

ANDREW YULE AND COMPANY LIMITED

(A GOVERNMENT OF INDIA ENTERPRISE)

Electrical Divn/Transformer & Switchgear unit
5/346, Old Mahabalipuram Road, Perungudi,

CHENNAI : 600 096

Telephone : 24960595 (5 Lines)

E-mail : atepandian@andrewyule.com

Fax : 91-044-24960903

sivaraman@andrewyule.com

sendhil@andrewyule.com

Tender No : T-13/15-16

TENDER DOCUMENTS FOR

TESTING EQUIPMENTS

SI.No.1) CAPACITANCE AND TAN DELTA TEST SET

SI.No.2) INTER FACIAL SURFACE TENSION TESTER

Cost of Tender documents : Rs. 500/- (Rupees Five Hundred only)

EMD

Rs: 20,000/ (Rupees Twenty Thousand only)

LAST DATE FOR SUBMISSION OF TENDER : 20.01.2016 up to 10.45 AM

Date of Tender opening : 20.01.2016 at 11.00 A.M.

Bidders are requested to be present at the time of tender opening

A) GENERAL CONDITIONS :

1. M/s. Andrew Yule & Co. Limited (hereinafter referred to as the "Buyer) 5/346,Old Mahabalipuram Road, Perungudi, Chennai – 600 096. invites separate sealed tenders for following TESTING EQUIPMENTS:-

Sl.No.1) CAPACITANCE AND TAN DELTA TEST SET

Sl.No.2) INTER FACIAL SURFACE TENSION TESTER

Period of Completion : 6 Months

2. Tender Document can be downloaded from our Website: www.andrewyule.com (or) can be obtained from Manager-Materials ,Andrew Yule & Co.Ltd., Chennai Division, unit,5/346,Old Mahabalipuram Road, Perungudi, Chennai-600 096 on payment of Rs.500/- by A/c payee DD in favour of Andrew Yule & Co.Ltd., (or) by cash.

3. Those who have downloaded the tender documents from our website should enclose a DD in favour of Andrew Yule & Co.Ltd payable at chennai for a sum of Rs.500/- towards tender fee and the same should be enclosed in the Techno-Commercial Bid. Offers received without tender fee will be rejected.

4. This is a two part bid : **PART 1** consists of **TECHNO – COMMERCIAL BID**
PART 2 consists of **PRICE BID**

5. Tenders must be submitted in two separate sealed cover, one for PART 1 super scribing "Tender for TESTING EQUIPMENTS T-13/15-16 - TECHNO – COMMERCIAL BID" due on 20.01.16 and another for PART 2 super scribing "Tender for TESTING EQUIPMENTS T-13/15-16 – PRICE BID" due on 20.01.16 should be addressed to M/s. Andrew Yule & Co.,5/346, Old Mahabalipuram Road, Perungudi, Chennai – 600 096.

Also DESCRIPTION OF TESTING EQUIPMENTS for which quoted shall be mentioned on the envelope.

Above terms are Accepted

Place :

Signature of the Tenderer with date & seal

Both these covers to be put in one sealed cover superscribing "Tender for TESTING EQUIPMENTS WITH DESCRIPTION OF THE EQUIPMENTS T-13/15-16 " should be addressed to M/s. Andrew Yule & Co., Ltd., 5/346, Old Mahabalipuram Road, Perungudi, Chennai –600 096.

Price bid for each item should be kept in separate covers. i.e., Individual sealed price bid cover for each item.

Stapled cover & Offers sent through E-MAIL or FAX will not be accepted. The completed Tender shall be deposited in the Tender Box kept at the office main entrance in the above address on or before 10.45 AM on 20/01/2016.

6. All tenders will be accepted up to 10.45 A.M on 20/01/2016 and the Part 1 of tender namely "Techno- commercial Bid" will be opened at 11.00 AM on 20/01/2016 in the presence of the tenderers or their authorized representatives who may choose to be present at the time of opening of the tender. If it turns to be a holiday same will be opened at 11.00 AM on next working day.

7. Part 1 of the sealed tender should be accompanied by an Earnest Money Deposit (EMD) in the form of Crossed Demand Draft drawn in favour of Andrew Yule & Co. Ltd. payable at Chennai.

For bidders already enlisted with AYCL- T&S Unit, having outstanding amount more than the EMD amount or who have already submitted the EMD against our earlier tenders or who have security deposit available with us, may apply for adjustment of the same . The total EMD should be as mentioned in the tender.

Bidders who are MSMED units may apply for exemption from furnishing EMD in lieu of EMD by making a specific request in writing and enclosing the necessary document in support of the same. For Bidders whose turnover is more than Rs: 50 Crores may apply for exemptions from furnishing EMD by attaching necessary documents to support the same.

If reason for non-submission of EMD or adjustment against the outstanding balance for EMD is not mentioned in Techno-commercial bid of tender, the tender will be rejected

Above terms are Accepted

Place :

Signature of the Tenderer with date & seal

8. The EMD so deposited will be held as part of the security deposit in respect of successful tenderer/s. The earnest money deposit of the unsuccessful tenderers shall be refunded without any interest soon after the decision of the tender is taken, which shall not take more than four months.
9. The earnest money will be forfeited in the case of successful tenderer if subsequently refuses to accept the contract or fails to commence operation within fifteen days from the date of receipt of the letter of acceptance by them prejudice to the tenderer being liable for any further loss or danger incurred in consequence by the Buyer.
10. The tenderer shall peruse carefully the General, Technical and Commercial and Price Bid, Outline Specifications etc. before the submission of the tender.
11. **All the documents shall be returned with the tender duly signed on every page as a token of acceptance of the condition.**
12. All the rates given in the tender should be written both in figures and in words. In case of any difference between the rates in figures and in words, the rates in words will prevail.
13. Any tender which proposes any other conditions of any description whatever, is liable to be rejected.
14. Should the tenderer find any discrepancy, omission, ambiguity or conflict in the documents forwarded or be in doubt as to their meaning and interpretation shall bring to the knowledge of the Manager (Materials) Andrew Yule & Co.Ltd, not latter than 7 days prior submission of the tender
15. The buyer reserves the right to accept or reject any or all the tenders or to waive any informality, minor deviation or omission without assigning any reasons whatsoever.
16. The acceptance of tender shall rest with the Buyer who does not bind himself to accept the lowest or any tender.
17. Tenders shall be valid for a period of 120 Days from the date of tender opening.
18. Tenderers should submit the completed check list in the techno-commercial bid as shown in Clause D.

Above terms are Accepted

Place :

Signature of the Tenderer with date & seal

B) TECHNO -- COMMERCIAL BID :

Techno – commercial bid should contain the following:

- 1) List of customers with contact details.
- 2) The Bidder/manufacturer of the testing equipment should be ISO 9001 certified. Proof should be enclosed.
- 3) In case of dealer/ distributor, manufacturer's authorization certificate should be enclosed.
- 4) Bidder's should have minimum 5 years experience in the manufacturing & supply of tan delta testing kit. Proof should be enclosed.
- 5) Bidder's should have supplied minimum 10 Nos of the offered testing equipment to various PSUs including EBs and Performance certificate should be enclosed.
- 6) Bidder's should have a registered Service Centre.
- 7) Bidder's should have tested the offered model for EMC and safety requirements as per relevant IEC (or) Equivalent standard.
- 8) Bidder's should have traceable calibration certificate. Please confirm
- 9) On being awarded the contract the operational manual / CD should be supplied along with the equipment. Please confirm.

10) EMD

The tender should submit EMD along with Techno-commercial bid of Tender, Rs: 20,000/-as per clause 7 of General conditions. Tenders received without EMD will be rejected and will not be opened.

For bidders already enlisted with AYCL- T&S Unit, having outstanding amount more than the EMD amount or who have already submitted the EMD against our earlier tenders or who have security deposit available with us, may apply for adjustment of the same /by extending the validity of BG available with us as EMD/security deposit. The total EMD should be as mentioned in the tender.

Bidders who are MSMED units may apply for exemption from furnishing EMD/BG in lieu of EMD by making a specific request in writing and enclosing the necessary document in support of the same. For Bidders whose turnover is more than Rs 50 Cr may apply for exemptions from furnishing EMD by attaching necessary documents to support the same.

If reason for non-submission of EMD or adjustment against the outstanding balance for EMD is not mentioned in Techno-commercial bid of tender, the tender will be rejected

Offers received without any of the above (1 to 10) will be rejected.

11) DELIVERY

Delivery time is essence of the contract and the work must be carried out with diligence strictly in accordance with the delivery schedule of 6 months from the date of LOI / order. If any work / delivery falls beyond the schedule, the buyer reserves the right to terminate the contract for the said work/equipment, without prejudice to his right under the contract to recover damages / get the work executed by another agency.

Above terms are Accepted

Place :

Signature of the Tenderer with date & seal

12) LIQUIDATED DAMAGES

Liquidated and ascertained damages as provided in the contract will be levied if the work is not completed in time at the rate of 0.5 % of price per week of delay with a ceiling of 5%. Any fraction of week also will be counted as one full week only.

13) PRICE

The Tendered Price should be firm, no variation in the tender prices will be allowed due to fluctuations in the market prices of any raw materials, plant consumables, labour or any other account. The Tenderer should quote for delivery of the equipment at our stores at Perungudi, Chennai –600 096.

14) EXCISE DUTY & SALES TAX

The Contractor will have to indicate the applicable rate of Excise Duty & Sales Tax in terms of percentage and quantum in the Price Bid. All the incidence of Taxes & Duties and applicable cenvat will be taken into consideration for the evaluation of Tender. No Taxes and Duties other than what is specifically mentioned in the Price Bid will be reimbursed.

15) GUARANTEE PERIOD

The equipment supplied should be guaranteed against all manufacturing defects, poor workmanship, defective raw material for a minimum period of 18 Months from the date of supply. During the period if the product is found defective due to any of the above reason you shall undertake to repair the same at FREE OF COST.

16) RISK PURCHASE CLAUSE:

The company reserve the right to impose risk purchase clause as " For delay in execution / supply we shall have every right to do the same through some other agency/s which shall deemed fit and the additional cost of the same (Incidental/Consequential) shall be to your account which with respect to our intimation or observation whatsoever

17) TRANSPORTATION

The equipment should be transported to our stores at perungudi, Chennai. The freight should be borne by bidder. However the freight amount to be indicated in the price separately.

18) TRANSIT INSURANCE

The equipment shall be insured to cover any risk during transit from your works .

Above terms are Accepted

Place :

Signature of the Tenderer with date & seal

19) SECURITY DEPOSIT

The EMD amount of the successful Bidder will be retained as security deposit towards the execution of the order and the same will be released after completion of order.

20) PERFORMANCE GUARANTEE

As a guarantee towards performance of the equipment 10 % of the Invoice value of equipment will be retained by the Buyer, till the equipment guarantee period is over.

Alternatively the tenderer can execute a bank guarantee in the format of the buyer for 10% value which shall be valid throughout the guarantee period with a claim period of another 3 months counted from the date of expiry of the equipment guarantee period or bank guarantee.

21) TERMS OF PAYMENT

- a) 90 % within 90 days from the date of receipt of equipment
- b) 10 % after guarantee period or against a performance bank guarantee.

22) LEGAL CONDITIONS :

Any contract entered against this tender will be as per the following legal condition

It is recorded that this purchase order / contract / agreement is executed and concluded by and between the parties hereto at premises No.5/346, Old Mahabalipuram Road, Perungudi, Chennai 600 096 and in the event any dispute arises out of this agreement between the parties only the appropriate Civil Court in the City of Kolkata shall have the exclusive jurisdiction to entertain, try and determine the said proceedings in exclusion of all other courts.

Above terms are Accepted

Place :

Signature of the Tenderer with date & seal

C) TECHNICAL SPECIFICATIONS

Sl.No.1) CAPACITANCE AND TAN DELTA TEST SET

Equipment	:	AUTOMATIC CAPACITANCE & TAN DELTA TESTER
Purpose	:	To carry out power factor tests on insulations
Type	:	Stand alone – to work without PC (or) laptop,
Model	:	Automatic, Digital , Portable on wheels
Range	:	a) Capacitance : 0 to 0.1 microfarad b) Tan delta : 0% to 100% c) Voltage : 0 to 12 kV d) Current : 0 to 100 mA continuous e) Standard : 100/200 pF, 12 kV
Accuracy	:	a) Capacitance : $\pm 0.2\%$ b) Tan delta : $\pm 2.0\%$ c) Voltage : $\pm 1.0\%$ d) Current : $\pm 1.0\%$ e) Standard : $\pm 0.5\%$
Resolution	:	a) Capacitance : ± 0.01 pF b) Tan delta : ± 0.00001 c) Voltage : $\pm 1.0\%$ d) Current : ± 0.1 mA e) Standard : $\pm 0.5\%$
Aux. Voltage	:	230 V $\pm 10\%$, 50 Hz $\pm 5\%$
Temperature	:	10 to 50 deg C
Humidity	:	up to 90% RH
Display	:	Minimum 4 digits, LCD, Simultaneous display of volt, capacitance, DF & current
Test set-up	:	Test unit, Power supply & in built std. capacitor should be assembled in a Compact Single Unit .

Minimum Provisions required

- 1) Zero start
- 2) Automatic interference suppression
- 3) HV Interlock
- 4) HV cutoff on overload/Short circuit
- 5) Spare External Interlock
- 6) Short Circuit Protection
- 7) Open Ground Protection with double ground connection
- 8) Over Temperature Protection
- 9) Built-in standard capacitor
- 10) Interface able with computer and Printer
- 11) Indication of level of Interference in % (or) mA
- 12) Indication of HV ON
- 13) Front Panel indication of test results
- 14) Manual data entry like equipment ref, temp, test date etc.,
- 15) Integrated single Unit for both HV supply and measuring unit
- 16) All operating controls at earth potential
- 17) Fixed connection between high voltage supply unit and measuring unit
- 18) Provision to be provided for lifting the Test Set.
- 19) Light weight transport case with wheels to be supplied
- 20) To Store/retrieve the test results

Minimum Accessories required

- 1) Calibrator 10 kV Capacitor with known capacitance and tan delta values
- 2) Required Interconnecting Cables for supply, interfacing and test leads including the followings:-
 - a) 1 no. of minimum 15m 10 kV test lead with clip/termination
 - b) 1 no. of minimum 15m low voltage test lead with clip/termination
 - c) 1 no. of minimum 2m for interfacing printer
 - d) 1 no. of minimum 2m for main supply
 - e) 2 nos. of minimum 15m for ground with clips/terminations
- 3) Software for temperature correction of test results
- 4) External temperature & Humidity indicator
- 5) Software to analyze capacitance values Vs voltage
- 6) Software to compare DF values with previous values
- 7) Transport cases

C) TECHNICAL SPECIFICATIONS

Sl.No.2) INTER FACIAL SURFACE TENSION TESTER

Equipment	:	INFACIAL SURFACE TENSIOMETER
Purpose	:	To measure the interfacial tension of transformer oils confirming to IS335/IEC60296 against water. To determine the force necessary to detach a planar ring of platinum wire from the surface of the liquid of higher surface tension that is upward from the water-oil surface.
Range	:	up to 70 mN/m (or) dyne/cm
Standard	:	IS 6104 & ASTM D-971
Type	:	Manual/Digital
Accessories	:	Glass containers min. diameter of 45 mm : 4 Nos. Platinum ring : 2 Nos.
Quantity	:	1 set
Documents	:	a) List of supplies to transformer manufacturing companies : Min one required b) Operating manual c) Guarantee Certificate

D) CHECKLIST

i) General

Description	Required	Offered	Remarks
Tender fee of Rs.500/-	Receipt No (or) to enclose		
EMD Rs:20,000/-	To enclose DD/MSME/Turnover Copy		
Techno-Commercial bid (Part 1) & Price Bid (Part2)	To submit Technical bids for one or more items in one cover & To submit Price bid for each item in separate sealed cover		
Tenders documents duly signed in every pages	To be returned		
List of customers	To be submitted		
Bidders should have a registered Service Centre.	To be submitted		
Bidder's should have minimum 5 years experience in the manufacturing & supply of tan delta test set	To be submitted		
Bidder's should have Tested offered model for EMC and safety requirements as per relevant IEC (or) equivalent standard.	To be submitted		
Bidder's should have supplied minimum 10 Nos of the offered testing equipment to various PSUs including EBs and Performance certificate should be enclosed.	To be submitted		

Above terms are Accepted

Place :

Signature of the Tenderer with date & seal

Description	Required	Offered	Remarks
The Bidder/manufacturer of the testing equipment should be ISO 9001 certified.	To be submitted		
In case of dealer/ distributor, manufacturer's authorization certificate to be enclosed	To be submitted		
Bidder's should have traceable calibration certificate.	To confirm		
On being awarded the contract the operational manual / CD should be supplied along with the equipment.	To confirm		

Above terms are Accepted

Place :

Signature of the Tenderer with date & seal

ii) Technical

Description	Required	Offered	Deviations, if any
SI.No.1) CAPACITANCE AND TAN DELTA TEST SET	As per tender specifications		
SI.No.2) INTER FACIAL SURFACE TENSION TESTER	As per tender specifications		

Above terms are Accepted

Place :

Signature of the Tenderer with date & seal

E) PRICE BID: A

Sl. No.	ITEM DESCRIPTION	Qty	Unit Price/ Rate	Total Price
A	CAPACITANCE AND TAN DELTA TEST SET BASIC PRICE			
1.	Packing Charges.			
2.	Transport from your works to our stores at Chennai.			
3.	Transit Insurance.			
4.	Excise Duty.			
5.	Sales Tax.			
6.	Any other taxes if any.			
7.				
	TOTAL			

Above terms are Accepted

Place :

Signature of the Tenderer with date & seal

PRICE BID: B

Sl. No.	ITEM DESCRIPTION	Qty	Unit Price/ Rate	Total Price
B	INTER FACIAL SURFACE TENSION TESTER			
1.	BASIC PRICE			
2.	Packing Charges.			
3.	Transport from your works to our stores at Chennai.			
4.	Transit Insurance.			
5.	Excise Duty.			
6.	Sales Tax.			
7.	Any other taxes if any.			
	TOTAL			

Above terms are Accepted

Place :

Signature of the Tenderer with date & seal