

Amendment - I for technical specification for

400/220/132/66/33 & 11kV Control & Protection Panels (GETCO / E / TS- SCP 3703 / R5, June 2022)

For technical specifications of **400/220/132/66/33 & 11kV Control & Protection Panels (GETCO / E / TS- SCP 3703 / R5, June 2022)** technical requirements shall be considered as follow.

SN	Clause no.	Description	Changes to be considered
1	5.11.16, c) (Pg.21)	Numerical relay communication port: The relay shall be capable of supporting IEC-61850 protocols.	To consider: The relay shall be capable of supporting IEC-61850 <u>Edition 2</u> protocols.
2	6.1 & 6.1 k) (Pg. 23 & 24)	Type test: IEC 61850	To consider: a. IEC 61850 <u>Edition 2</u> b. <u>Cyber security NERC CIP/IEC 52351 / IEEE 1686/ IEC 62443</u>
3	Annexure-I (Pg.31 to 36)	Control & Protection Requirements for various Panels BCU and Numerical protection IEDs shall be compliant to IEC 61850 protocol	To consider: BCU and Numerical protection IEDs shall be compliant to IEC 61850 <u>Edition 2 as well as Cyber security as per NERC CIP/IEC 52351 / IEEE 1686/ IEC 62443 standards</u>
4	Annexure-3 (1, 28) (3, 3) (4, 6) (5,7) (6A, xiii) (13, oo) (15, A) (16, A)	Numerical relay communication capability for: Distance Protection Line Differential Protection O/C-E/F Protection Trf/Reactor Differential Protection Back-up Impedance protection Unbalance current protection REF Protection Bus bar Protection Over voltage Protection Over Flux Protection IEC 61850-8-1	Numerical relay communication capability for: Distance Protection Line Differential Protection O/C-E/F Protection Trf/Reactor Differential Protection REF Protection Bus bar Protection IEC-61850 -8-1 <u>Edition 2</u> .