

ANNEXURE-A			
<u>SPARES & SPECIAL TOOLS-BOQ.</u>			
Project : 66kV SWITCHYARD FOR NIMOO-BAZGO HEP, J&K			
Sl. No.	Description	Unit	Qty
1.0	Spares		
1.1	60kV Surge Arrestors (Same as item no. 5 except structure and terminal connector)	Nos.	2
1.2	Current Transformer (Same as item no. 2 except structure & terminal connector)	Nos.	2
1.3	Capacitor Voltage Transformer (same as item no. 3 except structure & terminal connector)	Nos.	2
1.4	Insulator Disc	Nos.	120
1.5	Zebra conductor	Meter	200
1.6	Hardware, fittings and fastners of each type used	Nos	10
1.7	Connector of High Voltage Conductors of each type	Nos	10
1.8	Vacuum Bottles for 6 poles	Lot	1
1.9	Breaker operating Mechanism	No.	1
1.10	Interuptor unit	No.	3
1.11	Complete drive mechanism for disconnecter switches and earthing switches		
1.11.1	For isolator	Nos	1
1.11.2	For earth switch	Nos	1
1.12	Support insulator for one complete isolator pole	Nos	3
1.13	Moving and fixed contact full assembly over insulator	Nos	2
1.14	Operating Rod for tenadem Isolators	Nos	2
1.15	Trip Coils for circuit Breakers	Nos	6
1.16	Closing coil for circuit Breaker	Nos	6
1.17	LV Power Cables of each type 10% of installed quantity	Lot	1
1.18	LV Control Cables of each type 10% of installed quantity	Lot	1
1.19	Lugs of each type 10% of installed quantity	Lot	1
1.2	Cable glands of each size 20% of installed quantity	Lot	1
1.21	Junction Boxes of each size 20% of installed quantity	Lot	1
1.22	Coaxial Cables 10% of installed quantity	Lot	1
1.23	Cable trays of each size 10% of installed quantity	Lot	1
1.24	Cable support hardware 20% of installed quantity	Lot	1
1.25	Power supply module for PLCC panels of each type used	Nos.	2
1.26	Power supply module for telephone exchange of each type used	Nos.	1
1.27	Other cards used in PLCC panels of each type	Nos.	2

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1.28	Modem	Nos.	1
1.29	Other cards used in telephone exchanges of each type	Nos.	1
1.30	4 Wire telephone for direct voice communications	Nos.	1
1.31	Other cards used in telephone exchanges of each type	Nos.	0
1.32	Cable sealing end arrangement for use at switchyard terminal complete with gasket for 66kV Cables	Nos.	1
1.33	Cable sealing end arrangement for use at transformer terminal complete with gasket for 66kV Cables	Nos.	1
1.34	Link Boxes (Single Phase) (66kV Cables)	Nos.	2
1.35	Sheath Voltage Limiter (66kv Cables)	Nos.	3
1.36	Cable Straight Joints (66kv Cables)	Nos.	2
1.37	MCCB of Type used	Nos.	8
1.38	Current transformer of type used	Nos.	4
1.39	Supporting insulator of type used	Nos.	6
1.40	Bushing of type used	Nos.	1
1.41	Indicating lamps used including assemblies	Nos.	10
1.42	Fuses	Nos.	10
1.43	Control and instrumentation switches	Nos.	3
1.44	Contactors	Nos.	2
1.45	Indicating instruments	Nos.	2
1.46	415 V, terminal bushing	Nos.	4
1.47	Under voltage relays	Nos.	2
1.48	Over current and E/F relays	Nos.	2
1.49	Multiple plug power sockets suitable for		
1.49.1	63A/32A/16A	Lot (5%)	1
1.49.2	15A/5A	Lot (5%)	1
1.50	Multiplug plug suitable for		
1.50.1	63A/32A/16A	Lot (5%)	1
1.50.2	15A/5A	Lot (5%)	1
1.51	High -pressure mercury vapour lamps complete with all accessories and fittings	Lot (5%)	1
1.52	High -pressure mercury vapour lamps complete with all accessories and fittings	Lot (5%)	1
1.53	Fluorescent lamps complete with all accessories and fittings	Lot (20%)	1
1.54	DC lamps complete with all accessories and fittings	Lot (20%)	1
1.55	HPMV lamps and chokes	Lot (15%)	1
1.56	HPSV lamps and chokes	Lot (15%)	1
1.57	Low wattage lamps (24V)	Lot (20%)	1
1.58	All type of switches, contactors terminal blocks, screws	Lot (10%)	1
1.59	All type of cables, wires	Lot (10%)	1
2.0	Special Tools		
2.1	SF6 gas filling and evacuating equipment	Set	1
2.2	SF6 gas leakage detectors	Nos	1
2.3	SF6 gas filtering, drying, storage and recycling plant.	Nos	1
2.4	Operational Analyser	Nos	1
2.5	Two(2) sets of cards / module extraction tools	Lot	1
2.6	Level meter with level oscillator: frequency 50Hz to 500kHz	Nos	1
2.7	Telescopic Extension Piece type earthing rod	Nos	2
2.8	Aluminum Channel ladder with wheels and platforms suitable for two persons alongwith tools for first level of switchyard.(10.5/5.5 meter busbars)	Nos	2
Note:-			
1	Scope includes unloading, verification, storage & handing over to customer.		