



द्विपक सप्लायर्स

उर्लावारी-७, आश्रम टोल, मोरङ

मो.नं.: ९८४०२८८६८३
९८०४०९४५३५

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Technical Specification of Manual Bed Maker



FIGURE 1 : MANUAL BED MAKER

1. Purpose

The **Manual Bed Maker** is a hand-operated agricultural tool designed to create **raised beds or planting rows** in cultivated soil.

It helps farmers prepare uniform planting rows for crops, improving **drainage, crop spacing, and field management**.

The tool is particularly suitable for **small and medium-scale farms, vegetable cultivation, and kitchen gardens** where manual precision and low-cost equipment are preferred.

2. Dimensions

| Component | Specification |
|-----------------------|-----------------------------|
| Handle Length (Front) | 58 inches (1470 mm approx.) |
| Frame Width | Approx. 8–12 inches |





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| Component | Specification |
|----------------|-------------------------|
| Blade Type | Hard Curved Steel Blade |
| Wheel Diameter | Approx. 10–14 inches |

3. Design and Construction

I. Frame and Handle

- The frame provides the **structural support** for the entire tool.
- Long handles allow the operator to **push and guide the bed maker comfortably while walking**.
- Designed to maintain proper balance between the wheel and blade for smooth soil penetration.

II. Blade

- The blade is **curved and hardened steel**.
- It penetrates the soil and **cuts, shapes, and pushes soil to form raised beds or furrows**.
- The blade angle ensures efficient soil turning with minimal operator effort.

III. Wheel

- The wheel is mounted at the front of the tool.
- Provides **stability and smooth forward movement**.
- Helps maintain **consistent depth and alignment of the bed or row**.

4. Materials Used

Metal Frame and Handle

- Material: **Mild Steel or Carbon Steel**
- Provides **high strength and durability**
- Resistant to bending during field operations.

Metal Blade

- Material: **Hardened Steel**





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- Features:
 - High hardness
 - Wear resistance
 - Maintains sharp cutting edge.

Wheel

- Material: **Rubber-coated plastic or solid plastic wheel**
- Provides:
 - Good traction
 - Smooth rolling on different soil types
 - Resistance to wear and field conditions.

5. Operating Method

The manual bed maker is operated by **pushing the tool forward along the soil surface.**

Working process:

1. The operator pushes the tool using the long handle.
2. The wheel guides the tool along the row.
3. The steel blade cuts into the soil.
4. Soil is pushed sideways forming a **raised bed or furrow.**

6. Applications

The manual bed maker is widely used for:

- Vegetable farming
- Row crop cultivation
- Kitchen gardening
- Nursery bed preparation
- Small and medium-scale agriculture

It helps create **uniform planting rows for crops such as:**

- Maize
- Vegetables
- Beans
- Potatoes





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- Other row crops

7. Advantages

- Simple and easy to operate
- Low cost compared to mechanized equipment
- Reduces labor required for bed preparation
- Creates uniform planting beds
- Suitable for small farms and gardens
- Requires minimal maintenance

8. Maintenance

To maintain good performance:

- Clean soil from the blade after use.
- Sharpen the blade if needed.
- Check wheel bolts and fasteners regularly.
- Apply anti-rust oil on metal parts when not in use.

DIPAK
SUPPLIERS

