

### SCHEDULE OF QUANTITIES AND PRICES

#### 12.1 GENERATING PLANT / EQUIPMENT (As described in relevant Section)

Sl. No	Item	Unit	Qty	Rs. in Lacs		Remarks
				Rate	Total	
1	Horizontal Francis Turbines to deliver 1500 kW at generator terminals, each comprising of shaft, runner, casing, guide vanes, servomechanism, bearings, oil pressure unit, etc including all other accessories.	Set	3			
2	Synchronous Generators 1875 kVA, 3.3 kV, 0.8 PF, 50 HZ + 3% class 'F' insulation, brush less excitation terminal equipment e.g neutral grounding system, CTs, PTs, LA/SC and other accessories.	Set	3			
3	Generator / Turbine control panels including protection, metering and control system, all indicating instruments, switches etc with one synchronizing panel.	Set	3			
4	Hydraulic Governors including electronic cabinet complete in all respect and suitable for above generating sets.	Set	3			
5	Main inlet valves each capable of handling rated discharge at gross head and suitable for fixing on penstocks	Set	3			
<b>TOTAL :</b>						

#### 12.2 AUX. EQUIPMENT FOR THE POWER PLANT (As described in relevant Section)

Sl. No	Item	Unit	Qty	Rs. in Lacs		Remarks
				Rate	Total	
1	3.3 kV switch gear complete with ACB's as required, bus bars, indicating / measuring instruments, CT's, PT's cable boxes, protective relays, operating isolators, switch fuse units etc. as required	Set	1			
2	LT (0.415 kV) Board with MCCB/MCB and sub distribution boards for auxiliary & lighting loads	Set	1			
3	300 AH, 48 / 110 volt station battery and charger complete with DC distribution board	Set	1			
4	3.3 kV Power Cables XLPE type ISI Marked	Set	1			
5	Other Power and control cables ISI Marked	Set	1			
6	250 kVA, 33/0.415 KV Station Transformer with all accessories	No	1			
<b>TOTAL :</b>						

**12.3 GENERAL SERVICES FOR THE POWER STATION (As described in relevant Section)**

Sl. No	Item	Unit	Qty	Rs. in Lacs		Remarks
				Rate	Total	
1	EOT crane 15 T capacity complete with rails, running wires etc.	No	1			
2	Air conditioning system & Ventilation system	L.S	1			
3	Lighting in P/H, switchyard and appurtenant works.	Set	1			
4	Fire fighting system	Set	1			
5	Earthing of equipment and network including lightning protection	Set	1			
6	Oil Purification Machine	No	1			
7	75 kVA(60 kW) diesel generating set i/c control panel	No	1			
8	Mandatory spares					
9	Mandatory maintenance tools					
10	Drainage and Dewatering system	Set	1			
11	Internal communication system with 10 line telephone exchange complete	L.S	1			

<b>TOTAL :</b>
----------------

**12.4 33KV SWITCHYARD EQUIPMENT (As described in relevant Section)**

Sl. No	Item	Unit	Qty	Rs. in Lacs		Remarks
				Rate	Total	
<b>33 KV SYSTEM</b>						
1	2.0 MVA 3.3/33 kV step up transformers	No	3			
2	33kV circuit breakers (VCB)	No	5			
3	33 kV lightning Arrestors	Nos	9			
4	33 kV bus Isolator	Nos	6			
5	33 kV line Isolators	Nos	2			
6	33 kV Potential transformers	Nos	9			
7	33 kV current transformers	Nos	15			
8	G.I structures, insulators, conductor and hardware etc. complete as required	Lot	1			
9	Pale fencing with gate	Job	1			
10	Earthing system for complete switchyard (Earthing mat and individual earthing) i/c shielding system	Lot	1			
11	Control / Relay panels for 33kV transformers, VCBs and feeders	Set	1			
12	33 KV D.O. Fuse unit complete i/c barrels with metal parts, fuse elements, 33 KV Hooke stick etc.	Set	3			

<b>TOTAL :</b>
----------------

**12.5** Any other item required for project completion and successful commissioning of the project

<b>TOTAL :</b>
----------------

**12.6 ERECTION, TESTING AND COMMISSIONING (As described in relevant Section)**

Sl. No	Erection Testing and Commissioning	Amount Rs. in Lakhs	Remarks
1	Generating plant and equipment as detailed in 12.1 above and specifications		
2	Auxiliary equipment for the power plant as detailed in 12.2 and specifications		
3	General services for the power station as detailed in 12.3 and specifications		
4	Switchyard equipment as detailed in 12.4 and specifications		
5	Any other items required for project completion		
<b>Total</b>			