M/S ANDREW YULE &CO.LTD T & S UNIT, 5/346 OLD MAHABALIPURAM ROAD PERUNGUDI, CHENNAI :600 096

TENDER DOCUMENTS FOR SUPPLY OF INSULATION PRESS BOARD KITS, & MOULDED COMPONENTS AS PER OUR DRAWING

TENDER NO T-07/16-17

ANDREW YULE & CO. LTD. invites e-Tender under single stage two part system (Part I: Techno-Commercial Bid and Part II: Price Bid) for finalizing rate contract for supply of Insulation Board Kits & Moulded components, "Scope of Work / Technical Specification" as specified in this tender document.

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

AYCL reserves the right to accept or reject any tender.

a) Tenders are invited for supply of Insulation Kits, Angle Ring and Angle washer as per our drawings. For reference we are enclosing typical drawings of the Insulation Kits, Angle Ring and Angle washer. The actual drawings will be issued along with our order and it will be similar to the typical drawings enclosed but the dimension will vary from job to job.

Approximate requirement

1) Insulation Kit for Winding	: 80 Sets.
2) Insulation Kit for Coil Assembly	: 80Sets.
3) Insulation Kit for Core	: 80 Sets.
4) Angle Ring	: 80 Sets.
5) Angle Washer	: 80 Sets

Approximate weight of the Insulation material is 80 MT.

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

The quantity mentioned in the Tender is our approximate requirement up to 30.06.2017.

The quantities mentioned are indicative only and the order will be released based on actual requirement.

Andrew Yule reserves the right to increase the tender quantity by 30%.

DELIVERY: To be intimated from time to time as per our requirement, commencing within 4 weeks from the placement of our P/Order and as per our requirement.

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-07/2016-17</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/7/16-17/ET/31
4.	Date of publication of e-Tender through publication MSTC/AYCL websites and Central Public Procurement Portal	27.05.2016
5	Date of availability of NIT to the Vendors for downloading	27.05.2016
6	Earnest Money Deposit	 Earnest Money Deposit" of Rs.50,000 (Rupees Fifty Thousand only)should be paid by thro'NEFT/RTGS Other document as described in Annexure II & II A
7	Date of Starting of e-Tender for submission of Online Techno-Commercial Bid and Price Bid at www.mstcecommerce.com/eprochome/aycl	27.05.2016 - 4.00 PM
8	Date of closing of Online e-tender for submission of Techno-Commercial Bid & Price Bid at www.mstcecommerce.com/eprochome/aycl	09.06.2016 -11.00 AM
9	Last date of submission/ uploading details of EMD & other documents at <u>www.mstcecommerce.com/eprochome/aycl</u>	09.06.2016 -11.00 AM
10	Date & time of opening of Part-I (Techno- Commercial Bid)	09.06.2016 – 11.15 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
Specification	Annexure -VI

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 eprocurement 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).

<u>SPECIAL NOTE</u>: 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
	Manager (Materials)
	Ph. No: (044) 2496-0793
Em	ail: atepandian@andrewyule.com

2. Mr Kingsley Rueben Technical Assistant (EDP) Mobile No: 91 9884446378 Email: <u>reuben@andrewyule.com</u>

3. Mr. R. Tamilselvan Engineer (Materials) Mobile. No: 91 9788520864 Email: <u>tamilselvan@andrewyule.com</u>

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: <u>smaity@mstcindia.co.in</u>

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
- To enable ALL active X controls and disable 'use pop up blocker' under v) **Tools** \rightarrow Internet Options \rightarrow 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:

- No interest will be paid on EMD. EMD of the unsuccessful bidder(s) will be refunded by а. 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 \rightarrow e-procurement \rightarrow Psu / Govt depts. \rightarrow Login under AYCL \rightarrow My Menu \rightarrow Auction Floor Manager \rightarrow live event \rightarrow Selection of the live event.

- **d.** The bidder should allow to run an application namely en Apple 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.

Annexure-II

ANDREW YULE & COMPANY LIMITED T&S Unit, Electrical Division

General Information Ref. Tender No.: T-07/16-17 (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. :

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

6. <u>Sales tax Registration N</u> (a) Central	<u>o</u> . :	
(b) State / VAT	:	
7. I. T. Permanent Accoun	t No.:	
8. Financial Capacity	:	Year (2014-2015)
(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. 50,000/= *

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

2) 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 upload.
- 4) For supply of Insulation Kit & Angle Washer purchase orders & Performance Certificate from at least three reputed transformers manufacturers for having supplied Insulation Kit & Angle Washer for transformer above 10 MVA /132 KV rating during the year 2015-2016.Proof to be uploaded.
- 5) For supplying Angle Rings, purchase orders & Performance Certificate from at least three reputed transformers manufacturers for having supplied Angle Ring for transformer above 10 MVA /132 KV rating during the year 2015-2016. Proof to be uploaded.
- 6) Bidders should have a minimum turnover of Rs: 80 lakhs per annum in last three financial years (2012-13, 2013-14 & 2014-15), balance sheets and P&L Account Proof to be uploaded.

OFFERS RECEIVED WITHOUT ANY OF THE ABOVE WILL BE REJECTED

** However those who are in the approved list of vendors of Andrew Yule need not submit the documents pertaining to SI No 3 to 5, Annexure II and for SI No 6, balance sheet (P&L A/c) for 2014-15 only needs to be uploaded.

Annexure-III

GENERAL & TERMS AND CONDITIONS

1) EMD: Rs. 50,000.00 (Rupees Fifty thousand only), should be paid by way of RGTS/ NEFT.

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 those who have security deposit with Andrew Yule may apply for adjustment of the same. The total EMD should be Rs: 50,000/=

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 rate quoted should be for individual component of the insulation kits in Rate/Kg basis. The formula for arriving at the weight for calculating the kit cost is as per Annexure A.

For arriving at the L1 price, typical jobs (FO 3371 & FO 3391) will be used for calculating the cost of the Insulation kit and moulded component. The L1 price will be arrived based on the insulation kit cost only and not on the individual components cost.

The order will be released in Kit form only.

 After the finalization of tender, individual rate contract will be issued to all successful bidders and the individual order will be released to all successful bidders based on the distribution of tender quantity as shown below,

Distribution of Tender quantity among all the qualified bidders

Negotiated L1 price will be offered to other bidders whose price bid was opened. The tender quantity will be split among bidders as follows.

a) If only one bidder (among L2, L3, L4, L5, L6, etc) agrees to match the negotiated L1 bidder's price then tender quantity will be split as follows

L1 bidder will get 70 % of Tender quantity

Other bidder who agreed to match the negotiated L1 price will get 30 % of Tender quantity

b) If two or more bidders (among L2, L3, L4, L5, L6, etc) agree to match the negotiated L1 bidders' price then Tender quantity will be split as follows

L1 bidder will get 60 % of Tender quantity

Next higher bidder than L1 bidder who agrees to match the negotiated L1 price (Bidder'A') will get 25 % of Tender quantity

Next higher bidder than Bidder 'A' who agrees to match the negotiated L1 price will get 15 % of Tender quantity.

c) If none of the other bidders accept the L1 price, AYCL reserves the right to place the entire tender quantity on the L1 bidder.

4) 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 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.

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

TECHNO-COMMERCIAL TERMS FOR INSULATION KIT&MOULDED COMPONENST (<u>To be filled online in mstc portal</u>).

SI. No	Terms & Conditions	Options
1	REQUIREMENT E-Tender offers are invited for Entering into Rate Contract for supply of Insulation Components as per our drawings as per the following details. <u>Approximate requirement</u>	AGREE
	 Insulation Kit for Winding Insulation Kit for Coil Assembly Insulation Kit for Core 80 Sets. Angle Ring 80 Sets. 80 Sets. 80 Sets. 80 Sets. 	
	Approximate weight of the Insulation material is 80 MT. The quantity mentioned in the Tender is our approximate requirement up to 30.06.2017.	
	Andrew Yule reserves the right to increase the tender quantity by 30 %.	
2	EMD : Rs. 50,000/= UP LOADED * Bidders may request for exemption from submitting EMD (Refer details given in General terms & conditions)	Remark field
3	Tender fee Rs: 200 /= should be paid by way of RGTS/ NEFT	Remark field
	 UP LOADED * Bidders participating in the tender should upload the UTR details towards cost of tender document. 	
4	Customer Profile UP LOADED	Remark field
	* Bidders in AYCL-Chennai approved vendor list for Supply of Insulation kits & moulded components need not submit the customer profile.	
5	For supplying Insulation Kit & Angle Washer purchase orders & Performance Certificate from at least three reputed transformers manufacturers for having supplied Insulation Kit & Angle Washer for transformer above 10 MVA /132 KV rating during the year 2014-2015.Proof to be uploaded .* Bidders in AYCL-Chennai approved vendor list for Supply of Insulation kits & moulded components need not submit the documents.	Remarks field

6	For supplying Angle Rings, purchase orders & Performance Certificate from at least three reputed transformers manufacturers for having supplied Angle Ring for transformer above 10 MVA /132 KV rating during the year 2014-2015. Proof to be uploaded .	Remarks field
	 Bidders in AYCL-Chennai approved vendor list for Supply of Insulation kits & moulded components need not submit the documents. 	
7	Bidders should have a minimum turnover of Rs: 80 lakhs per annum in last three financial years	Remarks field
	(2012-13, 2013-14 & 2014-15), balance sheets and P&L Account Proof to be UP LOADED	
	* For Bidders who are in the approved list of vendors of Andrew Yule, balance sheet (P&L A/c) for 2014-15 only needs to be uploaded.	
8	The lead time required for the supply of Insulation Kit & Moulded Component should be clearly indicated here.	Remarks field
9	The committed delivery quantity of Insulation kits, Angle Washer and Angle Ring per month should be clearly indicated here.	Remarks field
10	VALIDITY: The offer should be valid for acceptance for a minimum period of 90 days from the date of tender opening and for supplies up to 30.06.2017.	AGREE
11	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.	AGREE
12	The credit period will start from the date of receipt of material at Andrew Yule, Perungudi, Chennai.	AGREE
13	PAYMENT TERMS: -Minimum 90 Days direct credit from the date of receipt of materials at our works. Please confirm acceptance.	Remarks field
14	Please indicate the number of days of direct credit. (Andrew Yule <i>payment</i> 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 field
15	Liquidated damage - If the delivery is delayed beyond the scheduled date of dispatch in the purchase order, penalty will be levied @ 1/2% per week subject to a maximum of 5%	AGREE
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.	AGREE

17	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.	
18	 a) INSULATION KITS : As per AYCL material Specification : SMI 104 R 0 b) ANGLE RING & ANGLE WASHER: IEC 60641-3-1 B4.1/WEIDMANN T III. The raw material used for manufacturing the Insulation kits, Angle ring & Angle washer should be manufactured by any one of AYCL, Chennai approved suppliers as indicated below only. 1) M/s ABB (RAMAN BOARDS LTD)., MYSORE. 	AGREE
	2) M/s SENAPATHY WHITELEY PVT LTD., BANGALORE.	
	3) M/s H.WEIDMANN, GERMANY.	
	4) M/s FIGEHOLMS BRUK, SWEDEN.	
	5) M/S THE WESTERN INDIA PLYWOODS, KANNUR.	
19	While supplying the Insulation Kit for core, the listels are to be pasted over the yoke insulation.	AGREE
20	Insulation kit for winding are to be supplied with the spacers & dove tails in assembled condition and the ducts pieces are to be pasted on base strip.	AGREE
21	Material test Certificate should be send along with each consignment	AGREE
22	The rate quoted should be on FOR destination basis.	AGREE
23	All the Insulating kits, Angle washer and Angle ring are to be supplied in transit worthy packing to avoid any transit damage. If any transit damage happens due to poor packing then the damaged material has to be replaced immediately on free of cost basis	AGREE
24	We request you to enter whether the rate offered is inclusive of ED or exclusive of ED and also the ED applicable at present.	Remarks field
25	If Sales tax is applicable. Please enter the tax in the remarks field.(At present CST 2% against Form C or At present TN VAT 5%)	Remarks field

BG SPECIMEN

(To be typed on Rs.100/- non-judicial stamp paper) BANK GUARANTEE FOR EARNEST MONEY DEPOSIT

TO BANK GUARANTEE NO.... M/S ANDREW YULE &CO.LTD T & S UNIT, 5/346 OLD MAHABALIPURAM ROAD PERUNGUDI, CHENNAI :600 096

IN ACCORDANCE WITH YOUR TENDER for the supply INSULATION KITS ,ANGLE WASHER & ANGLE RING, M/s (hereinafter called the "Bidder") having its Registered Office at, wish to participate in the said bid for the supply INSULATION KITS ,ANGLE WASHER & ANGLE RING as an irrevocable Bank Guarantee against Earnest Money Deposit for an amount of Rs. (Rupees.....) valid up to 30.09.2017, is required to be submitted by the bidder as a condition precedent for participating in the said bid, which amount is liable to be forfeited by the Purchaser on (1) the withdrawal or revision of the offer by the bidder within the validity period, (2) Non acceptance of the Letter of Indent / Purchase order by the Bidder when issued within the validity period, (3) failure to execute the contract as per contractual terms and condition with in the contractual delivery period and (4) on the happening of any contingencies mentioned in the bid documents.

During the validity of this Bank Guarantee: -

The Guarantee shall be irrevocable and shall remain valid up to 30.09.2017. If any further extension is required, the same shall be extended to such required period on receiving instruction from the Bidder, on whose behalf this Guarantee is issued.

Notwithstanding anything contained herein:

* Our liability under this Bank Guarantee shall not exceed

`. (Rupees.....)

- * This Bank Guarantee shall be valid up to 30.09.2017.
 - We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only and only if you serve upon us a written claim or a demand on or before 30.09.2017.

In witness whereof the Bank, through its authorized officer, has set its hand and stamp on day of 2016 at.....

ANNEXURE - A

FORMULA FOR ARRIVING AT THE WEIGHT OF INDIVIDULA COMPONENTS

CORE KIT

FLITCH PLATE	L X B X T X D/1000000
YOKE INS	L X B X T X D/1000000
CORE SHEET	L X B X T X D/1000000
LISTEL	L X B X T X D/1000000
FOOT IRON	L X B X T X D/1000000
WINDING KIT	
DOVE TAIL LISTEL	L X B X T X D/1000000
SPACER	L X B X T X D/1000000
RECT RUNNER	L X B X T X D/1000000
CYLINDER	L X B X T X D/1000000
PACKING STRIP	L X B X T X D/1000000
DISTANCE PIECE	L X B X T X D/1000000
BASE STRIP	L X B X T X D/1000000
DUCT PIECE	L X B X T X D/1000000
<u>COIL ASSY KIT</u>	
WASHER	ODXODXTXD/1000000
SEGMENT	ODXODXTXD/4000000
END RING	3.14 XODX B(Max) X T X D/100000
CYLINDER	L X B X T X D/1000000
COMMON BLOCK	L X B(Max) X T XD/1000000
BLOCK	L X B X T X D/1000000
RECT RUNNER	L X B X T X D/1000000
SWG CONN PAD	L X B X T X D/1000000
BARRIER	L X B X T X D/1000000
P.WALL	L X B X T X D/1000000
FLITCH PLATE	L X B X T X D/1000000
L- LENGTH IN MM B- BREADTH IN MM T- THICKNESS IN MM	

T- THICKNESS IN MM D- DENSITY IN g/cc Density of PCPB -1.2, PB-1.1 & GR 4.3 - 1.0

ANNEXURE - B

FORMULA FOR ARRIVING AT THE RATE OF ANGLE WASHER & ANGLE RING

1) ANGLE WASHER : L X B X T X C/10000

L- Length in mm B – Breadth in mm T – Thickness in mm

C is a constant which you have to enter in the price bid.

2) ANGLE RING: 3.14 x OD X C

OD- OD in mm

C is a constant which you have to enter in the price bid.

Annexure-V

PRICE BID FORMAT FOR INSKIT ITEMS

A) CORE KIT	FLITCH PLATE	YOKE INS	CORE SHEET	LISTEL			FOOT IRON
				a)Up to 6 mm	b)8 mm - 10 mm	c) > 10 mm	
	PB	PB	PB	PCPB	PCPB	PCPB	PB
	Rs/Kg	Rs/Kg	Rs/Kg	Rs/Kg	Rs/Kg	Rs/Kg	Rs/Kg

B) WINDI NG KIT	DOVE	TAIL LIS	STEL	SPA	CER	REC	CT RUNN	NER
	a)Upto 6 mm	b)8 mm - 10 mm	c) > 10 mm	a)Length Up to 30 mm	b)Length above 30 mm	a)Upto 6 mm	b)8 mm - 10 mm	c) > 10 mm
	РСРВ	PCPB	PCPB	РСРВ	РСРВ	PCPB	PCPB	PCPB
	Rs/Kg	Rs/Kg	Rs/Kg	Rs/Kg	Rs/Kg	Rs/Kg	Rs/Kg	Rs/Kg

B) WINDING KIT	CYLIN	NDER	PACI STI		DIST/ PIE		BASE	STRIP
	Up to 3 i	mm	a)Upto 3 mm	b) > 3 mm	a)Upto 3 mm	b) > 3 mm	a)Upto 3 mm	b) > 3 mm
	PCPB	PB	GR 4.3	GR 4.3	GR 4.3	GR 4.3	GR 4.3	GR 4.3
	Rs/Kg	Rs/Kg	Rs/Kg	Rs/Kg	Rs/Kg	Rs/Kg	Rs/Kg	Rs/Kg

B) WINDING KIT	DUCT PI	ECE
	a)Upto 3 mm	b) > 3
	3 mm	mm
	PB	PB
	Rs/Kg	Rs/Kg

C) COIL ASSY KIT	WAS	HER	SE	GMENT	CYLIN	NDER	COM BLC	MON DCK
	3 mm	5 mm	a)Upto	b) > 5	Up to 3	mm	a)Upto	b) > 5
			5 mm	mm			5 mm	mm
	PCPB	PCPB	PCPB	PCPB	PCPB	PB	PCPB	PCPB
	Rs/Kg	Rs/Kg	Rs/Kg	Rs/Kg	Rs/Kg	Rs/Kg	Rs/Kg	Rs/Kg

C) COIL ASSY KIT	BLC	OCK	REC	T RUNN	IER	SWG (PA		BARRI	ER
	a)Upto 5 mm	b) > 5 mm	a)Upto 6 mm	b) 8 mm- 10 mm	c) >10 mm				
	PCPB	PCPB	PCPB	PCPB	PCPB	PCPB	PB	PCPB	PB
	Rs/Kg	Rs/Kg	Rs/Kg	Rs/Kg	Rs/Kg	Rs/Kg	Rs/Kg	Rs/Kg	Rs/Kg

C) COIL ASSY KIT	P.W	/ALL	FL PLATE	ITCH	END RING	
					a)Upto 5	b) > 5 mm
					mm	
	PCPB	PB	PCPB	PCPB	PCPB	PCPB
	Rs/Kg	Rs/Kg	Rs/Kg	Rs/Kg	Rs/Kg	Rs/Kg

D) <u>ANGLE WASHER:</u> PRICING FORMULA L X B X T X C/10000

L- Length in mm

B – Breadth in mm

T – Thickness in mm

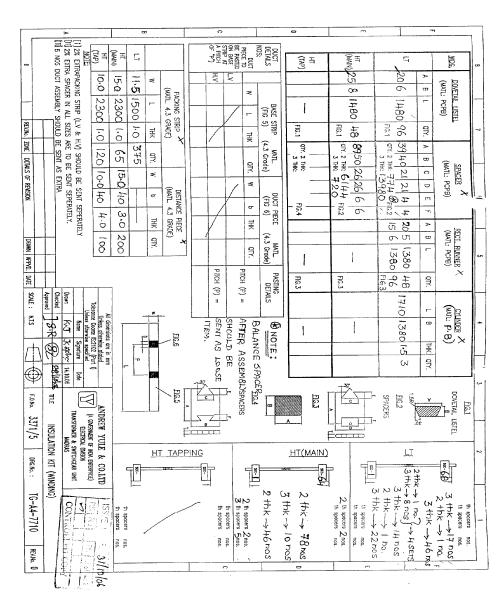
C is a constant which you have to enter in the price bid.

E) ANGLE RING :PRICING FORMULA : 3.14 x OD X C

OD- OD in mm

C is a constant which you have to enter in the price bid.

Annexure-VI



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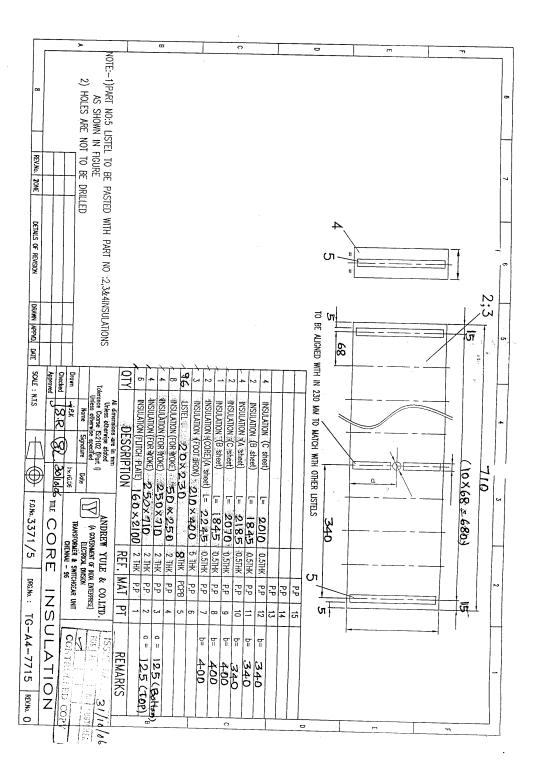
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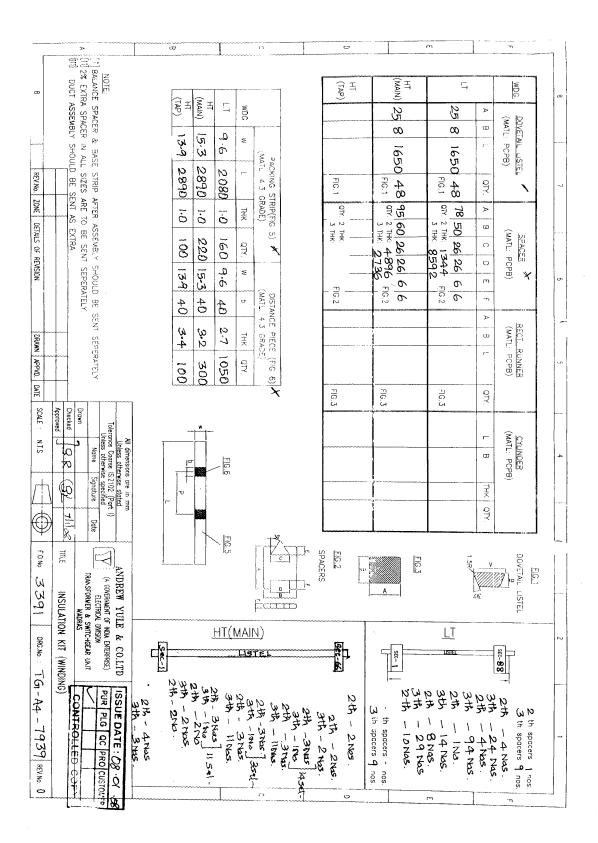
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EV.No. ZC						PCPB	РСРВ	РСРВ	РСРВ	PCPB			РСРВ	РСРВ	РСРВ	PCPB	РСРВ		РСРВ	РСРВ	РСРВ	РСРВ		MATL		3 P	+	QTY M	*	-
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10. Date	-											100		PD 1	000	1300	LENGTH THK	AR RU			1400	PLATE			280	000	1400	AUH		
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		а К)		herwise sp	Tolerance Coarse IS:2102 (Part	All dimensions are in mm Unless otherwise stated	PCPB	PCPB	PCPB	РСРВ	РСРВ	PCPB		РСРВ	PCPB	PCPB	MATL		Р ъ́	P V	8	INSOLATION	2.4	20 D ²	Р. В	7. 8	20	MATL		
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F.O.No. 3371/	SULAT	5	RANSFORME	A AND IN	(A CONFRIM	DREW	1475	LENGTH	P.WAL	600	LENGTH THK	BELT	16 00	2400	LENGTH THK	C.PAD			594	202	0,0	SEG			140	1	200		BLOCK	L
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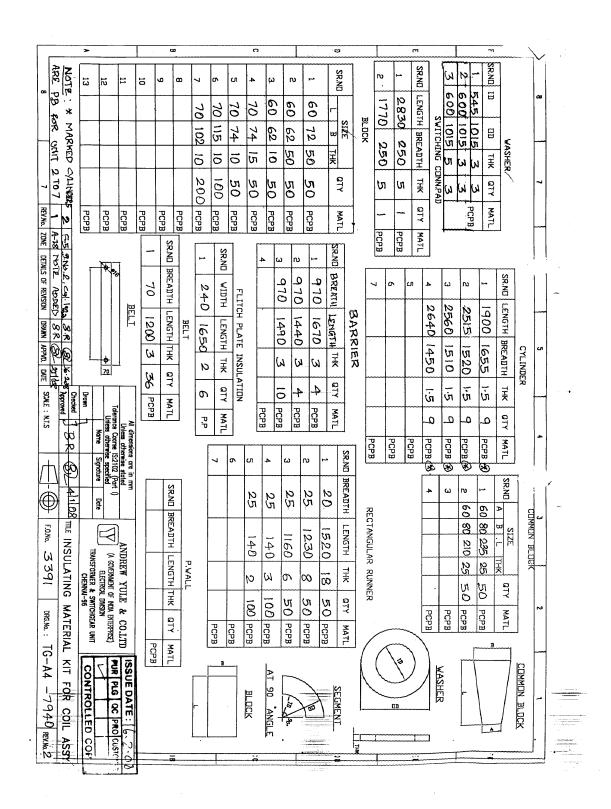
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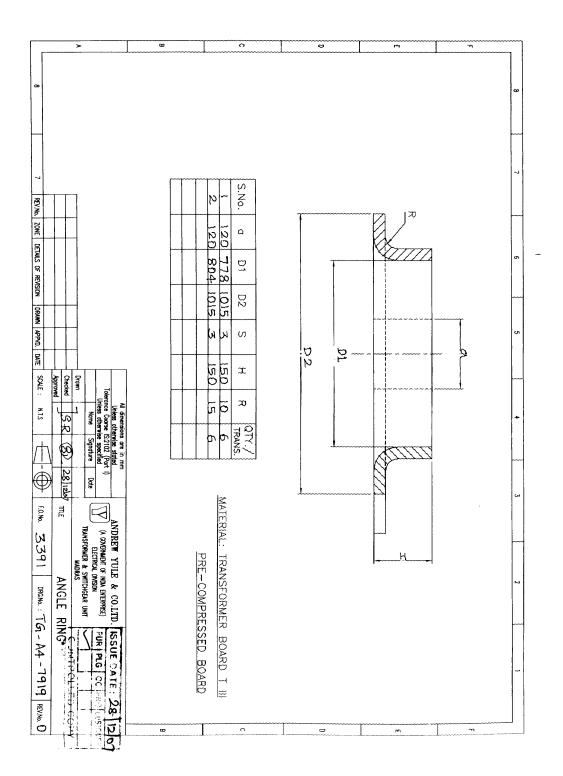
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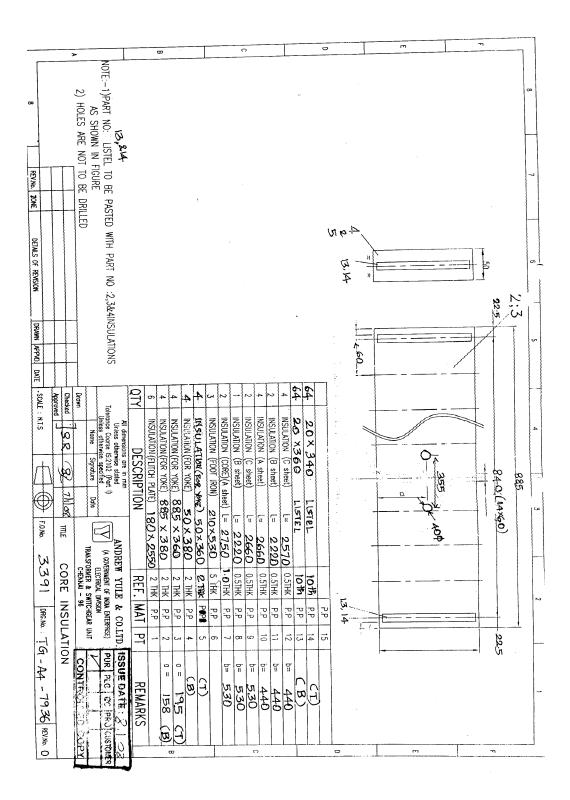
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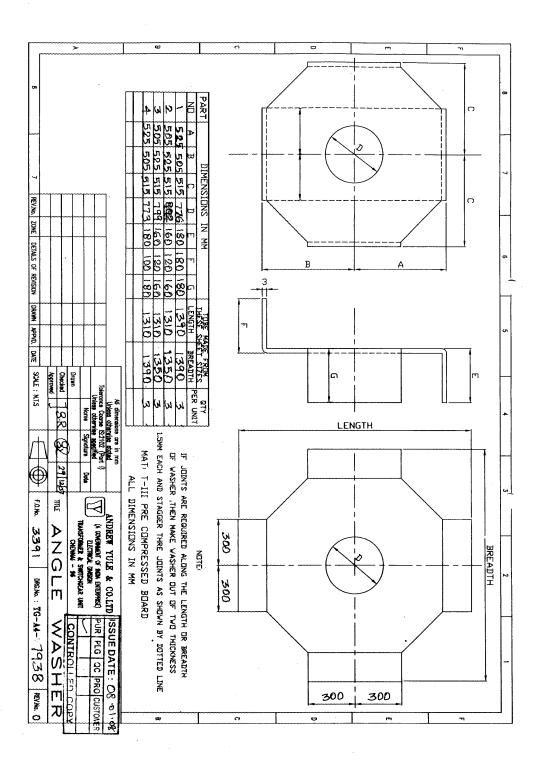


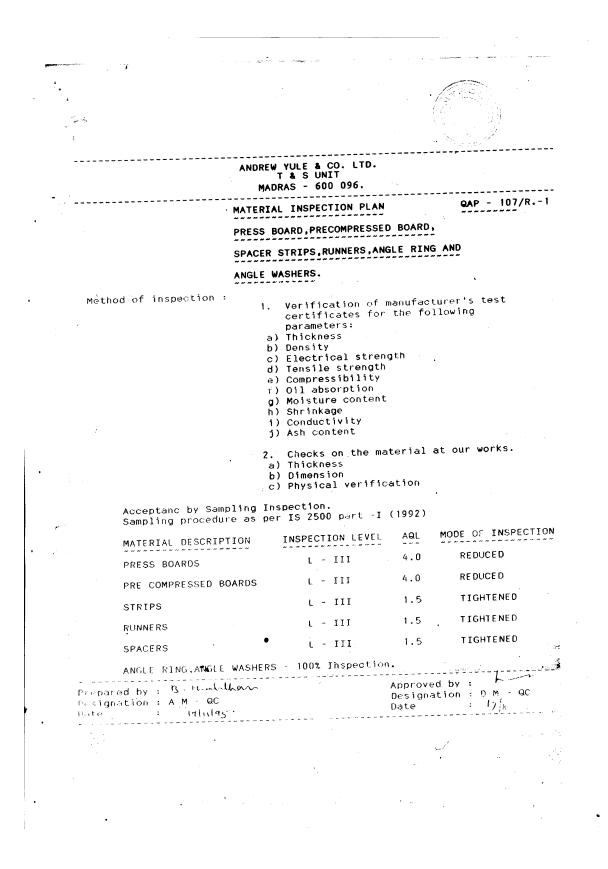












	MAND	REW	YUL	E & 0	CO. L'	TD.	SPEC. N	io. SMI 104
i		Т&	S. UNIT,	MADRA	AS.		PAGI	E No. 1 of 2
		S	SPECIFIC.	ATION FOR	PRESS B	OARDS		
	I. GENER	AL REOU	TREMENT	S			•	
	1. Type	-		: Calen	dered pressbo ompressed pre	ards (type C&l ssboards))	
	2. Application	n			in transformer ting material	r as electrical		
	II. SPECIF	CATION	s				N	TR
		to be adopt	-		76/92 for press -2 for precom s			
	2. Material c	omposition					*	0
	a. P	ressboard ty	me C	: Mixtu	re of cotton a	nd other fibres s	uch as	
		-	•	jute ar	nd wood pulp			
	b. P	ressboard ty	pe D	: Veget wood		sually made from	n chemical	
	с. Р	recompress	ed pressboard		sulphate woo	d pulp.		
	3. Material C	haracteristi	cs .	· ⁵				
	CHARACTERISTICS	UNIT	TYPE C REQUIRED	TOLERANCE	TYPE D REQUIRED		PRE-COMPR	
	CHARACTERISTICS	UNII	VALUE	TOLERANCE	VALUE	TOLERANCE	REQUIRED VALUE	TOLERAN
	Thickness	Mm	As per PO	+/-7.5%	As per PO	+/-7.5%	As per PO	+/-7.5%
	Finish Density	G/cc	Calendered 1.10	MAX	Calendered 1.10	MIN	Calendered 1.1 to 1.3	
	Electrical strength	1					1.1 0 1.5	
				MIN		MIN	12.0	MIN MIN
	i) In air	KV/mm	7.0		8.0			MILL
	i) In air ii) In oil Tensile strength	KV/mm KV/mm	7.0 9.0	MIN	8.0 · 10.0	MIN	28.0	
	i) In air ii) In oil Tensile strength i)Machine direction	KV/mm Kg/Sq.cm	9.0 500	MIN MIN	. 10.0	MIN MIN	28.0 1100	MIN
~~~~.	i) In air ii) In oil Tensile strength i)Machine direction ii)Cross direction Compressibility	KV/mm Kg/Sq.cm Kg/Sq.cm	9.0	MIN	. 10.0	MIN	28.0	MIN MIN
~	i) In air ii) In oil Tensile strength i)Machine direction ii)Cross direction Compressibility i) In air	KV/mm Kg/Sq.cm Kg/Sq.cm %	9.0 500 250 8	MIN MIN MIN MAX	10.0 800 400 5	MIN MIN MIN MAX	28.0 1100	
~	i) In air ii) In oil Tonsile strength i)Machine direction ii)Cross direction Compressibility i) In air ii) In oil	KV/mm Kg/Sq.cm Kg/Sq.cm	9.0 500 250	MIN MIN MIN	10.0 800 400	MIN MIN MIN	28.0 1100 800	MIN
	i) In air ii) In oil Tonsile strength i)Machine direction i)Cross direction Compressibility i) In air ii) In oil Shrinkage in air i) Machine direction	KV/mm Kg/Sq.cm Kg/Sq.cm %	9.0 500 250 8	MIN MIN MIN MAX	10.0 800 400 5	MIN MIN MIN MAX	28.0 1100 800	MIN
<b>~</b>	i) In air ii) In oil Tensile strength i)Machine direction ii)Cross direction Compressibility i) In air ii) In oil Shrinkage in air i) Machine direction ii) Cross direction	KV/mm Kg/Sq.cm Kg/Sq.cm % %	9.0 500 250 8 12 1.0 1.5	MIN MIN MAX MAX MAX MAX	10.0 800 400 5 9 1.0 1.5	MIN MIN MAX MAX MAX MAX	28.0 1100 800 6 0.5 0.7	MIN MAX • MAX MAX
	i) In air ii) In oil Tonsile strength i)Machine direction i)Cross direction Compressibility i) In air ii) In oil Shrinkage in air i) Machine direction	KV/mm Kg/Sq.cm Kg/Sq.cm %	9.0 500 250 8 12 1.0	MIN MIN MAX MAX MAX	10.0 800 400 5 9 1.0	MIN MIN MAX MAX	28.0 1100 800 6 0.5	MIN MAX MAX
	i) In air ii) In oil Tonsile strength i)Machine direction ii)Cross direction Compressibility i) In air ii) In oil Shrinkage in air i) Machine direction ii) Cross direction iii) Perpendicular direction Shrinkage in oil	KV/mm Kg/Sq.cm Kg/Sq.cm % % %	9.0 500 250 8 12 1.0 1.5 4.0	MIN MIN MAX MAX MAX MAX MAX	10.0 800 400 5 9 1.0 1.5 6.0	MIN MIN MAX MAX MAX MAX	28.0 1100 800 6 0.5 0.7	MIN MAX • MAX MAX
<b></b>	i) In air ii) In oil Tensile strength i)Machine direction i)Cross direction i)Cross direction ii) In air ii) In air ii) In oil Shrinkage in air ii) Machine direction iii) Perpendicular direction Shrinkage in oil i) Machine direction	KV/mm Kg/Sq.cm Kg/Sq.cm % % %	9.0 500 250 8 12 1.0 1.5 4.0 0.3	MIN MIN MAX MAX MAX MAX MAX	10.0 800 400 5 9 1.0 1.5 6.0 0.3	MIN MIN MAX MAX MAX MAX MAX	28.0 1100 800 6 0.5 0.7 4.5 N.A	MIN MAX • MAX MAX
	i) In air ii) In oil Tensile strength i)Machine direction ii)Cross direction Compressibility i) In air ii) In oil Shrinkage in air i) Machine direction ii) Cross direction ii) Cross direction iii) Cross direction iii) Cross direction iii) Cross direction	KV/mm Kg/Sq.cm Kg/Sq.cm % % %	9.0 500 250 8 12 1.0 1.5 4.0	MIN MIN MAX MAX MAX MAX MAX	10.0 800 400 5 9 1.0 1.5 6.0	MIN MIN MAX MAX MAX MAX MAX	28.0 · 1100 800 6 0.5 0.7 4.5 ,	MIN MAX · MAX MAX
	i) In air ii) In oil Tensile strength i)Machine direction ii)Cross direction ii)Cross direction ii) In air ii) In oil Strinkage in air ii) Cross direction iii) Prependicular direction Shrinkage in oil i) Machine direction iii) Cross direction	KV/mm Kg/Sq.cm Kg/Sq.cm % % % %	9.0 500 250 8 12 1.0 1.5 4.0 0.3 0.3	MIN MIN MAX MAX MAX MAX MAX MAX	10.0 800 400 5 9 1.0 1.5 6.0 0.3 0.3	MIN MIN MAX MAX MAX MAX MAX MAX	28.0 1100 800 6 0.5 0.7 4.5 N.A N.A	MIN MAX • MAX MAX
	i) In air ii) In oil Tensile strength i)Machine direction ii)Cross direction Compressibility i) In air ii) In oil Shrinkage in air i) Machine direction ii) Cross direction ii) Cross direction iii) Cross direction iii) Cross direction iii) Cross direction	KV/mm Kg/Sq.cm Kg/Sq.cm % % % %	9.0 500 250 8 12 1.0 1.5 4.0 0.3 0.3	MIN MIN MAX MAX MAX MAX MAX MAX	10.0 800 400 5 9 1.0 1.5 6.0 0.3 0.3	MIN MIN MAX MAX MAX MAX MAX MAX	28.0 1100 800 6 0.5 0.7 4.5 N.A N.A	MIN MAX • MAX MAX
~	i) In air ii) In oil Tensile strength i)Machine direction ii)Cross direction Compressibility i) In air ii) In oil Shrinkage in air i) Machine direction ii) Cross direction ii) Cross direction iii) Cross direction iii) Cross direction iii) Cross direction	KV/mm Kg/Sq.cm Kg/Sq.cm % % % %	9.0 500 250 8 12 1.0 1.5 4.0 0.3 0.3	MIN MIN MAX MAX MAX MAX MAX MAX	10.0 800 400 5 9 1.0 1.5 6.0 0.3 0.3	MIN MIN MAX MAX MAX MAX MAX MAX	28.0 1100 800 6 0.5 0.7 4.5 N.A N.A	MIN MAX • MAX MAX
<b></b>	i) In air ii) In oil Tensile strength i)Machine direction ii)Cross direction Compressibility i) In air ii) In oil Shrinkage in air i) Machine direction ii) Cross direction ii) Cross direction iii) Cross direction iii) Cross direction iii) Cross direction	KV/mm Kg/Sq.cm Kg/Sq.cm % % % %	9.0 500 250 8 12 1.0 1.5 4.0 0.3 0.3	MIN MIN MAX MAX MAX MAX MAX MAX	10.0 800 400 5 9 1.0 1.5 6.0 0.3 0.3	MIN MIN MAX MAX MAX MAX MAX MAX	28.0 1100 800 6 0.5 0.7 4.5 N.A N.A	MIN MAX • MAX MAX
	i) In air ii) In oil Tensile strength i)Machine direction ii)Cross direction ii)Cross direction ii) In air ii) In air ii) In air ii) Machine direction iii) Perpendicular direction Shrinkage in oil i) Machine direction ii) Cross direction iii)Perpendicular direction	KV/mm Kg/Sq.cm Kg/Sq.cm % % % %	9.0 500 250 8 12 1.0 1.5 4.0 0.3 0.3	MIN MIN MAX MAX MAX MAX MAX MAX	10.0 800 400 5 9 1.0 1.5 6.0 0.3 0.3	MIN MIN MAX MAX MAX MAX MAX MAX	28.0 1100 800 6 0.5 0.7 4.5 N.A N.A	MIN MAX • MAX MAX

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## ANDREW YULE & CO. LTD. T & S UNIT, MADRAS.

SPEC. No. SMI 104

PAGE No.2of 2

PRE-COMPRESSED TYPE C TYPE D REQUIRED VALUE REQUIRED VALUE REQUIRED VALUE TOLERANCE TOLERANCE CHARACTERISTICS UNIT TOLERANCE MIN 15 MIN MIN Oil Absorption 15 % 9 MAX MAX Conductivity of aqueous mho/cm. 85 MAX 80 80 extract pH value of aqueous 5.5 TO 9.0 5 TO 9.5 7 to 9.5 extract MAX 6 MAX MAX Moisture content % % 8 MAX MAX MAX Mineral Ash % 2 1 1 III. TESTS Routine tests to be conducted for all the characteristics mentioned in clause II.3 as per IS 1576 and IEC 641. IV. EXTENT OF CHECK Sampling as per IS 1576. v. PACKING Pressboards shall be packed to protect it from absorbing moisture and mechanical injuries in polyethylene bags and cases. Each consignment shall be legibly marked on a suitable place with the following Information: i. Manufacturer's name ii. Grade iii. Thickness iv. Quantity in Kgs. VI. DOCUMENTS Test Certificate shall accompany each consignment VII. ACCEPTANCE CRITERIA As per SPT 119 ( For Internal use only ).

	THIRD ISSUE	<u> </u>	12.25	B.	10.1.97
Revision		Description	Prepared	Approved	Date

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					SPT 1	19	
I. ACCEP	TANCE	CRITERIA F	OR PRESS BO	OARDS FOR	SPEC. NO.SM	I 104	
		1	THE	1			
CHARACTERISTICS	UNIT	REQUIRED VALUE	PE C TOLERANCE	REQUIRED VALUE	PE D TOLERANCE	PRE-CO REQUIRED VALUE	TOLE
THICKNESS	mm	As per PO	+/-7.5%	As per PO.	+/-7.5%	As per PO	+/-7.59
Electric strength I) In Air	KV/mm	7.0	MIN	8.0	MIN	12.0	MIN
II) In Oil	KV/mm	9.0	MIN	10.0	MIN	28.0	MIN
Oil Absorption	%	15	MIN	15	MIN	9.0	MIN
Moisture content	%	8	МАХ	8	MAX	6.0	MAX
Length Width	mm	As per PO.	+/5%	As per PO.	+/5%	As per PO.	+/5%
width	mm	As per PO.	+/5%	As per PO.	+/5%	As per PO.	+/5%
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