

Annexure I

Scope of work for Operation of 11kV main receiving station at 15/83 building and its associated sub-stations in the factory area for two years period.

S. No.	Description	Qty.	Units
1	<p>Operation of 11 KV Main Receiving Station at 15/83 Bldg. and its associated Substations at BHEL, R.C. Puram, Hyderabad on round the clock Shifts continuously for 24 months period including Sundays, holidays.</p> <p>Quantity - 626 operations for two years (one operation = 7 Skilled man-days) The list of items to be operated and monitored which are located at various Substations (60 Nos.) are furnished hereunder :</p>	626	Operations
a)	Recording of data pertaining to Booster Transformer: The party has to visit 10 Panel room, Booster Transformer once in two hours and record the data as per the log sheets for further analysis.		
b)	Switching ON and OFF of HT Breakers: During the faults MRS & Substation Breakers are to be switched ON &OFF to feed the supply to concerned blocks. There are 203 Nos. of HT Breakers which need the above operation.		
c)	Switching ON and OFF of LT Breakers: During the faults Substation LT Breakers are to be switched ON &OFF to feed the supply to concerned feeders. There are 332 Nos. of LT Breakers which need the above operation.		
d)	<p>Switching ON & OFF of capacitor banks at MRS to maintain the P.F at 0.95. Every hour we have to monitor and operate the equipment to suit the requirements.</p> <p>No. of Capacitor banks Existing = 4 Sets No. of operations per day = 4</p>		
e)	<p>Switching ON & OFF of capacitor banks at Substations to maintain the P.F at 0.9</p> <p>No. of LT Capacitor banks existing = 40 Nos. No. of operations per week = 1 No.</p>		
f)	<p>Checking the Tripping units: Condition of the tripping units are to be checked once in every shift for effective operation of tripping relays.</p> <p>Total No. of Tripping units = 50 Nos. No. of operations per day = 3</p>		
g)	<p>Checking of S/S relays: Substations are to be visited on weekly basis and each and every relay to be checked for tripping.</p> <p>Total No. of relays = 554 Nos.</p>		
h)	<p>Switching ON & OFF Transformers: Transformers are to be switched ON and OFF to feed the supply to concerned Blocks whenever breakdown/maintenance problems occurs.</p> <p>Total No. of Transformers =75 Nos.</p>		
i)	<p>HT meter readings at blocks: HT meter readings are to be taken once in a shift at various blocks viz. 01, 02,04,06,51, and service plants etc.</p> <p>No. of HT panels = 100 Nos. No. of operations per day =3 HT meter reading at MRS for every one hour. No of panels =25 Nos.</p>		