



SC 133 Cleaner Plant for 50 ADMTPD OCC Line

Technical & Commercial Proposal

Quotation No. DTPV070326
Version: 3

Date: 3.29.2007
Quoted by: Cheng Fengzhen
Tel: +86 757 82969251
Fax: +86 757 82969209
mailto:fengzhen.cheng@andritz.com

Dong Tien Paper Mill, Vietnam
Contact: ANDRITZ Technologies China
Division: Fiber Preparation System
Gary Beckingham

9 Tian Bao Road Chancheng District,
Foshan 528000 Guangdong Province
P.R.China

Tel: +86 757 82969258
Fax: +86 757 82969209
mailto:shuwang.li@andritz.com
http://www.andritz.com/

TABLE OF CONTENT

1.	Technical proposal.....	3
1.1	Technical summary.....	3
1.1.1	Process description.....	3
1.1.2	Dimensioning Data.....	3
1.2	Specification of Properties.....	3
1.2.1	Preconditions / customer obligations.....	3
1.2.2	Performance testing procedure.....	3
1.2.3	Remedies / liquidated damage schedule.....	4
1.3	Scope of supply.....	4
1.3.1	Equipment list.....	5
1.3.2	Battery limits.....	5
1.4	Technical specifications.....	5
1.4.1	One (1) Andritz SingleCleaner SC133VC.....	5
1.5	Service specifications.....	6
1.6	Drawings.....	8
1.7	Enclosures.....	8
2.	Commercial proposal.....	9
2.1	Introduction.....	9
2.1.1	Executive summary.....	9
2.2	Price for main equipment.....	9
2.3	Price basis.....	9
2.3.1	Currency.....	9
2.3.2	Taxes.....	9
2.3.4	Terms of delivery.....	9
2.4	Terms of payment.....	9
2.4.1	Payment schedule.....	9
2.5	Project schedule / delivery time.....	9
2.6	Terms and conditions.....	9
2.6.1	General conditions.....	10
2.6.2	Remedying of defects.....	10
2.7	Validity of the proposal.....	10

1. TECHNICAL PROPOSAL

1.1 Technical summary

1.1.1 Process description

Ahicleaner RB300

The Ahicleaner RB300 Cleaner is a cleaner which is designed for applications, where high debris removal efficiency is still required.
Ahicleaner RB300 cleaners are manufactured from high-quality stainless steel and ceramic, enabling them to be used under high temperature or corrosive conditions.

1.1.2 Dimensioning Data

Following data is information only and are not subject to any liquidated damages.

Product:	Corrugating paper
- capacity	50 ADMTPD
- furnish	OCC
- fractionator	55/45 (SF/LF)

We reserve the right to modify designs and dimensions, particularly if these are due to technical developments in the scope of supply of this quotation.

1.2 Specification of Properties

Supplier undertakes to supply the quality in accordance with the data below. These properties shall apply only if the requirements stated in the "Customer Obligations" clause are met. The specified properties shall be limited to those marked as such in this quotation. Unless otherwise agreed they are valid only in combination with the sampling procedures and testing methods used by the Supplier. All other technical and technological data in this quotation are for information only, to allow integration of this scope into existing and new equipment parts.

Design conditions according to "1.1.2 Dimensioning Data"

1.2.1 Preconditions / customer obligations

Preconditions for specified properties:

- All equipment must be stored carefully to ensure that there is no deterioration or damage before it is installed.
- Suitable buildings, mountings and foundations for all equipment must be provided in accordance with applicable specifications and drawings. The foundation must be resonance-free at the operating speed of the equipment and must be capable of maintaining alignment while subjected to the static and operational dynamic forces of the goods.
- Performance of the required functions of all equipment working in conjunction with the goods supplied must be ensured.
- Equipment shall be properly installed, maintained and serviced; wearing parts, lubricants and coolants have to be checked and replaced in good time.

- Buyer shall provide adequately trained and supervised operating and maintenance personnel to operate all equipment correctly, safely, efficiently and in compliance with any instructions or operating manuals provided by Supplier.
- Buyer shall keep full and accurate records of the general operational performance and in particular of the specified properties, for all major equipment items in accordance with good operating practice, and grant the Supplier access to these records at all reasonable times until take-over/acceptance.

Preconditions for performance test:

- Buyer must guarantee trouble-free operation of the auxiliary equipment peripheral to the equipment supplied, as well as optimum and stable operating conditions during an optimization period and the performance runs.
- The raw material and additives must correspond to the contractual specifications.
- Buyer's personnel trained by the Supplier must be available for start-up operation and the performance runs.
- If the specified properties cannot be met with Buyer's personnel, the Supplier shall have the right to prove performance with Supplier's own personnel.

1.2.2 Performance testing procedure

Acceptance certificate:

- If the specified properties are fully and finally reached in any of the following circumstances or the liquidated damages have been paid, the Buyer shall accept the equipment and sign the Acceptance Certificate:
- where records show that the specified properties have been achieved during normal production conditions,
 - both parties agree in writing that the goods are performing satisfactorily,
 - the performance runs are successfully completed,
 - the performance run is interrupted three times for reasons not attributable to the Supplier, it has been impossible to carry out the scheduled performance runs due to reasons not attributable to the Supplier within 6 months from the start-up or 8 months after readiness for shipment whichever is earlier, or 2 months after the Supplier advised readiness for the performance runs, but was unable to do so for reasons not attributable to the Supplier.

1.2.3 Remedies / liquidated damage schedule

- Remedies and liquidated damages will be a part of the final contract and will be mutually agreed, with stipulations such as
- All specified properties shall be related to a scheme of liquidated damages (details to be defined),
 - Supplier's liquidated damages for failure to meet the specified properties shall in no event exceed 5% of the final total price.
 - Payment of any and all liquidated damages shall be in full and final settlement of Supplier's default.

1.3 Scope of supply

Our scope of supply is based on your inquiry and our pre-engineering. The size, quantities and types of some equipment and / or components (e.g. valves, instruments, pumps, motors and pipes) will be finalized according to the detailed engineering.

1.3.1 Equipment list

The delivery includes the main equipment listed below according to the enclosed technical specifications.

Cleaner

SC133VC Plant

1.3.2 Battery limits

The scope of supply includes the components and/or services and/or engineering explicitly mentioned in this quotation.

All other parts are excluded and are to be provided by the Buyer. Supplier will assist the Buyer with his advice if required (details to be discussed).

1.4 Technical specifications

Pos	QTY	Equipment
	One (1)	Andritz SingleCleaner SC133VC

Operating data:

Raw material:
Feed:
Feed consistency:
Accept:
Accept consistency:
Amount of cleaner stages:

OCC
61 bdm/d
1.7 %
50 bdm/d
1.55 %
2

Technical data:

Maximum feed pressure:
Nominal pressure drop:

3.0 bar
1.3 bar

Vortex control dilution water:
amount, SingleCleaner SC

0.67 l/s/cleaner
3.0 bar
100 ppm

max. suspended solids

Stage:	Type of Cleaners:	Banks:	Amount of cleaners/ Stage:	Cone type:	Cone material:
1. Stage	SC 133VC	1	7	CE3	Ceramic
2. Stage	SC 133VC	1	2	CE4	Ceramic

Scope of supply:Cleaner unit:

Cleaner bodies, made of Polyamide; cones; O-ring seals; Vortex-Nozzles made of stainless steel AISI304;

Cleaner headers:

Feed, accept, and reject manifolds, made of stainless steel AISI304; pipe connections, (unflanged); connections for air-relief with shut-off valves, R $\frac{1}{2}$ " female thread; connections for pressure transmitters (type PMC or equal), 3 pcs / stage; made of stainless steel AISI304;

Reject pipes:

With reject hoses made of Nitrile rubber;

Support frame:

Made of steel AISI304;

Foundation bolts;

Special tools:

One (1) key for joint nut; one (1) opening tool for plugged cleaner;

Exclusions:

Instruments;

1.5 Service specifications

1.5.1 Basic engineering

The following documents will be issued for Seller's equipment only. The Andritz TC standard plant numbering and identification system is applied for all basic engineering									
Document				Supplied by	Delivery Date (weeks)	Remark			
				ATC	Buyer	Prelim	Final		
Foundation and load data for single machines Machine and equipment dimensional drawings Equipment lists Instrument lists Process Description	X	X			C+2	A+2		A=Contract A=effective A=Approved A=Approval flowsheet	Af+4
	X				C+2				
					C+2				
	X	X	X						

Document	Supplied by		ATC	Buyer	Delivery Date (weeks)		Remarks
					Prelim	Final	
<div>EOM – INSTRUCTIONS Erection – Operation – Maintenance</div> <div>(*) Complete manual for Seller's equipment, comprising - Safety instruction - Technical data - Process description - Technical descriptions - Erection / Installation instructions - Operation instructions - Maintenance instructions - Parts book - Certificates</div>							

1.6 Drawings

Dimensional drawings

1.7 Enclosures

2. COMMERCIAL PROPOSAL

2.1 Introduction

2.1.1 Executive summary

Our scope of supply includes the components and/or services and/or engineering explicitly mentioned in the Technical Proposal, clause 1.3, "Scope of Supply". All other parts are excluded.

2.2 Price for main equipment

Cleaner SC133VC Plant	1 set	USD
Freight		13,000
Total		500
		13,500

2.3 Price basis

2.3.1 Currency

Our prices are quoted in USD.

2.3.2 Taxes

Our prices exclude VAT.

2.3.3 Duties

Import duties are excluded.

2.3.4 Terms of delivery

Our terms of delivery are CIF Saigon port, Vietnam according to INCOTERMS 2000.

2.4 Terms of payment

2.4.1 Payment schedule

100% by T/T in advance against readiness of shipment in favor of Andritz Technologies Ltd. Through VIETCOMBANK Ho Chi Minh City Branch, Vietnam

2.5 Project schedule / delivery time

The delivery time of the equipment shall be 4 months EXW from signing contract.