



BHARAT HEAVY ELECTRICALS LIMITED
Heavy Power Equipment Plant, Ramachandrapuram,
Hyderabad - 502 032. INDIA.

Indent no:	
Enquiry No. :	
Due Date :	
Supplier Qtn. No.:	
Date :	

Contact person from Purchase Dept:

Name:
Designation
Phones :
e-mail:
Purchase Dept. :

Specification cum Compliance certificate for THE SUPPLIER FOR SUPPLY OF 500 KVA, 50 KV AC High Voltage test kit-1 No.

1. Vendor must submit complete information against each clause.
2. The Vendor should fill " Offered" column in compliance to specified requirement and also "Deviations" Column, where there is a deviation from the requirement. Duly filled in specification cum Compliance certificate shall be submitted along with the offer. Inadequate, Incomplete , Ambiguous, or unsustainable information against any one of the clauses of the specification/ requirement shall be treated as non-compliance.

ADDRESS OF THE SUPPLIER :

TELEPHONE NOS.:

TELEPHONE NOS.:

FAX NOS.:

FAX NOS.:

E-MAIL ADDRESS :

E-MAIL ADDRESS:

Sl. No.	Description	Offered	Deviations	Remarks
1	Purpose : The AC high voltage test kit is for use in testing of Generator Rotors and exciter winding during manufacturing and final performance tests			
2	Technical Specifications :			
2.1	Input Voltage: 415 V AC, 50 Hz, 250 A, Two phase			
2.2	Output capacity : 500 KVA (Single phase)			
2.3	Output Voltage : 50 KV, 50 Hz (Continuously variable from 0 to 50 KV Manually)			
2.4	Output current : 10 A			
2.5	Duty Cycle : 15 minutes On (Continuous)			
2.6	Input Circuit breaker or Push button for Input ON and HT ON push button shall be provided.			
2.7	Operating temperature : Upto 50 °C			
2.8	Cooling Media : Air			
3	Controls :			
3.1	Input ON			
3.2	HT ON			
3.3	Zero Interlock Start provision			
3.4	External interlock provision			
3.5	Overload tripping : Tripping shall be adjustable at various currents from 10% to 110% of load			
4	Indications :			
4.1	Mains power Indicator			
4.2	HV ON Indicator			
4.3	HV Trip Indicator			
5	Measurements:			
5.1	Digital Voltmeter (For High Voltage) : ± 1% accuracy			
5.2	Digital Ammeter (For Output Current) : ± 1% accuracy			
5.3	Digital Voltmeter (For Input Voltage) : ± 1% accuracy			
5.4	Digital Ammeter (For Input Current) : ± 1% accuracy			
5.5	All the measurements should be continuously displayed on the control panel through out the conductance of the test.			
5.6	External measurement provision for current and voltage shall be provided			
5.7	Digital Count Down Timer to be provided.			

N.Sudhindra Rao
DGM / Testing (BT)

K.Chitti Babu
Sr.Manager / Testing (GT)

P.Chandrasekhar
Sr.Engineer / Testing (EM)

Dilip Kr. Halder
DGM / Testing (EM)

Sl. No.	Description	Offered	Deviations	Remarks
6	General:			
6.1	Protection: The unit will have necessary switches, fuses, indicating lamps, push buttons operated contactor etc. for efficient operation of the set. i) Fast acting DC relay will have settings such that when the current exceeds preset Amps. The main contactor shall trip i.e. back up protection. ii) Over Voltage Protection. iii) Zero Start interlocking to avoid to ensure the HT shall not actuate in case the variac is not at zero position. iv) Warning lights & audio alarm with 'ON-OFF' switch.			
6.2	Regulating Transformer: The Regulating Transformer shall be motorised, complete with micro switch to stop the motor at both ends, minimum-maximum position indicator shall also be provided. The Regulating transformer shall be complete with ON-OFF Switch, Main Contactor, drain valve, lifting hook, oil level indicator and caster wheel.			
6.3	Reactor: Motorised moving coil and fixed reactor shall be provided for generating inductive current for canceling capacitive current to reduce the input current to 20% i.e. (250 A).			
6.3	Main HV transformer: Shall be made with high quality CRGO lamination, double coated enamelled wire shall be used for secondary winding and main Transformer will be an oil cooled step up type pecially designed to suit the requirement of HT testing. The transformer HT winding will have one end at earth potential. The unit shall be complete with oil drain valve, oil filling hole, lifting hook, casted wheel. The HT shall be brought out on epoxy oil filled bushing and LT shall be connected to the input stripsto 20% i.e. (250 A).			
6.4	Discharge Rod of Telescopic type with extended length of 7.5 meter shall be provided. An earthing cable of 15 meter length @ 10 sq. mm shall be supplied with the unit.			
6.5	The kit shall be supplied with all accessories for conducting high voltage test			
7	Accessories/spares optional : Supplier to specify and quote seperately.			
8	Documents & manuals : Three numbers of operating and service manuals along with complete internal wiring and component list shall be supplied.			
9	Commissioning :The supplier shall commission the equipment at BHEL, Hyderabad at free of cost.			
10	Acceptance of Equipment : The equipment will be accepted by BHEL upon satisfactory demonstration of all its features and commissioning at BHEL.			
11	Delivery :Supplier shall quote definite delivery period.			
12	Packing : Rigid packing shall made for all items of equipment, all accessories and other supplied items to avoid any damages/loss in transit.			
13	Only those vendors, who have supplied 2 No's of AC High Voltage Test Kits of similar or higher rating (on the Date of opening of tender) and such supplies are working satisfactorily for more than one year after commissioning (On the Date of Opening of tender), should quote. However, if vendor had supplied AC High Voltage Kits to BHEL, then it should be working satisfactorily for more than six months after its commissioning and acceptance (On the Date of Opening of tender) in BHEL. Vendor shall furnish reference list of such customers with contact person/s' details and also order copies. This is required from all Vendors for qualification of their offer			

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