

# **Technical Specification for Maize Sheller(PTO)**

## **1. Scope**

It is the intent of this specification whether or not specifically mentioned here in to describe a tractor trailed Maize Sheller , **PTO** driven Type .

## **2. Service Requirement**

The equipment requested here in is to be used shelling maize smoothly and efficiently.

## **3. General Specification**

All parts and accessories which are necessary in order to provide a complete efficient & functional unit shall be furnished as part of Sheller.

The total result of technical specification is 100%. In order to be competitive, the Sheller should get minimum of 85% on the technical specification.

### **3.1. Construction**

All parts of the Sheller shall be made of material which is suitable for the intended service. The material shall be free from objectionable characteristics or defects which would adversely affect the appearance or function of the finished product & should be Trailed type.

### **3.2. Performance**

- The machine should shell Maize a minimum of 30-40 q/hour,
- Maximum shelling Capacity should be preferable.

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## **4. Technical requirement**

### **The Sheller dimension**

- 4.1. Sheller length -----2200mm-2300mm
- 4.2. Sheller width-----1900mm-2000mm

4.3. Height-----1800mm-2000mm

4.4. Weight-----800-1000kg

4.5. Main drive.....Tractor PTO drive type.

4.6. Feeding system.....Manual feed type.

4.7. Threshing mechanism

-Drum -----Rasp bar to suit different size of maize.

-Drum speed should be varied by changing Engine speed using different size plies.

-N.B—Different size pulleys shall be provided with offer.

#### **4.8. Concave**

-Should have Adjustable position to suit drum.

-Aspiration-----power Aspiration type .

#### **4.9. Tyre**

-As manufacturer current standard.

.-The tyre should be with inner tube.

### **5. Accessories &Tools**

-Machine standard accessories &tools should be provided Freely.

#### **5.1. Manuals**

-Operating & spare part catalogs Written in English should be provided freely.

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### **.6. Warranty**

The manufacturer to the bidder shall guarantee that all parts and materials used be new, high quality and good work man ship. When the Sheller operates for the 12 months.

## **7. Back Up service**

**Ware house-** Well organized & computerized ware house should be available specially for the offered implement.

**Work shop facility-** Having the capacity to calibrate & adjust the offered implement at field.

-Having training facility for the technician.

### **NOTE**

- ❖ The bidder should submit International standard document like OECD,ISO...for offer
- ❖ The bidder must be written power of the attorney for the signatory of the bid from the appropriate legal body in the bidders country.
- ❖ Factory published Farm Machinery/ vehicle/ specification brushers should be attached with bid documents.

## **Technical Specification for Maize Sheller (Diesel/ petroleum engine)**

### **1. Scope**

It is the intent of this specification whether or not specifically mentioned here in to describe **Diesel/petroleum engine** trailed Type stand by maize Sheller.

### **2. Service Requirement**

The equipment requested here in is to be used shelling maize smoothly and efficiently.

### **3. General Specification**

All parts and accessories not specifically mentioned but which are necessary in order to provide a complete efficient & functional unit shall be furnished as part of Sheller.

### 3.1. Construction

All parts of the Sheller shall be made of material which is suitable for the intended service. The material shall be free from objectionable characteristics or defects which would adversely affect the appearance or function of the finished product.& should be Trailed type.

### 3.2. Performance

- Output performance.....minimum of 30-40Q/Hour,  
Maximum shelling Capacity should be preferable.
- Horse power..... 16-20 H/P
- Engine RPM.....2000 Rpm
- Engine .....Mounted type  
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- Fuel.....Diesel/petroleum. Diesel type  
is preferable.
- Power transmitted to Sheller.....by belt
- Length of Drum .....Minimum 650 m

## 4. Technical requirement

### The Sheller dimension

- a. Sheller length -----2200mm -2300mm
- b. Sheller width-----1900mm-2000mm
- c. Height-----1800mm-2000mm
- d. Weight-----800-1000kg
- e. Main drive.....Engine drive type.
- f. Feeding system.....Manual feed type.

## 5. Shelling mechanism

-Drum -----Rasp bar to suit different size of maize.

-Drum speed should be varied by changing Engine speed using different size plies.

-N.B—Different size pulleys shall be provided with offer.

#### **6. Concave**

-Should have Adjustable position to suit drum.

-Aspiration-----Power aspiration fan type.

#### **7. Way of operation & Maintenance**

- Simple to operate & Maintain.

#### **8. Manufacturing date model of Make**

- Should be Specified

#### **7. Tyre**

-As manufacturer current standard.

.-The tyre should be with inner tube.

#### **8. Accessories &Tools**

-Machine standard accessories &tools should be provided

#### **9. Manuals**

.-Operating manual, repair manual & spare part catalog Written in English should be provided freely.

#### **10. Warranty**

The manufacturer to the bidder shall guarantee that all parts and materials used be new, high quality and good work man ship. When the Sheller operates for the 12 months or 2 seasons.

#### **11. Back Up service**

**Ware house-** Well organized & computerized ware house should be available specially for the offered maize smaller.

**Work shop facility-** Having the capacity to calibrate & adjust the offered Maize Sheller at field.

-Having training facility for the technician.

#### **NOTE**

❖ The bidder should submit International standard document like OECD,ISO...for offer

- ❖ The bidder must be written power of the attorney for the signatory of the bid from the appropriate legal body in the bidders country.
- ❖ Factory published Farm Machinery/ vehicle/ specification brushers should be attached with bid documents.