

ANNEXURE-A
BOQ CUM PRICE FORMAT FOR ELECTRICAL LAB EQUIPMENT
TENDER ENQUIRY NO. PE/PG/SG5/E-4625/14 DT. 03.11.14
2X660 MW SURATGARH STPS UNIT 7 & 8

S. NO	BOQ	ITEM DESCRIPTION	QUANTITY	Make & Model	Unit Ex-works Price (Rs.)	Total Ex-works Price (Rs.)	ED @ 12.36 % incl cess on self manufactured items	CST@ 2% against From-C/E1 or VAT@....%, whichever is applicable	Freight incl service tax @....% of total ex-works	Total FOR Price (Rs.)
	ITEM CODE									
1	556-11010-A	Insulation tester (Megger) 5 KV	1							
2	556-11003-A	Insulation tester (Megger) 2.5KV	1							
3	556-11002-A	Mega ohmmeter 10 kV	1							
4	556-11036-A	Clip on ammeter AC	2							
5	556-11037-A	Clip on ammeter DC	2							
6	556-11239-A	DC Clamp on ammeter	1							
7	556-11053-A	Digital ductor ohmmeter	1							
8	556-11240-A	Analog Multimeters (AVO meters)	5							
9	556-11096-A	Interfacial Tension Meter	1							
10	556-11011-A	AC Milli-ammeter	2							
11	556-11175-A	Substandard Frequency Meter	1							
12	556-11059-A	Digital Time Counter	2							
13	556-11214-A	HV discharge rods up to 39.5 kV	3							
14	556-11215-A	HV discharge rods From 132 kV to 420 kV	3							
15	556-11127-A	Portable Cable Core Identification Kit	2							
16	556-11160-A	SF6 & Halogen Gas Detector	2							
17	556-11093-A	Hydrogen Gas Detector	2							
18	556-11056-A	Phase Sequence Indicator	3							
19	556-11143-A	Portable Recording Meters	2							
20	556-11216-A	Moving Iron Ammeters (0-5A range)	2							
21	556-11217-A	Moving Iron Ammeters (0-100A range)	6							
22	556-11148-A	Portable Selective Level Meter with Tracking level Generator and Impedance Return Loss Measurement	1							
23	556-11241-A	Selective Level Oscillator	1							
24	556-11242-A	Precision Portable Digital Frequency meter	1							
25	556-11152-A	Power Factor Meter	2							
26	556-11139-A	Portable Capacitance Meter	2							
27	556-11203-A	Vibration/ Sound Level Meter								
27.1		Vibration Level Meter	1							
27.2		Sound Level Meter	1							
28	556-11058-A	Digital tachometer (Non-Contact type) Photo electric Optical	2							
29	556-11201-A	Universal Bridge (LCR-Q-Bridge)	1							
30	556-11157-A	Relay Repair Tool Kit	3							
31	556-11218-A	Standard Current Transformer (50-1500A)	2							
32	556-11219-A	Standard Current Transformer (10-100A)	2							

Bidder's name , designation, signature , date company seal

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	ITEM CODE									
33	556-11171-A	Standard Potential Transformer	2							
34	556-11147-A	Primary Injection Set	1							
35	556-11220-A	Automatic relay test set (portable type) [Relay Secondary Injection Testing Set(0-100A)]	2							
36	556-11221-A	Automatic relay test set (portable type) [Relay Secondary Injection Testing Set (0-30A)]	1							
37	556-11033-A	Circuit Breaker Analyser	1							
38	556-11025-A	AutoTransformer (VARIAC) THREE PHASE								
38.1		4 Amps	3							
38.2		8 Amps	3							
38.3		28 Amps	3							
39	556-11063-A	Dual Trace Portable Storage Oscilloscope with camera (and associated PC & software) (0-100kHz)	1							
40	556-11136-A	Portable Moisture Meter	1							
41	556-11009-A	Insulation Tester (Megger) 500V	5							
42	556-11001-A	Insulation Tester (Megger) 1000V	2							
43	556-11226-A	Earth Resistance Testers (Four terminals)	2							
44	556-11229-A	High Voltage Testing Kit 10KVA (AC)	2							
45	556-11230-A	High Voltage Testing Kit 25KVA (AC)	2							
46	556-11035-A	Clamp on Wattmeter	1							
47	556-11243-A	DC Earth Fault Locator	2							
48	556-11244-A	Vibration Meter Cum Analyser	1							
49	556-11116-A	Portable digital Multimeters (True RMS type)	6							
50	556-11118-A	Analogue Multimeter (Portable)	3							
51	556-11126-A	Three Phase Sub Standard Wattmeter (Portable)	6							
52	556-11245-A	DC Milli-ammeter	2							
53	556-11232-A	DC Milli-Voltmeter	2							
54	556-11233-A	DC Moving Coil Micro ammeter (0-300 Microamps)	1							
55	556-11234-A	DC Moving Coil Milli ammeter (6-60 Milliamps)	1							
56	556-11055-A	Digital Phase Angle (Power Factor) meter	2							
57	556-11125-A	Platinum RTD Digital Temperature Indicator	1							
58	556-11135-A	Portable Light Intensity Meter (Lux Meter)	1							
59	556-11212-A	Battery Operated Insulation tester (Megger)	2							
60	556-11153-A	Precision Manual Scanning Radio meter	1							
61	556-11013-A	AC Voltage/ Current Standard	1							

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	ITEM CODE									
62	556-11024-A	AutoTransformer (VARIAC) SINGLE PHASE								
62.1		4 Amps	3							
62.2		8 Amps	3							
62.3		28 Amps	3							
63	556-11031-A	Cable Fault location set	1							
64	556-11123-A	Partial Discharge Test set (contact loss) Portable type	1							
65	556-11184-A	Thermal Image camera (portable)	1							
66	556-11060-A	Variable Frequency Source	1							
67	556-11186-A	Three Phase Shifter	1							
68	556-11167-A	Special Equipment for lighting Arrestors (Both gapped & gap less)	1							
69	556-11048-A	Dew Point Meter	1							
70	556-11202-A	Vacuum Measurement Meter	1							
71	556-11213-A	AC Milli-Voltmeter	2							
72	556-11097-A	Kelvin Double Bridge	2							
73	556-11246-A	Microprocessor based Automatic Pensky Martin Flash point apparatus	1							
74	556-11247-A	Microprocessor based Gas Chromatograph and Data Station	1							
75	556-11248-A	Microprocessor Based dielectric Strength Analyser	1							
76	556-11134-A	Microprocessor based Coulometric Kurl Fischer Monitor Meter	1							
77	556-11181-A	Microprocessor based Dielectric Constant & Tan Delta Meter	1							
78	556-11249-A	Infrared Distance Temperature Indicator	2							
79	556-11015-A	Acidity Test Set for Transformer Oil	1							
80	556-11194-A	Buchholz relay Gas Analyser	1							
81	556-11250-A	Buchholz relay Testing Kit	1							
82	556-11251-A	Oil resistivity test kit	1							
83	556-11252-A	Non Contact radiation pyrometer	1							
84	556-11253-A	Digital Voltmeter	2							
85	556-11051-A	Digital Frequency Meter	1							
86	556-11188-A	Tong Tester (Digital Clamp on ammeter and Voltmeter)								
86.1		10 μ A- 5A	5							
86.2		1A- 10A	5							
87	556-11254-A	Cathode Ray Oscilloscope(Portable)	2							
88	556-11255-A	Multichannel high speed Ultraviolet Oscillograph for testing of AVR's, ACB's	1							
89	556-11030-A	Circuit breaker Contacts Resistance Measurement	1							

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	ITEM CODE									
90	556-11256-A	Non Magnetic Surveyors Umbrella	1							
91	556-11107-A	Mercury in glass thermometer	1							
92	556-11158-A	Rheostats								
92.1		2A/1000 ohm	4							
92.2		8A/200 ohm	4							
92.3		5A/100 ohm	4							
92.4		12A/18 ohm	4							
93	556-11042-A	Shunts								
93.1		75A , 50mV	1							
93.2		150A , 50mV	1							
93.3		300A , 50mV	1							
94	556-11104-A	Loading Transformers	1							
95	556-11257-A	Phase Shifting Transformers	1							
96	556-11258-A	Portable Computerized combustible gas analyser	1							
97	556-11114-A	Motor Checker	2							
98	556-11259-A	DC variable power supply source	1							
99	556-11260-A	Vacuum tester	1							
100	556-11133-A	High Voltage Detector	1							
101	556-11261-A	Tool Kit for instrument mechanic	6							
102	556-11040-A	Computerized relay test bench	1							
103	556-11045-A	Decade resistance box (for testing & calibration of rotor E/F relay)	1							
104	556-11262-A	Single phase transformer for checking of knee point voltage for CT	1							
105	556-11263-A	Milli ohm meter (Suitable for measuring the winding resistance of generator, motor, Transformers)	1							
106	556-11082-A	Harmonic Analyser	1							
107	556-11085-A	HV DC test set (0-100kV DC)	1							
108	556-11264-A	HV measuring probe (0-66kV)	1							
109	556-11265-A	Telescopic earthing rod (Suitable for earthing the HV & EHV system)	1							
110	556-11266-A	CT analyser test set (Portable) for measurement of Ratio, knee point, IR value and polarity	1							

NOTE :-

- 1) DEMONSTRATION CHARGES SHALL BE AS PER ANNEXURE-B.
- 2) EQUIPMENT TO BE SUPPLIED ALONG WITH ESSNTIAL ACCESSORIES FOR SUCCESSFUL OPERATION OF EQUIPMENT AT SITE .i.e. CLAMPS, CLIPS,LEADS ,CARRYING CASE etc.
- 3) ALL EQUIPMENTS SHALL BE SUPPLIED WITH VALID CALIBRATION CERTIFICATE, WHEREVER APLLICABLE.
- 4) IN ADDITION TO NORMAL PACKING OF THE EQUIPMENTS, THE EQUIPMENTS TO BE PROPERLY PACKED IN GALVANIZED SHEET STEEL TRUNK/BOX WITH PROPER LOCK & KEY ARRANGEMENT.

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ANNEXURE-B
TENDER ENQUIRY No. PE/PG/SG5/E-4625/14 DT. 03.11.14
ELECTRICAL LAB EQUIPMENT FOR 2X660 MW SURATGARH STPS UNIT 7 & 8

**SCHEDULE OF PRICES FOR DEMONSTRATION & HANDING OVER TO
BHEL / BHEL'S CUSTOMER**

SL NO.	DETAILS	ACTIVITY	UNIT CHARGES
1	LUMP SUM ALL INCLUSIVE CHARGES PER VISIT FOR EXPERIENCED/ CAPABLE ENGINEER (EXCEPT DAILY CHARGES)	1 VISIT	Rs. 20000/-
2	LUMP SUM ALL INCLUSIVE CHARGES FOR EXPERIENCED/CAPABLE ENGINEER PER DAY	1 DAY	Rs. 6000/-

Total Charges = (Charges as per Sl no. 1) + [No. of days(*) x Unit Chagres as per Sl no. 2]

* To be certified by BHEL site

Note: Visits shall be applicable as per requirement by BHEL(to be certified by BHEL site)
Bidder has to depute their representative at site for demonstration as & when called by BHEL at above noted charges.

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