

**PRICE SCHEDULE FOR TESTING & COMMISSIONING WORKS (Annexure-I)**

<b>A. Main Item</b>					
<b>Sl. No.</b>	<b>Description</b>	<b>Unit</b>	<b>Qty</b>	<b>Unit Rate (Rs.)</b>	<b>Amount (Rs.)</b>
1	Team of Engineers (01 Sr.Engineer & 01 Engineer)	Per team days	400	4072	1628800
2	Accommodation Charges (Team of engr.available at site)	Per team days	400	1004	401600
3	Local Transport Charges (all team/person available at site)	Per day per team	300	652	195600
<b>Total Amount for ( A ) in ( Rs.) -</b>					<b>2226000</b>
<b>Note:-</b>					
1	The above charges should be inclusive of testing equipment like Digital Multimeter, Clamp meter,Megger,workman compulsory tool kit and General test equipments only.				
2	The above man day rate will be payable from the day contractor's Engineers report to our project site, till the day they leave site including holidays (National) at site. Above man day rate shall be applicable for job carried out in weekly/ local holidays. If no work carried out on any weekdays/sundays no payment shall be applicable for that days.				
3	The above mentioned quantites are only for evaluation purpose the quatity may be varies from -10% to +10% depending upon requirement.				
4	The contract will be awarded on overall L1 basis.				
<b>Sl.No.</b>	<b>Description</b>	<b>Unit</b>	<b>Qty</b>		
<b>A. Workman Compulsory Tool Kit (per team)</b>					
1	Allen Key Set	No.	1		
2	Screw driver Set	No.	1		
3	Voltage Tester	No.	1		
3	Continuty Tester	No.	1		
4	Wire Stripper	No.	1		
5	Crimper	No.	1		
6	Banana clip	Nos.	6		
7	Crocodile clip	Nos.	6		
<b>B. General Test Equipments</b>					
1	Analog multimeter	No.	1		
2	Digital multimeter	Nos.	2		
3	Clamp on meter 0-2000A	No.	1		
4	Leakage current meter (0-1A)	Nos.	2		
5	Primary Injection Kit 2000A	No.	1		
6	Variac(30A) 1 ph/ 3 ph	No.	1		
7	Variac(8A) 1ph/3 ph	No.	1		
8	Contact Resistance Measurement kit(100/200A)	No.	1		
9	Three pole timer(0-999msec)	No.	1		
10	Single pole timer(0-9999ms)	No.	1		
11	Step up transformer(3/5KV)	No.	1		
12	Secondary Injection Relay kit (0-12A)	No.	1		
13	DC power pack (0-10A)	No.	1		
14	Earth Resistance meter	No.	1		

C. Special Test Instruments		Unit	Quantity	Unit Rate (Rs.)	Amount (Rs.)
1	a) Testing of CB with CB Operational Analyser with DCRM for 132kV and below	Per Breaker	10	14293	142933
	b) Testing of CB with CB Operational Analyser with DCRM for 220kV and above	Per Pole	40	7000	280000
2	a) Testing of CB with Operational Analyser without DCRM for 132kV and below	Per Breaker	15	9227	138400
	b) Testing of CB with Operational Analyser without DCRM for 220kV and above	Per Pole	35	5000	175000
3	SF6 Gas leakage detector	Per breaker	100	4880	488000
4	a) Dew point kit for 132kV and below	Per Breaker	25	2757	68933
	b) Dew point kit for 220kV and above	Per Pole/transformer	75	1500	112500
5	b) Testing with Automatic Capacitance & Tan Delta test Kit with operator	Per Day (min. 24 points)	80	12360	988800
6	Automatic Relay Test kit Omicrom CMC 256 or equivalent	Per Day	100	8040	804000
7	Frequency Response Analysis (FRA Kit+ Testing Operator)	Per Equipment (Reactor/Transformer) with test report	30	15160	454800
8	Hi-pot kit(60/75KV ac)	Per day	20	7773	155467
9	Battery Discharging Resistor	Per Set	30	4120	123600
10	Transformer Winding Resistance Kit	Per Set	30	3347	100400
11	Transformer Ratio test kit	Per Set	30	2965	88960
Total Amount for ( C ) in ( Rs.) -					4121793

Total Cost for ( A+C) in ( Rs.)		63,47,793
Note:		
1	Charges in respect of instrument specified at sl. No. 4,5,7,8,9 will be payable for days instruments are actually used at site.	
2	Above prices are excluding GST.	
3	BHEL will pay to & fro train fare (if levied) in respect of instruments	
4	All cabling and terminations should be done beforehand. However correctness of terminations should be verified by testing agency through continuity. Any mistakes on behalf of terminations or any modifications required should be attended by TBG.	

**(ANNEXURE-II)**

**TRANSMISSION BUSINESS GROUP  
(SUB- CONTRACTS MANAGEMENT)  
TBG – NOIDA**

**PRICE SCHEDULE FORMAT**

**SUB: RATE CONTRACT FOR TESTING AND COMMISSIONING WORK OF SWITCHYARD  
EQUIPMENTS AND BAYS AT VARIOUS PROJECT SITES FOR BHEL (TBG).**

- (a) I/ We hereby agree to execute the above work at ----- % (in figure) -----  
----- (in words) Above/ Below/At Par the rates of items given in BOQ (Annexure-I) of  
subject tender.

**NOTE:**

1. In this annexure the tenderer shall quote a percentage above or below or at par the rates shown in the BOQ (Annexure-I). The percentage quoted shall be clearly written both in words and figures In case of discrepancy in rates in figure and words, the minimum will be taken into account by BHEL.
2. The quoted percentage will apply to the individual items of BOQ (Annexure-I) uniformly.

Date:

Place

Signature of tenderer

Name & Designation of authorized person(s) with seal

**ANNEXURE-III****SUMMARY OF PRICES FOR RATE CONTRACT FOR TESTING AND COMMISSIONING WORK OF SWITCHYARD EQUIPMENTS AND BAYS AT VARIOUS PROJECT SITES FOR BHEL (TBG)**

<b>Sl No.</b>	<b>Description</b>	<b>Amount (Rs.)</b>
1 (a)	Total amount as per the rates in BOQ for testing and commissioning work for Domestic Projects (Sl. No. A, B & C of Annexure-I)	63,47,793
2	Value of percentage above/below/at par (As indicated in Price Schedule Format, Annexure - III) applicable to the total amount of testing and commissioning (Sl. no. 1 above)	.....% above/below/ at par
3	<b>Total amount for testing and commissioning after consideration of percentage above/below/ at par.</b>	
4	<b>Total amount in words after consideration of percentage above/below/ at par:-</b>	