

LEC/E-9601/10/20
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**LARK
ENGINEERING
COMPANY (INDIA) PVT.LTD**

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Subject : Your requirement of Feed Machines
Kind Attention : 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 - **53 H.P**
Space Requirement-

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.

Rajan Syal

Asst Manager (Sales & Marketing)
Mob : +91- 8295976685

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 USD)
Section A.1: Intake Section			
1.	Intake Hopper Intake hopper capacity: 150-200 kg	-	285
2.	Bucket Elevator-I without motor, gear box & chain drive (Ht: 23 ft) <u>Bucket Size:</u> 8" x 5" <u>Belt:</u> M-24 Grade rubberized 4 Ply (Continental 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	1975
3.	Cascading Magnet Iron trash 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.	-	1030
Total for Section A.1		3	3290

Section A. 2: Grinding Section			
4.	Intermediate Bin over Grinder (500 kg).	-	830
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.	-	180
6.	Slide gate with Flexible Connection. This is provided to isolate the vibration of grinder from rest of the plant.	-	80
7.	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	2075
Total for Section A.2		30	3165

Section A.3: Mixing Section			
7.	Extra Hopper for adding non grindable's directly into mixer via 2 nd Elevator.	-	310
8.	Bucket Elevator-II without motor, gear box & chain drive (Ht: 39 ft) Bucket Size: 8" x 5" Belt: M-24 Grade rubberized 4 Ply (Continental 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	3345
9.	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.	-	980
10.	Medicine Hopper for Mixer (Material of construction SS 304)		440
11.	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	2360
12	Manual Slide gate Below Mixer 2nos.		500
13	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.	-	1060
Total for Section A.3		20	8995

Section A.4: Others		
13	All Connecting Pipes & foundation Bolts	315

Section A.5: Steel Structure		
14	Double Floor Steel Structure: It will be of completely bolted type with all necessary ribs, railing, stairs and sample space for maintenance. Up to 6.5Mt	6965
Total of all above Section		22730

Section B

Section B.: Motors/ Geared motor/ Gear Box and Drives			
1.	For BE-I, 3 HP Geared Motor and Duplex chain coupling	3	510
2.	For BE-II, 5 HP Geared Motor and Duplex chain coupling	5	600
3.	For Hammer Mill, 30 HP 2800 RPM motor	30	880
4.	For Hammer Mill, Rubber Coupling	-	60
5.	For Feed Mixer, 15 HP 1440 RPM motor (Foot Mounted Motor)	15	540
6.	For Feed Mixer, V- Belts	-	40
7.	For Feed Mixer, Heavy duty, Helical type Gear Box	-	1715
Total for Section B		53	4345

Section C: Motor Control Centre			
1.	MCC for all Motors. *All Electrical Cable lying from mains to MCC and from MCC to individual Motor will be to client scope.*	-	1860
Total For All the above Sections (Section A-Section C)		53	28935

Section D: Optional Equipment's			
Rotary Vane Feeder for Hammer Mill			
a)	Rotary Vane feeder for Hammer mill without motor, gearbox & chain drive	690	
b)	Magnetic Plate at Rotary vane feeder	230	
c)	VFD and Panel for Rotary vane feeder's control	1075	
d)	For Rotary Vane feeder, 2HP Geared Motor with Chain Drive	465	
e)	Additional Height of 1st Bucket Elevator to accommodate Feeder	285	
Total Price		2745	
Total For All Above Section (Section A- Section D) in USD			31680
Inventory Spares as per Attached Spare Part List			2255
TOTAL WITH SPARES			33935
P & F @ 3 %			1020
Certificate of conformity			360
Insurance			75
Transportation 2 vehicles Upto ICD tughlakabad			650
Freight for 2 Container 40 ft HQ & 20 ft upto TEMA, Ghana These are approx. charges. The actual charges may vary at time of dispatch This offer is as per Current USD rate. Any Fluctuation in USD rate will be taken in consideration in final billing			7500
Total For All Above Sections (Section A- Section D) CIF TEMA, GHANA			43540

Exclusions:

Civil Work

Power Factor Panel

Electric Cabling & Fittings

Earthing

Lighting

Soil Testing

Material for trial run

Transportation

Sheeting, Truss and Purlins on shed any other not mentioned.

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: Continental 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/ Shanthy/ 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.

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 (3% of the total value). Wooden Packing of machines , If required will be charged extra.
- 8) All Taxes & Octroi.
- 9) Any way bill required and 'C' form 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

Rajan Syal

Asst Manager (Sales & Marketing)
Mob : +91- 8295976685

BUSINESS TERMS & CONDITIONS

1 PRICE BASIS:

Prices quoted in this offer are in **United State Dollar ie .,USD, CIF TEMA** and with standard accessories only. Custom duty and custom clearance charges for both sides are to be borne by the client. As a proof of Export we need Custom Clearance certificate (after the machines reaches your end) which is to be arranged by you. This offer is as per Current USD rate. Any Fluctuation in USD rate will be taken in consideration in final billing.

2 TRANSPORTATION: CIF TEMA

3 PAYMENT: For Machines: 50% of total value of order towards advance and balance against delivery at our works (before dispatch).

4 DELIVERY: Ex-Factory Between 80-90 days from the date of receipt of commercially & technically clear purchase order

* Delivery subject to normal availability of raw material , components, Plant Design etc

5 ERECTION : Erection charges as per Quotation.

6 CERTIFICATE OF CONFORMITY (COC) : For COC,we will Provide COC from authorized Agency. The Charges Included in offer

7 P & F : Handling/Loading/forwarding/packing charges (3% of the total value)

8 VALIDITY: This offer is valid for a period of 25 days for Mechanical equipment and 7 days for electrical equipment (If any) and subject to confirmation thereafter

9 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.

For pellet plants, once we have commissioned the plant with successful trial run, we will not be responsible for defects arising of operators fault, mis-handling.

For automated computer controlled plants, warranty and after sales services will be as per their terms and conditions.

10 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.

11 ERRORS: Any typographical errors/omissions in this offer if any are subject to corrections

12 CANCELLATION: In the event of cancellation of the order, amount of advance to us will be forfeited in total.

13 We reserve all rights to change design or dimensions, as we deem appropriate at any time.

14 JURISDICTION: All disputes subject to Jagadhri jurisdiction only

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