STOCK WASHING EQUIPMENT

EQUIPMENT PROPOSAL DATA SHEET
(To be filled out and returned with Proposal)

API PROJECT NO. 07100
SJB PROJECT NO. 91-0103

EQUIPMENT: BIDDER:

Stock Washing Equipment
Mill Eq. No.

(11) Field Service	
(a) Daily Rate	See Quote
(b) Estimated Installation Requirements	Install cylinders in vats
(12) Terms of Payment	See Quote

TECHNICAL SPECIFICATIONS

(1) Wastepaper Furnish	Secondary fiber deinking grades with 10%-15% ash content at the pulper. Primarily wood-free grades with 10% or less groundwood content, including pre-consumer ledgers, carbonless and post-consumer waste.
(2) Ash Content of Pulper Furnish	10%-15%
(3) End Use of Sec. Fiber	Carbonless paper grades and fine paper.
(4) Operating Requirements	
(a) Req'd Feed Rate (B.D. tpd)	412 BD TPD
(b) Target 1st Stage Feed (B.D. tpd)	412 BDTPD
(c) Target 1st Stage Feed Flow	5600-6000 gpm
(d) Target Feed Consistency (%)	0.9 to 1.2%

STOCK WASHING EQUIPMENT

EQUIPMENT PROPOSAL DATA SHEET
(To be filled out and returned with Proposal)

API PROJECT NO. 07100
SJB PROJECT NO. 91-0103

EQUIPMENT: BIDDER:

Stock Washing Equipment
Mill Eq. No.

(e)	Percent Ash in 1st Stage Feed (%)	Up to 15%
(f)	Min. Ash Removal Efficiency (%)	75%
(g)	Required Last Stage Accepts	330-360 BDTPD (Preliminary vendor balance for 331 BDTPD at 4%-5%.)

(5) Operating Characteristics

(a)	Ash in Accepts (B.D. tpd)	See sample report and flow sheet
(b)	Fiber In Accepts (B.D. tpd)	" " " " " "
(c)	Ash in Filtrate (B.D. tpd)	" " " " " "
(d)	Fiber in Filtrate (B.D. tpd)	" " " " " "
(e)	Total Consistency of Accepts (%)	" " " " " "
(f)	Total Consistency of Filtrate (%)	" " " " " "
(g)	Ash Removal Eff. (%)	Approx. 80 %
(h)	Maximum Production Rate (B.D. tpd & % Consis.)	450 BDTPD 1st stage feed 1.5 % Consistency

STOCK WASHING EQUIPMENT

EQUIPMENT PROPOSAL DATA SHEET
(To be filled out and returned with Proposal)

API PROJECT NO. 07100
SJB PROJECT NO. 91-0103

EQUIPMENT: BIDDER:

Stock Washing Equipment
Mill Eq. No.

(i)	Feed Pressure:	
	(1) Min. (psi)	3 - 5 psi
	(2) Design (psi)	3 - 5 psi
	(3) Max. (psi)	3 - 5 psi
(j)	Basis Weight:	
	(1) Minimum	N/A
	(2) Design	
	(3) Maximum	
(k)	Hydraulic Feed Flow (gpm): Per washer	
	(1) Minimum	1,000 GPM (approx.)
	(2) Design	2,800 GPM
	(3) Maximum	4,600 GPM
(l)	Wire Speed (fpm):	
	(1) Minimum	3 rpm
	(2) Design	10 - 12 rpm
	(3) Maximum	18 rpm
(6)	Drives	
	(a) Total No. of Drives	One per washer
	(b) Total Power Consumption	12 kW per washer

STOCK WASHING EQUIPMENT

EQUIPMENT PROPOSAL DATA SHEET
(To be filled out and returned with Proposal)

API PROJECT NO. 07100
SJB PROJECT NO. 91-0103

EQUIPMENT: BIDDER:

Stock Washing Equipment
Mill Eq. No.

(c) Motor Base Speed — 1800 rpm

(d) Motor Horsepower — 20 HP

(e) Motor Speed:

(1) @ Req'd Feed Rate — 1800 rpm fixed speed

(2) @ Max. Feed Rate — " " " "

(3) @ Min. Feed Rate — " " " "

(f) Motor Jog/Crawl Requirements:

(1) Speed (rpm) —

(2) Torque — Output rated torque - 10,000 Nm

(3) Time Duration (Sec.) —

(g) Motor Acceleration Requirement —

(h) Torque vs. rpm Requirement (Dwg. No.) — Not available

(7) Gearbox & Mech. Dr. Components

(a) Gearbox Manufacturer — Flender, Elgin, IL

(b) Gearbox Type — K160 Helical Bevel Variable Speed

(c) Gearbox Ratio — 229/1

(d) High-Speed Coupling —

(e) Low-Speed Coupling — N-Eupex A-350

STOCK WASHING EQUIPMENT

EQUIPMENT PROPOSAL DATA SHEET
(To be filled out and returned with Proposal)

API PROJECT NO. 07100
SJB PROJECT NO. 91-0103

EQUIPMENT: BIDDER:

Stock Washing Equipment
Mill Eq. No.

(f)	Equip. Inshaft (if required) Description	N/A
(g)	Equipment Drive Shaft Description	Outlet to thickener 110 mm dia. x 210 mm long with key
(h)	Gearbox Service Factor	20,000 hours
(i)	Gearbox Input Shaft Dia.	Motor shaft dia. 28 mm
(j)	Gearbox Output Shaft Dia.	
(8)	Lubrication System	Circulating type lubrication
(9)	Spare Parts Price List Att.	yes
(10)	Machine Clothing:	
(a)	Description	10/cm mesh stainless steel wire
(b)	Itemized Price Included	yes
(c)	Established Domestic Sources (List)	None - by FINCKH
(d)	Expected Replacement Frequency	3 - 5 years
(11)	Roll Covering:	
(a)	Description	No rolls

STOCK WASHING EQUIPMENT

EQUIPMENT PROPOSAL DATA SHEET
(To be filled out and returned with Proposal)

API PROJECT NO. 07100
SJB PROJECT NO. 91-0103

EQUIPMENT: BIDDER:

Stock Washing Equipment
Mill Eq. No.

(b) Established Domestic Sources (List) _____

(c) Vendor's Expected Frequency of:

(1) Grinding _____

(2) Re-covering _____

(12) Weights

(a) Total to be Supported on Owner's Supports (Dead Load) Pounds — See Quote and Drawing

(b) Total to be Supported on Owner's Supports (Dynamic Load) Pounds — See Quote and Drawing

(c) Description, Size, & Weight of Largest Piece to be Installed — Cylinder Vat - See Drawing

(d) Description, Size, & Weight of Heaviest Item to be Serviced — Cylinder - 7,700 lbs

(e) Equipment Load Plan Drawing Describing (b) & (c) above — See Sketch

STOCK WASHING EQUIPMENT

EQUIPMENT PROPOSAL DATA SHEET
(To be filled out and returned with Proposal)

API PROJECT NO. 07100
SJB PROJECT NO. 91-0103

EQUIPMENT: BIDDER:

Stock Washing Equipment
Mill Eq. No.

(f) Gearbox

(13) Access & Service Data
(Vendor to Attach Drawing or Documentation)

(a) Roll Removal Procedure — No rolls

(b) Wire Removal Procedure — See letter

(c) Service, Access, and Clearance Requirements — See drawing

(14) List of all Meters, Gauges, Controls, Indicating Lights, Furnished w/Component Manufacturers Listed — None

(15) List all Mech. Components, Bearings, Air Cylinders, etc., w/Component Manufacturers Listed — "

(16) Electrical One-Line Dwg. w/Recommendations Shown (Drawing No.) — "

(17) Miscellaneous Auxiliary Motors Furnished w/Equipment
(If Required)

(a) Quantity — 2 per washer

(b) Horsepower — 2 HP

(c) rpm — 3600 rpm

STOCK WASHING EQUIPMENT

EQUIPMENT PROPOSAL DATA SHEET
(To be filled out and returned with Proposal)

API PROJECT NO. 07100
SJB PROJECT NO. 91-0103

EQUIPMENT: BIDDER:

Stock Washing Equipment
Mill Eq. No.

(18) Balanced Vendor Flow Diagram Drawing Number	Sheet # 4
(19) Owner Services Required	
(a) Cooling Water (if req'd) (Mill has 80°F Water Available)	None
(b) Seal Water (if req'd) (Mill has 80°F Water Available)	"
(c) Hydraulics	"
(d) Instrument Air (Mill has 65 psig Air Available)	"
(e) Mill Air (Mill has 65 psig Air Available)	"
(f) Low-Pressure Showers	"
(g) High-Pressure Showers	150 GPM at 60 psi
(h) Other	
(20) Materials of Construction	See Quote

STOCK WASHING EQUIPMENT

EQUIPMENT PROPOSAL DATA SHEET
(To be filled out and returned with Proposal)

API PROJECT NO. 07100
SJB PROJECT NO. 91-0103

EQUIPMENT: BIDDER:

Stock Washing Equipment
Mill Eq. No.

(21) Summary of Motor Requirements

(a) Variable Speed Electric Drive/Motors to be Furnished by Owner:

Service	Type	HP	Speed Range (rpm)	Torque Range (ft.lbs.)
Drive	V/S	25	3 to 18	8,000 to 10,000 Nm
			to	to
			to	to
			to	to

(b) Electric Motors to be Furnished by Owner and not Included in Lump Sum Bid:

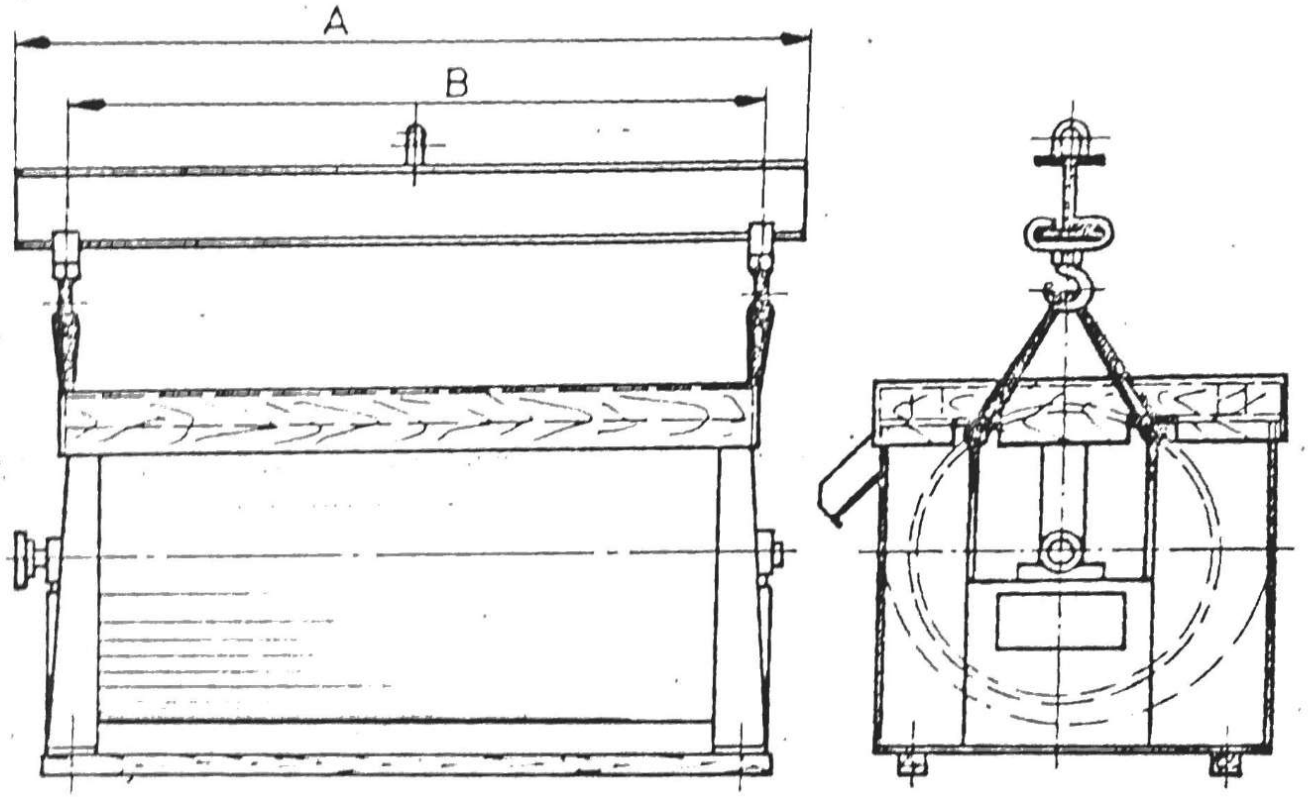
Service	Frame Size	HP	Speed

(c) Electric Motors Furnished by Equipment Supplier and Included in Lump Sum Bid:

Manufacturer	Service	Frame Size	HP	Speed
Siemens	Blowers	184 T	2	3600

3. Transportation

The Thickener is seaworthy packed for shipment as follows: Cylinder in folded design with cylinder trough and stock take-off device, as well as stock inlet box and regulating gear motor are packed separately in one case each (altogether three cases).



Weight incl. gear and stock inlet box, however without water filling and covering cap

Model	A	B	Weight kg	IBP DIN 1025
EF 1350	6000	5400	6500	300