

बागमती प्रदेश सरकार

कृषि तथा पशुपालन विभाग, काभ्रेपलाञ्चोक

कृषि विकास निदेशिका

कृषि विकास निदेशिका

काभ्रेपलाञ्चोक

प्रस्ताव दरभाउ फारम

आर्थिक वर्ष : २०८१/८२

१. संस्थाको नाम : .....

२. संस्थाको ठेगाना : .....

सम्पर्क व्यक्तिको मोबाईल नं. : .....

ईमेल: .....

३. आधिकारिक व्यक्तिको नाम: .....

पद: .....

इमेल: .....

४. संस्था रजिस्ट्रेशन नं.: .....

५. रजिस्ट्रेशन गर्ने कार्यालय: .....

६. फर्म दर्ता मिति: .....

७. PAN/VAT रजिस्ट्रेशन नं. : .....

८. व्यापारको किसिम/उद्देश्य : .....

९. उपलब्ध गराउन सक्ने सामग्रीको दरभाउ र अन्य विवरण प्रस्ट खुल्नु पर्नेछ ।

१०. आयुक्तितल्लि Supplier's Specification मा भैसिनेरी औजारको विवरण अनिवार्य रूपमा भर्नु पर्ने छ।



सिर्जना लामिछाने  
कृषि इन्जिनियर  
४३५ "A"

कुल प्रशासक  
काभ्रेपलाञ्चोक  
४३५ "A"



**Technical Specification of Farm Machinery and Equipments**

**Remarks**

**S.N.**

**Name of Implements With Description**

**Technical Specification**

**Supplier's specification (Mandatory to fill up otherwise not consider their quoted rate)**

**1 Diesel Mini Tiller 5.5 hp category**

|                           |   |  |
|---------------------------|---|--|
| Make & model of machine   | ISO certified, Mini tiller model, Engine Model no.  |  |
| Engine                    | 4 stroke, single cylinder, forced air cooled, Diesel engine. Power : not less than 5.5 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 24 blades.  |  |
| Transportation wheel      | Pneumatic tyre  |  |
| Starting method           | Manual / Recoil starting system   |  |
| Weight (Kg)               | Gross weight not less than 80 kg  |  |
| Width of cut(cm)          | 75 or above   |  |
| Depth of cut(cm)          | 10 or above   |  |
| Fuel tank capacity(liter) | minimum 2.5 litres  |  |

**Total Price (in figures)**

**Total Price (in words)**

**2 Diesel Mini Tiller 7 hp category**

|                           |   |  |
|---------------------------|---|--|
| Make & model of machine   | ISO certified, Mini tiller model, Engine Model no.                                      |  |
| Engine                    | 4 stroke, single cylinder, forced air cooled, Diesel engine. power : not less than 7 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 120 kg   |  |
| Width of cut(cm)          | 100 or above  |  |
| Depth of cut(cm)          | 10 or above   |  |
| Fuel tank capacity(liter) | minimum 3.5 litres  |  |

**Total Price (in figures)**

**Total Price (in words)**

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**कुल प्रसाद दवाडी**  
 कार्यालय प्रमुख  
 अधिकृत कार्यालय

| S.N. | Name of Implements With Description     | Technical Specification  | Supplier's specification (Mandatory to fill up otherwise not consider their quoted rate) | Remarks |
|------|---|--|--|---------|
| 3    | <b>Diesel Mini Tiller 9 hp category</b> |  |  |         |
|      | Make & model of machine                 | ISO certified, Mini tiller model, Engine Model no.   |  |         |
|      | Engine                                  | 4 stroke, single cylinder, forced air cooled, Diesel engine.<br>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 litres   |  |         |
|      | <b>Total Price (in figures)</b>         |  |  |         |
|      | <b>Total Price (in words)</b>           |  |  |         |
| 4    | <b>Diesel Mini Tiller (Riding Type)</b> |  |  |         |
|      | Make & model of machine                 | ISO certified, Mini tiller model, Engine Model no.   |  |         |
|      | Engine                                  | 4 stroke, single cylinder, forced air cooled, Diesel engine.<br>power : 10 hp or above     |  |         |
|      | Transmission system                     | friction multi plate clutch; no. of gear speed: 3 forward & 1 reverse and neutral          |  |         |
|      | Model of transmission                   | Driven by gear system  |  |         |
|      | Driving Mode                            | Four wheel drive   |  |         |
|      | Steering Handle Bar                     | <b>Height Adjustment provided</b>  |  |         |
|      | 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 300 kg  |  |         |
|      | Width of cut(cm)                        | 100 or above   |  |         |
|      | Depth of cut(cm)                        | 10 or above  |  |         |
|      | Fuel tank capacity(liter)               | minimum 5 litres   |  |         |
|      | <b>Total Price (in figures)</b>         |  |  |         |
|      | <b>Total Price (in words)</b>           |  |  |         |

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अधिकृत


| S.N.                   | Name of Implements With Description     | Technical Specification   | Supplier's specification (Mandatory to fill up otherwise not consider their quoted rate) | Remarks |
|------------------------|---|---|--|---------|
| 5                      | <b>Petrol Mini Tiller 7 hp category</b> |   |  |         |
|                        | Make & model of machine                 | ISO certified, Mini tiller model, Engine Model no.  |  |         |
|                        | Engine                                  | 4 stroke, single cylinder, forced air cooled, gasoline engine. power : not less than 7 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                  | <b>Minimum 24 blades</b>  |  |         |
|                        | Transportation wheel                    | Pneumatic tyre  |  |         |
|                        | Starting method                         | Manual or recoil or self starting system  |  |         |
|                        | weight (Kg)                             | with transportation wheel : minimum 76 kg   |  |         |
|                        | Width of cut(cm)                        | 75 or above   |  |         |
|                        | Depth of cut(cm)                        | 10 or above   |  |         |
|                        | Fuel tank capacity(liter)               | minimum 3.5 litres  |  |         |
|                        | Total Price (in figures)                |   |  |         |
| Total Price (in words) |   |   |  |         |
| 6                      | <b>Petrol Mini Tiller 9 hp category</b> |   |  |         |
|                        | 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                  | <b>minimum 32 blades</b>  |  |         |
|                        | Transportation wheel                    | Pneumatic tyre  |  |         |
|                        | starting method                         | manual or recoil starting system  |  |         |
|                        | weight (Kg)                             | with transportation wheel: minimum 100 kg   |  |         |
|                        | Width of cut(cm)                        | 100 or above  |  |         |
|                        | Depth of cut(cm)                        | 10 or above   |  |         |
|                        | Fuel tank capacity(liter)               | not less than 5 litres  |  |         |
|                        | Total Price (in figures)                |   |  |         |
| Total Price (in words) |   |   |  |         |

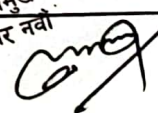
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४३५ "A"


कुल प्रसाद खवाडी  
कार्यालय प्रमुख  
अधिकृत

| S.N. | Name of Implements With Description                    | Technical Specification                                  | Supplier's specification (Mandatory to fill up otherwise not consider their quoted rate) | Remarks |
|------|--|--|--|---------|
| 7    | <b>Self-Propelled Rice Transplanter (Walking Type)</b> |  |  |         |
|      | Make & model of machine                                | ISO certified, Rice Transplanter Model, Engine Model no. |  |         |
|      | Engine   | 4 stroke, 35 cc, 1.6 hp or above,                        |  |         |
|      | Fuel Consumption                                       | Petrol 1 liter/2 hrs.                                    |  |         |
|      | Number of rows   | 6 rows   |  |         |
|      | Row- row spacing                                       | 20 cm  |  |         |
|      | Plant to plant spacing                                 | 16 cm to 24 cm   |  |         |
|      | Depth of rice  | 2 cm to 5cm  |  |         |
|      | Working Area   | At least 10 kattha/ hour                                 |  |         |
|      | Machine Size (cm)                                      | 110*140*50 or above                                      |  |         |
|      | Machine weight   | 64 kg or above   |  |         |
|      | Tray Size (cm)   | 20*60 or above   |  |         |
|      | Tray weight  | 0.55 kg or above   |  |         |
|      | Total Price (in figures)                               |  |  |         |
|      | Total Price (in words)                                 |  |  |         |
| 8    | <b>Self-Propelled Rice Transplanter (Walking Type)</b> |  |  |         |
|      | Make & model of machine                                | ISO certified, Rice Transplanter Model, Engine Model no. |  |         |
|      | Engine   | 4 stroke, 35 cc, 1.6 hp or above,                        |  |         |
|      | Fuel Consumption                                       | Petrol 1 litre/2 hrs.                                    |  |         |
|      | Number of rows   | 6 rows   |  |         |
|      | Row- row spacing                                       | 23 cm  |  |         |
|      | Plant to plant spacing                                 | 16 cm to 24 cm   |  |         |
|      | Depth of rice  | 2 cm to 5cm  |  |         |
|      | Working Area   | At least 12 kattha/ hour                                 |  |         |
|      | Machine Size (cm)                                      | 110*168*50 or above                                      |  |         |
|      | Machine weight   | 67 kg or above   |  |         |
|      | Tray Size (cm)   | 23*60 or above   |  |         |
|      | Tray weight  | 0.60 kg or above   |  |         |
|      | Total Price (in figures)                               |  |  |         |
|      | Total Price (in words)                                 |  |  |         |


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 कार्यसिपा प्रमुख  
 अधिकृत स्तर नवी  


| S.N. | Name of Implements With Description                       | Technical Specification                                  | Supplier's specification (Mandatory to fill up otherwise not consider their quoted rate) | Remarks |
|------|---|--|--|---------|
| 9    | <b>Self-Propelled Rice Transplanter (Walking Type)</b>    |  |  |         |
|      | Make & model of machine                                   | ISO certified, Rice Transplanter Model, Engine Model no. |  |         |
|      | Engine  | 4 stroke, 35 cc, 1.6 hp or above,                        |  |         |
|      | Fuel Consumption  | Petrol 1 litre/2 hrs.                                    |  |         |
|      | Number of rows  | 4 rows   |  |         |
|      | Row- row spacing  | 20 cm  |  |         |
|      | Plant to plant spacing                                    | 16 cm to 24 cm   |  |         |
|      | Depth of rice   | 2 cm to 5cm  |  |         |
|      | Working Area  | At least 6 kattha/ hour                                  |  |         |
|      | Machine Size (cm)   | 107*141*41 or above                                      |  |         |
|      | Machine weight  | 38 kg or above   |  |         |
|      | Tray Size (cm)  | 20*60 or above   |  |         |
|      | Tray weight   | 0.55 kg or above   |  |         |
|      | Total Price (in figures)                                  |  |  |         |
|      | Total Price (in words)                                    |  |  |         |
| 10   | <b>Manually Operated Rice Transplanter (Walking Type)</b> |  |  |         |
|      | Make & model of machine                                   | ISO certified, Rice Transplanter Model                   |  |         |
|      | Engine  | No Engine  |  |         |
|      | Fuel Consumption  | No. Engine   |  |         |
|      | Number of rows  | 4 rows   |  |         |
|      | Row- row spacing  | 20 cm  |  |         |
|      | Plant to plant spacing                                    | 16 cm to 24 cm   |  |         |
|      | Depth of rice   | 2 cm to 5cm  |  |         |
|      | Working Area  | At least 5 kattha/ hour                                  |  |         |
|      | Machine Size (cm)   | 107*141*41 or above                                      |  |         |
|      | Machine weight  | 33 kg or above   |  |         |
|      | Tray Size (cm)  | 20*60 or above   |  |         |
|      | Tray weight   | 0.55 kg or above   |  |         |
|      | Total Price (in figures)                                  |  |  |         |
|      | Total Price (in words)                                    |  |  |         |


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 ४३५ "A"

कुल प्रसाद दवाडी  
 कार्यालय प्रमुख  
 अधिकृत, सार्वजनिक


| S.N. | Name of Implements With Description  | Technical Specification   | Supplier's specification (Mandatory to fill up otherwise not consider their quoted rate) | Remarks |
|------|--|---|--|---------|
| 11   | <b>Maize sheller</b>   |   |  |         |
|      | Single tube corn Sheller; Dimensions: 500mm × 270mm × 500mm (±5%); Weight: 10 kg (without motor). Speed: 1800r/min; Production efficiency: 0.8 T/h. Supporting power: Single phase motor 0.65Kw or more. Voltage: 220V/50hz. Purity: >95%; Broken rate: <1, 5%. Frame: MS Angle.   |   |  |         |
|      | <b>Total Price (in figures)</b>  |   |  |         |
|      | <b>Total Price (in words)</b>  |   |  |         |
| 12   | <b>Electrical combine mill</b>   |   |  |         |
|      | Power source   | 3-4 hp (2.2-3 kw) 1PH, 220V/50Hz/2800RPM. (100 percent copper wire binding motor)                             |  |         |
|      | Body material  | metallic steel  |  |         |
|      | Capacity   | >80kg/hr. for rice de-husking; >150 kg for grinding   |  |         |
|      | Feeding  | hopper having adjustable feed rate mechanism  |  |         |
|      | Outlet   | should have adjustable system in outlet, polyester spout cloth provided                                       |  |         |
|      | Compartment  | rice and disc grind compartment one single machine  |  |         |
|      | Rotor diameter (mm)  | rice mill: not less than 40; disc mill: not less than 210   |  |         |
|      | Sieve (mm)   | aperture :1.2   |  |         |
|      | Feature required   | application in both milling of cereals such as rice, wheat, millet and paddy. <b>Gross wt. 75 kg or above</b> |  |         |
|      | Safety   | protective covers on moving parts such as belt, blades, pulley etc.   |  |         |
|      | <b>Total Price (in figures)</b>  |   |  |         |
|      | <b>Total Price (in words)</b>  |   |  |         |
| 13   | <b>Two in one electrical sprayer</b>   |   |  |         |
|      | Agricultural chargeable knapsack sprayer (2 in 1), Tank capacity 16 L. PUMP TYPE: 12 V Motor operated diaphragm type with 2-3 liter per minute capacity, Speed 3000-3600 rpm. Battery 12 V, 8-9AH rechargeable. Charger input: 100-240V AC, 50HZ, output: 12V DC 1.5A. Minimum Working pressure 0.4 M Pascal. Nozzles Minimum 2 pieces. Lance material: Stainless steel. Hand pumping Rocking rod. |   |  |         |
|      | <b>Total Price (in figures)</b>  |   |  |         |
|      | <b>Total Price (in words)</b>  |   |  |         |

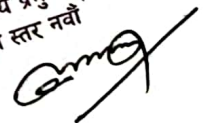
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सिर्जना लामिछाने  
कृषि इंजिनियर  
४३५ "A"

कुल प्रसाद दवाडी  
कार्यालय प्रमुख  
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| S.N. | Name of Implements With Description   | Technical Specification   | Supplier's specification (Mandatory to fill up otherwise not consider their quoted rate) | Remarks |
|------|---|---|--|---------|
| 14   | <b>Combined Power Thresher</b>  |   |  |         |
|      | Gasoline power operated multi crop thresher of threshing Rice, wheat etc. Capacity (paddy): $\geq 300$ kg/hr. Cyclone Grain cleaning. Power: Gasoline engine, $\geq 6.5$ hp, 4 stroke, petrol, air cooled, single cylinder, Fuel tank capacity: $\geq 3.6$ L. Rated RPM: 3000-3600. Roller speed $\geq 800$ RPM. Breakage rate $< 2\%$ . Cleaning fan speed $> 2000$ RPM. Transportation wheel: Pneumatic tyre. Gross weight 70 kg or above. Safety: Protective covers etc. |   |  |         |
|      | <b>Total Price (in figures)</b>   |   |  |         |
|      | <b>Total Price (in words)</b>   |   |  |         |
| 15   | <b>Bed former</b>   |   |  |         |
|      | Adjustable furrow size bed former furrow attaching on mini tiller. Painted black and made of MS iron, weight not less than 3 kg. tilling width 200-300mm, depth 120-200mm.  |   |  |         |
|      | <b>Total Price (in figures)</b>   |   |  |         |
|      | <b>Total Price (in words)</b>   |   |  |         |
| 16   | <b>Power tiller</b>   |   |  |         |
|      | General   | Agricultural diesel Power tiller suitable for wet and dryland condition of Nepal. The weight of the power tiller with Rotavator shall be 400-450 kgs. |  |         |
|      | Engine  | Horizontal single cylinder, 4 stroke Water Cooled diesel engine, The maximum power output shall be in the range of $12 \pm (5\%)$ HP at governed RPM. |  |         |
|      | Starting System   | Hand Cranking   |  |         |
|      | Transmission  | Gear Type   |  |         |
|      | Fuel Tank   | Minimum 10 Liter  |  |         |
|      | Cooling   | Water cooled  |  |         |
|      | Turning speed of rototilling shaft  | 300-550 RPM   |  |         |
|      | Rototilling width   | 600 mm minimum, number of blades minimum 18   |  |         |
|      | Minimum ground clearance  | 185 mm  |  |         |
|      | <b>Total Price (in figures)</b>   |   |  |         |
|      | <b>Total Price (in words)</b>   |   |  |         |


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 कार्यालय प्रमुख  
 अधिकृत स्तर नवौं  




| S.N. | Name of Implements With Description  | Technical Specification   | Supplier's specification (Mandatory to fill up otherwise not consider their quoted rate) | Remarks |
|------|--|---|--|---------|
| 17   | <b>Fogger set</b>  |   |  |         |
|      | Fogger system set with 4 -way nozzle minimum 10 nozzles two line or more as per requirement and 40-50 head water pump suitable for ploy house of size minimum 12x6 sqm For Cooling, Humidifying, And Spraying. |   |  |         |
|      | Total Price (in figures)   |   |  |         |
|      | Total Price (in words)   |   |  |         |
| 18   | <b>Blower</b>  |   |  |         |
|      | Electric blower for mushroom cultivation having blade diameter 0.6-0.9m, RPM 1400, POWER 0.5 to 1 hp.  |   |  |         |
|      | Total Price (in figures)   |   |  |         |
|      | Total Price (in words)   |   |  |         |
| 19   | <b>Portable bag closer sewing machine</b>  |   |  |         |
|      | Make,model,brand   | any   |  |         |
|      | Power required   | 220-250V, 1.3 Amps, 8000 rpm AC Motor                                   |  |         |
|      | Bag closing speed  | not less than 1800 stitch per minute or 6 to 8 bags per minute          |  |         |
|      | Stitch length  | around 3.5 stitches/inch  |  |         |
|      | Types of bags  | All kind of of multi wall paper, jute, burlap,cotton,hessian,woven bags |  |         |
|      | Thread   | to obatin maximum sewing performance use standard thread cone           |  |         |
|      | Weight   | around 6 kg   |  |         |
|      | dimensions   | 13'*12'*12' approx  |  |         |
|      | Total Price (in figures)   |   |  |         |
|      | Total Price (in words)   |   |  |         |

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४३५ "A"

कुल प्रसाद दत्त  
कार्यालय प्रमुख  
अधिकृत स्तर नवौं


| S.N. | Name of Implements With Description        | Technical Specification                   | Supplier's specification (Mandatory to fill up otherwise not consider their quoted rate) | Remarks |
|------|--|---|--|---------|
| 20   | <b>Peeling Machine for Coffee</b>          |   |  |         |
|      | Make, model, brand                         | any                                       |  |         |
|      | Output Capacity                            | not less than 75 kg/ hour                 |  |         |
|      | Frequency                                  | 50 Hz                                     |  |         |
|      | Voltage                                    | 415 V                                     |  |         |
|      | Operation                                  | Motor Operated                            |  |         |
|      | Power Required                             | electric motor power 5 hp, 3 phase        |  |         |
|      | Dimension                                  | approx. 1100 mm*900 mm*1200 mm            |  |         |
|      | <b>Total Price (in figures)</b>            |   |  |         |
|      | <b>Total Price (in words)</b>              |   |  |         |
| 21   | <b>Disc Type Pulper Machine for Coffee</b> |   |  |         |
|      | Make, model, brand                         | any                                       |  |         |
|      | Input Capacity                             | not less than 300 kg/ hour                |  |         |
|      | Frequency                                  | 50 Hz                                     |  |         |
|      | Voltage                                    | 220 volts                                 |  |         |
|      | Power required                             | electric motor power, 1 hp, single phase. |  |         |
|      | Disc Diameter                              | 13 inches in approx                       |  |         |
|      | Disc Material                              | Cast Iron                                 |  |         |
|      | <b>Total Price (in figures)</b>            |   |  |         |
|      | <b>Total Price (in words)</b>              |   |  |         |
| 22   | <b>Coffee Roaster Machine</b>              |   |  |         |
|      | Make, model, brand                         | any                                       |  |         |
|      | Batch Capacity                             | not less than 5 kg                        |  |         |
|      | Roasting Power                             | 15 kW (max.)                              |  |         |
|      | Roasting Duration                          | around 12 minutes ( medium roast)         |  |         |
|      | Cooling Duration                           | around 3 minutes                          |  |         |
|      | Roasting System                            | Directly Heated Fire                      |  |         |
|      | Voltage                                    | 220V single phase                         |  |         |
|      | <b>Total Price (in figures)</b>            |   |  |         |
|      | <b>Total Price (in words)</b>              |   |  |         |

*Prinjula*

सिर्जना लामिछाने  
कृषि इंजिनियर  
४३५ "A"

कुल प्रसाद दाजी  
कार्यालय प्रमुख  
अधिकृत स्तर नवी

| S.N. | Name of Implements With Description  | Technical Specification   | Supplier's specification (Mandatory to fill up otherwise not consider their quoted rate) | Remarks |
|------|--|---|--|---------|
| 23   | <b>Potato Planter</b>  |   |  |         |
|      | Make, model, brand   | any   |  |         |
|      | Power ( Power Tiller)  | not less than 12 hp   |  |         |
|      | No. of rows  | 1   |  |         |
|      | ridging of rows  | 1   |  |         |
|      | Sowing depth   | 80 mm or more   |  |         |
|      | Potato Capacity  | 15 kg   |  |         |
|      | Planting distance  | 250- 330 mm adjustable  |  |         |
|      | Dimension of planter   | 28" × 18" × 30" (approx)  |  |         |
|      | starting method  | Manual  |  |         |
|      | <b>Total Price (in figures)</b>  |   |  |         |
|      | <b>Total Price (in words)</b>  |   |  |         |
| 24   | <b>Post Hole Digger</b>  |   |  |         |
|      | Petrol engine, 2 or 4 stroke, capacity greater than 1.6 hp, material : iron made, Working depth : greater than 2 ft.,working width : 4 or 6" |   |  |         |
|      | <b>Total Price (in figures)</b>  |   |  |         |
|      | <b>Total Price (in words)</b>  |   |  |         |
| 25   | <b>Combined Tillage</b>  |   |  |         |
|      | Make, model, brand   | any   |  |         |
|      | Tilling scope  | <b>Tilling: 600 mm or above</b>   |  |         |
|      |  | <b>Ditching: 290 mm or above</b>  |  |         |
|      | Tilling Depth  | <b>Tilling: 100 mm or above</b>   |  |         |
|      |  | <b>Ditching: 60 mm or above</b>   |  |         |
|      | Transmission System  | <b>Gear Transmission</b>  |  |         |
|      | Gear Shifting  | <b>Walking gearbox: -1,0,1,2 Tilling gearbox: -1,1</b>                                      |  |         |
|      | Maximum Power  | 7 hp  |  |         |
|      | Accessories  | 5 pieces ditching blade, 3 pcs 3 group rotary blades, one set iron wheel, 1 set rubber tyre |  |         |
|      | <b>Total Price (in figures)</b>  |   |  |         |
|      | <b>Total Price (in words)</b>  |   |  |         |

  
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Remarks

| S.N. | Name of Implements With Description                                  | Technical Specification   | Supplier's specification (Mandatory to fill up otherwise not consider their quoted rate) |
|------|--|---|--|
| 26   | <b>Automatic Sensor Based Irrigation and Fertigation System</b>      |   |  |
| A    | <b>Soil Temperature, Moisture and Electrical Conductivity Sensor</b> |   |  |
|      | Power Supply   | 3.6V-30V/DC   |  |
|      | Current Consumption  | 6mA@24V DC  |  |
|      | Soil Moisture Measurement Range                                      | From completely dry to fully saturated (from 0% to 100% of saturation)                    |  |
|      | Soil Moisture Resolution   | 0.03 % (0-50%) 1% (50-100%)   |  |
|      | Soil Moisture Accuracy   | ±2% (0-50%) ±3% (50-100%)   |  |
|      | Temperature Measurement Range  | -40-80°C  |  |
|      | Temperature Resolution and Accuracy                                  | 0.1°C and ±0.5°C  |  |
|      | Electrical Conductivity Measurement Range                            | 0-10000 µs/cm   |  |
|      | Temperature Compensation   | Built-in temperature compensation sensor, Range: 0-50°C                                   |  |
|      | Operating Temperature  | -40- 85°C   |  |
| B    | <b>Automatic Control Panel</b>                                       |   |  |
|      | Power Supply   | 5V-24V/DC   |  |
|      | Display Type   | LCD   |  |
|      | Switching Method   | Relay and Contactor   |  |
|      | Voltage Protection   | <b>Over and Under Voltage Protection</b>  |  |
|      | Current Protection   | Overload/ Overcurrent Protection  |  |
|      | Individual Load Switching Method                                     | Automatic  OFF  Manual  |  |
|      | Load Operation Indication  | Yes   |  |
|      | Online Monitoring System   | Yes   |  |
| C    | <b>Cloud Based Monitoring System</b>                                 |   |  |
|      | Soil Parameter   | Should monitor at least Volumetric Water Content, Temperature and Electrical Conductivity |  |
|      | Air Parameter  | Should monitor at least Humidity, Temperature and Due Point                               |  |
|      | <b>Total Price (in figures)</b>                                      |   |  |
|      | <b>Total Price (in words)</b>  |   |  |

**Suppliers responsibilities**

- i. Manufacturing company shall provide at least 1 year of warranty in case of manufacturing defect.
- ii. Necessary spare parts shall be supplied easily in demand of beneficiary.
- iii. General operation training of the machine shall be given to the purchaser.
- iv. Test report, lab certificate regarding machinery's power with respected country verified certification must be included by the suppliers.


  
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