 22 kV
3	Rated frequency - 50 Hz
4	Rated Normal current - 400 Amp
5	No. of Poles - 3
6	Rated lighting impulse withstand voltage kV (Peak) i) To switch connector and earth - 125 kV switch being in closed position. ii) Across the terminals of open switch – 145 kV disconnecter.
7	Rated one minute power frequency withstand voltage: i) To switch connector and earth 50 kV rms ii) Across the terminals of open 60 kV rms Switch disconnecter.
8	Rated short time withstand current one second 16 KA
9	Rated peak withstands - 40 kA current
10	Type of mounting vertical
11	Fixed and moving main contacts: a) Female type of contacts with spring actions on either side and male type moving contacts. b) Material of contacts shall be of copper hard drawn grade and chemical composition of copper shall be as mentioned in cl.no.7.2 of specification. c) Contact shall be silver plated d) Thickness of silver coating (min.) on contacts - 2.5micron. e) Current density of contact - 2 Amp. sq. mm f) Current carrying capacity - 400 Amps
12	a) Type – fixed b) Material - Allu. Alloy c) Current density - 1.25 Amp./sq.mm d) Current carrying capacity - 400 Amps.
13	Arcing contacts of: a) Type – make before & break after b) Material - MS Galv. of 10 mm dia. c) Current carrying capacity - 10 Amp.
14	Bus Polymeric insulator: a) No. of Bus Polymeric insulators per phase – 3 Nos. each of 24 kV with creepage distance of each insulator - 600mm (Min) b) Name of material to be used for manufacturing of insulator with class/grade-silicon 30% min.
15	Method of galvanizing for bolts, Nuts, washers etc. i) size below 5/8" – Electro galvanized or nickel plated ii) Size 5/8" and above hot dip galvanized as per IS: 2633. iii) hollow square rod having outside dimensions - 25 mm x25 mm x 3 mm thick with suitable length duly hot dip galvanized as per IS:2633.
16	Diameter of FRP Rod used in 22 kV Post polymeric insulator should min. 33.5 mm as per tender Drawing.
17	Base channel: Suitable size and Thickness

Note: Minimum Phase to Phase and Phase to Earth clearance shall be as per latest IS/IEC standard.

