

Date:
Due Date:
Supplier Qtn. No.:
Date:

TENDER DOCUMENTS TO BE FILLED BY THE SUPPLIER FOR SUPPLY OF VISCOMETER FOR LABS

ADDRESS OF THE SUPPLIER:						
TELEPHONE Nos:						
FAX Nos.:						
E-MAIL ADDRESS						
		Name of the Part	Description of BHEL Specification	Offered	Deviation	Remarks
1.0	General requirements					
	1.1	Application	Viscometer is required for measurement of Viscosity of the Resins used in Electrical equipments. Suppliers shall confirm that the instrument which is offered will be suitable for this application.			
	1.2	Type of Instrument	Cone and Cylinder type			
	1.3	Principle of Operation	The principle of operation of the instrument shall be to drive a spindle (which is immersed in the test fluid) through a calibrated Spring. The viscous drag of the fluid against the spindle shall be measured by the spring deflection. Spring deflection shall be measured with a rotary transducer.			
	1.4	Description of the model offered	Vendor shall clearly mention the Model No. offered against this enquiry. Vendor shall offer only ONE model for this enquiry. <i>Note: If more than one model is offered then the technical offer will be rejected.</i>			
	1.5	Compliance with standards	Vendor to specify the National/ International Standard to which the offered instrument is complied to.			
	1.6	Calibration	Valid calibration certificate shall be supplied.			

2.0	Technical parameters				
	2.1	Range of viscosity	15 to 150 cps (Any instrument offered covering this range will be acceptable. Vendor to offer the viscosity range for the offered instrument)		
	2.2	Accuracy of measurement of viscosity	$\pm 1.0\%$ of full scale range		
	2.3	Repeatability	$\pm 0.2\%$ (on full range)		
	2.4	Sample quantity	Quantity of sample required for testing shall be not more than 15ml (Incase any accessories are required to fulfill this requirement, same shall be quoted inclusive and not extra)		
	2.5	Speed range	0.01 to 100 rpm		
	2.6	No. of Speeds	Vendor to specify (however specifically covering rpm 15, 20,30,50 and 60)		
	2.7	Temperature sensing range	0 to 100 °C		
	2.8	Temperature Accuracy.	± 1 °C (Calibration certificate shall be provided)		
	2.9	Display	<p>Data displayed on viscometer screen shall be:</p> <ul style="list-style-type: none"> (1) selected speed, (2) selected spindle, (3) viscosity (cp), (4) shear stress, (5) shear rate, (6) torque% (7) Temperature. <p>The units of measurement shall be convertible automatically through inbuilt software system.</p>		
	2.10	PC connectivity	The offered instrument shall have inbuilt software for controls and operations through PC. Suitable software shall be provided to BHEL along with the instrument.		

3.0	Temperature Bath		Viscometer shall be supplied along with a “Temperature bath” having following technical features:			
	3.1	Compatibility	Temperature bath shall be connected to the main viscometer for measuring viscosity of fluids at various temperatures. Suitable connections to be provided for circulation of the liquid through the viscometer			
	3.2	Temperature range	20 °C to 80 °C			
	3.3	Tank capacity	Minimum 6 Litres			
	3.4	Heating mechanism	Electrical			
	3.5	Temperature sensors accuracy	Within ± 1.0 % (Calibration certificate shall be provided)			
	3.6	Digital display of bath temperature	Through LED			
	3.7	Pump capacity	To be informed by the vendor			
	3.8	Alternative for Temperature bath	Supplier may offer any other alternative feature of their viscometer which meets the requirements mentioned under 3.2 to 3.7 above.			
4.0	Operating Environment					
	4.1	Temperature	0 °C to 40 °C			
	4.2	Humidity	20% to 80%			
5.0	Standards fluids for calibration with valid calibration certificate (must be quoted extra)		500 ml of 10 cp standard fluid			
			500 ml of 50 cp standard fluid			
			500 ml of 100 cp standard fluid			
6.0	Accessories		A suitable capacity stabilizer shall be provided along with instrument (price shall be quoted inclusive)			
7.0	Inspection		The supplier shall test the equipment as per the standard inspection and test procedure of the company and demonstrate the capabilities included in this specification (including operations through software and PC) in the presence of BHEL representatives before dispatch.			

8.0	QUALIFYING CRITERIA		Supplier shall fulfill the following conditions with out which their offer will not be considered			
	8.1	Experience	The supplier shall have a minimum experience of 5 years in manufacturing similar type of Viscometers. List of viscometers (its model no.) mentioning the date of supply and customer name shall be submitted along with the offer.			
	8.2	Past data of the same model as quoted in the present enquiry	The supplier shall submit a customer's list (only Indian customers) for the model quoted including the names of the user contact persons, telephone numbers and e- mail addresses. Performance of supplied viscometers may be verified by BHEL at its option.			
	8.3	Authorisation certificate	Incasse the OEM representatives are submitting the offer then same shall be submitted along with the authorisation certificate from OEM for sales and service			
	8.4	After sales service	Supplier shall quote the AMC (with two periodical visits and one breakdown visit per year as per scope of work specified in Annexure A) for a period of minimum five years after completion of warranty period. The price quoted for AMC will be considered while evaluating for the lowest offer. However, order will be placed for the amount quoted for the equipment only. AMC charges will be paid proportionately after completion of each visit. AMC Charges shall be quoted extra (along with the price bid only).			
	8.5	AMC agreement.	Vendor to confirm that AMC agreement will be signed within 15 days from the date of the placement of P.O. by BHEL.			
9.0	Training		Training on operation for a period minimum 2 days for 2 persons at suitable service centre or manufacturer works.			
10.0	Safety		The equipment shall fulfill safety regulation and guidelines			
11.0	Commissioning		Installation and Commissioning shall be carried out at BHEL works			
12.0	Spares		Spares for 2 years of trouble free operation shall be quoted.			
13.0	Warranty		24 months from date of commissioning			
14.0	Operating Instructions Manual		2 sets of operation and maintenance manuals in soft and hard copies shall be provided			

SERVICE CONTRACT AGREEMENT

AGREEMENT NO: M&S/P&C/2012/xxx DT: xxxx

Contract amount Rs.xxxx/- + Service Tax

Work: for Viscometer make –

xxxx {Asset No: xxxx} at Chemical Lab – 29 bldg

THIS AGREEMENT MADE THIS xx DAY OF xxxx BETWEEN:

M/S xxxx a Society Registered under Societies Registration

Act/firm/company, having its Registered Office at above premises, represented by its Service Executive, hereinafter referred to as “Contractor” (which expression shall unless repugnant to the Context or meaning thereof be deemed to mean and include its successors and permitted assigns) Of the first part.

And

Bharat Heavy Electricals Limited, a Company incorporated under the Companies Act 1956, and having its registered office at BHEL House, Sire Fort, New Delhi- 110049 through its unit at Ramachandrapuram, Hyderabad - 502 032 hereinafter referred to as "COMPANY", (which expression shall unless repugnant to the context or meaning thereof be deemed to mean and include its successors and permitted assigns) of the Second part.

WHEREAS

- A. the BHEL desires to engage a contractor to undertake "for Viscometer) Model xxx No xxx at Chemical Lab – 29 bldg"
- B. M/S xxxx (Contractor) which is an agency has agreed to undertake the aforesaid work on job contract basis in BHEL.

NOW THEREFORE IT IS AGREED BETWEEN THE PARTIES:

The terms and conditions of this agreement are stipulated in Annexure - I, Terms and Conditions to LOI which forms part of this agreement.

IN WITNESS WHERE OF the parties hereto through their authorized Representatives have signed these presents on the day, month and year mentioned above.

And whereas in pursuance of the said Contractor's offer Ref. xxxx in so far as it relates to the said work being, the company has decided to give the aforesaid work to the said contractor as per its LETTER OF INTENT Ref.: : xxxx

Whereas the said contractor has agreed to execute the said work not exceeding **Rs.xxxx/- (Rupees xxxx) plus service tax as applicable** herein after called "the contract amount" in all respects to observe and fulfill all the provisions and conditions on the part of the contractor, contained in or reasonably to be inferred from the contractor's said quotation, the company's said letter if intent and the schedule of work, herein after called "contract documents which shall form part of the agreement.

Now these present witness that in consideration of the said contract amount to be paid at the time and in the manner set forth in these present, as also of agreement of the said contractor for carrying out the said work, subject to the stipulation hereinafter expressed, the parties here to hereby agree as follows:

1 This contract shall come effect from th date of the Letter of Intent Ref: xxxx and the Service contract shall remain in force for a period of FIVE YEARS from the date of entering into this contract i.e., DT: xx and date of completion: xx .

2. The work executed under the contract is guaranteed by the contractor for a period of NIL Months from the date of completion in all respects and the contractor shall make good any of decects, faults and imperfections noticed during the said guarantee period.

3. If the contractor fails to commence the work as stipulated in the agreement and or if the progress of works is not satisfactory, the agreement is liable for cancellation after informing the contractor.

4. TERMS OF PAYMENT:

Total Service visits: 10 preventive maintenance visits (once in six months) and 5breakdown visits

VISIT CHARGES: Rs xxxx/- plus applicable taxes per each preventive maintenance visit

Payment will be released after each preventive maintenance visit and submission of Invoice along with service visit voucher, necessary report for satisfactory completion of work/ servicing Should be endorsed on bill by concerned lab Executive.

5. That all orders, letters, notices etc, to be given or sent under this contract shall be in writing, type script or printed and if sent by registered post to the respective addresses of the parties given herein, shall be deemed to have been served on the party concerned with when in the normal course the same would have been delivered to it and in case any such notice or order is given to the contractor as aforesaid, they shall comply with or carry out the same promptly.

6. ARBITRATION:

Any dispute or claim arising out of or in relation to this contract including any dispute or difference relating to the validity, performance or breach there of, shall be settled and decided by Arbitration in accordance with the rules then obtaining of the Arbitration Tribunal of the Federation of Andhra Pradesh Chambers of Commerce and Industry, Hyderabad and the award of the Tribunal shall be binding on the parties thereto.

7. That in respect of any suit or other legal proceeding arising under or relating to this agreement, the courts at Hyderabad and Sanga Reddy only shall have Jurisdiction.

8. That the said work to be executed under this contract shall be executed under the direction and subject to the approval in all respects of the Engineer-in-charge of the work, for the time being, who shall be entitled to direct at what point/s and in what manner it is to be commenced and from time to time carried on.

9. That every endeavor has been made to avoid any error which can materially effect the basis the tender and the contractor shall take upon himself and provide for the risk of any error which may subsequently be noticed and shall make a subsequent claim on account thereof.

10. Safety Measures:

Safety of the equipment while in servicing is sole responsibility of the contractor.

11. That it is further mutually agreed between the parties that non exercise of any of the powers or rights conferred on the authorities of the company will not in any manner constitute a waiver there of and the liability of the contractor under this contract in any such case either for past or future compensation shall remain intact and unaffected.

For and on behalf of Contractor

(Authorised Signatory)
(Affix seal of the contractor)

(Name & Designation)

WITNESS: 1

1. Signature
2. Designation
3. Address

For and on behalf of
Bharat Heavy Electricals Limited
R.C.Puram, Hyderabad Unit

(Authorised Signatory)
(Affix seal of the Unit)