|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **S.N** | **Name of the Farm Implements with required Technical Specifications** | | **Supplier's Specifictions** | **Rate in figure(Including  vat for applicable items)** | **Rate in word** | **Remarks** |
| 1 | **Minitiller(Petrol)** | | | | |  |
| Brand/Model | ISO Certified Mini tiller ,Model Engine Model Number:…............... |  |  |  |  |
| General | General purpose Mini Tiller for dry and wet tillage, with Standard design having gross vehicle weight **not less than 75 kg** |  |
| Engine | Single cylinder,Four Stroke, Inclined/vertical forced air cooled system,oil batch  type filter ,**Petrol engine** ,maximum power not less than 4KW at rated speed |  |
| Starting type | Recoil/Electrical Starter |  |
| Transmission  System | Double Clutch type, Gear drive(1-Reverse, 2-Forward)(Both high and low) number of gears |  |
| Displacement (ml(cu.in)) | not less than 208CC |  |
| Fuel Tank Capacity | not less than 3L |  |
| Blades | minimun 24 |  |
| Tilling Depth | 100mm or above |  |
| Tilling Width | 750mm or above |  |
| Warranty | Minimum 1 year warranty should be provided |  |
|  |  |  |  |  |  |  |
| 2 | **Mini tiller (diesel)** | | | | |  |
| Brand/Model | ISO Certified Mini tiller ,Model Engine Model Number:…............... |  |  |  |  |
| General | General purpose Mini Tiller for dry and wet tillage, with Standard design having  gross vehicle weight **not less than 120 kg** |  |
| Engine | Single cylinder,Four Stroke, Inclined/vertical forced air cooled system,oil batch  type filter ,**Diesel engine** ,maximum power not less than 4KW at rated speed |  |
| Starting type | Recoil/Electrical Starter |  |
| Transmission  System | Double Clutch type, Gear drive(1-Reverse, 2-Forward)(Both high and low) number of gears |  |
| Tilling Depth | 100mm or above |  |
| Tilling Width | 750mm or above |  |
| Fuel Tank Capacity | minimum 3.5liters |  |
| Blades | minimum 32 pieces |  |
| Tyre | Pneumatic tubeless tyre |  |
| Colour | Standrad |  |
| Warranty | Minimum 1 year warranty should be provided |  |
|  |  |  |  |  |  |  |
| 3 | **Paddy Thresher** | | | | |  |
| Make,Model,Brand | Any |  |  |  |  |
| General | It is used for threshing paddy,maize ,wheat ,sorghum ,barley,provided at least 3  types of grain sieve |  |
| Type | 4WD driven |  |
| Power requirement (hp/KW) | above 40HP ,tractor pto |  |
| Working efficiency | ≥1200kg/hr |  |
| Threshing efficiency | ≥97% |  |
| Overall grain loss | ≤2.5% |  |
| Broken grain loss | ≤0.8% |  |
| Blown grain loss | ≤1.5% |  |
| Crop feeding | direct hopper type(feeding chute ,manually) |  |
| Type of cylinder | spike tooth |  |
| Cylinder size,tip diameter \*length  (m m) | approx.770\*1500 |  |
| No. of sieves | 3 |  |
| No. of blower | one /double/trible |  |
| No. of spike | around 75 |  |
| Cleaning fan | at least 1 aspiratory fan for grain clean and 1 centrifugal  fan for dust clean |  |
| Weight (approx.) | 1450-1550kg |  |
| Standard Accessories | PTO shaft ,tool box ,greas gun |  |
| Main shaft diameter | not less than 60mm |  |
| No. of transmission joint | 4 |  |
| Warranty | Minimum 1 year warranty should be provided |  |
|  |  |  |  |  |  |  |
| 4 | **Combine Mill** | | | | | |
| Make and model | Any |  |  |  |  |
| General | Application in both milling of cereals such as rice,wheat,millet and  paddy ,Gross wt not less than 85kg |  |
| Power source | Not less than 2KW |  |
| Motor | 100% copper |  |
| Voltage and frequency  of motor | 220volt,50Hz |  |
| Seive size | at least 100\*749mm |  |
| Seive diameter | aperature : 1.2 |  |
| Capacity | Rice mill: at least 80kg/hr |  |
| Grain Grinder -at least 130kg/hr |  |
| Grain Grinder -5500rev/min |  |
| Roller Diameter :Rice mill | 40mm |  |
| Types | Disc hammer types |  |
| Accessories | Electric wire along with suitable MCB with switch |  |
| Warranty | Minimum 1 year warranty should be provided |  |
|  |  |  |  |  |  |
| 5 | **Corn Sheller** | | | | | |
| Make & Model | Any |  |  |  |  |
| Power | At least 0.65 Kw |  |
| Motor | Copper Coil 100% |  |
| Capacity | 600-700 kg/hr |  |
| Shaft Speed | 1680 r/min |  |
| Rotor Diameter | Around 590 mm |  |
| Tube | Single |  |
| Warranty | Minimum 1 year warranty should be provided |  |
|  |  |  |  |  |  |  |
| 6 | **Battery cum Manual Sprayer (2 in 1)** | | | |  |  |
| Tank Capacity | At least 16 liters |  |  |  |  |
| Motor | 12V motor powered diaphragm pump of speed 3300 rpm 12V, 8AHr rechargeable, **aluminum coated** |  |
| Working pressure | At least 0.4 Mpa |  |
| Charge input | 100-240V AC,50Hz, |  |
| Charge output | **12V DC, 1.5A** |  |
| Spray flow | Not less than 2100ml\min |  |
| Time of full charge | 5 to 8 hr |  |
| Gross weight | At least 2.6 kg |  |
|  |  |  |  |  |  |  |
| 7 | **Battery cum Manual Sprayer (2 in 1)** | | | | | |
| Tank Capacity | At least 16 liters |  |  |  |  |
| Motor | 12V motor powered diaphragm pump of speed 3300 rpm 12V, 8AHr rechargeable, **Brass coated** |  |
| Working pressure | At least 0.45 Mpa |  |
| Charge input | 100-240V AC,50Hz, |  |
| Charge output | **13.5-13.8V, 2.40A** |  |
| Spray flow | Not less than 2100ml\min |  |
| Time of full charge | 5 to 8 hr |  |
| Gross weight | At least 6.5 kg |  |
| Battery weight | At least 2.2 kg |  |
|  |  |  |  |  |  |
| 8 | **Petrol Engine Multicrop Thresher** | | | | | |
| Engine | Single cylinder, Four stroke, Incline/Vertical Forced air cooled system, Oil batch type filler, Diesel Engine, Maximum power: Not less than 4 KW at rated speed, Displacement: Not less than 207cc. |  |  |  |  |
| Rotor Speed | Not more than 850 RPM |  |
| Roller Length | Approx. 750 mm |  |
| Rotor Diameter | Approx. 340 mm |  |
| Efficiency | Not less than 550 Kg/H |  |
| Rotor Type | Acute Teeth |  |
| Gross Weight | Approx. 80 Kg |  |
| Application | Paddy, wheat, and others |  |
| Warranty | Minimum 1 year warranty should be provided |  |
|  |  |  |  |  |  |  |
| 9 | **Disc Mill** | | | | | |
| Make, Model and Brand | Any |  |  |  |  |
| Country of manufacturer | Any |  |
| Motor power | Not less than 7.5 Kw |  |
| Motor speed | Not less than 1450 rpm |  |
| Productivity (kg/hour) | Not less than 450 kg/hr in case of corn |  |
| Dimension (L x W x H)mm | Around 1050 x 680 x 1325 |  |
| Warranty | Minimum 1 year warranty should be provided |  |
|  |  |  |  |  |  |
| 10 | **Power Tiller** | | | | | |
| Make, Model and Brand | Any |  |  |  |  |
| Country of Manufacturer | Any |  |
| Engine | Single cylinger, 4-stroke diesel engine |  |
| Direct combustion type |  |
| Specific fuel consumption around 244g/kw.h |  |
| Power output not less than (13.43 Kw) |  |
| Air cleaner oil bath type |  |
| Clutch | Multiple plates, Dry disc |  |
| Brakes | Hand operated dry brakes |  |
| No. of Gears | Forward-6, Reverse-2 (With high-low selector lever) |  |
| Tilling width | Around 900mm |  |
| Number of rotary tiller blades | Minimum 24 |  |
| Ground Clearance | Minimum 185 mm |  |
| Cooling system | Water or condense cooled |  |
| Fuel Tank Capacity | Minimum 15 liters |  |
| Lubrication System | Combined pressure and splashing type |  |
| Minimum turning radius | 1.3 meter |  |
| Starting method | Manual or Electric |  |
| Warranty | Minimum 1 year warranty should be provided |  |
|  |  |  |  |  |  |  |
| 11 | **Diesel Mini Tiller 9 hp category** | | | | | |
| Make & model of machine | ISO certified, Minitiller model, Engine Model no. |  |  |  |  |
| Engine | 4 stroke, single cylinder, forced air cooled, Diesel engine, power: not less than 9 hp |  |
| Transmission system | Friction multi plate clutch, no. of gear speed: 2 forward & 1 reverse and neutral |  |
| Model of Transmission | Driven by gear system |  |
| Number of rotor blades | Minimum 32 blades |  |
| Transportation wheel | Pneumatic tyre |  |
| Starting method | Manual or recoil or self starting system |  |
| Weight (Kg) | Gross weight not less than 135 kg |  |
| Width of cut(cm) | 100 or above |  |
| Depth of cut (cm) | 10 or above |  |
| Fuel tank capacity (liter) | Minimum 5 liters |  |
| Warranty | Minimum 1 year warranty should be provided |  |
|  |  |  |  |  |  |  |
| 12 | **Petrol Mini Tiller 9 hp category** | | | | | |
| Make & model of machine | ISO certified, Minitiller model, Engine Model no. |  |  |  |  |
| Engine | 4 stroke, single cylinder, forced air cooled, gasoline engine, power: not less than 9 hp |  |
| Transmission system | Friction clutch, gear system, no. of gear speed: 2 forward & 1 reverse and neutral |  |
| Model of Transmission | Driven by gear system |  |
| Number of rotor blades | Minimum 32 blades |  |
| Transportation wheel | Pneumatic tyre |  |
| Starting method | Manual or recoil starting system |  |
| Weight (Kg) | With transportation wheel: Minimum 100kg |  |
| Width of cut(cm) | 100 or above |  |
| Depth of cut (cm) | 10 or above |  |
| Fuel tank capacity (liter) | Not less than 5 liters |  |
| Warranty | Minimum 1 year warranty should be provided |  |