

LEC/E-37/12/2018
December 06, 2018



**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 telephonic discussion you had with the 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 of the **4-6 TPH Mash Feed Plant with Full Screen Grinder and Double Ribbon Screw Mixer (1000 Kg/batch) (Total Power = 49 HP)**

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 details, please visit our website www.larkenggco.com or contact us.

Looking very much forward to hear from you soon.

Best regards

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

**Royal Bhatia
Assistant Engineer
092153-59685**

Enclosures:

- 1) Quotation (as above)
- 2) Business Terms and Conditions

Mash Feed Plant 4-6 ton/hr (1 ton/batch)
(Direct Manual bagging from mixer)
With Full screen Grinder, Double Ribbon Screw Mixer and 6" Bucket Elevator

Sr. No.	Item Description	List Price (In Rs.)	Power (HP)
1.	Intake Hopper Intake hopper capacity: 150-200 kg Grill on Intake Hopper. Rack & Pinion Arrangement <ul style="list-style-type: none"> • For Controlling the Feeding of Raw Material • Dual Gate for Dust Free Operation 	17000	
2.	Bucket Elevator-I without motor, gear box & chain drive (Ht: 23 ft) Bucket Size: 6" x 4" Belt: 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. Platform at top for maintenance is provided with access thru monkey type ladders or via platform and fabricated out of 4mm sheet.	120750	2
3.	Cascading Magnet Iron thrash etc. going to feed grinder is caught here in this pipe with the help of two powerful magnets. Magnetic Plate <u>self cleaning type</u> with <u>collection tray</u> . Magnetic Plates are fitted with powerful "rare earth type" magnet.	72000	-
Total for Section A.1		209750	2

Section A. 2: Grinding Section			
4.	Intermediate Bin over Grinder (500 kg).	46500	
5.	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.	11000	
6.	Slide gate with Flexible Connection. This is provided to isolate the vibration of grinder from rest of the plant.	5500	
7.	Full Screen Hammer Mill (QGA-2040) without motor & coupling Hammer Mill is fabricated with plates of varied thickness depending 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 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 Grinder. Rotor is dynamically balanced.	145000	30
Total for Section A.2		208000	

Section A.3: Mixing Section			
8.	Extra Hopper for adding non grindables directly into mixer via 2nd Elevator. Grill on Intake Hopper. Rack & Pinion Arrangement <ul style="list-style-type: none"> • For Control the Feeding of Raw Material • Dual Gate for Dust Free Operation 	18000	
9.	Bucket Elevator-II without motor, gear box & chain drive (Ht: 25 ft) Bucket Size: 6" x 4" Belt: M-24 Grade rubberized 4 Ply (MRF or and other standard Make) Boot and Head supported with 40mm x 40mm 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. Platform at top for maintenance is provided with access thru monkey type Ladders or via Platform.	131250	2
10.	Batch Bin (1 ton) over Mixer <u>Capacity:</u> 1000kg/batch To temporarily hold ground ingredients over Mixer and discharging it 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	58000	
11.	Medicine Hopper for Mixer (Material of construction SS304)	26000	
12.	Double Ribbon Screw Mixer (LHMR-10) (1 Ton) <u>Double Ribbon Screw Mixer Model:</u> LHMR-10 <u>Capacity:</u> 1000 Kg/batch <u>Power:</u> 15 HP 1440 rpm Motor. Price without motor. <u>Discharge Gate:</u> Manually operated Rack and pinion type side gate arrangement <u>Mixer Drum Const:</u> 5 mm Thk MS, <u>Mixing Efficiency:</u> It can mix the whole batch within 6 to 8 minutes with coefficient of variation less than 7%. Mollasses/ Oil Tank: 20 Kg	265000	15
Total for Section A.3		498250	

Section A.4: Others			
	All Connecting Pipes & foundation Bolts	12500	

Section A.5.: Access Equipment for Mixer			
1.	Access Platform for Mixer with stairs	21500	
Total for all Section A (Sec A.1-A.5)		950000	

Section B.: Motors/ Geared motor/ Gear Box and Drives			
1.	For BE-I, 2 HP Geared Motor	25900	2
2.	For BE-II, 2 HP Geared Motor	25900	2
3.	Duplex chain coupling BE-I	3600	
4.	Duplex chain coupling BE-II	3600	
5.	For Hammer Mill, 30 HP 2800 RPM motor	61360	30
6.	For Hammer Mill, Rubber Coupling	4150	-
7.	For Feed Mixer, 15 HP 1440 RPM motor (Foot Mounted Motor)	37751	15
8.	For Feed Mixer, V- Belts	2780	-
Total for Section B		165041	49

Section C: Motor Control Centre		
1.	<p>MCC for all Motors</p> <p>The MCC is consisting of followings:-</p> <ul style="list-style-type: none"> 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. <p>MCC is cubical type, self-supporting and all starters and switches mentioned will be of L & T/ Schneider make.</p> <p>All Electrical Cable lying from mains to MCC and from MCC individual Motor will be to your account</p>	95000
Grand Total For All Above Section (Section A- Section D)		12,10,041

Note: GST and Transportation are excluded.

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Optional Equipment's/Services

Section E: Optional Equipment's			
	Rotary Vane Feeder for Hammer Mill		
a)	Rotary Vane feeder for Hammer mill without motor, gearbox & chain drive	48000	
b)	Magnetic Plate at Rotary vane feeder	16000	
c)	VFD and Panel for Rotary vane feeder's control	75000	
d)	For Rotary Vane feeder, 2HP Geared Motor	25900	
e)	Chain Drive for geared motor	3600	
f)	Additional Height of 1st Bucket Elevator to accommodate Feeder	15750	
Total for Section-E		1,84,250	

Note:

Power Requirement on Mixer :

- ❖ If you add up to 5% Molasses , then Motor for Mixer is of rating: 15HP, 1440RPM
- ❖ If you add 5% to 15 % Molasses , then Motor for Mixer is of rating: 20HP, 1440RPM

Price for 20 HP 1440 RPM Rs 46830.00

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Constructional & Technical Specification of the Machines

1) Intake Hopper

Intake hopper capacity: 150-200 kg

This hopper is used to pour the various ingredients of raw materials.

2) Bucket Elevators

Bucket Size: 6" x 4"

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 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.

Platform at top for maintenance is provided with access thru monkey type ladders or via Platform.

3) Cascading Magnets

Iron thrash etc. present in raw Material is caught here in this pipe(Z-Shaped) with the help of two powerful magnets; hence increase the life of hammer mill (grinder). Magnetic Plates are of self cleaning type with collection tray. Magnetic Plates are fitted with powerful "rare earth type" magnet.

4) Intermediate Bin over Grinder (500Kg)

The purpose of providing this bin is to neutralize uneven feeding to the hammer mill (grinder) thus increases the life and efficiency of the hammer mill. It is supported on structure of angles and channels (75mm x 40mm x 6mm) and fabricated out of 3mm sheet. Support is provided so that load of the intermediate bin is not directly sustain by the Grinder

5) Slide Gate with Flexible Connection

This is provided to isolate the vibration of grinder from rest of the plant.

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. 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 Grinder. Rotor is dynamically balanced.

7) Rotary Vane Feeder

It will be fitted on Full screen Hammer Mill to gradually feed the grinder. Rate of feeding will be controlled by changing the rotational speed of vane. 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) Frequency Variable Speed A.C. Drive

It will be required to change Speed of rotary Feeder for optimum feeding. Geared Motor: Bonfiglioli 2 HP.

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 whole system stop working, this whole unit can be by passed with help of the gate provided

9) **Batch Bin over Mixer**

Capacity: 1000kg/batch

To temporarily hold grinded material over Mixer and discharging it 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, Flates specially provided to avoid jamming of feed in the batch bin.

10) **Double Ribbon Screw Mixer**

Model: LHMR-10

Capacity: 1000 Kg/batch

Power: 15 HP 1440 rpm Motor with our own make 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%

11) **Others**

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.

12) **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 our own make

13) **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 make.

14) **Erection installation and commissioning**

For erection installation and commissioning we will send our team of Engineers and Technicians. To assist them you will have to provide **labour / Crane at your own** (As and when required). You have to provide welding equipments and power supply at your own. For civil work you will have to provide mason and labour. Material for Civil work is not in our scope. For Electrical Wiring you have to arrange for Electrician. We need power requirement of 10 kw along with welding set for welding of connecting pipes at the site.

This includes one side fare of the team. One side fare, local conveyance and Boarding & Lodging is to be provided by you.

From our practical experience we have seen that the erection is delayed due to non availability of civil labour/Mason and Final Trial of the Plant is delayed due to delay in Electrical work and Motor Connection. So it's in your favour to provide everything in time in order to accomplish erection with in time.

MISCELLANEOUS (Exclusion from offer):

- 1) Transportation (on to pay basis) and transit insurance charges (at actual).
- 2) Unloading of machines at your site.
- 3) All Civil Works and labour/Cranes required for erection.
- 4) All Electrical wiring from mains to panel and panels to individual motors.
- 5) Power, water used for erection and feed ingredient for Trail will be provided by you
- 6) You will have to arrange for boarding, lodging and Local conveyance for our Erection Team
- 7) Handling/Loading/forwarding/packing charges **(1% of the total value)**
- 8) All Taxes & Octori.
- 9) Any way bill required and is to be arranged by you.
- 10) Alteration in the motor's panel, machine due to low voltage will be borne by you.
- 11) We need 15 KW power connections along with welding set at erection site.
- 12) Any other not mentioned above.

General Consideration:

- 1) There is **no water seepage** for the machines which are to be fitted below ground level.
- 2) Feed is of standard/ Normal quality (i.e. density, flowability etc)
- 3) Performance of the machines may vary due to variation of standard supply voltage ie 440 V, 50 Hz.

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% Extra**. Any other levies, octroi will be to your account.
The present offer is based on prevailing prices of raw material, standard components, 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:** For Machines: 50% of total value of order towards advance and balance against delivery at our works (before dispatch). All payment to be made at Yamuna Nagar.
- 4 DELIVERY:** Between 45-50 days from the date of receipt of commercially & technically clear purchase order
- 5 VALIDITY:** This offer is valid for a period of 15 days.
- 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

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