

# **Technical – Specification**FWD1 for 150TPD OCC Line

Proposal No.: DTVN121015

Version No.: 01

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#### 1. TECHNICAL PROPOSAL

### 1.1 Technical summary

#### 1.1.1 Dimensioning data

This FWD1 is as a detrasher machine for 150TPD OCC line.

Here, the following restrictions apply:

Prohibitive materials, e.g. plastic, metal, glass, sand, wood, textiles, styrofoam etc., max. 7%, but heavy material limited to 1%

Unsuitable papers, like e.g. wet strength, bituminized, varnished, dyed, waxed and any fibrous material witch is not according to grade specified etc., max 2%

All data listed above is for information only and are not subject to any liquidated damages.

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 "1.1.1 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 resonancefree 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:

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- 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.



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#### 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.

#### 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).

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# 1.4Technical specifications of OCC line

### One (1) Andritz FibreWashDrum™ FWD1

#### Operating data:

drum diameter:	1000	mm
perforated length:	1940	mm
drum revolution:	17	rpm
drum perforation:	16	mm

#### Scope of supply:

Frame:

welded, made of standard steel, galvanized

Drum:

welded, made of stainless steel AISI 304;

Filtrate vat:

made of stainless steel AISI 304;

Spray pipe:

made of stainless steel AISI 304, incl. cleaning device and flat jet nozzles

Shaft:

made of standard steel, with roller bearings;

Drive part:

belt drive with slip on gear, two V-belt pulleys, one power belt;

Guards

made of standard steel.

**Exclusions:** 

Motor: Rating:

 Rating:
 2.2 kW

 Speed:
 1,000 rpm

 Frequency:
 50 Hz

 Model:
 B3

 Protection:
 IP 54

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## 2. SERVICE AND ENGINEERING SPECIFICATIONS

Included in main contract

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