



Offer no: OFD-02555-0 Date: 15-06-2023

M1/02

SHAKTI POLYTARP 46. IIDC NIMRANI. **DIST - KHARGOAN** KHARGOAN 451659 INDIA **GST**: 23BFQPS2867R2ZB

Email: shaktipolytarp.india@gmail.com

Subject : Techno-Commercial offer for machine(s)

## **Dear Ravi Singhal**

We thank you for evincing interest in our products.

As desired, please find enclosed:

Sr. No.	Table Of Contents		Qty.
1	Commercial Offer	For below equipment(s)	
2	Technical Offer	Tape Extrusion Line Model Lorex E120B.1600HS with Imported die & Melt pump	1
3	Technical Offer	Tape Winder Model LTW 200CM	312

The offer has both technical and commercial details including clauses related to warranty and erection and commissioning.

Hope that you will find the offer in line with your requirements. However, if you need any further clarification, please feel free to contact us.

Best Regards,



Ram Narayan Manager - Territory Sales Mobile No.: +91 9742312666

Lohia Corp Limited

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Email: ram.narayan@lohiagroup.com LOHIA CORP LIMITED

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# **TECHNICAL SPECIFICATION - TAPE EXTRUSION LINE**



(The product images shown are for illustration purposes only and may not be an exact representation of the product.)

# **TAPE EXTRUSION LINE LOREX E120B.1600HS**

For processing of raffia grade PP

## **TECHNICAL DATA**

TYPE	LOREXE120B.1600HS
EXTRUDER	E120B.30D
DIE WIDTH	1800 mm
WORKING WIDTH(MAX)	1600 mm
LINESPEED MAX.	<b>500</b> mtr. / min.

(Depending upon tape characteristics and material)

The system is designed for the production of tapes for variety of applications mainly stretched tapes for packaging. The machines can be equipped at an extra cost to produce fibrillated tapes and low shrinkage tapes etc.

## INFRASTRUCTURE FACILITIES TO BE PROVIDED BY CUSTOMER

According to the specification of machine installation plan, the customer has to provide the foundation, mains input, cooling water and compressed air supply as well as adequate fresh-air supply and heated air removal. For details, please refer list of recommended utilities.

## **TECHNICAL SPECIFICATION**

The Standard machine is mainly consisting of:-

## HOPPER LOADER

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Consisting of loader with suitable mountings.

## SELF CLEANING TYPE SCREEN CHANGER

The unit is a parallel-operating, double-channel, continuous flow screen changer, each channel being equipped with interchangeable filtering cartridge, not requiring any production stops for cleaning or replacement.

Heating Load 9.6 kW

#### IN-LINE GEAR PUMP SYSTEM

An in-line melt metering pump is installed immediately after the screen changer to deliver constant volume of melt at constant pressure at all times to the die. The control system achieves this by maintaining inlet pressure constant via the extruder speed and running the pump at fixed rpm for fixed output. The melt pump has;

Specific Capacity176 cm3 / rev.Max. Speed100 rpm

#### 1 SEPARATE MELT PRESSURE GAUGE CUM MELT TEMPERATURE SENSOR

With pressure indicator, with two level contacts, one for operating a sound signal and the other for switching off the main drive motor.

Measuring Range0 - 500 barTemperaturemax 400° CWith melt temperature indicator formax 400° C

## **1 TEMPERATURE CONTROLLED LOCK-OUT DEVICE**

For the protection of Extruder against cold start-up.

#### 1 SEPARATE MELT PRESSURE GAUGE CUM MELT TEMPERATURE SENSOR

With pressure indicator, with two level contacts, one for operating a sound signal and the other for switching off the main drive motor.

Measuring Range	0 - 500 bar
Temperature	max 400° C
With melt temperature indicator for	max 400° C

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## **1 TEMPERATURE CONTROLLED LOCK-OUT DEVICE**

For the protection of Extruder against cold start-up.

#### CONNECTING PARTS BETWEEN EXTRUDER AND SHEET DIE

In connection with screen pack changer consisting of one connecting flange with one heating zone and one gauge hole for melt temperature gauge, with screw plug.

#### SHEET DIE (US MAKE DIE)

With flexible die lip, opening range of 0.0 to 1.0 mm approx. lip adjustment by means of pressure screws, flow channels rheologically optimized, hard chromed, the external die surfaces flash chromed, including heating, complete with temperature control in the control panel and ready wired for connection.

#### SPECIFICATION

Slit Width	1750 mm.
Heating Capacity	28.80 kW Approx.
Control Zones	Seven
Type Of Lip	Flexible non-exchangeable plain lip

#### WATER QUENCH TANK

Consists of individual motor drive for top take-up rollers, individual motor drive for draw unit bottom take-up rollers, take-up rollers with one chromed steel roll and one pneumatically operated rubber roll, adequately sized steel quench tank, modular design for high speed application, extended film take-off path, independent heat exchanger system with water pump & temperature controlled metering valve, single pair of scrapers, single pair of wipers, unique water removal system for high operating speeds with two pair of air knives and single pair of aspiration tubes.

Aspiration Blower Motor	5.5 kW
Take up roller 1	3.7 kW
Take up roller 2	3.7 kW
Air-Knife motors	11.0 kW

## SIX STATION INDEXIBLE SLITTER

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The unit is equipped with holding bar, which holds six rows of blades at equal angles. Specially designed round spacers ensure identical spacing of all the six stations at one time. The cutter rail is with an oscillating mechanism for the full utilization of blade edges.

Oscillating Drive 0.18 kW

## EDGE TRIM RECYCLING UNIT WITH MIXER

For direct return of narrow edge trims of non-stretched film into the extruder, consisting of a shredding mill with blower, piping, and air separator (cyclone) and force feeding screw.

Shredding Mill Motor	3.7 kW
Blower Motor	3.7 kW
Mixer Motor	1.1 kW

#### HOLDING UNIT

With three standard godets, each having diameter of 318 mm, one press roll, control panel with digital speed display and guides for end tapes, with a drive system comprising of AC geared motor, driven by suitably rated inverter.

7.5 kW Motor rating Max speed 100 m/min

#### HOT AIR OVEN

Uniquely designed, energy efficient oven with two circulation blowers motor driven by suitably rated inverter, integrated control panel with continuous PID.

Length of Heating Channel	6.0 Mtr
Fan Motor - 2 Nos.	11 kW
Heating Load	97.5 kW
Air Velocity Adjustable	10 - 20 Mtr/sec

## MODULAR STRETCHING AND ANNEALING UNIT

Comprising of robust cast iron and steel structure for supporting six godets, having diameter 436 mm. arranged as a sextet as under

#### Four Standard Godets

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Two Cooling Godets

Two press rolls, a pair of static charge eliminators (ionization bars), control panel with digital speed display, one guide rod at out feed side, with one Hot Oil Unit including foot operated emergency switch, with independent drive systems each comprising of AC geared motor, driven by a suitably rated inveter.

Stretching Unit motor rating45 kWAnnealing Unit motor rating22 kWMaximum speed of Stretching Unit525 m/minMaximum speed of Annealing Unit500 m/min

## SYNCHRONIZATION OF GODET SPEEDS WITH MELT PUMP RPM

The speeds of the holding, stretching and annealing units are synchronized with the melt pump rpm i.e. when the melt pump rpm is increased, the speed of the other godets units increases in the ratio as present in the process.

## TAPE EXTRACTION DEVICES

Designed as a start-up aid and broken tape suction device at holding unit and annealing unit, constructed as a one-part system mainly consisting of suction nozzles, feed pipes, feed pipe extensions and waste collection box blower driven by suitably rated inverter.

Suction Blower Motor 18.5 kW

#### DISTRIBUTING PANEL

For the electrical connections of Extruder and Stretching system.

#### **CENTRALISED COMPUTER CONTROLS**

The computerized control for the tape stretching line consists of a programmable controller and computer-based operator station. All the control functions are centrally controlled by the processor (computer) viz. temperature control, speed regulation, pressure recipe management, alarm management and trending of analog inputs.

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Computer based operating system is having color touch screen monitor and keys assigned for various functions of machine. This has various screens, which display the mimic diagram of the complete machine and various parameters like Temperature, Pressure, Speed Draw ratio, Inverter parameters on real time basis.

The speed reference of the Holding, Stretching & Annealing of respective inverter is hard wired through analog outputs of the computer. The speeds of Holding, Stretching & Annealing unit are synchronized with screw rpm/melt pump rpm. Whenever the screw rpm/melt pump rpm is increased / decreased, the corresponding speed of Holding, Stretching & Annealing unit is increased or decreased as per preset value ratios fed in the computer as per process requirement.

Over and above this, the computer also allows various process parameters to be stored in the memory as a recipe, which can be recalled immediately on request. Thus, optimum parameters achieved of a particular set up can be reproduced exactly at a later date without a need of readjustment.

Running hours of machine and cold start protection features are also included in the software

## **INDUSTRY 4.0 EQUIPPED MACHINE**

A New IoT-based solution allows to connect all shop floor machines (must be IoT equipped)\* of site with single network. This system makes our machines IoT ready/equipped, and it can be activated based on customer's consent. This system allows to download the historical data from the machine and integrate it with the existing Productivity Management Systems (PMS). This also allows to view the customized data on the mobile app in real-time and configure them as per specific requirement. This solution also provides the flexibility to integrate the data in any existing IoT system<sup>\*</sup>. The system can be configured to use locally (on-premises) or globally depending on the requirement and based on consent given by the customer.

\*Feasibility/Flexibility need to be checked from LCL.

#### WIRING

Wiring between panels and machine for arrangement according to our standard foundation drawing.

Panels will have provision for separate heating & motive load

## SPECIAL TOOLS

Mechanical: Consisting of:

a) One Torque wrench for godet run-out adjustment.

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b)One Mechanical screw extractor comprising of one threaded spindle with thrust piece and two extensions as well as one threaded insert for screwing into gear drive shaft.

Testing equipment: Consisting of:

- a) One no. Tape thickness gauge
- b) One no. Tacho meter
- c) One no. Illuminated magnifying glass

#### MATERIAL HANDLING AIDS

We supply many material-handling aids to facilitate movement/erection and commissioning of the machine. For easy recognition, these items are painted in golden yellow colour.

#### **ORIENTATION OF TAPELINE: RIGHT HAND**

## **RECOMMENDED UTILITIES FOR TAPE EXTRUSION LINE**

#### 1. COMPRESSOR

a) If tape suction guns are not used:

Capacity 20 CFM Pressure 6-7 bar

b) If two nos. tape suction guns are used:

Capacity 165 CFM Pressure 6 - 7 bar

Separate air receiver tank of capacity 1,000 litres is recommended for tape line & winders (excluding tape guns).

Note: Optimum power consumption of Air Compressor can be achieved with variable drive rotary screw compressor having built-in dryer like GA 37 VSD model from M/s Atlas Copco .

#### 2. AIRDRYING UNIT

- a) Capacity Matching compressor capacity as in point no. 1 above.
- b) Pressure 6 - 7 bar
- 3° C c) Dew Point

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## 3. CHILLINGPLANT

Process requirement : 61 TR (184,584 Kcal/hr)

This requirement is for normal tape production application. For low shrink tapes, the chiller capacity would depend on tape specifications and production requirement. The selection of the capacity of the chiller and the type of chiller (air or water cooled) has to be done by the Buyer in consultation with the Chiller manufacturer. Chilled water is required at Extruder's Feed zone, Extruder's Gear Box, Water bath Unit, Intermediate Stretching Unit and Annealing Unit. The technical data for chiller selection is given below. The temperature and pressure are at the last point in the water distribution circuit of the Tape Extrusion Line:

FLOW RATE	INLET TEMP.	WATER PRESSURE
44,636 L/hr.	18°C	4 bar (Kg/cm )

Cooling water should meet the following requirements

a) pH value (at 25° C)	7 to 8
b) Total Hardness	<= 178 ppm (Parts per million)
c) Carbonate Hardness	<= 110 ppm (Parts per million)
d) Chlorides	<= 40 mg/litre
e) Ferric oxides	<= 0.1 mg/litre
f) Oxygen contents	<= 4 mg/litre

#### WATERSOFTENING PLANT 4

a) pH value (at 25° C)	7 to 8
b) Total Hardness	<= 178 ppm (Parts per million)
c) Carbonate Hardness	<= 110 ppm (Parts per million)
d) Chlorides	<= 40 mg/litre
e) Ferric oxides	<= 0.1 mg/litre
f) Oxygen contents	<= 4 mg/litre
g) Capacity	350L/hr. Max If closed cooling water circuit is followed.

## 5. TESTING EQUIPMENTS

Customer has to ensure that the following equipments are available at the time of commissioning:

a) Denierweighing scale	Least count 0.01 gm range 1 gm to 100 gm
b) Tensile Tester	(a) for normal tape - 0 to 10 kgf

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(b)for heavier tapes - 0 to 50 kgfc) Precision Balance1 gm to 200 gmd) Micrometers0.001 least counte) Yarn reelfor checking denierf) Humidity tester etc.0 to 100%

## 6. ELECTRICALS

6.1 The customer shall provide clean Three Phase power supply to the machine with proper neutral point. Three-phase voltage with following fluctuations should be made available. For mains supply of 3X415V / 50Hz with separate neutral and earth. The neutral wire must be fully loadable.

#### Admissible fluctuations

Voltage : -10% to+5% Frequency : +/- 2%

In case the voltage variation is beyond the limits as specified above, suitably rated voltage stabilizer(s) will have to be installed by the buyer, at their cost, to ensure regulated power supply to the machine.

6.2 The customer shall provide clean Three phase power supply to the machine, with adequate neutral point. The machine should be properly earthed with min. two earth pits (based on earth resistance value of site) so as to provide earthing resistance of less than 2 ohms. All earth pits prepared for this m/c should be interconnected with each other. The earth pit should be made as near as possible to the m/c and should not be shared with any other machine, equipment & other installations present at customer's premises. The interconnection between earth pit & Tape Line m/c should be made by two parallel copper strips of min. size 25X6 mm<sup>2</sup> or can be done by two parallel multi strand single core armored copper cable of min. size 95 mm<sup>2</sup>.

## 7. LUBRICANTS

First fill of oil in the gearbox is provided as standard with the machine. However this is subject to constraints /regulation of shipping which may be prevent supply of this oil. Thelubricants used in the Tapeline should be available with the customer before the commencement of erection and commissioning. Details of Lubricants / oil required for Hot Oil Unit will be provided on the finalization of the order.

## 8. AMBIENT CONDITIONS

Temperature	15 to 45°C
Relative Humidity	60 to 90% RH
Recommended lighting	250 Lux
Altitude above sea level	max 1000 m

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If any of the conditions specified above not met in the production facility, customer has to notify LOHIA Corp Limited accordingly. The production hall / plant should have continuous ventilation corresponding to the climatic condition to maintain the hall's temperature and humidity as well The height of top most point of the standard TapeLine is approximately 3.9 meters. It is recommended that the shed height may be chosen accordingly.

#### 9. LAYOUT

The preparation of the concrete floor should have load-bearing capacity of 2.5 MT / sg. mt/ and other details as per the layout provided by us.

#### 10. UTILITIES

The installations of the mains electric power supply, water inlet / outlet and compressed air connection should be as per our Scope of supply and layout. Suitable provision for lighting, transport equipment and lifting methods have to be made by the customer. The maximum weight of the case would be 8000 kg and the maximum dimensions of length, width and height of these cases would be 700 x 229 x 225 cm.

## 11. SPECIFICATION OF RECOMMENDED (CaCO3) FILLER MASTERBATCH

## **DESCRIPTION:**

Appearance	Granulate
Colour	white
Content CaCO3	65 to 80%
Carrier Polymer	Preferably PP for PP processing and LLDPE for HDPE processing
Additives	3%
Coating	Calcium Stearate

## **CLASSIFICATION:**

Pellet size	3mm (around)
Melt Filtration	100 m

## **PROPERTIES OF CALCIUM CARBONATE POWDER:**

Mean Particle Size (d50%)	1.5 to 2.5µm
Top Cut (d98%)	5 to 8µm
Mohs-Hardness	3

## MAXIMUM CONTENT ALLOWABLE:

Fe2O3(Mohs hardness up to 6) 0.02%

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AI2O3(Mohs hardness up to 6)	0.05%
Cr2O3(Mohs hardness up to 8)	0.02%
SiO2(Mohs hardness up to 8)	0.7%

## **RECOMMENDED BRANDS OF CACO3 FILLER MASTERBATCH:**

1) Alok Masterbatch, India (FMBA Plus - for processing PP, FMBA Super P- for processing HDPE)

2) Plastiblends, India (Polywhite 93 AP - for processing PP, Polywhite 93 AH- for processing HDPE)

3) Gabriel-Chemie, Austria (Maxithen PP7A7120ASP-for processing PP, Maxithen HP7A7130ASP-for processing HDPE)

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# **TECHNICAL SPECIFICATION - WINDERS**

## TAPE WINDER : MODEL LTW 200CM

For winding of polyolefins flat & fibrillated Tape.

## **TECHNICAL DATA:**

Tape width range	mm	1.8- 4.0 #
Tape width range(optional)**	mm	4.0- 6.0 #
Denier range D		400- 3000 #
Length of Traverse	mm	200
Bobbin core ID	mm	35*
Bobbin core length	mm	218
Maximum bobbin diameter	mm	160
Winding speed	m/min	160- 450 #
Voltage(V) & amp; Frequency (Hz)		415V,50 Hz

# Extreme values cannot be combined.

\* Other options on request.

\*\* Requires extra traverse guides

The system is designed for the production of cylindrical packages for variety of applications. The machine can be equipped at an extra cost to produce packages of optional tape width range with different crossing ratio.

# **TECHNICAL DESCRIPTION**

The tape winder model LTW 200CM has been specially designed for winding flat and fibrillated tape on cylindrical cheese tubes. This can be used to produce warp and weft packages for Circular weaving machines.

This tape winder meets the requirements of highest precision and flawless quality at higher working speeds. Complicated mechanisms are eliminated thereby reducing the maintenance and energy consumption significantly. It is supplied with 6 winder heads on top of each other in a robust distortion free frame in a space saving arrangement. The frames are ready for installation and can be quickly assembled to complete units for the required number of winder heads. Each spindle is driven by an AC motor with individual frequency inverter regulated by dancing arm.

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The tape winder is designed for horizontal tape supply. Each winder head is equipped with guide elements ensuring the exact and smooth feeding of the tape with pressure adjustment device. A user-friendly lever allows the quick replacement of full bobbin by empty cheese tube.

The standard version of the tape winder includes:

#### DRIVE

Each spindle is driven by a high efficiency 3-phase AC motor controlled by individual frequency inverter. Drive power transmission for traverse mechanism is via timing belts featuring lower maintenance and noise.

#### COMPENSATING DEVICE

Dancing arm provides a constant tape tension and delivers a signal to the frequency inverter which regulates the winding speed in synchronisation to the tapeline speed.

#### PRESSURE ADJUSTING DEVICE

Adjustable spring pressure mechanism is provided between pressure roller and rotating package for optimizing package quality.

#### DAMPENING DEVICE

Variable pressure for dampening device allows jerk free movement of traverse mechanism to deliver a good quality package.

#### **CLAMPING DEVICE**

A user-friendly lever is used to release the cheese tube when pushed upward. After a pre-determined time from the breakage of the tape, the drive motor will switch off automatically. When the lever is released downward, it expands the mandrel and then the cheese tube is centred and locked.

#### HIGH PRECISION TRAVERSE MECHANISM

Precise transmission ratio is obtained by a reversing scroll shaft driven via timing pulleys. High speed, metallic, double groove roller cam and SS tape guide with twin bead ceramics for longer life.

## SETTING OF DIFFERENT CROSSING RATIOS

Easily obtained by replacement of timing pulley's and / or belts.

## WINDING TENSION

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Optimum setting of winding tension of a tape of particular denier and width is possible by manual adjustment of spring loaded graduated collar.

#### FRAMES

For comfortable operation on both the sides with accessible arrangement and easier maintenance, frames are available in configuration of 24 winders as standard and of 12 winders against special requirement.

## **RECOMMENDED UTILITIES FOR TAPE WINDER: MODEL LTW 200CM**

#### 1. ELECTRICALS

1.1 The customer shall provide clean power supply to the machine. Three-phase voltage with following fluctuations should be made available.

For mains supply of 3X415V / 50Hz with separate neutral and earth. The neutral wire must be fully loadable.

#### Admissible fluctuations

Voltage -10% to +5% Frequency +/- 2%

In case the voltage variation is beyond the limit as specified above, suitably rated stabilizer(s) will have to be installed by the buyer, at their cost, to ensure regulated power supply to the machine.

1.2 The machine should be properly earthed with two independent earthing pits so as to give earthing resistance of less than 2 ohms.

#### 2. AMBIENT CONDITIONS

It is recommended to maintain the plant temperature and humidity as given below to minimize the failure of electronics in the machine.

Temperature	15 to 45 C
Relative Humidity	60 to 90% RH
Recommended lighting	250 Lux
Altitude above sea level	1000 m (max.)

Should one of the conditions specified above not be met in the production facility, customer has to notify LOHIA Corp Limited accordingly.

#### 3. GENERAL

#### 3.1 It is recommended to have a Compressor for air supply to the machine for cleaning purpose.

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3.2 Customer should make necessary arrangement for proper illumination in the shed & on Cheese winder.

3.3 The cheese tube quality is very important for optimum performance of the winders. Specifications of these tubes will be provided by the seller on confirmation of the order.

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# COMMERCIAL OFFER

## PRICE SCHEDULE :

Sr. No.	EQUIPMENT	Qty.	UNIT PRICE (INR)	TOTAL PRICE (INR)
1	Tape Extrusion Line Model Lorex E120B.1600HS with Imported die & Melt pump	1	32,194,000.00	32,194,000.00
2	Tape Winder Model LTW 200CM	312	32,500.00	10,140,000.00
	TOTAL PRICE: Ex-Works			42,334,000.00

## **BASIS OF PRICES:**

The above prices are EX-Works inclusive of road worthy packing but exclusive of all taxes, duties and levies as applicable at the time of removal of goods from our factory. The above prices are subject to the enclosed variation clause.

## SUPERVISION OF ERECTION and COMMISSIONING:

Should the Buyer elect to assign the task of supervision of erection & commissioning of equipment to the Seller, the Seller shall arrange to do so at the price of INR 2,00,000/- per machine for Tape Extrusion Line, INR 200/- per spindle for the Winders and INR 10,000/- per machine for Circular loom. In addition, the Buyer has to pay for installation a fixed amount of INR 3,500/- per day per person plus 'Goods & Services Tax' as applicable at the time of installation for the number of days the service person is present at the Buyer's site. Present rate of 'Goods & Services Tax' is @18%.The Buyer is required to pay all the charges for weekly off's/Sundays, Public Holidays which occur during the stay of the service person (s) at Buyer's site. In addition to this actual site transportation expenses have also to be paid by the Buyer.

## **DELIVERY**:

The equipment ordered can be delivered in Ex-Works 5 months(approx.) from the date of technically and commercially clear order. Delivery of equipment is, however, subject to receipt of balance payment including statutory taxes and levies as applicable at the time of supply against Proforma Invoice 10 days prior to dispatch as indicated in the terms of payment stated below. However, this is further subject conditions and circumstances beyond the Seller's control.

## TERMS OF PAYMENT:

30% of the order value as security deposit along with order payable as below:

#### • 20% with the Order

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10%, 2 months before the first shipment from Seller's works

Balance 70% plus all statutory taxes and levies as applicable at the time of supply shall be payable against Proforma Invoice 10 days prior to dispatch.

All payments should be made by means of a Bank Draft taken out in the name of the Company, on any scheduled bank having its branch at Kanpur or by Bank Transfer / RTGS. All payments are non-refundable and non-interest bearing.

#### SELLER's BANK:

Bank: HDFC BANK LTD. **KRISHNA TOWER** 15/63 CIVIL LINES KANPUR - 208 001 RTGS/NEFT IFSC : HDFC0000127 A/c: 01270330000692

#### TAXES AND LEVIES:

'Goods and Services Tax' on our afore mentioned ex-works prices of the equipment and accessories/ spares shall be charged extra as applicable at the time of supply. Present rate of 'Goods and Services Tax' is 18% ad valorem on the machine and Accessories/ Spares.

#### TRANSPORTATION:

By road on `Freight To Pay' basis. The Seller's responsibility shall cease once they obtain a clean motor receipt from the carrier.

#### **INSURANCE:**

Insurance against all risks shall be arranged by the Buyer at their cost. The Seller shall furnish the necessary dispatch particulars to the Buyer to enable them take insurance cover from their insurers.

#### VALIDITY:

This offer is valid for acceptance within 30 days from the date hereof and thereafter subject to our reconfirmation in writing. We now look forward for your valued order, which will always have our best attention.

# For LOHIA CORP LIMITED

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LOHIA GROUP

M1/02

Offer no: OFD-02555-0 Date: 15-06-2023



Ram Narayan Manager - Territory Sales Mobile No.: +91 9742312666 Email: ram.narayan@lohiagroup.com

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