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 15 MVA, 11 KV AUTO TRANSFORMER

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 15 MVA ,11 KV Auto transformer <u>Scope of Work / Technical Specification "as specified in this tender document.</u>

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

We request you to submit your offer for the supply of Auto transformer as per our specification as detailed below,

1. 15 MVA-11/8.58-6.6 KV Auto Transformer as per our specification Qty-1 No

DELIVERY: within 3 months from the placement of our P/Order

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

The rate quoted should be firm.

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.

AYCL reserves the right to accept or reject any tender.

Schedule of Tender

1.	TENDER NO.	<u>T-37/2018-19</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/66/18-19/ET/504
4.	Date of publication of e-Tender through publication MSTC/AYCL websites and Central Public Procurement Portal	25.03.2019
5	Date of availability of NIT to the Vendors for downloading	25.03.2019
6	Earnest Money Deposit	 Earnest Money Deposit" of Rs.20,000 (Rupees Twenty 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	25.03.2019-03.30 PM
8	Date of closing of Online e-tender for submission of Techno-Commercial Bid & Price Bid at www.mstcecommerce.com/eprochome/aycl	09.04.2019-12.00 PM
9	Last date of submission/ uploading details of EMD & other documents at <u>www.mstcecommerce.com/eprochome/aycl</u>	09.04.2019-12.00 PM
10	Date & time of opening of Part-I (Techno- Commercial Bid)	09.04.2019-12.05 PM
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
Manufacturing process	Annexure -VI
Specification& Bill of Materials	Annexure -VII
QAP	Annexure -VIII

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. <u>Process of E-tender:</u>

A) **<u>Registration</u>**: 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 posses 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 ON-LINE AT www.mstcecommerce.com/eprochome/aycl

- 1) Vendors are required to register themselves online with <u>www.mstcecommerce.com</u>→ 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	2. Mr Kingsley Rueben
Manager (Materials)	Technical Assistant (EDP)
Ph. No: (044) 2496-0793	Mobile No: 91 9884446378
Email: atepandian@andrewyule.com	Email: reuben@andrewyule.com

3. Mr. R.Tamilselvan Assistant Manager (Materials) Mobile. No: 91 9788520864 Email: <u>tamilselvan@andrewyule.com</u> Contact person (E-Commerce, MSTC Ltd):

1. Mr. Vikash Kumar Jaiswal RegionalManager (ERO) MobileNo:9903042449 Email: <u>vikash@mstcindia.co.in</u> 2) Mr. Pritambiswas Assistant Manager (ERO) Mobile- 9903248755 Email:<u>pbiswas@mstcindia.co.in</u>

3) Mr. Mayank Jain Assistant Manager (ERO) Mobile- 9721277969 Email:<u>mhjain@mstcindia.co.in</u>

Help Desk No.: 033 22901004, will operate on all working days from 10 AM to 6PMfor online support to the vendors.

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)

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 EMD & other documents and Price Bid through online in MSTC website <u>www.mstcecommerce.com</u> → 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 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.
- I. 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.

s. 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 <u>www.mstcecommerce.com/eprochome/aycl</u> 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-37/18-19 (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. <u>Banker's name</u> (a) Name of the Bank
 - (b) Name of the Branch :
 - (c) Account No. :
- 6. GST Registration No.
- 7. I. T. Permanent Account No.:

8. Financial Capacity : Year (2017-2018)

- (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. 20,000/= *

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

- Tender fee Rs: 200 /= should be paid by way of RGTS/ NEFT *
 * Bidders participating in the tender should upload the UTR details towards cost of tender document.
- 3. Present customer Profile to be uploaded.

4. Should have experience in design, manufacture, testing and supply of transformers including after sales service activities.

5. The bidder shall have supplied 10 nos of oil filled transformers of assorted range & type up to 3 MVA ,33 KV class type within last 5 years (2013-14 to 2017-18)

6. Should have minimum 2 nos of transformer of rating 3 MVA, 33 KV or above in Service for minimum 2 years. Bidders are requested to submit the Performance certificate for their highest rating of transformer.

7. Should be ready to demonstrate the capability of design & manufacture strength by conducting type test and short circuit test as per the contractual requirement.

8. Shall have a minimum turnover of Rs.2 crores in transformer Manufacturing in the last three financial years. (2015-16, 2016-17 & 2017-18)

9. The bidder should submit the documents as detailed below for Assessment of the supplier,

- a) Company profile
- b) Credentials along with details of execution of various rating of Power Transformer
- c) Copy of type and special test certificates
- d) List of technical competent person with specialization in related field
- e) Balance sheet for last three years (2015-16, 2016-17 & 2017-18)

*AYCL technical team will visit the bidder for assessment.

OFFERS RECEIVED WITHOUT ANY OF THE ABOVE WILL BE REJECTED

**Note: Bidders who are in the AYCL empaneled list of suppliers for transformers need not submit the above documents. (SI.no 3 to 9& Annexure II).Proof of turnover for year 2017-18 alone needs to be submitted.

GENERAL& TERMS AND CONDITIONS

1) EMD: Rs. 20,000.00 (Rupees Twenty 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 19,1 ST STREET, PADMANABHA NAGAR CHENNAI 600 020
IFSC Code	ALLA0211103
Account No	20276303182
Account Name	ANDREW YULE & COMPANY LIMITED

Annexure-IV

TECHNO-COMMERCIAL TERMS FOR SUPPLY OF 15 MVA, 11 KV, AUTO TRANSFORMER (*To be filled online in mstc portal*).

SL NO	TERMS & CONDITIONS	VENDOR RESPONSE
1	REQUIREMENT Tender offers are invited for supply of 15 MVA, 11 KV, Three phase Auto transformer as detailed below.	AGREE
	1. 15 MVA -11/8.58-6.6 KV Auto Transformer as per our specification Qty-1 No	
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	 Security Deposit– a) The EMD amount of the successful Bidder will be retained as security deposit towards the execution of the contract and the same will be released after completion of contract. 	AGREE
	 b) If the bidder is exempted from paying EMD vide clause no 1 of Annexure III then on being awarded the contract , 1) The bidder should execute the bank guarantee /DD in favor of Andrew Yule & Co .Ltd for Rs.20,000/=. 	
	 2) For bidders already enlisted with AYCL- Chennai Operation, having outstanding amount more than the Security deposit amount then it will be adjusted towards Security Deposit. 	
4	ARBITRATION If any dispute arises between the company and the contractor, as to the terms and conditions of the agreement or method of compliance thereof, the procedure as laid down in Indian Arbitration & Consolidation Act 1996 will be adhered to.	AGREE
5	RIGHTS OF THE COMPANY Bidders who have quote other payment terms & condition having financial implication will be loaded as per Andrew Yule norms. The company reserves the right to accept any tender irrespective of whether it is lowest or otherwise or to reject any or all tenders without assigning any reason thereof. Affordability of the rates is	AGREE
6	also a criterion in finalizing the offer. FORCE MAJEURE In case of strike, accident, natural calamity, acts of god and other unforeseen contingencies causing stoppage of production at Andrew Yule Factory, Andrew Yule reserves the right to cancel and/or modify this contract without liability for compensation and/or claim of any description.	AGREE
7	Legal condition: Any contract entered against this tender will be as per the following legal condition	AGREE
	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.	
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	Liquidated damage – If the delivery is delayed beyond the date of scheduled date of dispatch in the purchase order, penalty will be levied @ 0.5% per week subject to a maximum of 10%	AGREE
10	If there is any variation in the techno commercial terms as entered/agreed in the online bid and uploaded documents, then the details entered/agreed in the online bid will be the final.	AGREE
11	PerformanceBankGuarantee:As a guarantee towardsperformance of the transformer, the buyer will retain 10% of the invoice value for 18 months from the date of dispatch.Alternatively, the tenderer can execute a bank guarantee in the format of the buyer for 10% of invoice value (Including GST)	AGREE
	which shall be valid throughout the guarantee period of 18 months from the date of dispatch with a claim period of another 3 months counted from the date of expiry of the guarantee period .	
12	Guarantee: The transformer should be guaranteed for 18 months from the date of dispatch or 12 months from the date of commissioning whichever is earlier. During the period if the product is found defective due to any of the above reason you shall undertake to repair the same at FREEOF COST.	AGREE
13	Non-Disclosure Agreement: The bidder on being awarded the contract has to execute a Non-disclosure Agreement as per the buyers prescribed format.	AGREE
14	Any reworks at site including leak and replacement/repair of failed components are in supplier scope.	AGREE
15	Any major failure at site, which requires the transformer to be brought back to works for rectification, will be to supplier account. This will also include taking back the transformer and installing at site after rectification. Any defect during guarantee period due to inferior materials or faulty workmanship will be rectified or replaced by the supplier at free of cost.	AGREE
16	The transformer after testing at supplier premises will be brought to AYCL Chennai works for carrying out routine test and any other tests as specified by the customer. The supplier has to consider the cost of transportation of the same including assembling and dismantling for the above tests. AYCL will provide crane facility. Any failure on the above tests due poor workmanship will be to supplier account.	AGREE

17	The transformer will be dispatched with Andrew Yule name plate only.	AGREE
18	The rate quoted should be F.O.R. Chennai (Inclusive of Packing, Forwarding and Insurance)	AGREE
18a	The credit period will start from the date of receipt of material at Andrew Yule, Perungudi, Chennai.	AGREE
19	Transformer should be manufactured as per our Production process as mentioned in Annexure VI	AGREE
20	Transformer should be supplied as per our specification & Bill of materials as mentioned in Annexure VII	AGREE
21	Transformer will be inspected & Tested as per our QAP as mentioned in Annexure VIII	AGREE
22	PAYMENT TERMS: -Direct Credit In case it is agreed fill 23 with number of days of direct	Remarks Filed
23	Please indicate the number of days of direct credit. a) 90 % within 90 days from the date of receipt of Transformer. b) 10% after guarantee period (Andrew Yule payment terms is minimum 90 days direct credit. If the offered payment terms is less than 90 days, bids will be opened at the sole discretion of Andrew Yule & price will be loaded as per Andrew Yule norms)	Remarks Filed
24	PAYMENT TERMS: - Against L/c Bidders, who wish to quote with L/c, enter AGREE IN 24 and fill 26 with number of days of credit. Bidders, who have entered agreed in 22 and filled credit days in 23 should enter Disagree in 24 and fill 26 with 0	Remarks Filed
25	If L/c payment term is selected then the L/c opening charges will be to the bidders account.	AGREE
26	 Please indicate the number of days of credit against L/c a) 90 % within 90 days from the date of receipt of Transformer. b) 10% after guarantee period (Andrew Yule payment term is minimum 90 days direct credit. For bidders offering L/c payment terms, bids will be opened at the sole discretion of Andrew Yule & price will be loaded as per Andrew Yule norms) 	Remarks Filed
27	If a bidder select AGREE in both 22 and 24, their payment terms will be considered as direct credit.	AGREE
28	Qualifying Requirement: Should have experience in design, manufacture, testing and supply of transformers including after sales service activities.*Proof should be uploaded. **Those who are in the AYCL empanelled list of suppliers for transformers need not submit the above documents	Remarks Field
29	The bidder shall have supplied 10 Nos. of oil filled transformers of assorted range & type up to 3 MVA, 33 KV class type within last 5 years (2013-14 to 2017-18) *Proof should be uploaded. **Those who are in the AYCL empanelled list of suppliers for transformers need not submit the above documents.	Remarks Field
30	Should have minimum 2 nos of transformer of rating 3 MVA, 33 KV or above in Service for minimum 2 years. Bidders are requested to submit the Performance certificate for their highest rating of transformer.* Proof should be uploaded.	Remarks Field

	**Those who are in the AYCL empanelled list of suppliers for transformers need not submit the above documents	
31	Should be ready to demonstrate the capability of design & manufacture strength by conducting type test and short circuit test as per the contractual requirement.	Remarks Field
	**Those who are in the AYCL empanelled list of suppliers for transformers need not submit the above documents	
32	Shall have a minimum turnover of Rs. 2 crores in transformer Manufacturing in the last three financial years. (2015-16, 2016-17 & 2017-18)* Proof should be uploaded.	Remarks Field
	**Those who are in the AYCL empanelled list of suppliers for transformers. Proof of turnover for year 2017-18 alone needs to be submitted	
33	The bidder should submit the documents as detailed below for Assessment of the supplier, a) Company profile	Remarks Field
	b) Credentials along with details of execution of various rating of Power Transformer	
	c) Copy of type and special test certificates	
	d) List of technical competent person with specialization in related field	
	e) Balance sheet for last three years (2015-16, 2016-17& 2017-18)	
	*AYCL technical team will visit the bidder for assessment.	
	**Those who are in the AYCL empanelled list of suppliers for transformers need not submit the above documents.(SI.no 33 a- e). Proof of turnover for year 2017-18 alone needs to be submitted	
34	 EMD : Rs. 20,000/= * UP LOADED * Bidders may request for exemption from submitting EMD (Refer details given in General terms & conditions) 	Remarks Field
35	Tender fee Rs: 200 /= should be paid by way of RGTS/ NEFT * UP LOADED * Bidders participating in the tender should upload the UTR details towards cost of tender document.	Remarks Field
36	Andrew Yule Scope of Supply Name Plates	AGREE
37	Delivery: within 3 months from the placement of our P/Order	Remarks Filed

PRICE FORMAT FOR SUPPLY OF 15 MVA 11 KV AUTO TRANSFORMER

SI. NO	DESCRIPTION	Quantity	BASIC PRICE PER NO (Rs)	CGST (In %) (If not applicabl e please enter Zero)	SGST (In %)(If not applicable please enter Zero)	IGST (In %)(If not applicable please enter Zero)	Landed cost per No (In Rs)
		No	A	В	С	D	Landed Cost = a
1	15 MVA 11/8.58- 6.6 KV Three phase Auto Transformer as per our specification(Inclu ding spares as per Annexure B)	1					

a) **PRODUCTION PROCESS**

- 1. Core assembly to be done as per the drawing/Specification.
- 2. Core loss to be checked after core building and compared with design specifications.
- 3. Coil winding to be done as per the winding sheet and winding diagram.
- 4. In case of tapping, binding of conductors to be done in such a way that two consecutive tapping should not come in the same bay/division.
- 5. Continuity check to be done for all the coils.
- 6. Brazing of conductor to be done with proper care, Cleaning of Carbon deposits thoroughly and insulation of Conductor to be done properly.
- 7. Coils to be Pre-shrinked and the heights to be compared with design specifications. Continuity check to be done for all coils before taking up for assembly.
- 8. Core coil assembly to be done as per the drawing and Ratio test to be carried out
- 9. Lead termination to be done as per the drawing.
- 10. Lead out points to be done with due care in such a way that no scissoring effect should come between the tap leads.
- 11. Send for processing
- 12. Refer *Process* table below:-
- 13. Assembling of accessories as per OGA drawing.
- 14. Offer for Testing/Inspection.
- 15. Dismantling of accessories as per drawing.
- 16. Painting & Wiring as per drawing.
- 17. Packing & Dispatch.

(Production Process up to 33KV)

FITTING	CHAMBER	REMARKS
1	Heating - 12 hrs at 115°C Vacuum Pump - 3 hrs Condensation to be recorded.	Fitting All fasteners tightening uniformly, Yoke bolt checking for 2KV, Looseness of coil- Check and Pack accordingly
2	Heating - 8 hrs at 115°C Vacuum Pump - 3 hrs Condensation to be recorded.	Fitting All fasteners tightening uniformly, Yoke bolt checking for 2KV, Looseness of coil- Check and Pack accordingly
3	Heating - 6 hrs at 115°C Vacuum Pump - 3 hrs Condensation to be recorded.	Fitting All fasteners tightening uniformly, Yoke bolt checking for 2KV, Looseness of coil- Check and Pack accordingly A . P Testing, Proceed for Tanking
4	With Tank Heating - 12 hrs at 115°C Vacuum Pump - 4 hrs Condensation to be recorded.	See for Condensation 100ml for 3 (i.e. every 1 hrs) consecutive hrs oil filling under vacuum.

Annexure-VII

TECHNICAL SPECIFICATIONS& BILL OF MATERIALS

		RATING : 15 MVA
		VOLTAGE: 11/8.58-6.6 KV,
		TAPPINGS:As per Annexure
	BILL OF MATERIALS LIST	Α
	BILL OF MATERIALS LIST	Auto Imp : 1.85% (IS tol)
YULE		Vector Group : Ya0
ANDREW TOLL & CONTAINY LTD		Rev – R0

A) Major Materials

1) Core (Make: PO	SCO / NLMK / KRYFS / Eqlt.)
Core Weight : 228	7.9 kgs
Core frame	: 290ø /535 (cc) / 765(LL) mm
Max. Steel width	: 280 mm
Min. steel width	: 110 mm
No. of steps :	8 Nos
Core building type	: Vertical step lap with 5 blades
Thickness of steel	: 0.27mm
Guide Hole	: 16ø mm hole Yoke and limbs
Core loss	: 0.84W/Kg 1.5T
Core insulation Kit	(2mm & 3mm PB): 1 set
Core clamps: 325Kg	gs [200x75mm ISMC Channel]

Core Belt:

For Yoke	: Resiglass Tape (Thick = 0.3mm; Width = 40mm)
For Limb	: Petstrap (Thick = 1.27mm; Width = 19mm)

2. COPPER: (Make: COPRAL / NSR / SHREECABLE/EQVT)

1. Max. Specific resis	tance at 20° C: 0.017241Ω /cm ³
2. Grade of paper	: 1.2 - 2M / 5B2 - 2H1 / 5A2 - 1M3
Common Winding	: 400 Kgs
Series Winding	: 641 Kgs

3. Connection Copper :(Make: GIC / SHERATRON)

i) 610 Strands,0.5Ø mm, 16.4/20.4Ømm- 110 Kgs.

4. Insulating Materials:

Base wood (Density 1.25 g/cm³): 290/520ø mm,25Thick, 3 Nos Make: Peramalli Wallace / Western India Plywoods / Lamtuf Winding Kit : Spacers (Edge rounded), Dovetail runner, Packing Strip Distance piece : 1 set Coil Assy Kit : Blocks (Edge rounded), Cylinder, Rectangular runner, Common Block (edge rounded), Washer, Segment, SwitchingConnection pad. – 1set Total Insulation:150 Kgs.

B) Winding details: -

SL. NO	DESCRIPTION	COMMON		SER	IES	
1)	Туре	Continuous Disc Winding	Multilayer(1- 3) Winding	Layer 4	Layer 5	Layer 6
2)	ID	316mm	418 mm	475 mm	486 mm	499 mm
3)	OD	384mm	465 mm	485 mm	498mm	507mm
4)	Electrical Height	617 mm	617 mm	617 mm	617 mm	617 mm
	With Helix Effect Height		645 mm	651 mm	647 mm	657 mm
5)	No. of Parallel Cond.	2Above	2N2A	3N	2N2A	3N
6)	Size of conductor(mm)	13.0 x 2.8 (0.5) (PICC)	13 x 2.8 (0.7) (PICC)	10.5 x 3.6 (0.7) (PICC)	13.7 x 2.1 (0.7) (PICC)	12.5 x 3.0 (0.7) (PICC)
7)	Spacer	3mm – Avg. (approx.)		•	sulation to be p vided between	
8)	Connection		A	UTO		
9)	No of Sections / Layer	38 Disc	3 Layer	1 Layer	1 Layer	1 Layer
10)	Turns/Disc& Layer	4 + 11/12	22 Turns	18 Turns	21 Turns	15 Turns

C) Tank and fittings:

Tank: L =1800mm; W = 770mm; H =1940mmPlate Thickness:[Bottom =10mm; Side Wall = 6mm; Cover = 10mm;Curb: 16mmConservator:3 thick platesTotal weight: 2600 Kgs[Tank, cover, cons & under base]Clamping Ring (MS): 320/505ø, Thick -25mm, -3 Nos. = 71 Kgs

5. OCTC:12 KV, (600x2) =1200A, 7P, 6 deck– Alwaye Make – 1 No **Reference Dwg**. No.: AEW / 4403 - R1

6. Bushings:

A) Common, Series &Neutral (H.P)- (With Both Connecting Lug):Rating: 12 KV/2000ACreepage distance: 300mmMake: CJI/GENESISMetal Part: 620mm

D) CT TERMINAL BOX

Make: Sukrut/Hindustan EngineersRef. Drg. No: CS-TB-SM2-S1Execution: A 4 terminals- 1nos

7. CT:HV WTI CT: 1 No

Туре	: cotton tape insulation
Ratio	:587/1A
Burden	:10VA
Accuracy class	: 5
Make : AU Electro /	Kalpa/Kappa/Instrans /Pragathi/Amod Stampings.

8. Fittings:

A. Oil temperature indicator:1 set Size : 150mm No of contacts : 2 (alarm &trip) Capillary length : 6 mts Model : Rectangular Dial type indicator: 1 No Make : Precimeasure/Perfect Control B. Winding temperature indicator: 1 set Size : 150mm No of contacts : 2 (alarm &trip) Capillary length : 6 mts Model : Rectangular Dial type indicator : 1 No Make : Precimeasure /Perfect Control The above WTI should have a below heater suitable for 1A rated WTI CT for 18Deg C gradient. C) Buchholz relay: Make : ATVUS/PRESS N FORGE/Yogya Size : 80mm - 1 nos No of contacts : 2 (alarm &trip)

D) C.IRollers (Without Bearing) 250 mm dia : 4 Nos

E) Silica gel breather (Press N forge/ Yogya)Size : 3.3 Kgs (For main Conservator) -1No

F) Magnetic oil level gauge:Make: Sukrut udyog/Atvus/yogyaSize: 150mm1 noNo of contacts: 1 (low level alarm)Model: S06

G). Valves I. (MATERIAL: G.M) (As per IS 778)

(Make: Manixon /Mala/Apex/GG valves/Leader Valves)

Isolating valve: 80 mmFL/FL2NOSDrain / Bot Filter valve: 50 mmFL/FL1NOTop Filter valve : 50 mmFL/FL1NOSampling valve (Top &Bot): 20 mmFL/FL2NOSMain cons. drain valve: 25 mmFL/FL1NO

Valves III. MAERIAL: C. ITYPE: BUTTERFLY (Make: ATVUS/EAPEN JOSEPH) Radiator valve (std. size : 80 mm - 8 NOS

9) PRESSED STEEL RADIATORS: (1.2mm Thick Sheet) Quantity : 4 Nos. NA :1500mm Width :520mm No. of sections/ Radiators : 17

10) i) PAINT - Polyurethane: (Shade 631 of IS:5) - 8 LTS/coatii) Touchup Paint - Polyurethane: (Shade 631 of IS:5) - 5 LTS

11) TRANSFORMER OIL – As per IS 335
Total :2800 Litre
Up to Transport Level :2170 Litre
Top-up + Radiator :630 Litre(3 Barrels)

12) PRESSURE RELIEF VALVE:

Make: SUKRUT UDYOG/ATVUS Type: Model **T 6** (FOR TFR) : 1 NO Operating pressure: **0.49** Kg/sq.cm

13)A) SUPPORT INSULATOR (EPOXY) (11 KV) : 9 NOS B) CRIMPINGLUG (Material: Copper) :24 NOS

14) WIRING CABLES :(Resistance @ 20°C)

0.68Ø, 2 Core, 2.5mm² PVC Cable:10MTS (APPROX) - (Max. resistance = $7.4\Omega/\text{km}$) 0.68Ø, 4 Core, 2.5mm² PVC Cable: 5MTS (APPROX) - (Max. resistance = $7.4\Omega/\text{km}$) 0.86Ø, 2 Core; 4.0mm² PVC Cable: 5 MTS (APPROX) - (Max. resistance = $4.6\Omega/\text{km}$)

15) CABLEGLAND:

SIBG 6063	:9 NOS.
SIBG 2125	: 1NOS.
SIBG 1619	: 8NOS.

16) Gaskets: 1). 6 mm Thick Sheet - 6 Nos;

2). 12mm Thick Sheet – 4 No 1 set

17) Hardware's: HDG – External; SS with Spring Washer – Internal 1 set

18) MARSHALLING BOX as per below table (Size: 500x200x600- 2.5Thick (LXBXH)) – 1 No

10	MCB	2NOS.	5A
9	SWITCH FOR HEATER (HS)	1NO.	240V , 5A
8	SWITCH FOR LAMP	1NO.	240V _ 5A
1	CABLE GLANDS (SIBG TYPE)	8NOS.	3/4
6	FARTHING TERMINAL	2N0S.	
5	HEATER WITH THERMOSTAT	ISET.	240V , 40W
4	LAMP	1NO.	240V _ 40W
3	TERMINAL CONNECTOR (Stud type with double brassed nuts)	1N0.	ELMEX
2	150MM DIAL TYPE OT WITH TWO CONTACTS	1N0.	PERFECT CONTROL
1	150MM DIAL TYPE WIT WITH TWO CONTACTS	1NO	/PRECIMEASURE
PT.	DESCRIPTION	QTY.	REMARKS

Annexure – A: Tapping Details

NO	NPUT (PRIMARY)		OUTPUT	(SECONDARY)	
POSITION	VOLTS	SHOR ⁻ TIME RATED CURRENT FOR 12min DURATION	VOLTS	SHORT TIME RATED CURRENT FOR 12min DURATION	
1			8580	1067	
2			7920	1067	
3	11000	810	7920	1067	
Z			7150	1067	
5			7150	1067	
6			6600	1067	

Annexure – B: List of Spares

1. BUSHINGS:

A) Common, Series & Neutral (H.P)- (With Both Connecting Lug) – 3 NosRating: 12 KV/2000ACreepage distance: 300mmMake: CJI/GENESISMetal Part: 620mm

 OCTC: 12 KV, (600x2) =1200A, 7P, 6 deck – Alwaye Make – 1 No Reference Dwg. No.: AEW / 4403 - R1

		and the second second	the second s	Catalogue			
	Event start	Event close date &		nt Details			
Event no	date & time	time	Event View date & time	Prebid start date & time Prebid end date & time	Tender Type	Opening Type Act.Status	
AYCL/Electrical Division CO/66/18- 19/ET/504	25.03.2019 - 03:30 PM	09.04.2019 -12:00 PM	25.03.2019 - 03:35 PM	No Prebid Meet	Open	Itemwise Activated	
Mode E-Tender Techi	nical Cum Price E	Bid	TOE Start Time 2019-04-09 12		TOE End Time 2019-06-30 00:0	0:00.0	
			Tender Com	mittee Members			
Contact Person		Designation	Department	Email	Mobile No.	Telephone	
Tamilselvan		Engineer(Material)	Electrical Division CO	tamilselvan@andrewyule.com	9788520864	24960793	
Kingsly Reuben	М	Assistant	Electrical Division CO	reuben@andrewyule.com	9884446378	24960793	
Sno	Latina	1 at a		Details			
5110	Lot no	Lot name	Quantity	Uom	Description of Ite		
1	1	SUPPLY OF 15 MVA 11 KV AUTO TRANSFORMER	1.0	NO	15 MVA 11/8.58-6.6 KV Three phase Auto Transformer as per our specification(Including spares as per Annexure B)		
1.1	TECHNO COMM	IERCIAL TERMS	A MARINE MAR	and the second second		and the second second	
	Validity period opening. Comp	of the offer: Your offer onent : Agree Only	er as per our spe should be valid	15 MVA, 11 KV, Three phase Au ecification Qty-1 No Component : for acceptance for a minimum pr essful Bidder will be retained as s	Agree Only eriod of 90 days fro	om the date of tend	
	clause no 1 of J favor of Andrew outstanding am Agree Only	Annexure III then on b w Yule & Co .Ltd for Rs nount more than the Se	ased after comp eing awarded th .20,000/=. 2) Fo ecurity deposit a	letion of contract. b) If the bidde e contract, 1) The bidder should or bidders already enlisted with A mount then it will be adjusted tow	r is exempted from execute the bank YCL- Chennai Oper wards Security Dep	n paying EMD vide guarantee /DD in ration, having posit. Component :	
	to. Component	: Agree Only	procedure as lai	pany and the contractor, as to the down in Indian Arbitration & Co	onsolidation Act 19	96 will be adhered	
	otherwise or to finalizing the of FORCE MAJEUR of production a	Yule norms. The compare reject any or all tender fer. Component : Agree RE In case of strike, acc	any reserves the rs without assign e Only cident, natural ca Andrew Yule res	ther payment terms & condition I right to accept any tender irresp ning any reason thereof. Affordat alamity, acts of god and other un serves the right to cancel and/or path: Agree Only.	foreseen continger	it is lowest or also a criterion in	
7	Legal condition: purchase order Mahabalipuram parties only the the said procee	Any contract entered / contract / agreement Road, Perungudi, Cher appropriate Civil Court dings in exclusion of al	against this tend t is executed and nnai 600 096 and t in the City of Ku l other courts. Co	der will be as per the following let a concluded by and between the d in the event any dispute arises olkata shall have the exclusive ju omponent : Agree Only	parties hereto at p out of this agreem risdiction to entert	remises No.5/346, (ent between the ain, try and determi	
8	(Incidental/Con whatsoever, Co	t to do the same throu sequential) shall be to mponent : Agree Only	gh some other a your account wh	o impose risk purchase clause as gency/s which shall deemed fit a lich with respect to our intimation	nd the additional on or observation	cost of the same	
	Will be levied @	0.5% per week subject	t to a maximum	ond the date of scheduled date o of 10% Component : Agree Only	/		
	0 If there is any variation in the techno commercial terms as entered/agreed in the online bid and uploaded documents, then the details entered/agreed in the online bid will be the final. Component : Agree Only						
10	details entered/	agreed in the online bi	u will be the fina	I. Component : Agree Only			
10	Performance Ba value for 18 mo buyer for 10% of date of dispatch period . Compor	agreed in the online bio ink Guarantee: As a guanths from the date of o of invoice value (Includ with a claim period of ment : Agree Only	arantee towards dispatch. Alterna ling GST) which another 3 mont	performance of the transformer, tively, the tenderer can execute shall be valid throughout the gua hs counted from the date of expi	the buyer will reta a bank guarantee i rantee period of 1 ry of the guarante	ain 10% of the invo in the format of the 8 months from the e	
10	Performance Ba value for 18 mo buyer for 10% of date of dispatch period . Compor Guarantee: The commissioning y undertake to rej	agreed in the online bi nk Guarantee: As a gu nths from the date of o of invoice value (Includ with a claim period of nent : Agree Only transformer should be whichever is earlier. Du pair the same at RREC	arantee towards dispatch. Alterna ing GST) which a another 3 mont guaranteed for iring the period i DF COST. Compo	performance of the transformer, tively, the tenderer can execute a shall be valid throughout the gua hs counted from the date of expi 18 months from the date of dispu f the product is found defective of ment : Agree Only	the buyer will reta a bank guarantee in rantee period of 1 ry of the guarantee atch or 12 months due to any of the a	ain 10% of the invoi in the format of the 8 months from the e from the date of bove reason you sh	
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10	Performance Ba value for 18 mo buyer for 10% of date of dispatch period . Compor Guarantee: The commissioning v undertake to rej Non-Disclosure buyers prescribe	agreed in the online bi ink Guarantee: As a gu nths from the date of c of invoice value (Includ with a claim period of nent : Agree Only transformer should be whichever is earlier. Du pair the same at <u>RREC</u> Agreement: The bidder ad format. Component	arantee towards dispatch. Alterna ing GST) which a another 3 mont guaranteed for uring the period i OF COST. Compco on being award : Agree Only	performance of the transformer, tively, the tenderer can execute a shall be valid throughout the gua hs counted from the date of expi 18 months from the date of disp f the product is found defective of nent : Agree Only led the contract has to execute a	the buyer will reta a bank guarantee i rantee period of 1 ry of the guarante atch or 12 months lue to any of the a Non-disclosure Ag	ain 10% of the invoi n the format of the 8 months from the e from the date of bove reason you sh preement as per the	
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10 11 12 13 14 15 16	Details enteredy value for 18 mo buyer for 10% of date of dispatch period . Compor Guarantee: The commissioning v undertake to rej Non-Disclosure . buyers prescribe Any reworks at : Any major failur account. This wi period due to in Agree Only The transformer other tests as sg assembling and workmanship wi	agreed in the online bi ink Guarantee: As a gu nths from the date of o of invoice value (Includ with a claim period of nent: Agree Only transformer should be whichever is earlier. Du pair the same at FREEC Agreement: The bidder ad format. Component site including leak and e at site, which require ill also include taking by ferior materials or fault after testing at supplie pecified by the custome dismantling for the abo	arantee towards dispatch. Alterna ing GST) which : another 3 mont guaranteed for ring the period i DF COST. Compc on being award: : Agree Only replacement/reme ack the transform go the transform workmanship er premises will li er, The supplier towa tests. AYCL to Component :	performance of the transformer, tively, the tenderer can execute a shall be valid throughout the gua hs counted from the date of expi 18 months from the date of disp. If the product is found defective of ment : Agree Only led the contract has to execute a valir of failed components are in s er to be brought back to works for mer and installing at site after red will be rectified or replaced by th be brought to AYCL Chennai worf has to consider the cost of transp will provide crane facility. Any fail Agree Only	the buyer will rett a bank guarantee i rantee period of 1 ry of the guarante atch or 12 months fue to any of the a Non-disclosure Ag upplier scope. Com rectification, will trification. Any defi e supplier at free of so for carrying out ortation of the san ure on the above f	ain 10% of the invoin in the format of the 8 months from the e from the date of bove reason you sh preement as per the ponent : Agree Onl be to supplier et during guarante of cost. Component routine test and an a including	
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25/03/2019

Event Catalogue

	For Lot :: 1 : SUPPLY OF 15 MVA 11 KV AUTO TRANSFORMER ER NO (In Rs), b) CGST (In %) (If not applicable please enter Zero), c) SGST (In %) (If not applicable please enter Zero), d)		
Aller and	Formula Details		
37	Delivery: within 3 months from the placement of our P/Order Component : Remarks Field		
36	Andrew Yule Scope of Supply Name Plates Component : Agree Only		
25	Fender fee Rs: 200 /= should be paid by way of RGTS/ NEFT * UP LOADED * Bidders participating in the tender should uploa he UTR details towards cost of tender document. Component : Remarks Field		
34	EMD : Rs. 20,000/= * UP LOADED * Bidders may request for exemption from submitting EMD (Refer details given in General erms & conditions) Compogent : Remarks Field		
33	The bidder should submit the documents as detailed below for Assessment of the supplier, a) Company profile b) Credentials along with details of execution of various rating of Power Transformer c) Copy of type and special test certificates d) List of echnical competent person with specialization in related field e) Balance sheet for last three years (2015-16, 2016-178, 2017 18) *AYCL technical team will visit the bidder for assessment. **Those who are in the AYCL empanelled list of suppliers for ransformers need not submit the above documents. (SI.no 33 a-e). Proof of turnover for year 2017-18 alone needs to be ubmitted Component : Remarks Field		
32	Shall have a minimum turnover of Rs. 2 crores in transformer Manufacturing in the last three financial years. (2015-16, 2016- 17 & 2017-18)*Proof should be uploaded. **Those who are in the AYCL empanelled list of suppliers for transformers. Proof c rumover for year 2017-18 alone needs to be submitted Component : Remarks Field		
31	Should be ready to demonstrate the capability of design & manufacture strength by conducting type test and short circuit tes as per the contractual requirement. **Those who are in the AYCL empanelled list of suppliers for transformers need not subr the above documents Component : Remarks Field		
30	Should have minimum 2 nos of transformer of rating 3 MVA, 33 KV or above in Service for minimum 2 years. Bidders are requested to submit the Performance certificate for their highest rating of transformer.*Proof should be uploaded. **Those who are in the AYCL empanelled list of suppliers for transformers need not submit the above documents Component : Remar Field		
29	The bidder shall have supplied 10 Nos. of oil filled transformers of assorted range & type up to 3 MVA, 33 KV class type withi last 5 years (2013-14 to 2017-18) *Proof should be uploaded. **Those who are in the AYCL empanelled list of suppliers for transformers need not submit the above documents. Component : Remarks Field		
28	Qualifying Requirement: Should have experience in design, manufacture, testing and supply of transformers including after sales service activities.*Proof should be uploaded. **Those who are in the AYCL empanelled list of suppliers for transformers need not submit the above documents Component : Remarks Field		
27	If a bidder select AGREE in both 22 and 24, their payment terms will be considered as direct credit. Component : Agree Only		
26	Please indicate the number of days of credit against L/c a) 90 % within 90 days from the date of receipt of Transformer. b) 10% after guarantee period (Andrew Yule payment term is minimum 90 days direct credit. For bidders offering L/c payment terms, bids will be opened at the sole discretion of Andrew Yule & price will be loaded as per Andrew Yule norms) Componen Remarks Field		
25	If L/c payment term is selected then the L/c opening charges will be to the bidders account. Component : Agree Only		
	PAYMENT TERMS: - Against L/c Bidders, who wish to quote with L/c, enter AGREE IN 24 and fill 26 with number of days of credit. Bidders, who have entered agreed in 22 and filled credit days in 23 should enter Disagree in 24 and fill 26 with 0 Component : Remarks Field		
	Please indicate the number of days of direct credit. a) 90 % within 90 days from the date of receipt of Transformer. b) 10% after guarantee period (Andrew Yule payment terms is minimum 90 days direct credit. If the offered payment terms is less than 90 days , bids will be opened at the sole discretion of Andrew Yule & price will be loaded as per Andrew Yule norms) Component : Agree Only		
22	PAYMENT TERMS: -Direct Credit In case it is agreed fill 23 with number of days of direct Component : Remarks Field		
21	Transformer will be inspected & Tested as per our QAP as mentioned in Annexure VIII Component : Agree Only		
20	Transformer should be manufactured as per our Production process as mentioned in Annexure VI Component : Agree Only Transformer should be supplied as per our specification & Bill of materials as mentioned in Annexure VII Component : Agree Only		

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