

**BILL OF QUANTITIES**  
**BIDDING DOCUMENT (To be submitted in Envelope No.2)**  
Name of Work : R&M of Electro-Mechanical Component of Tuipanglui SHP (2x1500kW)

Tender Amount : Rs 58,00,000.00

Sl. No.	Description	Unit	Qty	Rate		Amount
				In figure	In words	
1	2	3	4	5	6	7
<b>I</b>	<b>Turbine &amp; Main inlet valves</b>					
	Labour Work					
1.	Dismantling, Overhauling, Allignment, onsite dynamic balancing and re-commissioning of turbine and main inlet valves	Job	2			
	<b>Spare Parts</b>					
2.	Nozzle shaft seals	No	8			
3.	Nozzle shaft bearing	No	4			
4.	Main inlet-valve outer and inner seals	Set	2			
5.	Nozzle flange O-ring and gasket	Set	2			
6.	Nozzle hydraulic cylinder piston seals	Set	2			
7.	High pressure gasket sheet	No	3			
8.	O-ring of different sizes, 5mm each	Set	1			
<b>II</b>	<b>Generator</b>					
	<b>Labour Work</b>					
1.	Dismantling, Revarnishing, Overhauling and Re-commissioning of	Job	2			
2.	Repair and re-commissioning of Bassier make Auto Voltage regular of Set-II	Set	1			
	<b>Spare Parts</b>					
3.	Lubrication oil pump seals	Set	3			
4.	Lubrication of flow meter	Set	3			
5.	Lubrication oil VG40	Ltr	618			
6.	Filter element	No	5			
7.	Drive end and Non-drive end bearing outer seal	Set	5			
8.	Generator bearings	Set	1			
<b>III</b>	<b>Governing system and turbine control panel</b>					
1.	Current to current convertor 0-10mA to 4-20mA	No	4			
2.	24V DC Plugin Relays for modification of turbine control panels	No	16			
3.	110V DC Contractor	No	8			
4.	ESD/NSD CKT Contractor	No	6			
5.	Push-Button with NO/NC top	No	26			
6.	Actuator with NO/NC top (Speed adjustment switch)	No	12			
7.	Pressure Switch 1 O 1 NC 200 bar	No	3			
8.	Indicator lamp 24V DC and 110V D	No	20			
9.	Rotary Switch	No	3			
10.	KW meter	No	3			
11.	Pf meter	No	3			
12.	Hz meter	No	3			
13.	KV meter	No	3			
14.	Amp meter for UCB	No	3			
15.	Fuse base	No	24			
16.	1.5Sqmm multistrand grey control	Roll	12			

17.	Mushroom head Push button	No	4			
18.	Extra NO/NC top	Set	30			
19.	Fuse HBC 2A, 4A, 6A, 8A each one	Set	1			
20.	Active Power Transducer	No	3			
21.	Repair of Position Sensor Transducer	No	3			
22.	Nozzle opening indicator meters, 4-20mA input, Aux voltage 24V DC, size 96x43.5 mm	No	5			
<b>IV</b>	<b>Generator Control Panel</b>					
1.	Fault annunciator lamp	No	20			
2.	VCD Trip and Closing Coils	Set	4			
3.	Multidisplay digital meter with import/export meter	No	4			
<b>V</b>	<b>Feeder Control Panel</b>					
1.	Fault annunciator lamp	No	24			
2.	Amp meter for UCB	No	1			
<b>VI</b>	Synchronizing check replay CSPC make type Sy-Sp for synchronizing panel	No	2			
<b>VII</b>	Supplying and commissioning of 3 core 33kV CT 60-1 A for switchyard	No	1			
<b>VIII</b>	Supplying and commissioning of 3 core 33kV PT 60-1 A for Switchyard	No	1			
<b>IX</b>	Switchyard and Forebay lighting 4 Nos. HPSV lamp fittings and Power House lighting 4 No, HPMV fitting, wiring.	Set	1			
<b>X</b>	Over heating of Power Transformer	Job	2			
<b>XI</b>	Painting of all switchyard equipment	Job	1			

Signature of Contractor

Date : \_\_\_\_\_

(.....)

Place : \_\_\_\_\_

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Contact No. : \_\_\_\_\_