Maize
Single cross hybrids
**Sandhya - NMH 666**

**Morphological Characters:**
- Plant Height: Tall
- Duration: Kharif: 105 - 110 days, Rabi: 115 - 120 days
- Cob Placement: Low
- Grain Type and Colour: Semi-flint with dull yellowish orange colour
- Cob: Long cob with medium girth

**Special Features/USPs:**
- Suitable for high density planting (60 x 20 cm spacing)
- Cob is long with high shelling percentage i.e. 82%
- High yielder under good management
- Suitable for irrigated conditions

**Sunny - NMH 777**

**Morphological Characters:**
- Plant Height: Tall
- Duration: Kharif: 105 - 110 days, Rabi: 115 - 120 days
- Cob Placement: Medium
- Grain Type and Colour: Orange yellow, semi dent
- Cob: Long cob with medium girth

**Special Features/USPs:**
- Uniform cob size with excellent tip filling
- Orange yellow semi-dent bold kernels
- Stable yielder in moderate stress conditions
- Suitable for rainfed conditions
Raja - NMH 909

Morphological Characters:

Plant Height: Tall
Duration: Kharif: 110 - 115 days
          Rabi: 115 - 120 days
Cob Placement: Medium
Grain Type and Colour: Flint, orange yellow
Cob: Long cob with medium girth

Special Features/USPs:
- Attractive grain color
- High yielder under good management

Shreshta - NMH 731

Morphological Characters:

Plant Height: Tall (260 - 270 cm)
Duration: Kharif: 105 - 110 days
          Rabi: 115 - 120 days
Cob Placement: Low (115 - 120 cm)
Grain Type and Colour: Semi dent, orange yellow
Cob: Long cob, medium girth and with good tip filling

Special Features/USPs:
- Suitable for high density planting
- Long cobs with 14 - 16 rows
- Uniform placement of cobs, uniform cob size
- Shelling% 83 - 85
- Tolerant to foliar disease
Mallika - NMH 920

Morphological Characters:
- Plant Height: Tall
- Duration: Kharif: 110-115 days, Rabi: 120-125 days
- Cob Placement: Medium 130-135 cm
- Grain Type and Colour: Semi dent, orange yellow
- Cob: Long cob, medium girth and with good tip filling

Special Features/USPs:
- Long and good girth of cobs
- Attractive orange yellow kernels
- Uniform placement of cobs
- Uniform cob size
- Shelling 80%

Bunny - NMH 713

Morphological Characters:
- Plant Height: Tall (270 - 280 cm)
- Duration: Kharif: 110 - 115 days, Rabi: 125 - 130 days
- Cob Placement: Low (120 - 125 cm)
- Grain Type and Colour: Yellow, dent
- Cob: Conical, long

Special Features/USPs:
- High yielder under good management
- Uniform placement of cobs
- Uniform cob size
- Shelling % 80 - 82
Suvarna - NMH 589

Morphological Characters:

- **Plant Height:** Medium Tall
- **Duration:** Kharif: 90 - 95 days
- **Cob Placement:** Low
- **Grain Type and Colour:** Semi flint, orange yellow
- **Cob:** Extra long cob filling until the tip

Special Features/USPs:

- Very attractive long cobs
- Heat tolerant
- Suitable for green cobs

Krishna - NMH 360

Morphological Characters:

- **Plant Height:** Medium tall
- **Duration:** Kharif: 110 - 115 days
- Rabi: 120 - 125 days
- **Cob Placement:** Medium
- **Grain Type and Colour:** Semi flint with orange yellow
- **Cob:** Medium long with good girth

Special Features/USPs:

- Suitable for rainfed conditions
- Tolerant to Maydis leaf blight
- High shelling percentage
- Attractive grain color
Ajay - NMH 145

Morphological Characters:
- Plant Height: Tall
- Duration: Kharif: 110 – 115 days
  Rabi: 130 – 135 days
- Cob Placement: Low
- Grain Type and Colour: Semi dent, yellow
- Cob: Big and large with good tip filling

Special Features/USPs:
- Suitable for rainfed conditions

Trupti - NMH 4040

Morphological Characters:
- Plant Height: Tall (270-280 cm)
- Duration: Kharif: 105 - 110 days
  Rabi: 125 - 130 days
- Cob Placement: Medium (130 - 135 cm)
- Grain Type and Colour: Semi-dent, white
- Cob: Cylindrical

Special Features/USPs:
- Milky white bold kernels
- Uniform cob size
- High shelling (80 - 82%)
Package of Practices

Sowing Time:

Kharif: June – July
Rabi: October – December

Soils: Red soils with good water holding capacity and Black soils with good drainage facility are suitable. Alkaline/saline soils should be avoided.

Sowing: Flat bed sowing later converted into ridges and furrows.

Seed Rate: 7-8 kg/acre

Spacing: Row to row: 60 cm
Plant to plant: 20-25 cm

Thinning: One seedling/hill is retained.

Weed Control:

Spraying of Atrazine @ 4 g/ltr, 2-3 days after sowing. Intercultivation and earthing up at 25-30 days crop can be done.
Kharif:

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<th>Stage</th>
<th>N (kg/ha)</th>
<th>P (kg/ha)</th>
<th>K (kg/ha)</th>
<th>Zinc (kg/ha)</th>
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<td>25</td>
<td>50</td>
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<tr>
<td>25-30 days</td>
<td>50</td>
<td>10</td>
<td>25</td>
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</tr>
<tr>
<td>Flowering stage</td>
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<td>25</td>
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Rabi:

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<th>P (kg/ha)</th>
<th>K (kg/ha)</th>
<th>Zinc (kg/ha)</th>
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</tr>
<tr>
<td>Flowering stage</td>
<td>60</td>
<td>25</td>
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</tr>
</tbody>
</table>

**Fertilizer Application:** For better growth and yield the fertilizer schedule as shown above can be followed.

**Irrigation:**
Crop should be irrigated at regular intervals based on available soil moisture and soil type. Sufficient moisture at flowering and grain filling stage is very critical for realizing high yields. Stagnation of water at early stages of crop growth should be avoided.

**Pests and Diseases:**
**Stem Borer:** 12/15 days after sowing Endosulfan 2ml/lt or Carbofuran 3G granules/leaf whorls at 25-30 days crop can be applied.

**Leaf Blights:** After 30 and 45 days of sowing Propiconazole 1 ml/lt or Hexaconazole 2ml/litre is sprayed.

**Precautions:**
- Alkaline and saline soils must be avoided.
- If not recommended specifically, close planting must be avoided.
- Water stagnation leads to stunted growth and yellowing.
- More than one plant/hill must be avoided.
- At critical stages like flowering and grain filling sufficient moisture must be maintained.