

Specification and BOQ for Spares of 400KV Control & Relay panel

S.No.	Short description	Item Description	Qty Required	Unit Price (Rs)	Amount (Rs)	HSN CODE
1	M1 Distance Prot. IED GE-D60	Main-1 Distance Protection Relay Type: D60,Model No: D60-K03-HKH-F8L-H6D-M6D-P67-U67-W67,Communication Protocol: 61850,Protection Functions: 21P, 21G, 78, 85, 79, 25, 67, 67N, 46BC, 50LBB, 27/59, DFL, 46/67,Item code -ERL0050932	1			
2	Busbar protection Relay Type: B90	Main Zone Busbar protection Scheme-(No of Zones =BB1, BB3, BB5, BB7),Type: B90,Model No: B90-K15-HKH-F8S-HXX-L8S-NXX-SXX-UXX-W7H (CT Input =14 VT Input =2) Model No: B90-K15-HKH-F8S-HXX-L8S-NXX-SXX-UXX-W7H (CT Input =14 VT Input =2),Model No: B90-K15-HKH-F8S-HXX-L8S-NXX-SXX-UXX-W7H (CT Input =14 VT Input =2) Model No: B90-K15-HKH-F6D-H6D-L6D-N67-S67-UXX-W7H (48 Input & 16 Output),Communication Protocol: 61850,Item code -ERL0050934	1			
3	LBB & O/C & E/F Protection Relay,Type: F650	LBB & O/C & E/F Protection Relay,Type: F650,Model No: F650-B-F-D-F1-G1-HI-6E,Communication Protocol: 61850, Protection Function: 50LBB,Item code -ERL0050936	1			
4	LBB Protection Relay Type: C60	LBB Protection Relay,Type: C60,Model No: C60-K03-HKH-F8L-H6D-M67-P67-UXX-WXX,Communication Protocol: 61850, Protection Functions: 50LBB, 79,Item code -ERL0050933	1			
5	Bay control unit	Bay Control Unit, Type: F650 + CIO,Model No : F650-M-X-D-F-1-G-1-HI-6E +CIO-H-1-J-1-HI,Communication Protocol: 61850,Functions: Metering,Sychn Check,Disturbance Recorder,Event Recorder,Item code -ERL0050937	2			
6	3PhTrip Relay,Type-MVAJM25	3PhTrip Relay,Type: MVAJM25,Contacts: 16 N/O + 4 N/C E/R,Aux DC: 220V,Item code -ERL0020711	6			
7	Trip relay coil supervision relay,Type: MVAXM21	Trip relay coil supervision relay,Type: MVAXM21 Contacts : 1 N/O + 2 N/C S/R, FLAG: Reverse Aux DC: 220V,Item code -ERL0020735	5			
8	Selector Switch ,2 Position,Make-Switron	Selector Switch for Carrier Channel-1 and L/R No. of Position 2, Out-In,Make-SWITRON,Item code -ECS0050173	2			

9	Selector Switch for Auto Reclose	Selector Switch for Auto Reclose No. of Position 4, 1ph-3ph-1&3ph-Out,Make-SWITRON,Item code -ECS0050210	1			
10	Trip Circuit Supervision relays Type: MVAXM31	Trip Circuit Supervision relays for CB Trip Coil-1,Type: MVAXM31,Contacts: 1N/O + 2 N/C S/R, FLAG: Reverse, Aux Voltage : 220V DC,Make-Alstom,Item code -ERL0020734	8			
11	Push Button Size: 22.5mm	Push Button,Size: 22.5mm,Colour: Black,Contacts: 2 N/O + 2 N/C,Make-Teknic,Item code -EPB5110019	3			
12	Test Switch,Type: ERMLG	Test Switch for BCU F650 Relay,Type: ERMLG,Item code -EMS0002121	2			
13	Aux Relay Type: MVAJM11	Aux Relay for Direct trip received Channel-1,Type: MVAJM11,Contacts: 10 N/O S/R,Aux. DC: 220V,Make-Alstom,Item code -ERL0020741	7			
14	Aux Relay Type: MVAAM11	Aux Relay for Carrier received Channel-1,Type: MVAAM11 Contacts: 2 N/O +2 C/O S/R FLAG: Forward,Aux. DC: 220V,Make-Alstom,Item code -ERL0020737	5			
15	Aux Relay Type: MVAAM11	Aux Relay for Carrier received Channel-1,Type: MVAAM11 Contacts: 2 N/O +2 C/O S/R FLAG: Reverse,Aux. DC: 220V,Make-Alstom,Item code -ERL0020738	3			
16	AC supervision relay Type: MVAAM11	AC supervision relay,Type: MVAAM11,Contacts: 4 N/C S/R, FLAG: Reverse,Aux AC: 240V, 50HZ : 80 – 120MS TDDO,Make-Alstom,Item code -ERL0020739	2			
17	DC Supply Selector Switch Type: Stayput	DC Supply Selector Switch,Type: Stayput,Position: Source1-Independent- Source2,Make-Switron,Item code -ECS0050203	2			
18	Voltmeters , PT Ratio: 400KV/110V Scale: 0-400KV	Voltmeters ,Size: 48x96,Type: Digital,Class of Accuracy:0.5 PT Ratio: 400KV/110V,Scale: 0-400KV,Aux Supply: 220V DC,Make-Rishabh,Item code -EVM1010078	2			
19	Frequency Meter PT Input: 110V Scale: 45-50-55Hz	Frequency Meter ,Size: 48x96,Type: Digital,Class of Accuracy:0.5,PT Input: 110V,Scale: 45-50-55Hz,Aux Supply: 220V DC,Make-Rishabh,Item code -EFM1000039	1			
20	ETHERNET SWITCH	ETHERNET SWITCH,Make-HIRSCHMANN	2			
Total Excluding GST						