

ANNEXURE – B

1.1 400 kV POTHEAD YARD

S. No.	Description	Quantity
1	Capacitance voltage transformer for 400 KV	1 no.
2	Surge arrester for 400 KV line	1 no.
3	Disc Insulators	24 nos.
4	Conductor of each type used	100 m
5	Hardware fittings, fasteners of each type used	Three (3) nos. of each used type
6	Connectors on high voltage conductors	Three (3) nos. of each used type

1.2 400 kV GIS

Sl. No	Description	Quantity	Unit
1.	Mandatory Spare parts		
1.1	SF6 gas for use during operation and maintenance in non-returnable cylinders.	10% of total quantity in 40 kg cylinders	
1.2	One pole of complete Interrupter unit of circuit breaker with operating mechanism and tie rod etc.	1	Set
1.3	Complete drive mechanism including motor for disconnector switches and earthing switches	1	No.
1.4	Complete drive mechanism including motor for fast acting earthing switches.	1	No.
1.5	Trip coils for circuit breakers	6	Nos.
1.6	Closing coils for circuit breakers	6	Nos.
1.7	Complete set of rupture disc	2	Set
1.8	Pressure switch/gas pressure transmitter	2	Sets of each used type
1.9	Pressure gauge	2	Sets of each used type
1.10	Gas density relay	2	Sets of each used type
1.11	Gas tight bushing of each type used	2	Nos. of each type used
2.	Special Tools		

2.1	Gas processing unit and filling units, along with tools and spares to handle gas quantity in at least two largest gas sections, with provision to check SF ₆ moisture and acidity content	1	Set
2.2	Set of handling devices and tools for assembling and dismantling of bays / complete GIS modules	1	Set
2.3	set of handling devices and tools for assembling and dismantling each type of operating mechanism of circuit breakers, disconnectors and earthing switches.	1	Set
3.	Testing Instruments	1	No.
	Air / gas humidity tester	1	No.
	Gas. purity detector for SO ₂ ,H ₂ O,CF ₄ ,AIR etc.	1	No.
	Gas leakage tester	1	No.
	Breaker timing measurement kit	1	No.
	Equipment for pressure measurement and gas tightness testing	1	Set

1.3 400 kV XLPE CABLES

S. No	Description	Unit	Spare quantities
1.	400kV 1C X 2500mm ² Copper conductor corrugated Aluminium/copper/welded Aluminium sheath, XLPE cable complete with necessary auxiliary equipment	M	530 (One length)
2.	400kV outdoor type cable termination kit complete suitable for terminating the above cable in Potyard	Nos.	01
3.	400kV cable termination kit complete suitable for interconnection of above cable in GIS with necessary hardware	Nos.	01
4.	Set of Sealing Arrangement for sealing the above spare cable at both ends	Set.	00
5.	Set of bonding arrangement for the connection for the sheath of above cables (Detailed description and bill of material shall be furnished)	Set.	00
6.	Non-magnetic clamps with necessary hardware for fixing above cables to the Cable support system	Lot	10 % of the total quantity
7.	Cable Straight through joints for the above cable	Nos.	02
8.	Sheath voltage limiter	Nos.	03
9.	Link Box, single phase	Nos.	02

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