



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

Validity: 29 July – 11 August 2022

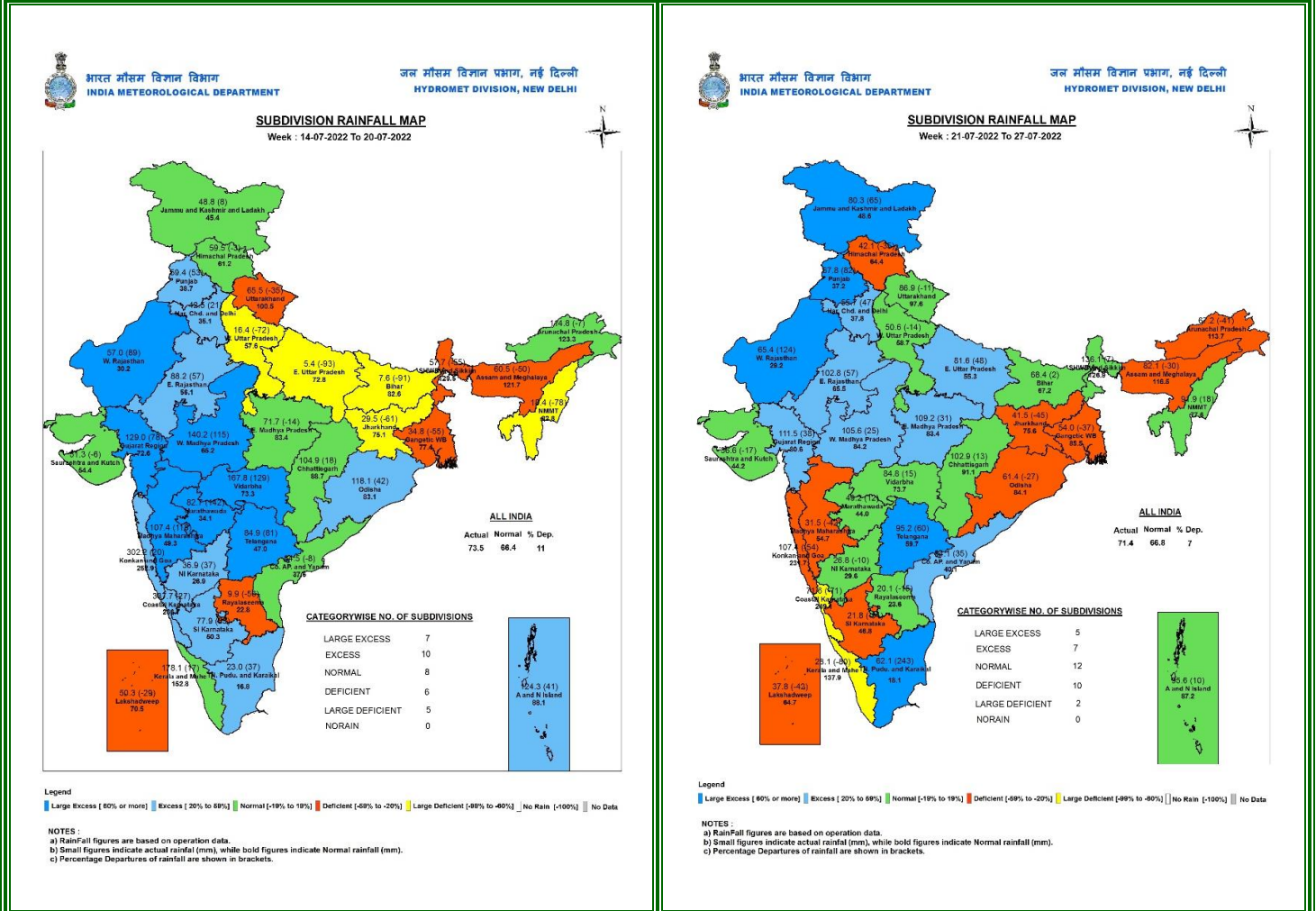
Date of issue: 29 July 2022

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

Realized Rainfall and Extended Range Forecast (Rainfall and Temperature)

Realized Rainfall (14th to 27th July, 2022)

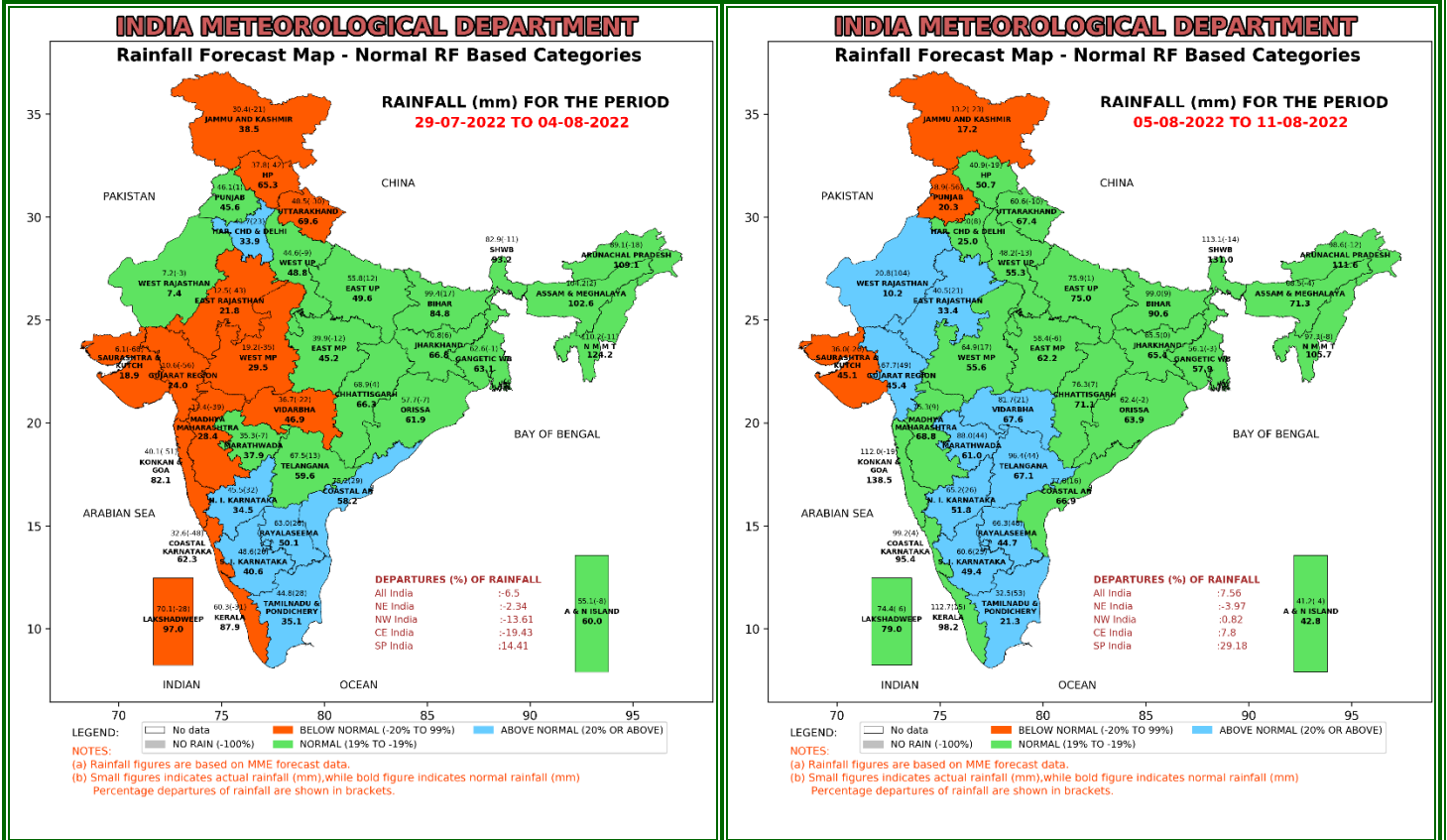


- Normal or above normal rainfall occurred in both the weeks in Jammu & Kashmir and Ladakh (UTs), Punjab, Haryana, Chandigarh & Delhi, Rajasthan, Gujarat, Madhya Pradesh, Chhattisgarh, Marathwada, Vidarbha, Telangana, Coastal Andhra Pradesh & Yanam, North Interior Karnataka, Tamil Nadu Puducherry & Karaikal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

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC- 27th July)

(29th July to 11th August 2022)



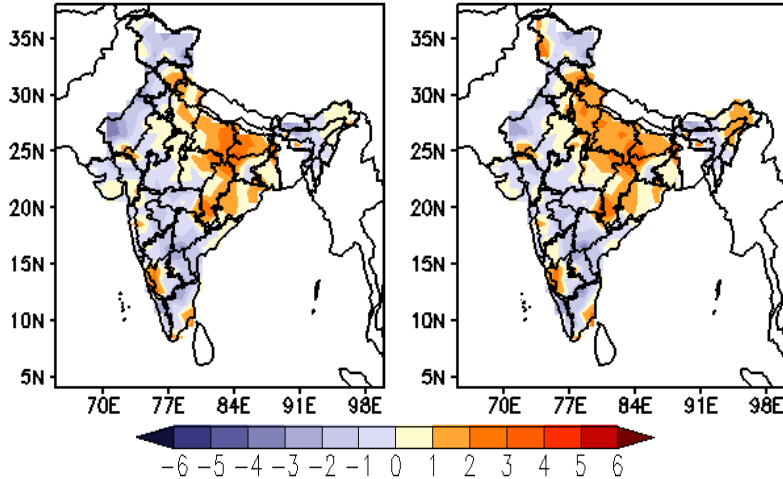
- **Week 1 (29.07.2022 to 04.08.2022):** Rainfall is expected to decrease over central India and west coast. Rainfall associated with Monsoon trough will shift towards Uttar Pradesh, Bihar and adjoining northeast region. Rainfall will be above normal over the eastern parts of the southern peninsula.
- **Week 2 (05.08.2022 to 11.08.2022):** Rainfall is expected to increase over the central and western parts of India.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 27th July)
(29th July to 11th August 2022)**

MME forecast Tmax anomaly (Deg C)

(Week1: 29Jul–04Aug)

(Week2: 05Aug–11Aug)



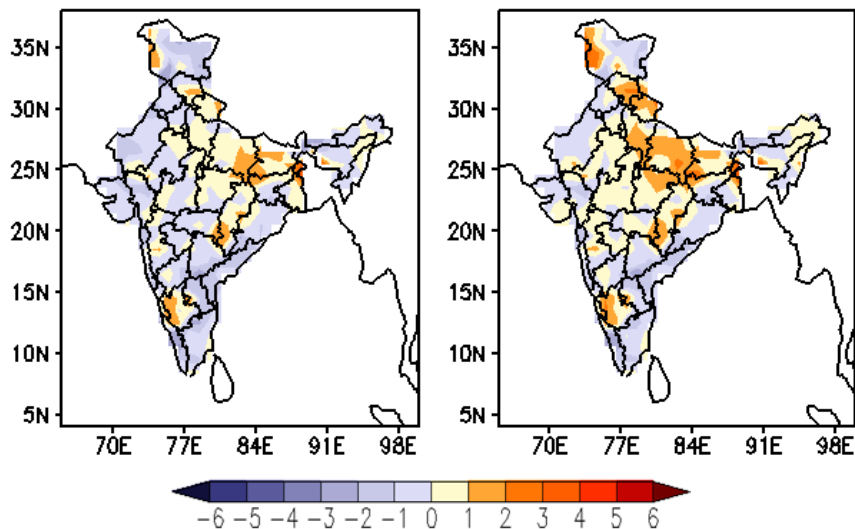
Maximum Temperature (Tmax)

- **Week 1 (29.07.2022 to 04.08.2022) and Week 2 (05.08.2022 to 11.08.2022):** Tmax will be above normal over some parts of Jharkhand, Uttar Pradesh, Bihar, Odisha and Chhattisgarh. Tmax will be normal to slightly below normal over rest of the regions (particularly the western parts of the country).

MME forecast Tmin anomaly (Deg C)

(Week1: 29Jul–04Aug)

(Week2: 05Aug–11Aug)



Minimum Temperature (Tmin)

- **Week 1 (29.07.2022 to 04.08.2022) and Week 2 (05.08.2022 to 11.08.2022):** Tmin will be close to normal with weak anomalies over different parts of the India whereas it will be slightly above normal over Uttar Pradesh, Bihar, Jharkhand, Madhya Pradesh, Chhattisgarh and neighbourhood.

Agromet Advisories

Kerala

The amount of rainfall received over Kerala is 947 mm (-25% deficit) during 1 June - 29 July 2022. The extended range weather forecast (rainfall) for the next two weeks (29 July - 04 August 2022 and 04 - 11 August 2022) is below normal for week-1 and normal for week-2.

- During rainy season, there is a chance of bud rot disease in coconut. As a prophylactic measure, it is advised to spray 1% Bordeaux mixture on coconut crown.
- To control Phomopsis blight disease of brinjal fruit, it is advised to spray 1g per litre of Carbendazim and drench the same @ 2g per litre water.

Tamil Nadu

The amount of rainfall received over Tamil Nadu is 208 mm (80% large excess) during 1 June - 29 July 2022. The extended range weather forecast (rainfall) for the next two weeks (29 July - 04 August 2022 and 04 - 11 August 2022) is above normal for week-1 and 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/litre.
- Prevailing weather condition is also favourable for mealy bug incidence in papaya. To control, it is advised to release *Acerophagus papayae* @ 100 parasitoids / field / village or block.

Maharashtra

476 mm (28% excess) rainfall over Madhya Maharashtra; 485 mm (66% large excess) in Marathwada; 1857 mm (10% excess) in Konkan region and 662 mm (42% excess) over Vidarbha was recorded during 1 June - 29 July 2022. The extended range weather forecast (rainfall) for the next two weeks (29 July - 04 August 2022 and 04 - 11 August 2022) over Konkan, Madhya Maharashtra and Vidarbha is below normal and over Marathwada is normal for week-1 and; normal over Konkan and Madhya Maharashtra and above normal over Vidarbha and Marathwada for week-2, respectively.

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 cloudy and humid weather condition, there is a possibility of incidence of shoot borer on vegetative flush of mango. To protect the flush of mango, it is advised to spray Lambda cyhalothrin 5% EC @ 6 ml or Quinalphos 25% EC @ 25 ml per 10 litre of water during

clear weather condition.

- Under prevailing weather condition, there is also a possibility of incidence of red pumpkin beetle on cucumber, bitter gourd, snake gourd, bottle gourd, red pumpkin and ridge gourd etc. cucurbitaceous crops. If incidence is noticed, it is advised to spray Dimethoate 30% EC @ 15 ml per 10 litres of water during clear weather.

Vidarbha

- Due to heavy rain and wet spells past week, crops were damaged in some parts of the district. In damaged areas it is advised to prepare the field upon vapsa (optimum soil moisture condition) for re-sowing of contingent (alternate) crops like sesame, pigeon pea, sunflower, pearl millet and castor in affected areas.
- To manage the initial incidence of leaf eating caterpillar in soybean crops, spraying of Azadirachtin 300 ppm @ 50 ml per 10 litres of water is advisable after current spell of rains during clear weather.

Hisar

The amount of rainfall received over Hisar was 224 mm (14% excess) during 1 June - 29 July 2022. The extended range weather forecast (rainfall) for the next two weeks (29 July - 04 August 2022 and 04 - 11 August 2022) is above normal for week-1 and normal for week-2.

- Under prevailing weather condition, farmers are advised for sowing of sorghum, maize and lobia as a fodder crop.
- Farmers are advised to withhold irrigation operations in planted vegetable crops and fruits plants due to the forecast of above normal rainfall during week-1.

Uttar Pradesh

The amount of rainfall received over East Uttar Pradesh was 177 mm (-52% deficit) and 162 mm (-47% deficit) rainfall observed over West Uttar Pradesh during 1 June - 29 July 2022. The extended range weather forecast (rainfall) for the next two weeks (29 July - 04 August 2022 and 04 - 11 August 2022) is normal over East Uttar Pradesh and West Uttar Pradesh for week-1 and week-2.

Eastern Uttar Pradesh

- Under prevailing weather condition, to prevent yellow vein mosaic disease in okra, it is advised to spray Dimethoate 30 EC @ 1.5 ml/litre of water.
- Due to changing weather and increasing day temperature, farmers are advised to keep the animals inside the shed and clean the area around the shed to avoid infestation of house flies and others.

Jammu

323 mm of rainfall (28% excess) was received over Jammu during 1 June - 29 July 2022. The extended range weather forecast (rainfall) provided for the next two weeks (29 July - 04 August 2022 and 04 - 11 August 2022) over Jammu is below normal for week-1 and week-2.

- Due to rainfall in last week, it is advised to make arrangement to drain out excess rain water from the fields and also postpone first split dose of nitrogen in pulse crop.
- Under prevailing weather condition, it is advised to complete the transplanting of rainy seasonal annuals (gaillardia, balsam, cosmos, portulaca, kochia, sunflower, morning glory, gomphrena, celosia etc).

Assam

The amount of rainfall received over Assam during 1 June - 29 July 2022 was 1113 mm (10% excess). The extended range weather forecast (rainfall) provided for the next two weeks (29 July - 04 August 2022 and 04 - 11 August 2022) over Assam is normal for week-1 and week-2.

- Under prevailing weather condition, it is advised to continue land preparation for cultivation of sesamum. Recommended varieties to obtain higher yield are *ST 1683*, *Punjab Til No. 1*, *AST-1* etc.
- To prevent lodging in sugarcane crops, it is advised to provide mechanical support to the crops by using bamboo sticks or tying 4 to 5 canes together with their leaves.

Karnataka

Rainfall received during 1 June - 29 July 2022 over South Interior Karnataka was 454 mm (34% excess) and 277 mm (29% excess) received over North Interior Karnataka. The extended range weather forecast (rainfall) for the next two weeks (29 July - 04 August 2022 and 04 - 11 August 2022) is above normal over South Interior Karnataka and North Interior Karnataka for week-1 and week-2.

South Interior Karnataka

- In long-duration field crops like pigeon pea, earthing up is advised for better availability of soil moisture to the crop rows.

Uttarakhand

The amount of rainfall received over Uttarakhand was 489 mm (-14% deficit) during 1 June - 29 July 2022. The extended range weather forecast (rainfall) provided for the next two weeks (29 July - 04 August 2022 and 04 - 11 August 2022) over Uttarakhand is below normal for week-1 and normal for week-2.

- Under prevailing weather condition, it is advised to facilitate good drainage system to remove excess rainwater from crop fields to avoid water stagnation.

Punjab

The amount of rainfall received over Punjab was 238 mm (16% excess) during 1 June - 29 July 2022. The extended range weather forecast (rainfall) provided for the next two weeks (29 July - 04 August 2022 and 04 - 11 August 2022) over Punjab is normal for week-1 and below normal for week-2.

- To control the attack of pink bollworm, use yellow sticky Delta trap with at least 10 micro litres of Gossyplure and place it at 15 cm above crop canopy. Replace the lure after 15 days and use 1 trap/ha.

- For the control of fruit rot and die back in chilli, it is advised to spray Folicur @ 250 ml or Indofil M 45 @ 750 g per acre at 10 days interval.

Himachal Pradesh

The amount of rainfall received over Himachal Pradesh was 309 mm (-9% deficit) during 1 June - 29 July 2022. The extended range weather forecast (rainfall) provided for the next two weeks (29 July - 04 August 2022 and 04 - 11 August 2022) over Himachal Pradesh is below normal for week-1 and; normal for week-2.

- In mid hills of the state, it is the optimum time for raising the nursery of mid-season cauliflower varieties. Recommended varieties are *Palam Uphar*, *Pusa Deepali*, *F1 Megha*, *F1 Barkha* and *F1 White Excel*.
- Farmers in the high hills temperate wet areas can go in for the sowing of pea crop. The recommended varieties are *Palam Samool*, *Pb-89*, *Lincoln*, *Azad P-1* and *Palam Priya*.

Gujarat

The amount of rainfall received over Gujarat was 651 mm (44% excess) during 1 June - 29 July 2022. The extended range weather forecast (rainfall) provided for the next two weeks (29 July - 04 August 2022 and 04 - 11 August 2022) over Gujarat is below normal for week-1 and above normal for week-2.

- Due to the rainfall in the last week, farmers are advised to make proper arrangement to remove excess rain water from fields.
- Provide support to the young plants of mango to protect against wind.

Andhra Pradesh

The amount of rainfall received over Coastal Andhra Pradesh was 310 mm (20% excess) and over Rayalaseema 178 mm (12% excess) during 1 June - 29 July 2022. The extended range weather forecast (rainfall) provided for the next two weeks (29 July - 04 August 2022 and 04 - 11 August 2022) over Coastal Andhra Pradesh and Rayalaseema is above normal for week-1 and; normal over Coastal Andhra Pradesh and above normal over Rayalaseema for week-2.

- Farmers growing castor are advised to select the varieties suitable for dryland conditions viz., *Kranthi*, *Jwala*, *Jyothi*, *Kiran*, *PCH-111*, *DCH-519*, *DCH-177* and *ICH-66* in Kurnool and Ananthapuramu districts.
- In Ananthapuramu, Kurnool, Kadapa, Chittoor and Prakasam districts, farmers are advised to select the redgram varieties like *LRG-41*, *LRG-52*, *PRG-176*, *ICPL 85063* and *ICPL 87119*. The optimum sowing time for redgram is June to August.

Madhya Pradesh

The amount of rainfall received over Madhya Pradesh was 465 mm (-1% deficit) during 1 June - 29 July 2022. The extended range weather forecast (rainfall) provided for the next two weeks (29 July - 04 August 2022 and 04 - 11 August 2022) over Madhya Pradesh is above normal for week-1 and

week-2.

- Farmers are advised to tie the sugar cane plants together to prevent from lodging due to strong winds.
- Under prevailing weather condition, farmers are advised for nursery bed preparation for sowing of kharif onion, chilli and brinjal seeds in the nursery.

Disclaimer:

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