



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

Validity: 08-21 July 2022

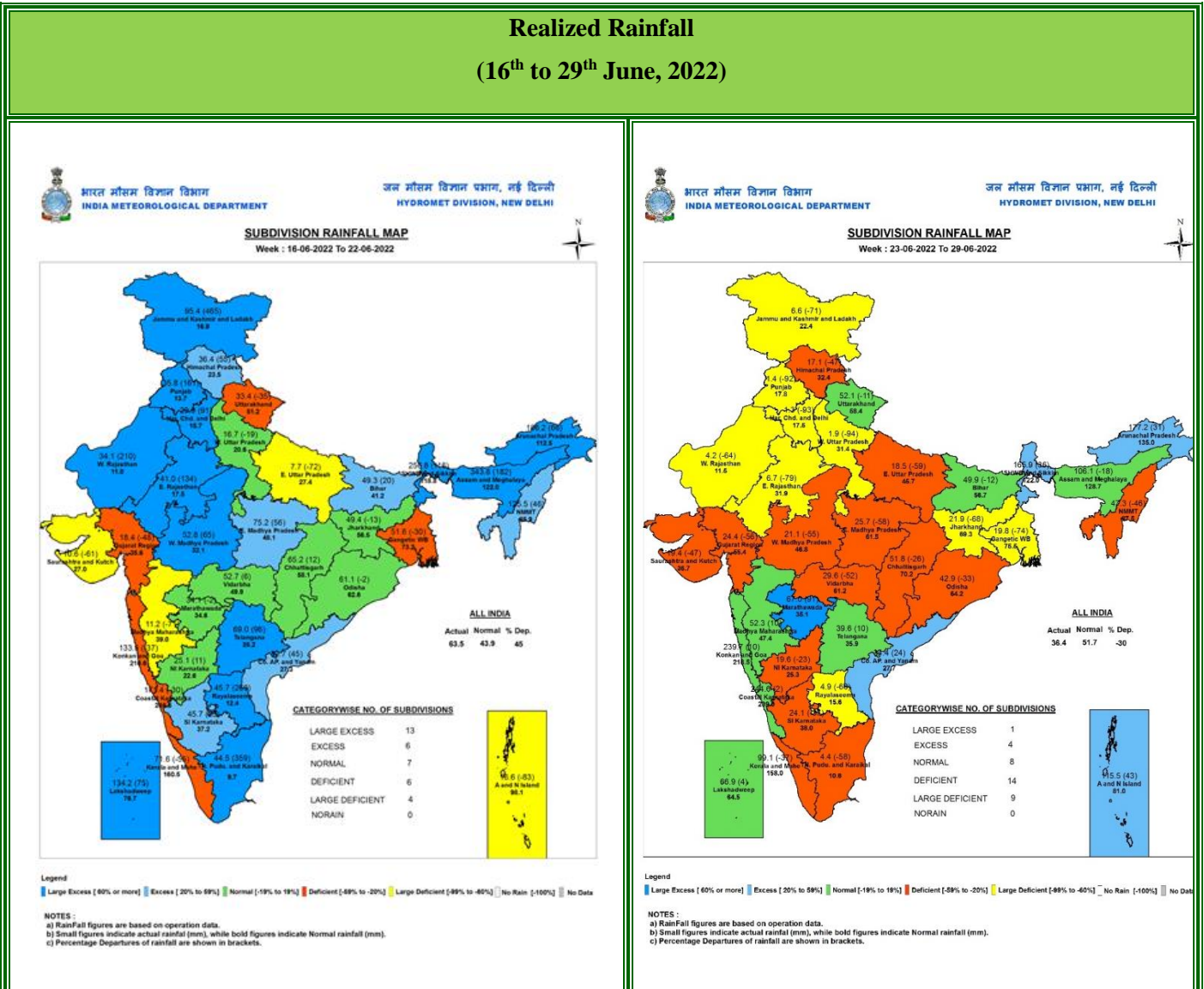
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**AICRP on Agro-Meteorology (AICRPAM)
Central Research Institute for Dryland Agriculture (CRIDA)
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&
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Earth System Science Organization**

Realized Rainfall and Extended Range Forecast (Rainfall and Temperature)

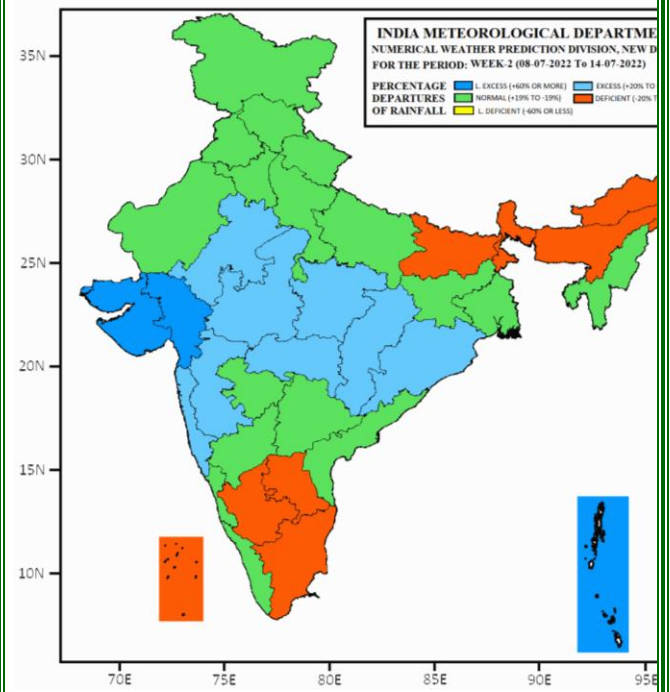
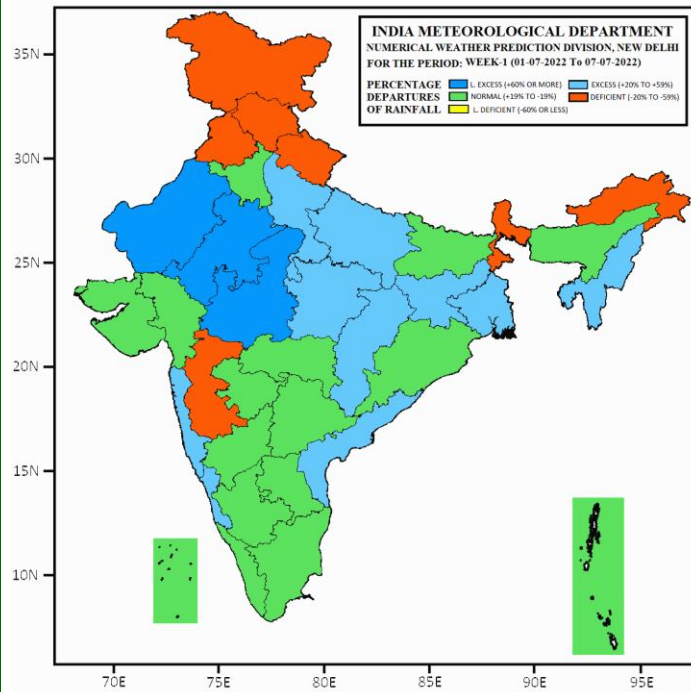
Realized Rainfall (16th to 29th June, 2022)



- Normal or above normal rainfall occurred in both the weeks in Arunachal Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Bihar, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana and Lakshadweep.
- Normal or above normal rainfall occurred in either of the two weeks in Nagaland Manipur Mizoram & Tripura (NMMT), Odisha, Jharkhand, Uttarakhand, West Uttar Pradesh, Punjab, Haryana, Chandigarh & Delhi, Himachal Pradesh, Jammu & Kashmir and Ladakh (UTs), Rajasthan, Madhya Pradesh, Chhattisgarh, Konkan & Goa, Madhya Maharashtra, Vidarbha, Karnataka, Tamil Nadu Puducherry & Karaikal, Rayalaseema and Andaman & Nicobar Islands.
- Below Normal rainfall occurred over rest of the States & UTs.

Extended Range Forecast System

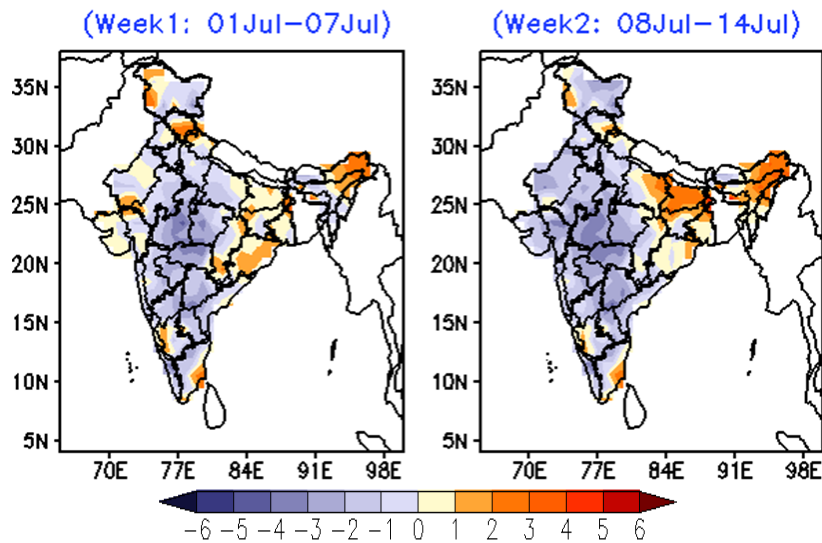
Rainfall forecast maps for the next 2 weeks (IC 29th June) (1st to 14th July 2022)



- **Week 1 (01.07.2022 to 07.07.2022):** Rainfall is likely to be above normal over northern plain regions covering UP, Bihar, Jharkhand, Haryana, Rajasthan, adjoining central parts of India (Odisha, Madhya Pradesh and Chhattisgarh) and western coastal region in week 1. Parts of extreme north India, northeast India and south peninsular India will have normal to slightly below normal rainfall in week 1.
- **Week 2 (08.07.2022 to 14.07.2022):** Rainfall over the central and northwest parts of India will be above normal, whereas, rainfall over northeast India and south peninsula is likely to be below normal.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 29th June)
(1st to 14th July 2022)**

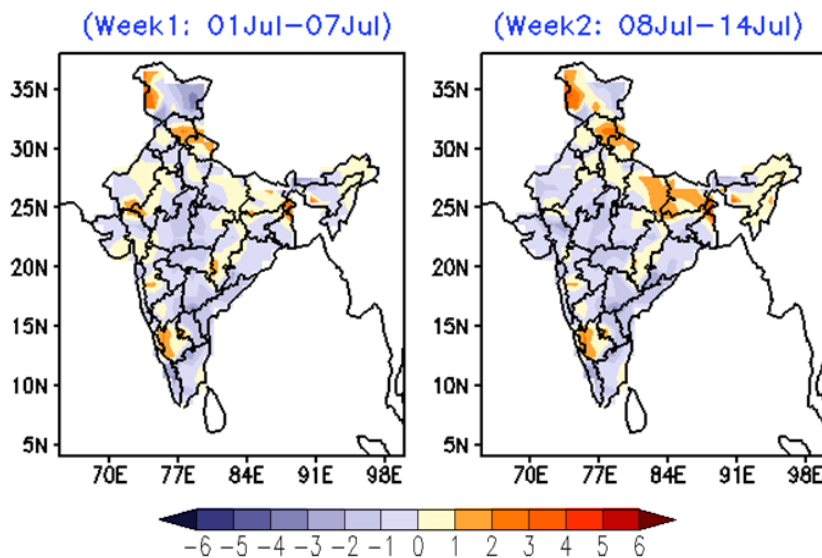
MME forecast Tmax anomaly (Deg C)



Maximum Temperature (Tmax)

- **Week 1 (01.07.2022 to 07.07.2022) and Week 2 (08.07.2022 to 14.07.2022):** Some parts of eastern coastal region of Odisha, Gangetic West Bengal, adjoining Jharkhand and North-eastern parts of India will have slightly above normal Tmax in week 1 and week 2. However, over rest of the region, Tmax will be slightly below normal.

MME forecast Tmin anomaly (Deg C)



Minimum Temperature (Tmin)

- **Week 1 (01.07.2022 to 07.07.2022) and Week 2 (08.07.2022 to 14.07.2022):** Parts of Uttar Pradesh, Bihar, Jharkhand, Odisha, Gangetic West Bengal and adjoining North-eastern parts of India will have slight above normal Tmin in week 1 and week 2. However, over rest of the region, Tmin will be normal to slightly below normal.

Strategic Agricultural Planning based on rainfall during the next two weeks till 21 July 2022

Agromet Advisories

Kerala

The amount of rainfall received over Kerala is 572 mm (-30% deficit) during 01 June - 8 July 2022. The extended range weather forecast (rainfall) for the next two weeks (8 - 14 July 2022 and 15 - 21 July 2022) is normal for week-1 and above normal week-2.

- Due to heavy wind, lodging may occur in banana orchard. To avoid this, propping is advised. It is also advised to cover the bunch to protect from hazardous effects of heat and cold.
- Because of high moisture content in the atmosphere, there is a chance for mahali disease in arecanut and coconut. For managing this, spraying of Copper oxy chloride @ 3g per litre of water during clear weather condition is advised.

Tamil Nadu

The amount of rainfall received over Tamil Nadu is 99 mm (54% excess) during 01 June - 8 July 2022. The extended range weather forecast (rainfall) for the next two weeks (8 - 14 July 2022 and 15 - 21 July 2022) is normal for week-1 and below normal for week-2.

- Prevailing weather condition is favorable for bud worm incidence in Jasmine. Farmers are advised to spray Thiacloprid (Alanto) 240 SC 1 ml/litre or Spinosad (Tracer) @ 0.5 ml/lit.
- Under prevailing hot weather condition, farmers are advised to provide adequate clean water and light to the fowls to avoid heat stroke.

Maharashtra

180 mm (-16% normal) rainfall over Madhya Maharashtra; 204 mm (16% normal) over Marathwada; 1158 mm (18% normal) in Konkan region and 237 mm (-4% normal) over Vidarbha was recorded during 01 June - 08 July 2022. The extended range weather forecast (rainfall) for the next two weeks (8 - 14 July 2022 and 15 - 21 July 2022) over Konkan, Madhya Maharashtra and Vidarbha is above normal and Marathwada is normal for week-1 and; above normal over Konkan, Vidarbha, Madhya Maharashtra and Marathwada for week-2.

Madhya Maharashtra

- In areas where soil is affected with white grub and termites, application of phorate granules @ 15 kg per ha is recommended.
- If sufficient moisture is available in the field, then it is advised to go for sowing of dry land crops. In case of intercropping Bajra + Tur (2:1) and Sunflower + Tur (2:1) is recommended.

Konkan

- Due to forecast of heavy to very heavy rainfall, it is advised to make arrangement for drain out excess water from rice, finger millet, turmeric, vegetable crop fields, coconut, arecanut, banana, sapota, papaya and newly planted fruit crop orchard.

Vidarbha

- Due to rainfall and further forecast of widespread light to moderate rainfall, it is advised to complete remaining sowing of pigeon pea during clear weather condition. Recommended varieties are PKV- Tara, BSMR-736, BSMR-853, Asha.
- There is a forecast of rains and thunderstorm/ lightning at isolated places, it is advised to keep farm animals indoor during thunderstorm/lightning.

Hisar

The amount of rainfall received over Hisar was 82 mm (-4% normal) during 01 June - 08 July 2022. The extended range weather forecast (rainfall) for the next two weeks (8 - 14 July 2022 and 15 - 21 July 2022) is above normal for week-1 and week-2.

- In view of dry weather condition, farmers are advised to apply irrigation in planted vegetable crops and fruits.
- Under prevailing weather condition, farmers are advised for sowing of sorghum, maize and lobia as fodder crops.

Uttar Pradesh

The amount of rainfall received over East Uttar Pradesh was 72 mm (-58% deficit) and 60 mm (-53% deficit) rainfall observed over West Uttar Pradesh during 1 June - 8 July 2022. The extended range weather forecast (rainfall) for the next two weeks (8 - 14 July 2022 and 15 - 21 July 2022) is normal over East Uttar Pradesh and West Uttar Pradesh for week-1 and; above normal over West Uttar Pradesh and normal over East Uttar Pradesh for week-2.

Western Uttar Pradesh

- Under assured sufficient moisture, sowing of sorghum composite varieties like *Varsha*, *CSV-13*, *15*, *SPB -1388*, *Vijeta* and hybrid varieties like *CSH-16*, *9*, *14*, *18*, *13* and *CSH-23* is advised.
- Due to rainy weather condition, farmers are advised for not to irrigate in vegetable crops during this week and pick up matured fruits in standing vegetable crops and also transplanting of new seedlings should be done as early as possible.

Eastern Uttar Pradesh

- Under optimum soil moisture condition, sowing of pigeon pea with improved varieties such as *Paras*, *UPAS 120*, *Type-21*, *Sharad* and *ICPL* etc. is advised.
- Due to changing weather and increasing day temperature, farmers are advised to keep the animals inside the shade and clean the area around the shed to avoid infestation of house flies and others.

Jammu

143 mm of rainfall (30% excess) was received over Jammu during 01 June - 08 July 2022. The extended range weather forecast (rainfall) provided for the next two weeks (8 - 14 July 2022 and 15 - 21 July 2022) over Jammu is below normal for week-1 and normal for week-2.

- After receiving sufficient rainfall, transplanting of chilli, tomato and brinjal from nursery to field area is advised.

Assam

The amount of rainfall received over Assam during 01 June - 08 July 2022 was 916 mm (43% excess). The extended range weather forecast (rainfall) provided for the next two weeks (8 - 14 July 2022 and 15 - 21 July 2022) over Assam is normal for week-1 and below normal for week-2.

- For *sali* rice community nurseries select easily accessible upland areas which is remain free from water stagnation & have sufficient slope for draining out the excess rain water.
- Provide surface drainage at required interval to facilitate the removal of excess water from the maize crop fields.

Chhattisgarh

The amount of rainfall received over Chhattisgarh was 236 mm (-14% normal) during 01 June - 08 July 2022. The extended range weather forecast (rainfall) provided for the next two weeks (8 - 14 July 2022 and 15 - 21 July 2022) over Chhattisgarh is above normal for week-1 and week-2.

- Drainage channels in the orchards should be kept in good condition in view of the above normal rainfall forecast.
- Vaccinate the animal to prevent for *Haemorrhagic septicaemia* and black quarter disease.

Karnataka

Rainfall received during 01 June - 08 July 2022 over South Interior Karnataka was 247 mm (26% excess) and 143 mm (9% normal) received over North Interior Karnataka. The extended range weather forecast (rainfall) for the next two weeks (8 - 14 July 2022 and 15 - 21 July 2022) is above normal over South Interior Karnataka and normal over North Interior Karnataka for week-1 and; below normal over South Interior Karnataka and normal over North Interior Karnataka for week-2.

South Interior Karnataka

- Wherever over population of crop plants is existing, undertake thinning operation for better availability of scarce soil moisture to the reduced population of crop plants.

Uttarakhand

The amount of rainfall received over Uttarakhand was 217 mm (-20% deficit) during 01 June - 08 July 2022. The extended range weather forecast (rainfall) provided for the next two weeks (8 - 14 July 2022 and 15 - 21 July 2022) over Uttarakhand is below normal for week-1 and normal for week-2.

- Maintain proper drainage in the crop fields to drain out excess water to avoid water stagnation.

- In tomato and cucurbitaceous crops, keep the plants upright with support and do not let the leaves remain in the lower part of 20 cm of plant.

Andhra Pradesh

The amount of rainfall received over Coastal Andhra Pradesh was 168 mm (14% normal) and over Rayalaseema 128 mm (42% excess) during 01 June - 08 July 2022. The extended range weather forecast (rainfall) provided for the next two weeks (8 - 14 July 2022 and 15 - 21 July 2022) over Coastal Andhra Pradesh and Rayalaseema is normal for week-1 and; below normal over Rayalaseema and normal over Coastal Andhra Pradesh for week-2.

- Farmers are advised to take up land preparation with the available soil moisture and keep the fields ready for sowing of kharif crops.
- In Ananthapuramu, Kurnool, Kadapa, Chittoor and Prakasam districts, farmers cultivating redgram are advised to select the varieties like LRG-41, LRG-52, PRG-176, ICPL85063 and ICPL 87119. The optimum sowing time for redgram is June to August.
- Farmers are advised to select bajra varieties viz., ABV 04, Raj 171, Pusa 61 and PSV 56 and take up seed treatment with Thiram or Captan @ 3 g/kg of seed. The seed rate for bajra is 1.6 kg/acre and a spacing 45 cm x 15 cm is to be adopted to attain optimum plant population.

Punjab

The amount of rainfall received over Punjab was 79 mm (-9% normal) during 01 June - 08 July 2022. The extended range weather forecast (rainfall) provided for the next two weeks (8 - 14 July 2022 and 15 - 21 July 2022) over Punjab is above normal for week-1 and normal for week-2.

- Transplanting of early varieties of cauliflower should be done.
- For control of fruit rot and die back in chilli, spray the crop with 250 ml of Folicur or 750 g of Indofil M 45 or Blitox in 250 litres of water per acre at 10 days interval.

Himachal Pradesh

The amount of rainfall received over Himachal Pradesh was 139 mm (-9% normal) during 01 June - 08 July 2022. The extended range weather forecast (rainfall) provided for the next two weeks (8 - 14 July 2022 and 15 - 21 July 2022) over Himachal Pradesh is below normal for week-1 and normal for week-2.

- For controlling storage pests farmers should put one pouch of celhpos (3 g) or quickphos (12 g) or Fumino pouch in a wet cloth in the middle of bin and keep the bin airtight for some time.
- Monitoring of paddy nursery for blast disease is advised. In case the symptoms of blast appear on the nursery, recommended fungicides should be used to control the disease.

Gujarat

The amount of rainfall received over Gujarat was 184 mm (-14% normal) during 01 June - 08 July 2022. The extended range weather forecast (rainfall) provided for the next two weeks (8 - 14 July 2022 and 15 - 21 July 2022) over Gujarat is above normal for week-1 and above normal for week-2.

- In brinjal, for management of fruit and shoot borer, use pheromone traps 4-6 per acre is advised. Infested fruits and shoots should be collected and buried into the soil. Spraying of Chlorantraniliprole 18.5 % SC 3.0 ml /10 liter of water is advised.
- Spray Deltamethrin or Amitraz 2 ml/liter of water for the control of tick. Deworming, T.B. and J.D. testing should be done.

Madhya Pradesh

The amount of rainfall received over Madhya Pradesh was 206 mm (-10% normal) during 01 June - 08 July 2022. The extended range weather forecast (rainfall) provided for the next two weeks (8 - 14 July 2022 and 15 - 21 July 2022) over Madhya Pradesh is above normal for week-1 and week-2.

- Farmers are advised for sowing after crop seed treatment. For monocot seed apply 250 gm Azotobactor +250 gm PSB and for dicot seed apply Rhizobium 250gm + PSB 250gm for 10 kg seed, similarly treat the seed with Tricoderma 5 gm per kg of seed.

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