

LEC/E-4359/11/19  
December 6, 2019



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

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**An ISO 9001:2008 Certified Company  
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[www.larkenggco.com](http://www.larkenggco.com)**

**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 here with price and brief details of the **4-6 TPH Mash Feed Plant with Full Screen Grinder and Double Ribbon Screw Mixer & with pre weighing Load Cell Based Hopper and With Rotary Vane Feeder (1000 Kg/batch) (Total Power = 52 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](http://www.larkenggco.com) or contact us.

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:

- 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 &**

**With pre weighing Load Cell Based Hopper and with Rotary Vane Feeder**

Sr. No.	Item Description	List Price (In Rs.)	Power (HP)
<b>A.1: Pre-Weighing &amp; Intake Section</b>			
1	Weighing hopper with Grill (Cap: 1000 kgs/batch each)	74000	
2	Slide Gate ( Bevel Type)	25000	
3	Load Cell based weighing with (70000 x 1 no) Display for hoppers.	70000	
4	Flexible Connection	5500	
5	Supporting Structure	35000	
<b>Total For Section A1</b>		<b>209500</b>	
<b>A.2: Intake Section</b>			
1	<b>Intake Hopper</b> Intake hopper capacity: 150-200 kg Grill on Intake Hopper. Rack & Pinion Arrangement <ul style="list-style-type: none"> <li>For Controlling the Feeding of Raw Material</li> <li>Dual Gate for Dust Free Operation</li> </ul>	17000	
2	<b>Bucket Elevator-I</b> without motor, gear box & chain drive (Ht: 33ft) <b>Bucket Size:</b> 6" x 4" <b>Belt:</b> 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.	173250	3
3	<b>Cascading Magnet</b> 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	-
<b>Total for Section A.2</b>		<b>262250</b>	
<b>Section A. 3: Grinding Section</b>			
1	<b>Intermediate Bin</b> over Grinder (1000 kg).	70500	
2	<b>Supporting structure and channels</b> 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	<b>Slide gate with Flexible Connection.</b> This is provided to isolate the vibration of grinder from rest of the plant.	5500	
4	<b>Rotary Vane feeder</b> for Hammer mill without motor, gear box & chain drive. 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 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.	48000	2
5	<b>Magnetic Plate at Rotary vane feeder</b>	16000	

<b>6</b>	<p><b>Full Screen Hammer Mill (QGA-2040)</b> without motor &amp; 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.</p>	145000	<b>30</b>
<b>Total for Section A.3</b>		<b>299000</b>	

**Section A.4: Mixing Section**

<b>1</b>	<p><b>Extra Hopper</b> for adding non grindables directly into mixer via 2nd Elevator.          Grill on Intake Hopper.          Rack &amp; Pinion Arrangement</p> <ul style="list-style-type: none"> <li>• For Control the Feeding of Raw Material</li> <li>• Dual Gate for Dust Free Operation</li> </ul>	18000	
<b>2</b>	<p><b>Bucket Elevator-II</b> without motor, gear box &amp; chain drive (Ht: 25 ft)          Bucket Size: 6" x 4"  <b>Belt: M-24</b> Grade rubberized 4 Ply (MRF or and other standard Make)          Boot and Head supported with <b>40mm x 40mm x 6mm</b> angle and fabricated out of 4mm sheet.          Elevator's Boxes supported with 40mm x 40mm x 6mm angle and Fabricated out of <b>2mm</b> sheet. Base Frame of Gear motor fabricated out Of <b>6 mm</b> plate. Platform at top for maintenance is provided with access thru monkey type Ladders or via Platform.</p>	131250	<b>2</b>
<b>3</b>	<p><b>Batch Bin (1 ton)</b> 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</p>	58000	
<b>4</b>	<p><b>Medicine Hopper</b> for Mixer (Material of construction SS304)</p>	26000	
<b>5</b>	<p><b>Double Ribbon Screw Mixer (LHMR-10)</b> (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</p>	265000	<b>15</b>
<b>Total for Section A.4</b>		<b>498250</b>	

**Section A.6: Others**

1	All Connecting Pipes & foundation Bolts	<b>12500</b>	
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**Section A.7.: Access Equipment for Mixer**

1	Access Platform for Mixer with stairs	21500	
<b>Total for all Section A (Sec A.1-A.7)</b>		<b>13,03,000</b>	

<b>Section B.: Motors/ Geared motor/ Gear Box and Drives</b>			
1	For BE-I, 3 HP Geared Motor	31900	<b>3</b>
2	For BE-II, 2 HP Geared Motor	25900	<b>2</b>
3	Duplex chain coupling for BE-I	3600	
4	Duplex chain coupling for BE-II	3600	
5	For Rotary Vane feeder, 2HP Geared Motor	25900	<b>2</b>
6	For Rotary Vane Feeder Chain Drive for geared motor	3600	
7	For Hammer Mill, 30 HP 2800 RPM motor	61360	<b>30</b>
8	For Hammer Mill, Rubber Coupling	4150	-
9	For Feed Mixer, 15 HP 1440 RPM motor (Foot Mounted Motor)	37751	<b>15</b>
10	For Feed Mixer, V- Belts	2780	-
<b>Total for Section B</b>		<b>2,00,541</b>	<b>52</b>

<b>Section C: VFD and Panel for Rotary vane feeder's control</b>		
<b>1.</b>	<p><b>VFD and Panel for Rotary vane feeder's control</b> It will be required to change Speed of rotary Feeder for optimum feeding. <u>Drive Make:</u> 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. <u>Fully Automated</u> control through drive, eliminating manual operation. Provision of <u>manual control</u> 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 <u>bypassed</u> with help of the gate provided.</p>	<b>75000</b>

<b>Section D: Motor Control Centre</b>		
<b>1.</b>	<p><b>MCC for all Motors</b> 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 &amp; T/ Schneider make. <b>*All Electrical Cable lying from mains to MCC and from MCC individual Motor will be to client scope.*</b></p>	<b>95000</b>

<b>Grand Total For All Above Sections (Section A- Section D)</b>		<b>16,73,541</b>
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**Note: GST @ 12% and Transportation are excluded.**

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

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

## **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 (1000 Kg)**

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.

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

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

**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/ equipment's 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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