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**LARK
ENGINEERING
COMPANY (INDIA) PVT.LTD**

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Subject: Your requirement of Feed Machines

Kind Attn.: Sir

Dear Sir,

Please refer to your mail and subsequent telephonic discussion with undersigned regarding above cited subject; we thank you very much for your interest in our machines, which is highly appreciated. We are pleased to quote herewith price and brief details for Mash Feed Plant.

Capacity:- **6-8 Ton/Hr.**
Power Requirement - **62H.P**

We will always be pleased to be of service to you and we hope our offer will fall in line with your requirement.

For more information, please contact us or visit us at www.larkenggco.com

Looking very much forward to hear from you soon.

Best regards

For LARK ENGINEERING COMPANY (INDIA) PVT LTD

Kunal Sharma
Asst. Engineer (Sales & Marketing)
Mob: 9215359685

Enclosures: As above

Mash Feed Plant 6-8 ton/hr (1 ton/batch) (Direct Manual bagging from mixer)
With Full screen Grinder, Double Ribbon Screw Mixer and 8" Bucket Elevator

Sr.No	Item Description	Power (H.P)	Price List (In Rs)
A.1: Pre-Weighing & Intake Section			
1	Weighing hopper with Grill (Cap: 1000 kgs/batch each) (1)		74000
2	Pneumatic Slide Gate (48000 x 1)		48000
3	Load Cell based weighing with (70000 x 1 no) Display for hoppers.		70000
4	Chain Conveyor for transferring weight Batch. (20 feet)	5	116000
5	Supporting Structure for chain conveyor & Pit covering		52500
Total For Section A.1			360500
Section A.2: Intake Section			
1.	Intake Hopper Intake hopper capacity: 150-200 kg	-	19800
2.	Jute remover without geared motor & drives (with extra rotor)	2	135000
3.	Bucket Elevator-I without motor, gear box & chain drive (Ht: 33 ft) <u>Bucket Size:</u> 8" x 5" <u>Belt:</u> M-24 Grade rubberized 4 Ply (MRF or and other standard Make) Foot and Head supported with 40mm x40mm x 6mm angle and Fabricated out of 4mm sheet. Elevator's Boxes supported with 40mm x 40mm x 6mm angle and fabricated out of 2mm sheet. Base Frame of Gear motor fabricated out of 6 mm plate. <u>Platform</u> at top for maintenance is provided with access thru monkey type ladders or via platform and fabricated out of 4mm sheet. <u>Top Pulley</u> is crowned for self-alignment of Elevator's belt.	3	198000
4.	Cascading Magnet Iron thrash etc. going to feed grinder is caught here in this pipe with the help of two powerful magnets. Magnetic Plate self-cleaning type with collection tray. Magnetic Plates are fitted with powerful " Rare Earth Type " magnet.	-	72000
Total for Section A.2			424800
Section A. 3: Grinding Section			
1.	Intermediate Bin over Grinder (1000 kg).	-	70500
2.	Supporting structure and channels Supported structure of angles and channels (75mm x 40mm x 6mm) Support is provided so that load of the intermediate bin is not directly sustain by the Grinder.	-	14000
3.	Slide gate with Flexible Connection. This is provided to isolate the vibration of grinder from rest of the plant.	-	5500
4.	Magnetic Plate at Rotary vane feeder		16000
5.	Rotary Vane feeder for Hammer mill without motor, gearbox & chain drive	2	48000
4.	Full Screen Hammer Mill (QGA-2040) without motor & coupling. Hammer Mill is fabricated with plates of varied thickness depend upon the requirement. <u>Support rings</u> for screen fabricated with 25 mm thick plate. <u>Main body</u> fabricated with 8 mm thick Plate. A special feature of Gap adjustment between screen and hammers is provide for output of varying fineness. Keeping in view the maintenance time wasted in repairing / replacing rotor, We have given a special provision, which hardly takes one hour to dismantle rotor from grinder and then fitting it back to its position without altering the position of the Grinder. Rotor is dynamically balanced.	30	145000
Total for Section A.3			2,99,000

Section A.4: Mixing Section			
1.	Extra Hopper for adding non grindable's directly into mixer via 2 nd Elevator.	-	21450
2.	Bucket Elevator-II without motor, gear box & chain drive (Ht: 39 ft) Bucket Size: 8" x 5" Belt: M-24 Grade rubberized 4 Ply (MRF or and other standard Make). Boot and Head supported with 40mm x40mm x 6mm angle and fabricated out of 4mm Elevator's Boxes supported with 40mm x 40mm x 6mm angle and Fabricated of 2mm sheet. Base Frame of Gear motor fabricated out Of 6 mm plate. Platform at top for maintenance is provided with access thru monkey type Ladders or via Platform.	5	234000
3.	Batch Bin (1 ton) over Mixer Capacity: 1000kg/batch. To temporarily hold ground ingredients over Mixer and discharging Quickly into Mixer. Detail: Supported on angle 63mm x 63mm x 6mm and fabricated out of 3mm sheet. Batch bin's cost includes the dust proof, bearing supported Sliding gate, top-covering sheet of Bin and bottom covering sheet of Mixer.	-	68500
4.	Pneumatic Gate below batch bin	-	42000
5.	Medicine Hopper for Mixer (Material of construction SS 304)		30800
6.	Pneumatic Gate between Medicine hopper and Mixer	-	32000
7.	Double Ribbon Screw Mixer (LHMR-10) (1 Ton) Model: LHMR-10 Capacity: 1000 Kg/batch Power: 15 HP 1440 rpm Motor. Price without motor and gear box. Discharge Gate: Manually operated Rack and pinion type side gate arrangement. Mixer Drum Const: 5 mm Thk MS Mixing Efficiency: It can mix the whole batch within 6 to 8 minutes with coefficient of variation less than 7% Oil/Molasses Tank. A small manually operated tank provided for pouring oil into mixer directly.	15	165000
8.	Pneumatic cylinders (2 nos) with FRL units, Distribution pipes& discharge mechanism with panel		55000
9.	Surge Bin 1.5 ton capacity (3mm) Capacity 1ton/batch. If paddle conveyor is not attached below it then two way flap is provided at its outlet. One leads to Pelleting section and second for manual bagging of mash feed. <u>Const: 3 mm</u> thk Sheet with necessary reinforcement for stiffness.	-	74000
Total for Section A.4		20	7,22,750

Section A.5: Others		
1	All Connecting Pipes & foundation Bolts	22,000

Section A.6: Steel Structure		
1	Double Floor Steel Structure: It will be of completely bolted type with all necessary ribs, railing, stairs and sample space for maintenance.	4,87,500
Total of all the above Sections (Sec A1 to Sec-A6)		23,16,550

Section B.: Motors/ Geared motor/ Gear Box and Drives			
1.	Geared Motor & Chain Drive for Chain Conveyer	5	45420
2.	Geared Motor & Chain Drive for Jute Remover & Geared Motor	2	27200
3.	For BE-I, 3 HP Geared Motor and Duplex chain coupling	3	35500
4.	For BE-II, 5 HP Geared Motor and Duplex chain coupling	5	41820
5.	For Rotary Vane feeder, 2HP Geared Motor with Chain Drive	2	32220
6.	For Hammer Mill, 30 HP 2800 RPM motor	30	61360
7.	For Hammer Mill, Rubber Coupling	-	4150
8.	For Feed Mixer, 15 HP 1440 RPM motor (Foot Mounted Motor)	15	37751
9.	For Feed Mixer, V- Belts	-	2780
10.	For Feed Mixer, Heavy duty, Helical type Gear Box	-	132000
Total for Section B		62	4,20,201

Section C: VFD For Hammer Mill			
1.	VFD and Panel for Rotary vane feeder's control		75,000

Section D: Motor Control Centre			
2.	MCC for all Motors. All Electrical Cable lying from mains to MCC and from MCC to individual Motor will be to your account.	-	1,35,000

Section E: Automation			
1	<u>Automatic Process control:</u> This includes automatic control of gates, auto mixing time control of mixer, fool proof pre –mix addition system to avoid double dose or missing of pre-mixes. All the controllers have auto as well as manual control.		1,45,000

Section F: Compressor & Distribution Pipes			
1	Compressor with motor required for operating pneumatic cylinders with FRL unit With Complete G.I & Pneumatic Pipeline Distribution (Elgi / Inest Iwata Motherson / Crompton Greaves)		1,80,000

Section G: Oil/Molasses Batching section			
1	1. Oil tank – 1000 lts – 1 no. 2. Service tanks – 100 lts – 2 no.s 3. Feed Pump 4. Induction motor – 3 h.p. 5. Load Cells With Weight Indicator Supporting structure		2,65,000
Grand Total For All the above Sections (Section A-Section G)			35,36,751
Final Discounted Price for all the above section			32,00,000
GST @ 12 % on the above machinery			3,84,000
Total With GST			35,84,000

Transportation will be in client scope.

Exclusions:

Civil Work , Sheeting, Truss and Purlins on shed any other not mentioned

Power Factor Panel

Electric Cabling

Earthing

Lighting

Soil Testing

Material for trial run

Constructional & Technical Specification of the Machines

1 Intake Hopper

Intake hopper capacity: 150-200 kg
Inlet Gate control with rack-pinion arrangement.

2 Bucket Elevators

Bucket Size: 8" x 5"
Belt: MRF Make rubberized 4 Ply
Boot and Head supported with 40mm x40mm x 6mm angle and fabricated out of 4mm sheet. Elevator's Boxes supported with 40mm x 40mm x 6mm angle and fabricated out of 2mm sheet. Base Frame of Gear motor fabricated out of 6 mm plate.
Back Stop at top pulley provided to avoid reversal during power failure (for elevator with height more than 35 feet)
Platform at top for maintenance is provided with access thru monkey type ladders or via Platform. Top Pulley is crowned for self alignment of Elevator's belt.

3 Cascading Magnets

Iron thrash etc. going to feed grinder is caught here in this pipe with the help of two powerful magnets. Magnetic Plate self cleaning type with collection tray. Magnetic Plates are fitted with powerful "rare earth type" magnet.

4 All Bins

Fabricated with 3 mm thk Sheet with necessary reinforcement for stiffness. Slope is provided in all bins for free flow of material without jamming.

5 Slide Gate with Flexible Connection

This is provided to isolate the vibration of grinder from rest of the plant. And Bin over grinder is also supported on structure.

6 Full Screen Hammer Mill

Hammer Mill is fabricated with plates of varied thickness depending upon the requirement. Support rings for screen fabricated with 25 mm thick plate, Main body fabricated with 8 mm thick Plate with 12 mm thk supporting plates. A special feature of Gap adjustment between screen and hammers is provided for output of varying fineness.

Keeping in view the maintenance time wasted in repairing/ replacing rotor, we have given a special provision, which hardly takes one hour to dismantle rotor from grinder and then fitting it back to its position without altering the position of the Hammer Mill. Rotor is dynamically balanced.

7 Rotary Vane Feeder

It will be fitted on Full screen Hammer Mill to gradually feed the Hammer Mill. Rate of feeding will be controlled by changing the rotational speed of vane feeder.

Rotary feeder will be fitted with full width magnets. Magnetic Plates are fitted with powerful "rare earth type" magnet. Fabricated out of 6mm Plate with angle support

8 Panel for feeding control of Hammer Mill Feeder

It will be required to change Speed of rotary Feeder for optimum feeding. Variable Frequency Drive, Make: ABB/ Siemens complete with panel. It is provided to control the feeding of raw ingredient to the grinder according to the load on the main motor. Fully Automated control through drive, eliminating manual operation. Provision of manual control through potentiometer if fully automated control fails. Further if Drive fails or due to some mechanical or electrical Fault and whole system stop working, this whole unit can be bypassed with help of the gate provided.

9 Premix/ medicine hopper

Dust proof double door, one sliding and other hinged type Inlet hopper for dumping ground ingredients/ micro ingredient (such as marble, medicines etc) directly to the mixer.

10 Mixer Double Ribbon Screw Mixer

Model: LHMR-10

Capacity: 1000 Kg/batch

Power: 15 HP 1440 rpm Motor with our own make gear box

Mixer Drum Const: 5 mm Thk MS,

Discharge Gate: Pneumatically operated full length drop bottom or double door discharge outlet.

Mixing Efficiency: It can mix whole batch within 6 to 8 minutes with coefficient of variation less than 7%.

Oil/Molasses Tank: A small manually operated tank provided for pouring oil into mixer directly.

11 Surge Bin below Mixer

Capacity 1 ton/ batch.

If paddle conveyor is not attached below it then two way flap is provided at its outlet.

One leads to Pelleting section and second for manual bagging of mash feed.

Const: 3 mm thk Sheet with necessary reinforcement for stiffness.

12 Others

Steel Structure: will be of completely bolted type with all necessary ribs, railing, stairs and ample space for maintenance

Any additional structure required due to alteration in the plant layout (from the standard layout as mentioned above) will be charged extra. If all machines are installed above ground level (no underground fitting) the minimum structure required will be 3.5 tons (approximately)

13 Motors/ Geared motor/ Gear Box and Drives

Geared motor where ever mentioned will be of Bonfiglioli/ Shanthi/ Elecon (PBL)

Induction Motor will be Crompton/ ABB make. For Double Ribbon Screw Mixer: Gearbox for Mixer will be of Helical type.

14 Motor Control Centre

The MCC is consisting of followings:-

- a) An Incoming main switch.
- b) Indication lamp to indicate interchange of phases in Main supply.
- c) Main line Ampere meter and Voltmeter with selector switch and indication lamp.
- d) Switches for all motors.
- e) D.O.L. starters for motors of 10 HP or less.
- f) Star-Delta Starter for motors above 10 HP.
- g) Change over to change direction of rotation of grinder.
- h) All internal wiring of MCC.

MCC is cubical type, self supporting and all starters and switches mentioned will be of L&T/ Schneider/ GE/ Telemecanique make.

15 Paints

All Machines are duly coated with the Red oxide and Painted in the company standard colour. Structure & chequered plate is also Painted. Any repair / touching of paint required after erection of the machines will be done by us, but if customers desire the repaint then he can arrange at his own.

BUSINESS TERMS & CONDITIONS

- 1 PRICE BASIS:**
Prices quoted in this offer are Ex-our works at Yamuna Nagar and with standard accessories only. GST @12% will be charged extra. Any other levies, octroi will be to-your account. The present offer is based on prevailing prices of raw material, standard components, present rate of exchange Government Policies/ taxes, etc. The prices shall be subject to revision in the event of variation of any of foregoing factors as well as those not mentioned.
- 2 TRANSPORTATION:** On to Pay Basis
- 3 PAYMENT:**
25% of total value of order including tax towards advance,
75% balance against delivery at our works (before dispatch).
- 4 DELIVERY:** Between 50-60 days from the date of commercially & technically clear purchase order
- 5 VALIDITY:** This offer is valid for a period of 15 days for Mechanical equipment and 7 days for electrical equipment (If any) and subject to confirmation thereafter. All payment to be made at Yamuna Nagar.
- 6 QUALITY WARRANTY:** Machines manufactured by us are guaranteed against any manufacturing defects for a period of one year. This does not in any case cover defects due to improper use and mishandling. Warranty for Standard items/ equipments such as motors, bearings, V-belts etc which are procured from outside, will be directly given by the supplier / manufacturer.
- 7 FORCE MAJURE:** We shall not be liable for any loss or damage due to late delivery resulting from circumstances beyond our control and in particular, but without prejudice, to the generality of foregoing act of God, war, Government, inability to obtain raw material, equipment, power, fuel, transportation, lockouts, strikes etc.
- 8 ERRORS:** Any typographical errors/omissions in this offer if any, are subject to corrections.
- 9 CANCELLATION:** In the event of cancellation of the order, amount of advance to us will be forfeited in total.
- 10** We reserve all rights to change design or dimensions, as we deem appropriate at any time.
- 11 JURISDICTION:** All disputes subject to Jagadhri jurisdiction only.

For LARK ENGINEERING COMPANY (INDIA) PVT LTD

Kunal Sharma
Asst. Engineer (Sales & Marketing)
Mob: 9215359685