

4x270 MW Manuguru TPS-Mandatory Spares List

ID No.	Sl. No.	Equipment/Package Name	Quantity	Remarks	Remarks	BHEL Unit
861	Hi.	400 kV Switchyard				
862	1.00	420 kV Circuit Breaker For Switchyard Only				
863	i)	Complete Pole of circuit breaker including grading capacitor, pole column, interrupter, with driving mechanism and Marshaling Box but without support structure for without PIR				
864		2000 A, 40 kA (No. of Pole)	1	No.		
865	ii)	Grading Capacitor(if applicable)	1	No.		
866	iii)	Rubber gaskets, 'O' rings and seals (Complete replacement for one breaker)	1	Set		
867	iv)	Trip coils with resistor	2	Nos.		
868	v)	Closing coils with resistor	1	No.		
869	vi)	Terminal Pads & connectors	2	Nos.		
870	vii)	Molecular filter	2	Nos.		
871	viii)	Corona rings	1	No.		
872	ix)	Relays, Power contactors, switch fuse units, limit switches, push buttons, timers & MCB etc.	1	Set		
873	x)	Pressure switches of each type	1	Set		
874	xi)	Auxiliary switch assembly	1	Set		
875	1.02	400kV Isolator For Switchyard Only				

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ID No.	Sl. No.	Equipment/Package Name	Quantity	Remarks	Remarks	BHEL Unit
876	i)	One complete pole including support Insulator, motor operating mechanism (MOM) with box but excluding structure				
877		2000A, 40 KA with 1 E/S (no. of pole)	1	No.		
878	ii)	Copper contact fingers for male & female contacts	2	Set		
879	iii)	Open/Close contactor assembly, timers, key interlock push button switch & auxiliary switches	1	Set		
880	iv)	Limit Switch	2	Set		
881	v)	Terminal Pads & Connectors	3	Nos.		
882	vi)	Corona shield rings	3	Nos.		
883	1.03	Surge Arrester For Switchyard Only				
884	i)	Complete LA with surge counter/Monitor	1	No.		
885	1.04	Current Transformer For Switchyard Only				
886	i)	Each type	1	No.		
887	1.05	Capacitive Voltage Transformer For Switchyard Only				
888	i)	Each type	1	No.		
889	ii)	Tension insulator	3	Nos.		
890	iii)	Suspension insulator	3	Nos.		
891	iv)	Disc Insulator	50	Nos.		
892	v)	Post Insulator	6	Nos.		
893	1.06	220V Battery Charger For Switchyard Only				
894	i)	Set of Control Cards	1	Sets		
895	ii)	Set of relays	1	Sets		
896	iii)	Rectifier transformer	1	Nos.		
897	iv)	Thyristor/ Diode	1	Sets		
898	v)	Fuses of Thyristor with indicators	6	Nos.		