

ANDREW YULE & COMPANY LIMITED
(A Government of India Enterprise)
Chennai-Operation, Electrical Division
5/346 OLD MAHABALIPURAM ROAD
PERUNGUDI, CHENNAI: 600 096

TENDER DOCUMENTS FOR SUPPLY OF SWEEP FREQUENCY RESPONSE ANALYZER-SFRA

ANDREW YULE & CO. LTD. invites e-Tender under single stage two part system (**Part I: Techno-Commercial Bid and Part II: Price Bid**) for supply of Sweep Frequency Response Analyzer (SFRA), "**Scope of Work / Technical Specification**" as specified in this tender document.

Tender document may be downloaded from MSTC website www.mstcecommerce.com/eprochome/aycl. Corrigenda or clarifications, if any, shall be hosted on the above mentioned websites only.

We request you to submit your offer for the supply of Sweep Frequency Response Analyzer (SFRA)-1 No as per our enclosed Specification Annexure VII.

Any clarification or additional information if required, the tenderer should call on us to get those things clarified.

AYCL reserves the right to accept or reject any tender.

DELIVERY: Within 3 Months from the placement of our purchase order.

VALIDITY: Your offer should be valid for acceptance for a minimum period of 90 days from the date of tender opening.

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.

Schedule of Tender

1.	TENDER NO.	<u>T-13/2017-18</u>
2.	MODE OF TENDER	e-Procurement System Online submission of Part I - Techno-Commercial Bid and Part II - Price Bid through www.mstcecommerce.com/eprochome/aycl The intending bidders are required to submit their offer electronically through this e-tendering portal. No physical tender is acceptable by AYCL/MSTC
3.	E-Tender No. / Event No.	AYCL/Electrical Division CO/41/17-18/ET/126
4.	Date of publication of e-Tender through publication MSTC/AYCL websites and Central Public Procurement Portal	12.09.2017
5.	Date of availability of NIT to the Vendors for downloading	12.09.2017
6.	Earnest Money Deposit	<ul style="list-style-type: none"> • Earnest Money Deposit” of Rs.17,000 (Rupees Seventeen Thousand only) should be paid by thro’ NEFT/RTGS • Other document as described in Annexure II& III
7.	Date of Starting of e-Tender for submission of Online Techno-Commercial Bid and Price Bid at www.mstcecommerce.com/eprochome/aycl	12.09.2017-10.30 AM
8.	Date of closing of Online e-tender for submission of Techno-Commercial Bid & Price Bid at www.mstcecommerce.com/eprochome/aycl	25.09.2017 -11.30 AM
9.	Last date of submission/ uploading details of EMD & other documents at www.mstcecommerce.com/eprochome/aycl	25.09.2017 -11.30 AM
10.	Date & time of opening of Part-I (Techno-Commercial Bid)	25.09.2017 -11.45 AM
11.	Date & time of opening of Part-II (Price Bid)	To be intimated to the eligible vendor separately by email.

List of Annexure

Important Instructions for E-procurement -

Annexure-I

Terms& Conditions

Annexure-II

General Terms& Conditions

Annexure-III

Online Techno commercial terms

Annexure-IV

Price Sheet

Annexure-V

Compliance report

Annexure-VI

Technical Specifications

Annexure-VII

Important Instructions for E-procurement

This is an e-procurement event of ANDREW YULE & COMPANY LTD Ltd.

You are requested to read the Terms & Conditions (Annexure- II,III,IV) of this tender before submitting your online tender. Tenderers who do not comply with the Conditions with documentary proof (wherever required) will not qualify in the Tender for opening of Price Bid.

1. Process of E-tender:

A) **Registration:** The process involves vendor's registration with MSTC e-procurement portal which is free of cost. Only after registration, the vendor(s) can submit his/their bids electronically. Electronic Bidding for submission of Techno-Commercial Bid as well as Price Bid over the internet will be done. The Vendor should possess Class III signing type Digital Signature Certificate. Vendors are to make their own arrangement for bidding from a PC connected with Internet. MSTC is not responsible for making such arrangement. (Bids will not be recorded without Digital Signature).

SPECIAL NOTE: THE PRICE BID AND THE COMMERCIAL BID HAS TO BE SUBMITTED ONLINE AT www.mstcecommerce.com/eprochome/aycl

- 1) Vendors are required to register themselves online with www.mstcecommerce.com → e-Procurement → PSU / Govt. depts. → Register as Vendor under AYCL- Filling up details and creating own user id and password → Submit.
- 2) Vendors will receive a system generated mail confirming their registration in their email which has been provided during filling the registration form.

In case of any clarification, please contact MSTC/AYCL (before the scheduled time of the e-Tender).

Contact person (ANDREW YULE & COMPANY LTD):

- | | |
|--|---|
| 1. Mr. A T E Pandian
Manager (Materials)
Ph. No: (044) 2496-0793
Email: atepandian@andrewyule.com | 2. Mr Kingsley Rueben
Technical Assistant (EDP)
Mobile No: 91 9884446378
Email: reuben@andrewyule.com |
| 3. Mr. R.Tamilselvan
Asst.Manager (Materials)
Mobile. No: 91 9788520864
Email: tamilselvan@andrewyule.com | |

Contact person (E-Commerce, MSTC Ltd):

1. Mr. Arindam Bhattacharjee

Deputy Manager (E-commerce)

MobileNo: 09330102643

Email: arindam@mstcindia.co.in

2) Mr. Sabyasachi Mukherjee

Assistant Manager (E-commerce)

Mobile- 07278030407

Email: smukherjee@mstcindia.co.in

Landline: (033) 22901004

Ms Sumona Maity

Management Trainee (E-Commerce)

Mobile-09831155225

Email: smaity@mstcindia.co.in

System Requirement:

- i) Windows XP-SP3 or above / Windows 7 Operating System**
- ii) IE-7 or above Internet browser.**
- iii) Signing & Encryption type digital signature**
- iv) JRE 7 update 79 software to be downloaded and installed in the system. Security level should be medium**
- v) To enable ALL active X controls and disable 'use pop up blocker' under Tools → Internet Options → custom level (Please run IE settings from the page www.mstcecommerce.com once)**

2. Part-I: Uploading of EMD & other Documents:

Within specified Date & time the vendor must submit the documents as per the Annexure. (Annexure II & II (A))

Bidding in e-Tender:

- a.** No interest will be paid on EMD. EMD of the unsuccessful bidder(s) will be refunded by ANDREW YULE & COMPANY LTD. EMD to be paid along with the Document within the last date as mentioned in SOT.
- b.** The process involves Electronic Bidding for submission of Techno Commercial Bid as well as Price Bid.
- c.** The bidder(s) should submit their Techno Commercial Bids , upload payment details of tender fee, EMD & other documents and Price Bid through online in MSTC website www.mstcecommerce.com → e-procurement → Psu / Govt depts. → Login under AYCL → My Menu → Auction Floor Manager → live event → Selection of the live event.
- d.** The bidder should allow to run an application namely enApple by accepting the risk and clicking on run. This exercise has to be done twice immediately after opening of Bid floor. Then they have to fill up Common terms /Commercial specification and save the same. After that clicking on the Techno-Commercial bid, if this application is not run then the bidder will not be able to save / submit his Techno-Commercial bid.

- e. After filling the Techno-Commercial Bid, bidder should click 'save' for recording their Techno-Commercial bid. Once the same is done, the Price Bid link becomes active and the same has to be filled up and then bidder should click on "**Save**" to record their Price Bid. Then once both the Techno-Commercial bid & Price Bid has been saved, the bidder can click on the "**Submit**" button to register their bid.
- f. Vendors are instructed to use link in **My Menu** to **Upload Documents** in document library. Multiple documents can be uploaded. Maximum size of single document for upload is 5 MB.
- g. Once documents are uploaded in the library, vendors can attach documents through *Attach Document* link against the particular tender. For further assistance please follow instructions of vendor guide.
- h. In all cases, bidder should use their own ID and Password along with Digital Signature at the time of submission of their bid.
- i. During the entire e-tender process, the bidders will remain completely anonymous to one another and also to everybody else.
- j. The e-tender floor shall remain open from the pre-announced date & time and for as much duration as mentioned above.
- k. Techno-Commercial bid will be opened electronically on specified date and time as given in the NIT. Bidder(s) can download Technical Comparative statement.
- l. Price bid will be opened electronically on specified date and time given in the NIT. Bidder(s) can download Price Comparative statement.
- m. All entries in the tender should be entered in online Technical & Commercial Formats without any ambiguity.
- n. All electronic bids submitted during the e-tender process shall be legally binding on the bidder. Any bid will be considered as the valid bid offered by that bidder and acceptance of the same by the Buyer will form a binding contract between Buyer and the Bidder for execution of supply. Such successful tenderer shall be called hereafter **SUPPLIER**.
- o. It is mandatory that all the bids are submitted with Digital Signature Certificate otherwise the same will not be accepted by the system.
- p. Buyer reserves the right to cancel or reject or accept or withdraw or extend the tender in full or part as the case may be without assigning any reason thereof.
- q. No deviation of the terms and conditions of the tender document is acceptable. Submission of bid in the e-tender floor by any bidder confirms his acceptance of terms & conditions for the tender.
- r. Unit of Measure (UOM) is indicated in the e-tender Floor. Rate to be quoted should be in Indian Rupee as per UOM indicated in the e-tender floor/tender document.

E-tender cannot be accessed after the due date and time mentioned in NIT.

All notices / corrigendum and correspondence to the bidder(s) shall be sent by email only during the process till finalization of tender by ANDREW YULE & COMPANY LTD/MSTC LTD. Hence the bidders are required to ensure that their corporate email I.D. provided is valid and updated at the stage of registration of vendor with MSTC. Bidders are also requested to ensure validity of their DSC (Digital Signature Certificate).

Any order resulting from this open e-tender shall be governed by the terms and conditions mentioned therein.

No deviation to the technical and commercial terms & conditions are allowed.

ANDREW YULE & COMPANY LTD has the right to cancel this e-Tender without assigning any reason thereof.

The online tender should be submitted strictly as per the terms and conditions and procedures laid down in the website www.mstcecommerce.com/eprochome/aycl of MSTC Ltd.

The bidders must upload all the documents required as per terms of NIT. Any other document uploaded which is not required as per the terms of the NIT shall not be considered.

The bid will be evaluated based on the filled-in technical & commercial formats.

Bidders are requested to read the vendor guide and see the video in the page www.mstcecommerce.com/eprochome/mstc of MSTC Ltd. to familiarize them with the system before bidding.

**ANDREW YULE & COMPANY LIMITED
Chennai Operation, Electrical Division**

**General Information
Ref. Tender No.: T-13/17-18
(This document should be uploaded along with EMD)**

The applicants are required to furnish full information to the queries included in this form. In giving the particulars, the supporting documents/certificates as called for per queries at places, must be tagged with the application for evidencing the information furnished in the application.

1. Name of the firm in full :

2. Address, Telephone No.,
Fax No. & E-mail :
a) Address :

b) Telephone No. :

c) Fax No. :

d) E-mail ID :

3. Status of the organization :

4. Trade License No.
**(Please attach a photo
copy of the license)** :

5. Banker's name
(a) Name of the Bank :

(b) Name of the Branch :

(c) Account No. :

Note : A copy of Banker's Certificate to be attached.

6. GST Registration No.

7. I. T. Permanent Account No.:

8. Financial Capacity : Year (2015-2016)

(a) Fixed capital :

(b) Working capital :

I/we hereby certify that the particulars furnished by me/us above are true to the best of my / our knowledge and belief and mis-representations of facts will render me/us liable to my/our action as may be deemed fit by Andrew Yule & Co. Ltd. (Chennai Operation) & have the sole discretion to reject or accept my/our candidature.

(Signature of the Applicant)
Office Stamp/Seal.

Place :

Date ;

List of attachments:

The following documents are to be uploaded online at

www.mstcecommerce.com/eprochome/aycl

1. EMD : Rs.17,000/= *

* Bidders may request for exemption from submitting EMD (Refer details given in General terms & conditions).

2. Only Manufacturer or their authorized distributor with valid authorization letter should participate in this tender.
3. Manufacturer or their authorized distributor should have supplied to any government utility (or) transformer manufacturer supplying 132 kV class transformers. A copy of performance certificate from minimum two customers for successful working of quoted make & model should be enclosed.
4. Bidder should have their service centre in India.

OFFERS RECEIVED WITHOUT ABOVE WILL BE REJECTED.

GENERAL & TERMS AND CONDITIONS

- 1) EMD: Rs. 17,000.00 (Rupees Seventeen thousand only) should be paid by way of RGTS/ NEFT.

For bidders already enlisted with AYCL- Chennai Operation, having outstanding amount more than the EMD amount or who have already submitted the EMD against our earlier tenders or those who have security deposit with Andrew Yule may apply for adjustment of the same.

Bidders who are MSMED units may apply for exemption from furnishing EMD by making a specific request in writing and enclosing the necessary document in support of the same.

Bidders whose turnover is more than Rs: 50 crores may apply for exemption from furnishing EMD by making a specific request in writing and enclosing the necessary document in support of 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.

2) THE RIGHTS OF THE COMPANY

Bidders who have quote other payment terms & condition having financial implication will be loaded as per Andrew Yule's norms.

We reserve 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.

Our Bank details for making RTGS payment.

Bank Name and Address	ALLAHBAD BANK CHENNAI ADYAR BRANCH 19,1ST STREET, PADMANABHA NAGAR CHENNAI 600 020
IFSC Code	ALLA0211103
Account No	20276303182
Account Name	ANDREW YULE & COMPANY LIMITED

Annexure-IV

TECHNO-COMMERCIAL TERMS FOR SWEEP FREQUENCY RESPONSE
ANALYZER-SFRA

(**To be filled online in mstc portal**).

SL NO	TERMS & CONDITIONS	VENDOR RESPONSE
1	REQUIREMENT <i>E-Tender offers are invited for supply of Sweep Frequency Response Analyzer –SFRA as per enclosed specification Annexure VII.</i>	AGREE
2	Validity period of the offer: Your offer should be valid for acceptance for a minimum period of 90 days from the date of tender opening	AGREE
3	DELIVERY: Within 3 months from the placement of our Purchase Order.	AGREE
4	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	
5	Guarantee: Material supplied should be guaranteed against all manufacturing defects, poor workmanship, defective raw material for a minimum period of 12 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.	AGREE
6	The rate quoted by you is F.O.R. Chennai (Inclusive of Packing, Forwarding and Insurance)	AGREE
7	Liquidated damage – If the delivery is delayed beyond the date of scheduled date of dispatch in the purchase order, penalty will be levied @ 1/2% per week subject to a maximum of 5%	AGREE
8	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	AGREE
9	Legal condition: 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.	AGREE
10	The credit period will start from the date of receipt of material at Andrew Yule, Perungudi, Chennai.	AGREE

11	EMD : Rs. 17,000/= * UP LOADED * Bidders may request for exemption from submitting EMD (Refer details given in General terms & conditions)	Remarks Field
12	Performance Bank 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.	AGREE
13	PAYMENT TERMS: - a) 90 % within 90 days from the date of receipt of Equipment b) 10% after guarantee period. (Andrew Yule payment term is direct credit. For bidders offering alternative payment terms of L/c / documents through bank all the bank charges will be to bidders account and also bids will be opened at the sole discretion of Andrew Yule & price will be loaded as per Andrew Yule norms)	Remarks Field
14	HSN code & applicable GST rate for the Product.	Remarks Field
15	Only Manufacturer or their authorized distributor with valid authorization letter should participate in this tender. Authorization letter to be UPLOADED	Remarks Field
16	Manufacturer or their authorized distributor should have been supplied to any other government utility (or) transformer manufacturer supplying 132 kV class transformers. A copy of performance certificate from minimum two customers for successful working of quoted make & model* Proof to be UPLOADED	Remarks Field
17	Bidder should have their service centre in India. Contact detail of service centre to be uploaded.	Remarks Field
18	Filled Compliance report (Annexure VI) to be uploaded.	Remarks Field

**PRICE FORMAT FOR SUPPLY OF SWEEP FREQUENCY RESPONSE
ANALYZER-SFRA**

SI. N O	DESCRIPTION	Quant ity	BASIC PRICE PER NO (Rs)	CGST (%) (If not applic able pleas e enter Zero) (In %)	SGST (%) (If not applicable please enter Zero) (In %)	IGST (%) (If not applicable please enter Zero) (In %)	Landed cost per No (In Rs)
		No	A	B	C	D	Landed Cost = a
1	Sweep Frequency Response Analyzer. (As per enclosed Specification Annexure VII)	1					

ANNEXURE -VI

Compliance Report

Required	Offered	Comply: Y/N
Equipment :Sweep Frequency Response Analyzer [Bidder to indicate the offered make & model]		
Display : To connect Laptop thro' USB & control analysis		
Aux. Voltage : $230 \pm 15\%$, $50 \text{ Hz} \pm 3\%$		
Test Voltage : 10 V p-p (Compliance voltage :20 V p-p)		
Range : 10 Hz to 1 MHz (user selectable)		
Spacing of points : Log / linear or both		
Sweep direction: Low-High or High-Low (user selectable)		
I/p Imp. :50 or 75 ohms		
Sampling :Up to 100 MS/s		
Measure points : Up to 10000 points (It should be possible to select different Measurement points at low frequency range and high frequency range independently)		
Plotting: Magnitude, Phase, Impedance, Admittance, Inductance, Resistance, Difference, any other defined by us		
Scaling :Linear, Log or combination of both		
Accuracy : $\pm 1 \text{ dB}$ to -100 dB		
Insulation :2 kV for 60 s		
CIGRE standardized file format for import and export		
Compatibility to import data from SFRA of other make/model		
User defined correlation analysis (provision to choose to present data in magnitude vs freq and/or phase vs. freq view).		
Provision for Self Test: Prior to testing, the test operator should be able to verify the integrity of the measuring systems using a known FRA. This unit shall be supplied along with the equipment.		
Accessories : Generator & Measuring cables :1set, Ground cables:1set, clamps for connection at bushings & ground, Calibration unit, Mains cables, User guide, Software		

TECHNICAL SPECIFICATIONS
For
SWEEP FREQUENCY RESPONSE ANALYSIS - SFRA

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Equipment	:	Sweep Frequency Response Analyzer [Bidder to indicate the offered make & model]
Purpose	:	To carry out signature test on Power Transformers
Display	:	Provision to connect Laptop thro' USB and control analysis
Aux. Voltage	:	$230 \pm 15\%$, $50 \text{ Hz} \pm 3\%$
Test Voltage	:	10 V p-p (Compliance voltage :20 V p-p)
Range	:	10 Hz to 1 MHz (user selectable)
Spacing of points	:	Log / linear or both
Sweep direction	:	Low-High or High-Low (user selectable)
I/p Imp.	:	50 or 75 ohms
Sampling	:	Up to 100 MS/s
Measure points	:	Up to 10000 points (It should be possible to select different Measurement points at low frequency range and high frequency range independently)
Plotting	:	Magnitude, Phase, Impedance, Admittance, Inductance, Resistance, Difference, any other defined by us
Scaling	:	Linear, Log or combination of both
Accuracy	:	$\pm 1 \text{ dB}$ to -100 dB
Insulation	:	2 kV for 60 s

TECHNICAL SPECIFICATIONS
SWEEP FREQUENCY RESPONSE ANALYSIS - SFRA

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Minimum Features

- a) CIGRE standardized file format for import and export
- b) Compatibility to import data from the SFRA of other make/model
- c) User defined correlation analysis (The user shall be able to choose to present the data in magnitude vs. frequency and/or phase vs. frequency view apart from impedance or admittance vs. frequency view).
- d) Provision for Self Test: Prior to testing, the test operator should be able to verify the integrity of the measuring systems. This shall be done by using a test circuit with a known FRA response supplied by the equipment manufacturer. This unit shall be supplied along with the equipment.

Accessories

- a) Generator cable :1set
- b) Measuring cables :1set
- c) Ground cables:1set
- d) Necessary clamps for connection at bushings & ground
- e) Calibration unit
- f) Mains cables
- g) User guide
- h) Software