

	List of Mandatory Spares for Sankhari Substation	Unit	Qty
<b>A</b>	<b>400kV SF6 Circuit Breaker</b>		
1	One Complete Pole of 400kV CB without PIR including Grading Capacitor, Pole column interrupter, with driving mechanism and Marshaling Box but without support structure.	Pole	1
2	Grading capacitor (if applicable)	No	1
3	Rubber gasket, 'O' rings and seal (For Complete replacement for one phase)	Set	1
4	Trip coils with resistor	Nos.	3
5	Closing coils with resistor	Nos.	3
6	Terminal Pad	Nos.	2
7	Molecular filter (For Complete replacement for one phase)	Nos	2
8.0	Corona Rings	Nos	1
9.0	Relay Power contactors, switch fuse units, limit switches, push button, timers & MCB etc ( One No. of each Type)	Set	1
10.0	Pressure switch of each type/Density monitor (One No. of each Type)	Set	1
11.0	Auxiliary switch assembly (For one Phase of CB)	Set	1
<b>B</b>	<b>3000A, 40kA, 400kV, 6 core Current Transformer (1-Ph) complete in all respect including terminal connectors</b>	<b>No.</b>	<b>1</b>
<b>C</b>	<b>400kV, 4400pf CVT (1-Ph) complete in all respects including terminal connector</b>	<b>No.</b>	<b>1</b>
<b>D</b>	<b>336kV Surge Arrester</b>		
1.0	336kV Surge arrester complete with insulating base and terminal connectors	No.	1
2.0	Surge counter/monitor	No.	2
<b>E</b>	<b>400kV Isolator</b>		
E.1	2000A,40 kA, Isolator with one E/S (HCB)		
1.0	One complete pole of Isolator including support insulator with 1 E/S with operating mechanism for main isolator and earth switch (excluding structure)	No.	1
2.0	Copper contact fingers for female & male contacts	set	2
3.0	Open/Close Contactor Assembly, Timer, Key Interlock push button switch & auxiliary switches	set	1
4.0	Limit switch	Nos.	2
5.0	Terminal pads & Connectors	no	3
6.0	Corona shielding ring	Nos.	3

	<b>List of Mandatory Spares for Sankhari Substation</b>	<b>Unit</b>	<b>Qty</b>
E.2	2000A, 40kA, Isolator with one E/S (Pentagraph)		
1.0	One complete pole of Isolator including support insulator with 1 E/S with operating mechanism for main isolator and earth switch (excluding structure)	No.	1
2.0	Copper contact fingers for female & male contacts	set	2
3.0	Open/Close Contactor Assembly, Timer, Key Interlock push button switch & auxiliary switches	set	1
4.0	Limit switch	Nos.	2
5.0	Terminal pads & Connectors	no	3
6.0	Corona shielding ring	Nos.	3
<b>F</b>	<b>Relay and Protection system</b>		
1.0	Line Protection panel spares		
a	Main-I Numerical distance relay (complete unit)	Nos.	1
b	Numerical Line current differential relay (complete unit)	Nos.	1
2.0	Common Spares		
a	Power supply module for Bus Bar protection.(If	Nos.	1
b	Bus Bar Bay unit module if Applicable	Nos.	1
<b>G</b>	<b>Sub-Station Automation /SCADA system</b>		
1.	Bay control unit (IED) of each type	Nos.	1
2.	Ethernet switch of each type	Nos.	1
<b>H</b>	<b>PLCC, DPC and EPAX Spares</b>		
1.	Set of prints for carrier terminal	Set	1
2.	Set of prints for Analogue protection coupler (of each	Set	1
3.0	Set of print for Digital Protection coupler	Set	1