

Project : 220/132 kV SWITCHYARD AT TALCHER

Customer : NATIONAL THERMAL POWER CORPORATION

HANDLING OF MANDATORY SPARES

S.No.	Description	Unit	Qty.	Rate	Amount
1	220kV CIRCUIT BREAKERS.				
	Relay, power contactors, switch fuses for control circuit (one no. of each type and rating)	Set	1		
	Set of gasket, rings and seals	Set	1		
	Molecular filter for Circuit Breaker	No.	1		
	Insulating Nozzle	Nos.	3		
	Support Insulator stack	No.	1		
	Tripping and closing coil (each type)	Nos.	6		
	Density monitoring system for circuit Breaker	No.	1		
	Spring charging motors (if applicable)	Nos.	2		
	Set of valves for pneumatically operated breaker	No.	1		
	Pressure switch for pneumatically operated Breaker	No.	1		
	Fixed and moving arcing contact	No.	1		
	Terminal connectors of each type	set	1		
	One complete pole (one no. of each type)	No.	1		
2	132kV CIRCUIT BREAKERS.				
	Relay, power contactors, switch fuses for control circuit (one no. of each type and rating)	Set	1		
	Set of gasket, rings and seals	Set	1		
	Molecular filter for Circuit Breaker	No.	1		
	Insulating Nozzle	Nos.	3		
	Support Insulator stack	No.	1		
	Tripping and closing coil (each type)	Nos.	3		
	Density monitoring system for circuit Breaker	No.	1		
	Spring charging motors (if applicable)	No.	1		
	Fixed and moving arcing contact	No.	1		
	Terminal connectors of each type	set	1		
	One complete pole (one no. of each type)	No.	1		
2.	220kV ISOLATORS				
	One complete pole of DB isolator with 2 ES alongwith operating mechanism box etc.	No.	1		
	Copper contact finger for female contacts	Nos.	2		
	Relay, power contactors, switch fuses for control circuit (one no. of each type and rating)	set	1		
	Support insulator stack for one pole of isolator	set	1		
	Rotary bearing for isolators	Nos.	3		
	Hinge pin	Nos.	3		
	Limit switch and auxiliary switch	Nos.	3		
	Terminal connectors (2 Nos of each type)	set	1		

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S.No.	Description	Unit	Qty.	Rate	Amount
2.	132kV ISOLATORS				
	One complete pole of DB isolator with 2 ES alongwith operating mechanism box etc.	No.	1		
	Copper contact finger for female contacts	Nos.	3		
	Relay, power contactors, switch fuses for control circuit (one no. of each type and rating)	set	1		
	Support insulator stack for one pole of isolator	set	1		
	Rotary bearing for isolators	Nos.	3		
	Hinge pin	Nos.	6		
	Limit switch and auxiliary switch	Nos.	5		
	Terminal connectors (2 Nos of each type)	set	1		
4.	CURRENT TRANSFORMER				
4.1	220 KV Current Transformer	No	1		
4.2	132 KV Current Transformer	No	1		
5	Capacitor voltage transformers	Nos			
5.1	220 KV Capacitor voltage transformers	No.	1		
5.2	132 KV Capacitor voltage transformers	Nos.	2		
6	Manatory spares for C&R panels	Set	1		
7	mandatory spares for Reciprocating compressor/AHU/control				
	Total (Rs.)				