

ANDREW YULE & COMPANY LIMITED

(A Government of India Enterprise)

Engineering Division,

Plot -16 A & B, Block-D,

Kalyani, Nadia, PIN-741235, WB

TENDER DOCUMENT FOR SUPPLY OF STAINLESS STEEL CASINGS – 4 NOS.

ANDREW YULE & CO. LTD. invites e-Tender from reputed Fabricators for Manufacturing and Supply of 4 nos. Stainless Steel Casings. The Item details are available in Annexure-IV of this tender document.

Tender document may be downloaded from MSTC website:

www.mstcecommerce.com/eprochome/aycl. Corrigendum or clarifications, if any, shall be hosted on the above mentioned websites only. AYCL reserves the right to accept or reject any tender.

Brief Description:-

E-TENDERS ARE INVITED FROM REPUTED FABRICATORS FOR SUPPLY OF 4 NOS. S.S. CASINGS.

Price quoted should be on Ex-Works basis.

Schedule of Tender

1.	TENDER NO.	AYCL/ENGG/MSD/PB/CASING SS-316L/68 Dated: 06.11.2020
2.	MODE OF TENDER	e-Procurement System Online submission of Techno-Commercial Bid and 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/ENGG DIVN/72/20-21/ET/189
4.	Date of publication of e-Tender through publication MSTC/AYCL websites and Central Public Procurement Portal	06/11/2020
5.	Date of availability of NIT to the Vendors for downloading	06/11/2020
6.	Earnest Money Deposit	“Earnest Money Deposit”- Rs. 50,000/- (Rupees Fifty Thousand only) to be paid by D.D. favoring Andrew Yule & Co Ltd, payable at Kolkata. Also refer Annexure –IV for EMD waiver clause.
7.	Cost of Tender documents.	@ Rs 200 by DD payable to Andrew Yule & Co Ltd. Cheque to be submitted before Price Bid Opening. Scanned copy to be uploaded.
8	Date of Starting of e-Tender for submission of Online Techno-Commercial Bid and Price Bid at www.mstcecommerce.com/eprochome/aycl	06/11/2020 AT 4.00PM
9	Date of closing of Online e-tender for submission of Techno-Commercial Bid & Price Bid at www.mstcecommerce.com/eprochome/aycl	27/11/2020 AT 2.00PM
10.	Date & time of opening of Part I - Techno-Commercial Price Bid	27/11/2020 AT 3.00PM
11.	Date & time of opening of Part II - Price Bid	Price for techno-commercially acceptable vendors would be opened after due assessment

List of Annexure

Important Instructions for E-procurement	Annexure-I
General Information	Annexure-II
Techno commercial terms	Annexure-III
Details of Scope of Supply	Annexure-IV
Submission of Bid	Annexure –V

Annexure-I

Important Instructions for E-procurement

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

You are requested to read the Terms & Conditions (Annexure- III, and 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.

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 ON-LINE 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. Prasanta Biswas
Manager – Purchase
Prasanta.biswas@andrewyule.com
Cell : +91 9836718811
Phone : +91(33) 2582 5734; +91(33) 2582 8279
Fax : +91(33) 2582 8581

Contact person (E-Commerce, MSTC Ltd):

- | | |
|--|---|
| <ol style="list-style-type: none">1. Mr. ArindamBhattacharjee
Deputy Manager (E-commerce)
MobileNo: 09330102643
Email: arindam@mstcindia.co.in
Landline: (033) 22901004 | <ol style="list-style-type: none">2) Mr. Sabyasachi Mukherjee
Assistant Manager (E-commerce)
Mobile- 07278030407
Email:smukherjee@mstcindia.co.in |
| <ol style="list-style-type: none">3. 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 updates79 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: Submission of EMD & Filled up General Information Form (Annexure– II), Eligibility Criteria fulfillment docs.,- in sealed envelope to Sr. Manager (Materials), KW, AYCL:

Bidder may request for exemption from submitting EMD (Refer details given in SI No 1 of Annexure-IV, General terms & condition).

Earnest Money as per amount mentioned in Annexure-IV to be paid by DD favouring Andrew Yule & Co. Ltd. Payable at Kolkata

General information, under Annexure-II complete in all respect along with desired document.

In case of failure to submit the EMD within the stipulated time, the Tender may be rejected.

Part-II: Online Bid Submission: After proper submission of EMD at Andrew Yule & Co, the prospective bidder to submit online Techno commercial and price bid through MSTC portal.

Following documents are to be uploaded at the E-Tender Portal as a credential of the prospective bidder:

- 1) Present Customer List.
- 2) Copies of purchase Orders & Performance Certificate from at least three reputed Organizations for having supplied same materials and provided same service during last 4 years. Offers received without copies of performance certificate will/may be rejected.
- 3) Balance sheets and P&L Account. (2014-2015, 2015-16& 2016-17).

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) who have submitted the EMD & Tender Fee to Andrew Yule can submit their Techno Commercial Bids and Price Bid through internet 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.
- 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.
- 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.

Annexure-II

ANDREW YULE & COMPANY LIMITED

Kalyani Works, Engineering Division

General Information

Tender ref.: AYCL/ENGG/MSD/PB/ CASING SS-316L/068 Dated: 06/11/2020

(This document should be dully filled up by **bidders who are not registered with AYCL, Engineering Division**)

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) E-mail ID :

e)Name of contact person :

3.Status of the company (Limited / Pvt. Ltd / Proprietary / partnership/ Reg. /Non-Reg. and date of inception:

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

5. GST No. (Please enclose photocopy of Reg.) :

6. Banker's name

(a) Name of the Bank :

(b) Name& address of the Branch :

(c) Account No. :

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

8. I. T. Permanent Account No.& assessed up to (latest clearance Certificate to be attached):

9. Turnover in last three financial years (Audited Balance Sheet and P & L Account to be submitted):

10. Name of present customers
(Photocopy of few contracts may be enclosed):

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. (Engineering Division) & have the sole discretion to reject or accept my/our candidature.

(Signature of the Applicant)

Office Stamp/Seal.

Place :

Date ;

List of Enclosures:

Annexure-III

TECHNO-COMMERCIAL TERMS
(To be filled online in MSTC portal).

SL NO	TERMS & CONDITIONS
1	Delivery period/Lead time: The completion period of the work shall be 02 (Two) months from the date of Purchase order/Work Order.
2	GST:- Pls. mention with registration No.
3	Negotiated L1 price may be offered to other bidders whose price bid was opened. Andrew Yule reserves the right to split the order to other bidder on the L1 rate and terms .
4	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. Please confirm acceptance.
5	Price Basis: The price quoted should be Ex Works
6	Liquidated damage - If the delivery is delayed beyond the date of scheduled date of execution in the order, penalty will be levied @ 1/2% per week subject to a maximum of 5%.
7	Legal condition (Arbitration): 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 Engineering Division, Kalyani Works Plot -16 A & B, Block-D, Kalyani, Nadia, PIN-741235, West Bengal. In the event of 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	Validity of offer: Your price should be valid for acceptance till completion of complete supply/service, No price escalation will be entertained during that period
9.	Tender Fee : Bidders are requested to submit Rs. 200 towards procurement of Tender Document in Cash / DD payable to Andrew Yule & Co. Ltd.
10	Validity of Price: The Price should remain valid, firm & fixed till completion of supply. No price variation will be allowed at any circumstances.
11	Payment Terms: - 100 % payment along with taxes against 120 days credit. Offers with other payment terms would be loaded as per AYCL norms.
12	Guarantee /Warrantee Clause: 12 months from the date of successful commissioning or 18 months from the date of last supply whichever is earlier.
13	Inspection: Inspection will be done by us/client at your works. Final inspection may be done, if required by us/client at site after receipt of the materials/installation of the item by you. Vendor to submit QAP for approval.
14	Codes and Standards: All equipment and materials to be furnished shall be manufactured and tested in accordance with the latest revisions of the relevant Indian Standard(IS) as applicable. The work shall be done in compliance with the IS Specification.

15	<p>Force Majeure Clause:</p> <p>1. Force Majeure</p> <p>1.1 Neither vendor nor AYCL shall be liable to the other for any delay or non-performance of its obligations under this Contract arising from any cause beyond its reasonable control including in relation to either Party any act of God, governmental act, act of any regulatory authority, supervening illegality, war, fire, flood, explosion, power blackout, break-down of machinery, loss of utility, civil commotion, industrial dispute, manpower unrest acts or omissions of telecommunications or data communications operators or carriers , in relation to vendor (to the extent not directly attributable to vendor’s negligence), (a “Force MajeureEvent”).The affected Party shall promptly notify the other Party in writing, of the cause and the Force Majeure Event and its likely duration within no later than two (2) days after the affected Party knew of the occurrence of the Force Majeure Event. Performance by the affected Party of its obligations under this Contract shall be suspended for the duration of the Force Majeure Event. If performance is not resumed within 15 (fifteen) days after theForce Majeure Event, either Party may terminate this Contract by giving to the other Party seven (7) days’ notice in advance.</p> <p>1.2 On the occurrence of any Force Majeure Event, the affected Party shall use all reasonable efforts (including emergency fixes and workarounds) to perform its obligations under this Contract during the period of suspension. Further the affected Party shall perform such part of its obligations pursuant to this Contract as are not affected by the Force Majeure Event.</p> <p>1.3The affected Party shall use its reasonable efforts to mitigate the effect of any event of Force Majeure as soon as practicable.</p>
16	<p>Eligibility Criteria: Experience of having successfully supplied S.S. / M.S. Fan Casings to different Reputed Fan Manufacturers in India over the past one year. Copy of at least 3 purchase orders to be submitted as documentary evidence towards the same.</p>
17	<p>EMD: Earnest Money Deposit of Rs. 50,000 (Rupees Fifty Thousand only) to be paid by D.D. favoring Andrew Yule & Co Ltd, payable at Kolkata.</p> <ul style="list-style-type: none"> • For bidders already enlisted with AYCL- Kalyani Works, 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 MSME 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. <p>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.</p>

Annexure-IV

(1) Details of Scope of Supply:-

TOTAL 4 NOS. OF STAINLESS STEEL CASINGS.

EACH MATERIAL OF CONSTRUCTION OF CASING IS A COMBINATION SS-316L ONLY.

DETAILS AS FOLLOWS –

Item Description	Weight (Kg)	QUANTITY	Rate per Kg (INR)	Remarks
CASING, SIDE DUCT, SUCTION EYE FOR 2170 MM DIA. SI.STAR P-10 FAN, Drg.No.:K-5871/3B, /4B, COMPLETE IN ALL RESPECT AS PER DRAWING AND BOM ENCLOSED. FAN NO. 03446(L-135), 03448(R-135), MOC: SS 316L	3086.86	2 SETS		1 Set means 1 no complete casing.
CASING, SIDE DUCT, SUCTION EYE FOR 2625 MM DIA. SI.CD-50 FAN, Drg.No.:K-5870/3B, /4B, KSF-3492, COMPLETE IN ALL RESPECT AS PER DRAWING AND BOM ENCLOSED. FAN NO. 03442(L-90), 03444(R-90) MOC: SS 316L	4963.5	2 SETS		1 Set means 1 no complete casing.

FOR 2170 MM DIA FAN – 2 NOS.

Net weight of each casing – 3086.86 Kg

FOR 2625 MM DIA FAN – 2 NOS.

Net weight of each casing – 4963.5 Kg

Total Tentative Weight of 4 casings together = 14919.18 Kg.

B.O.Q. of both the above casings is attached.

The SS Casings are to be acid cleaned.

(2) Bidders are to quote their total price per Kg for SS-316L and SS-304 material separately in the PRICE BID.

The quoted price should be inclusive of all charges viz. Material Cost, Scrap Cost, Labour Charge, Acid cleaning charge, O/H, Profit etc.

- Price of each casing would be derived by multiplying the per Kg rate with the above specified weights as in (1) above.

- The actual weight of each casing may vary to a small extent from the above indicated weights. For calculation of incremental / decremental value due to change in weight, the average per Kg price would be considered. Total weight of finished casing during delivery would be considered for such calculation. Tier weight at AYCL factory to be considered as final.

AYCL reserves the right to obtain the breakup of quoted rates for SS-316L material with respect to price of Stainless Steel, Scrap value, Labour charge, Acid cleaning charge, overhead and profit etc. from all technically accepted vendors.

Annexure - V

SUBMISSION OF BID

- (1) Submission of Techno-commercial bid in MSTC portal
- (2) Submission of Price Bid in MSTC portal
- (3) Bidders are requested to submit the following documents in **SEALED ENVELOPE** to the Purchase Department , Engineering Division, Kalyani before the last date of submission of bid -
 - a) EMD amount in the form of DD or Request letter for exemption of EMD.
 - b) Copies of Purchase Orders towards evidence of Eligibility Criterion.
 - c) Information as per Annexure-II to be submitted by all vendors not registered at AYCL, Engineering Division along with necessary credentials / documents
 - d) DD / Cash Receipt of Rs. 200 towards Tender Document Fee

THE RIGHTS OF THE COMPANY

1. The Company reserves the right to ask for further documents for clarification, if required.

2. The company reserves the right to reject any bidder based on their past performance.

ANDREW YULE & CO. LTD.

ENGG.DIVN.-KALYANI WORKS

BILL OF MATERIAL

Date

06 November 2020

PRODUCT :	Ø 2625 SI, CD-50 FAN				Special note (if any)					FORMAT NO 04/M/15			
COMPONENT :	CASING SCROLL, SIDE PLATE, S/DUCT, S/EYE									Drg. No:	K-5870/3,/4		
QUANTITY :	4-OFF (2-OFF R-90 & 2-OFF L-90)									W.O no:	18143C		
				NOTE :- Bolts Screws and Nuts are of Hexagonal Head, Material is Mild Steel and Dimensions are in M.M. unless otherwise stated					Client		PARADEEP PHOSPHATES LIMITDE		
ITEM CODE	#18143C13CA4									A/c	PARADEEP		
SL. NO.	DESCRIPTION OF MATERIALS	AREA (SQM)	Qty./Set	Unit	wt/sqm or wt/mtr (kg)	Material Code	Gross Wt. in Kgs.	Finished Wt. in Kgs.	Loss Wt. in Kgs.	Scrap Wt. in Kgs.	Store Issuing Record	REMARKS	
1	6 THK PLATE; SS 316L	4.3			48		206.4	181.63	2.064	22.704		S/EYE	
2	8 THK PLATE; SS 316L	49			64		3136.0	2759.68	31.36	344.96		CASING SCROLL, SIDE PLATE, SIDE DUCT	
3	6 THK PLATE; SS 316L	7.3			48		350.4	308.35	3.504	38.544		(6+6)PL. BRACKETS, ACCESS DOOR, COOLING DISC GUARD	
4	6 THK SHEET; SS 316L	1.9			48		91.20	80.26	0.912	10.032		ACCESS DOOR COVER	
5	3.15 THK SS WIRE MESH; SS 316	0.51			5.63		2.87	2.53	0.028713	0.315843			
6	8 THK PLATE; SS 316L (65 WIDE x 8 THK)	8.1			64		518.40	456.19	5.184	57.024			
7	6 THK PLATE; SS 316L (50 WIDE x 10 THK)	0.6			48		28.80	25.34	0.288	3.168			
8	Ø 4 SS 316L ROD		15	m	0.11		1.65	1.65				LAGGING CLEAT	
9	8 Sq. PL SS 316L		12	m	0.512		6.14	6.14					
10	50 NB SS 316L PIPE		5.1	m	5.54		28.25	28.25					
11	L/LUG as per KSF-761/2 (USE 2 NOS 8 TH PL.)		4	NOS	0.79		3.16	3.16					
12	2" NB SS 316L (90deg. ELBOW & NIPPLE)		1	NOS			0	0.00					
13	90 ELBOW + SOCKET		2	NOS			0	0.00					
14	M12 X 1.75P SS 316 HEX. NUT		12	NOS									
15	M16 X 2P SS 316 HEX. NUT		88	NOS									

TOTAL Wt. 4373.2793 3853.19074

ANDREW YULE & CO. LTD.

ENGG.DIVN.-KALYANI WORKS

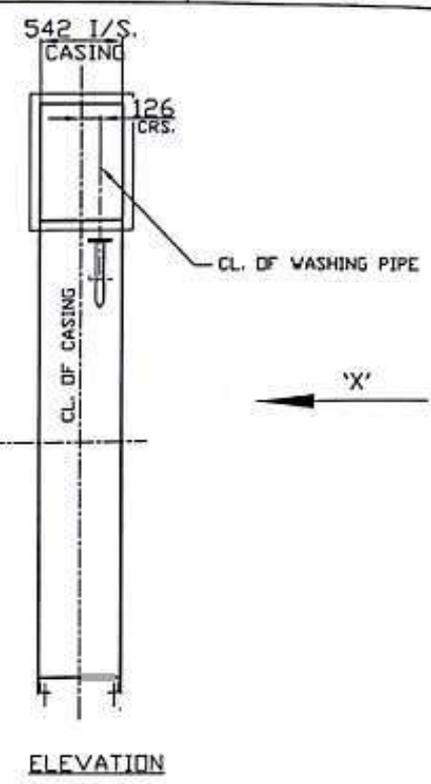
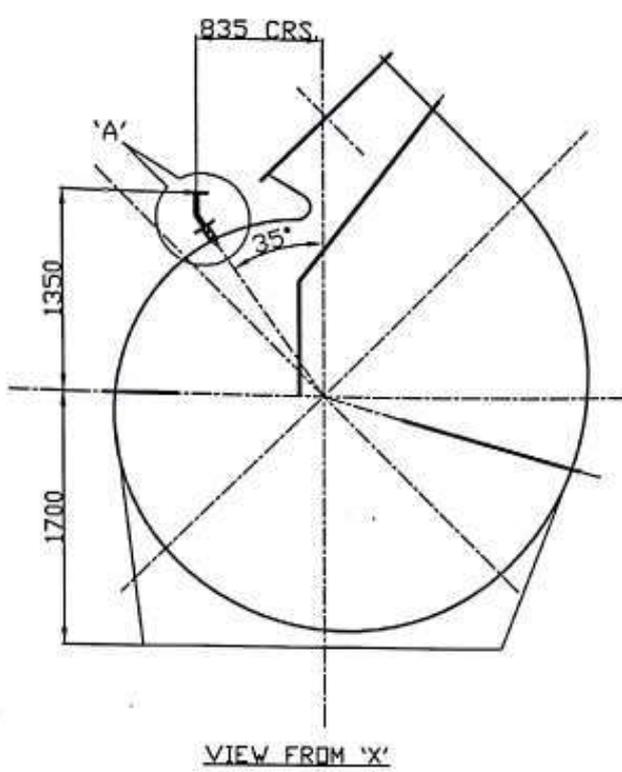
BILL OF MATERIAL

Date

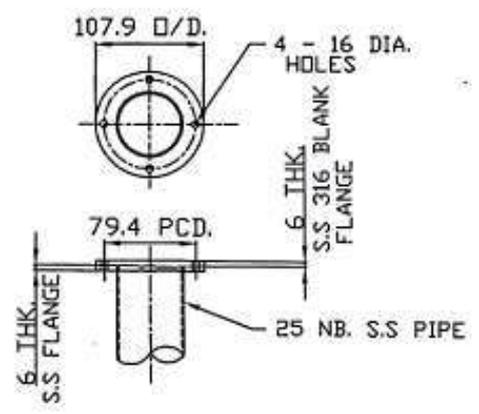
06 November 2020

PRODUCT :	Ø 2170 SI. STAR P-10 FAN		Special note (if any)							FORMAT NO 04/M/15			
COMPONENT :	CASING ,S/DUCT, S/EYE									Drg. No:	K-5871/3B,/4B		
QUANTITY :	4-OFF (2-OFF L.H-135 & 2-OFF R.H-135)									W.O no:	18143C		
			NOTE :- Bolts Screws and Nuts are of Hexagonal Head, Material is Mild Steel and Dimensions are in M.M. unless otherwise stated							Client	PARADEEP PHOSPHATES LIMITDE		
ITEM CODE	#18143C23CA4									A/c	PARADEEP		
SL. NO.	DESCRIPTION OF MATERIALS	AREA (SQM)	Qty./ Set	Unit	wt/sqm or wt/mtr (kg)	Material Code	Gross Wt. in Kgs.	Finished Wt. in Kgs.	Loss Wt. in Kgs.	Scrap Wt. in Kgs.	Store Issuing Record	REMARKS	
1	6 THK PLATE; SS 316L	54.81			48		2630.88	2315.17	26.3088	289.3968			
2	8 THK PLATE; SS 316L	4.9176			64		314.7	276.959232	3.147264	34.619904			
3	10 THK PLATE; SS 316L	0.19172			80		15.3376	13.50	0.153376	1.687136			
4	12 THK PLATE; SS 316L	0.03685			96		3.5376	3.11	0.035376	0.389136		ACCESS DOOR	
5	3.15 THK SHEET; SS 316L	1.077			25.2		27.14	23.88	0.271404	2.985444			
6	3.15 THK SS WIRE MESH; SS 316L	0.9818			5.63		5.53	4.86	0.0552753	0.60802874			
7	Ø 4 SS 316L ROD		15		0.11		1.65	1.65					
8	Ø 10 SS 316L ROD		11.31	m	0.63		7.13	7.13					
9	50 NB SS 316L PIPE		4.8		5.54		26.59	26.59					
10	L/LUG as per KSF-761/2 (16 Thk) SS-316L		4		1.02		4.08	4.08					
11	50 NB SS 316L SOCKET		2	NOS			0	0.00					
12	6 THK PLATE; SS 316L	0.056			48		2.688	2.37	0.02688	0.29568			
13	8 THK PLATE; SS 316L	7.2364			64		463.1	407.554048	4.631296	50.944256			
14	M12 X 1.75P SS 316L HEX. NUT		16	NOS									
15	M16 X 2.0P SS 316L HEX. NUT		96	NOS									
							3502.414434	3086.858378					

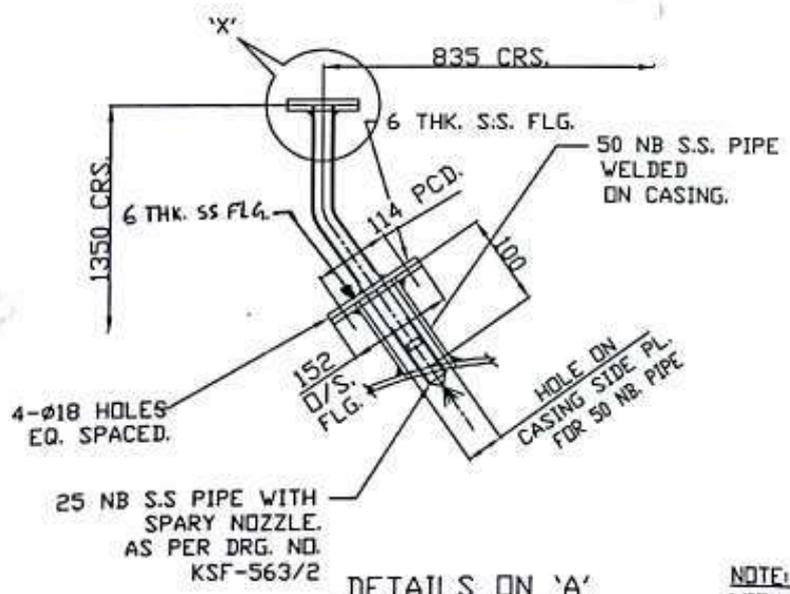
PLATE NO. 28-42 FAN
 OF E
 AND



ELEVATION



DETAILS OF IMPELLER WASHING SYSTEM FLANGE DRILLING (DETAILS AT 'X')



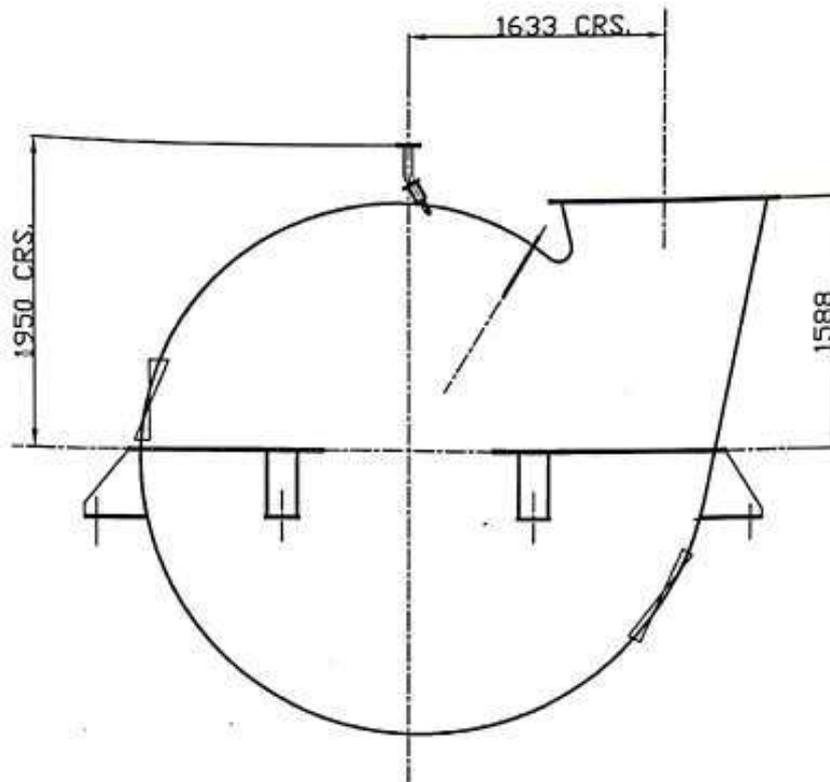
DETAILS ON 'A' QTY- 1-OFF/FAN

NOTE: THIS DWG. SHALL BE READ IN CONJUNCTION WITH CASING DWG. NO. K-5871/3

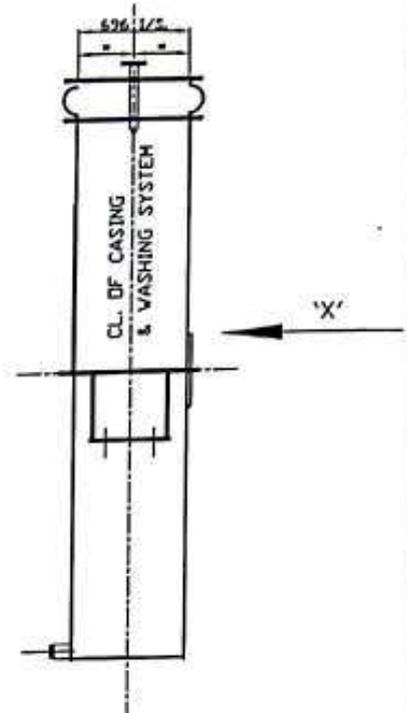
W.D. NO.	DESCRIPTION	QTY.	REMARKS
18143 C	2170 DIA. S.I. STAR P-10 FAN	2-NO L-135 2-NO R 135	

Y ANDREW YULE AND CO. LTD. ENGINEERING DIVISION

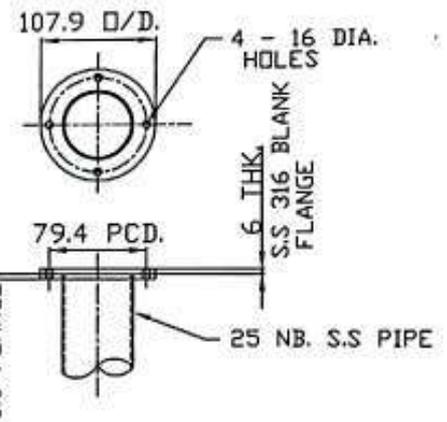
APPROVED	SIGNATURE	DATE	DETS OF IMPELLER WASHING SYSTEM	ROUGH FINISH	MATERIAL S.S. 316L
CHECKED				MEDIUM FINISH	
DRAWN	R.C.P.S	28/6/19		FINE FINISH	
			REVISION	DRAWING NO. KSF : 3620	



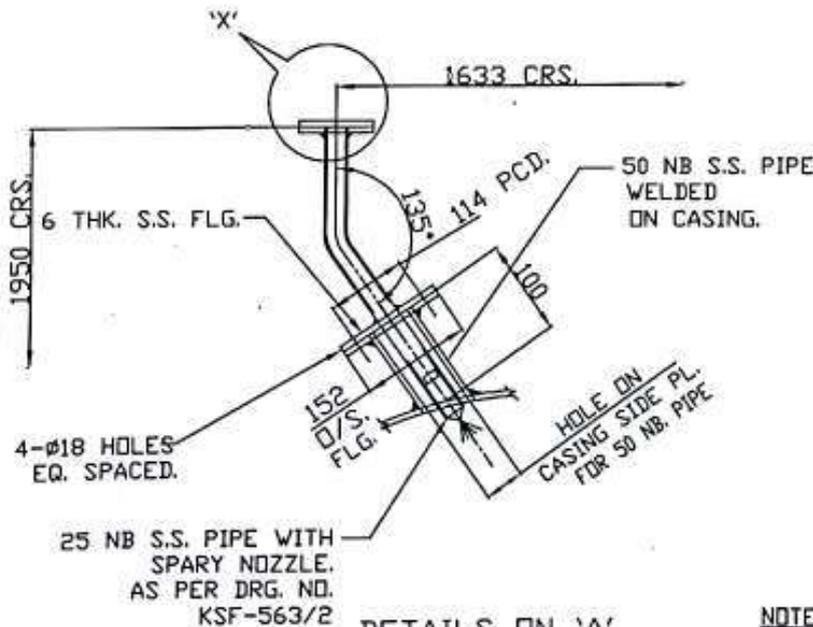
VIEW FROM 'X'



ELEVATION



DETAILS OF IMPELLER WASHING SYSTEM FLANGE DRILLING (DETAILS AT 'X')



DETAILS ON 'A'
QTY- 1-OFF/FAN

NOTE: THIS DWG. SHALL BE READ IN CONJUNCTION WITH CASING DWG. NO : K-5871/3

W.O. NO.	DESCRIPTION	QTY.	REMARKS
18143 C	2625 DIA. SICD- 50 FAN	2-NO L-135 2-NO R 135	



ANDREW YULE AND CO. LTD, ENGINEERING DIVISION

APPROVED	SIGNATURE	DATE	DETS OF IMPELLER WASHING SYSTEM	ROUGH FINISH	MATERIAL S.S. 316L
CHECKED				MEDIUM FINISH	
DRAWN	R.C.P.S	28/6/19		FINE FINISH	
			REVISION	DRAWING NO. KSF : 3621	

ANDREW YULE & CO. LTD.

ENGG. DIVN.-KALYANI WORKS

BILL OF MATERIAL

Date

28 June 2019

PRODUCT : Ø 2170 SI. STAR P-10 FAN		Special note (if any)		FORMAT NO 04/M/15								
COMPONENT : IMPELLER WASHING SYSTEM				Dwg. No: KSF-3620								
QUANTITY : 4-OFF (2-OFF L-90 & 2-OFF R-90)				W.D no.: 38143C								
		NOTE :- Bolts Screws and Nuts are of Hexagonal Head, Material is Mild Steel and Dimensions are in M.M. unless otherwise stated		Client: PARADEEP PHOSPHATES LIMITEE								
ITEM CODE	#18143C317W			A/c: PARADEEP								
SL. NO.	DESCRIPTION OF MATERIALS	AREA (SQM)	Qty./Set	Unit	wt/sqm or wt/mtr (kg)	Material Code	Gross Wt. in Kgs.	Finished Wt. in Kgs.	Loss Wt. in Kgs.	Scrap Wt. in Kgs.	Store Issuing Record	REMARKS
1	6 THK PLATE; SS 316L	0.064			40		3.072	2.70	0.08072	0.33192		
2	50 NB SS PIPE		0.12		5.54		0.66	0.66				
3	25 NB SS PIPE		0.35		7.8		0.98	0.98				
4	50 NB SS PIPE NOZZLE		1 NOS				0	0.00				
							4.7168	4.34816				

Sarwan Jha
28/06/19

ANDREW YULE & CO. LTD.

ENGG.DIVN.-KALYANI WORKS

BILL OF MATERIAL

Date

28 June 2019

PRODUCT :	Ø 2625 SL. CD-50 FAN	Special note (if any)	FORMAT NO 04/M/15
COMPONENT :	IMPELLER WASHING SYSTEM		Org No: KSF-3621
QUANTITY :	4 OFF (2-OFF L-90 & 2-OFF R-90)		W.O no: 18143C

NOTE :- Bolts Screws and Nuts are of Hexagonal Head, Material is Mild Steel and Dimensions are in M.M. unless otherwise stated

ITEM CODE	#18143C13/W4											
SL. NO.	DESCRIPTION OF MATERIALS	AREA (SQM)	Qty./ Set	Unit	wt/sqm or wt/mtr (kg)	Material Code	Gross Wt. in Kgs	Finished Wt. in Kgs.	Loss Wt. in Kgs.	Scrap Wt. in Kgs.	Store Issuing Record	REMARKS
1	5 THK PLATE; SS 316L	0.064			48		3.072	2.70	0.03272	0.33702		
2	50 NB SS PIPE		0.12		5.54		0.66	0.66				
3	25 NB SS PIPE		0.35		2.8		0.98	0.98				
4	50 NB SS PIPE NOZZLE		1	NOS			0	0.00				
							4.7168	4.34816				

Sawan 28/06/19