

R&M of 2 x 110 MW PATRATU TPS					
REFURBISHMENT OF ELECTRICAL EQUIPMENT					
SCHEDULE - A					
SUPPLY OF ITEMS REQUIRED FOR REFURBISHMENT OF TRANSFORMERS, MOTORS & BUSDUCT					
Sr. No.	Item	Unit	Quantity	Unit Rate including Taxes (Rs.)	Amount (Rs.)
A.	Supply of Bearings for HT Motors				
	(Anti-friction Type, 1 Set means bearings for 1 motor)				
	These bearings shall be supplied directly to vendors works, where motor rewinding is being done.				
1	CEP Motors	Set	6		
2	PA Fan Motors	Set	4		
3	ID Fan Motors	Set	6		
4	CWP Motors	Set	6		
5	Coal Mill Motors	Set	12		
6	FD Fan Motors	Set	4		
B.	Supply of Bearings for LT Motors				
	(Anti-friction Type, 1 Set means bearings for 1 motor)				
	These bearings shall be supplied directly to vendors works, where motor rewinding is being done.				
1	0-5 kW	Set	5		
2	5.1-10 kW	Set	8		
3	10.1-20 kW	Set	10		
4	20.1-40 kW	Set	10		
5	40.1-80 kW	Set	45		
6	80.1-120 kW	Set	15		
7	120.1-160 kW	Set	10		
C.	Supply of Spares for Generator Transformers				

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1	OTI	Nos.	2		
2	WTI	Nos.	2		
3	MOG	Nos.	2		
4	220 kV LA with Counter	Nos.	6		
5	HV Bushings	Nos.	3		
6	LV Bushings	Nos.	3		
7	36" Fan with motor for radiator	Nos.	30		
8	Buchholz Relay System	Nos.	2		
9	PRV	Nos.	2		
10	Rubber Bellows	Nos.	6		
11	Metallic Bellows for Radiators	Nos.	8		
D.	Supply of Spares for Station Transformers				
1	OTI	Nos.	2		
2	WTI	Nos.	2		
3	MOG	Nos.	2		
4	220 kV LA with Counter	Nos.	6		
5	HV Bushings	Nos.	3		
6	LV Bushings	Nos.	3		
7	Fan motors for radiator	Nos.	30		
8	Buchholz Relay System	Nos.	2		
9	PRV	Nos.	2		
10	OLTC	Set	1		
11	RTCC Panels	Set	2		

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Sr. No.	Item	Unit	Quantity	Unit Rate including Taxes (Rs.)	Amount (Rs.)
E.	Supply of Spares for Unit Auxiliary Transformers				
1	OTI	Nos.	2		
2	WTI	Nos.	2		
3	MOG	Nos.	2		
4	Buchholz Relay System	Nos.	2		
5	PRV	Nos.	2		
6	RTCC Panels	Set	2		
F.	Supply of Spares for Unit Service Transformers				
1	OTI	Nos.	2		
2	WTI	Nos.	2		
3	MOG	Nos.	2		
4	Buchholz Relay System	Nos.	2		
5	PRV	Nos.	2		
G.	Supply of Spares for Busduct System				
1	Support Insulators with Hardware	Nos.	100		
2	Welding Wire Al with machine	Kgs	25		
3	Seal-off Bushings with Metal Parts	Nos.	12		
4	Rubber Bellow	Nos.	12		
5	Disconnecting Links - Al	Nos.	12		
6	Space Heaters	Nos.	50		
7	Shorting Links - 8000 A - Cu	Nos.	4		
8	11 kV 3A HRC Fuse for PT	Nos.	36		

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Sr. No.	Item	Unit	Quantity	Unit Rate including Taxes (Rs.)	Amount (Rs.)
9	36 kA 650V 10A HRC Fuse for AVR	Nos.	18		
10	Neoprene Gasket - Sponge Type - 30x10 mm	Mtrs.	500		
11	Hardware for Busduct	Lot	2		
H.	Supply of LT Motors				
1	4.8 kW, 220V DC, 700 rpm	Nos.	2		
2	100 W, 220V DC, 5000 rpm	Nos.	2		
3	3.7 kW, 415V AC, 2850 rpm	Nos.	2		
4	3.7 kW, 415V AC Pony Motor for BFP	Nos.	4		
Total - Supply					

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REFURBISHMENT OF ELECTRICAL EQUIPMENT					
SCHEDULE - B					
REFURBISHMENT & RENOVATION OF EXISTING EQUIPMENT WITH SPARES SUPPLIED BY BIDDER					
(MAJOR SPARES REQUIRED ARE INDICATED IN SCHEDULE-A. ANY OTHER MATERIAL REQUIRED TO COMPLETE THE JOB AS PER SPECIFICATION SHALL BE INCLUDED HERE)					
Sr. No.	Item	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
A.	Rewinding of HT Motors as per specification.				
	The charges for rewinding shall include all required material for rewinding & overhauling of motors, except supply of bearings. However, for BFP Motors, charges for supply of bearings and development of Aluminum Seal shall also be included.				
1	CEP Motors	Nos.	6		
2	PA Fan Motors	Nos.	4		
3	ID Fan Motors	Nos.	6		
4	BFP Motors including Sleeve Bearings & Development of Al. Seal	Nos.	4		
5	CWP Motors	Nos.	6		
6	Coal Mill Motors	Nos.	12		
7	FD Fan Motors	Nos.	4		
B.	Rewinding of LT Motors as per specification.				
	The charges for rewinding shall include all required material for rewinding & overhauling of motors, except supply of bearings.				
1	0-5 kW	Set	5		
2	5.1-10 kW	Set	8		
3	10.1-20 kW	Set	10		
4	20.1-40 kW	Set	10		
5	40.1-80 kW	Set	45		
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(MAJOR SPARES REQUIRED ARE INDICATED IN SCHEDULE-A. ANY OTHER MATERIAL REQUIRED TO COMPLETE THE JOB AS PER SPECIFICATION SHALL BE INCLUDED HERE)					
Sr. No.	Item	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
7	120.1-160 kW	Set	10		
C.	Overhauling & Servicing of Transformers as per specification.				
	The charges for overhauling & servicing shall include all required material for overhauling of transformers, except specific items as mentioned in Schedule-A.				
1	137.5 MVA Generator Transformers	Set	2		
2	30 MVA Station Transformers	Set	2		
3	20 MVA Unit Auxiliary Transformers	Set	2		
4	1.0/1.6 MVA Unit Service Transformers	Set	16		
D.	RLA (Residual Life Assessment) & CA (Condition Assessment) Studies of Transformers as per specification.				
	The charges for RLA & CA shall include all required instruments & material for RLA & CA Studies of transformers.				
1	137.5 MVA Generator Transformers	Nos.	2		
2	30 MVA Station Transformers	Nos.	2		
3	20 MVA Unit Auxiliary Transformers	Nos.	2		
4	1.0/1.6 MVA Unit Service Transformers	Nos.	16		
E.	Misc. Work on Transformers as per specification.				
1	Shifting of GT#8 to Unit #9 and GT#9 to either Service Bay or Unit	Lot	1		

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(MAJOR SPARES REQUIRED ARE INDICATED IN SCHEDULE-A. ANY OTHER MATERIAL REQUIRED TO COMPLETE THE JOB AS PER SPECIFICATION SHALL BE INCLUDED HERE)					
Sr. No.	Item	Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
2	Core and Coil Rewinding & Repairs (1 Complete Limb with HV & LV) for Station Transformers	Lot	1		
3	Complete LV Chamber modification including fabrication work for Station Transformer.	Lot	1		
F.	Overhauling & Servicing of Busducts & Associated Equipment as per specification.				
	The charges for overhauling & servicing shall include all required material for overhauling of Busducts & associated equipment, except specific item as mentioned in Schedule-A.				
1	HT Busduct	Set	2		
2	CT, LAVT & SP Cubicles	Set	2		
3	NGR & NGT	Set	2		
	Total - Services				

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REFURBISHMENT OF ELECTRICAL EQUIPMENT			
SUMMARY OF PRICE SCHEDULE			
Sr. No.	Schedule		Amount
A.	SCHEDULE-A-SUPPLY		
B.	SCHEDULE-B-SERVICES		
	TOTAL-A+B		
	Total in Words		
	Rs.		