



National Agromet Advisory Service Bulletin
Based on
Extended Range Weather Forecast (ERFS)

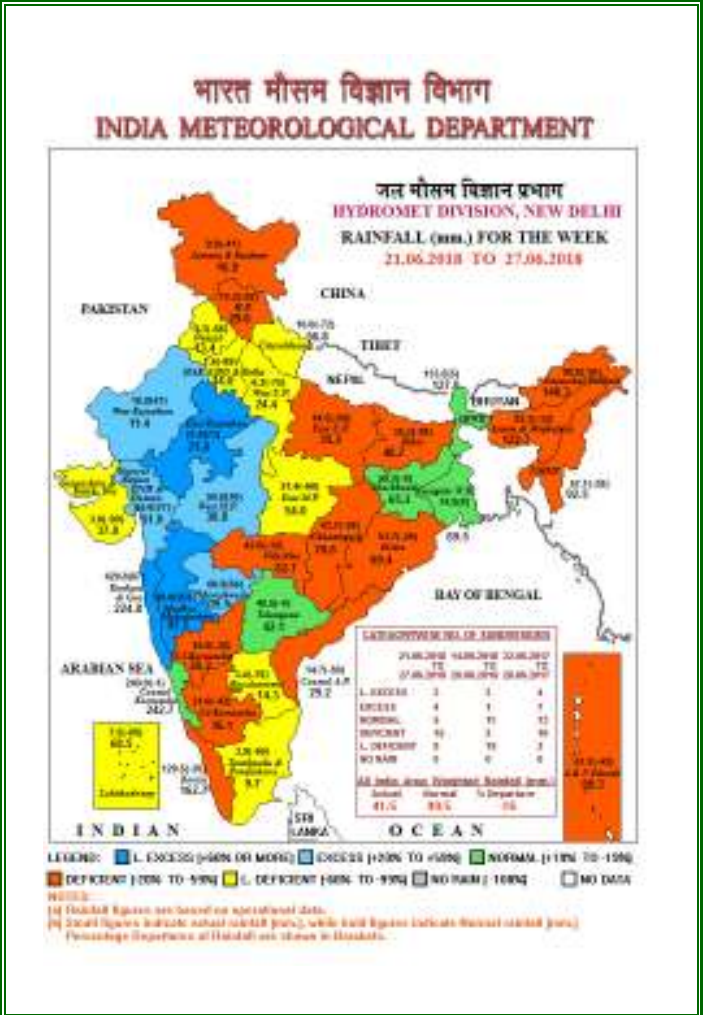
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India Meteorological Department

**Realized Rainfall and Extended Range Forecast
(Rainfall and Temperatures)**

**Realized Rainfall
(14th June to 27th June 2018)**

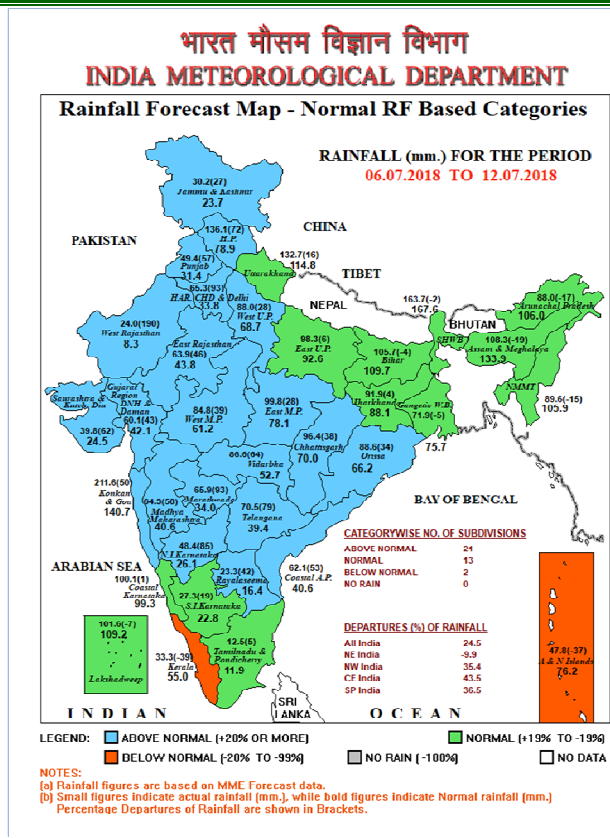
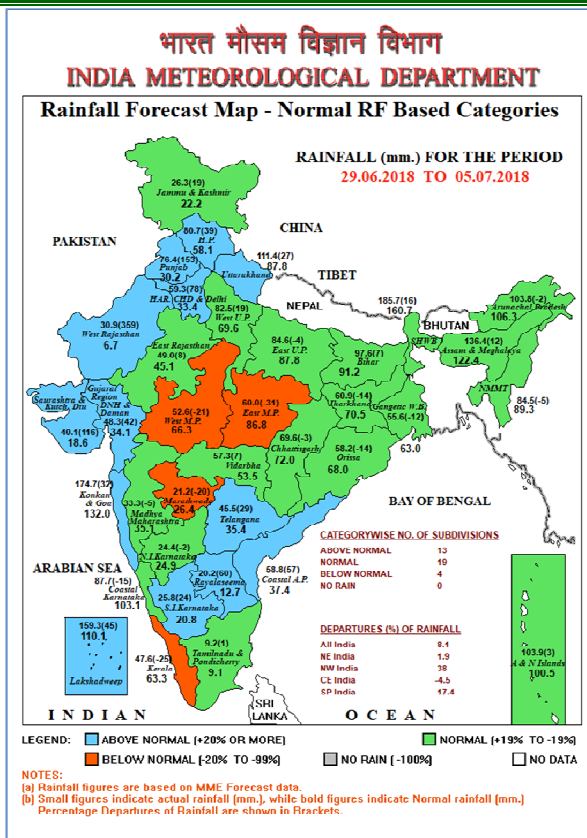


- Normal or above normal rainfall occurred during last two weeks in Sub-Himalayan West Bengal & Sikkim, Konkan & Goa and Coastal Karnataka.
- Normal or above normal rainfall occurred in either of the last two weeks in Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana Chd & Delhi, Rajasthan, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Jharkhand, Gangetic West Bengal, West Madhya Pradesh, Gujarat Region, Madhya Maharashtra, Marathwada, Telangana, Kerala, Tamil Nadu, Andaman & Nicobar Islands and Lakshadweep.
- Below normal rainfall occurred in both the weeks in Uttar Pradesh, Bihar, Odisha, East Madhya Pradesh, Chhattisgarh, Vidarbha, Saurashtra & Kutch, Andhra Pradesh, North Interior Karnataka and South Interior Karnataka.

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC – 27 June)

(29th June to 12th July 2018)



Extended Range Rainfall Forecast

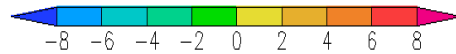
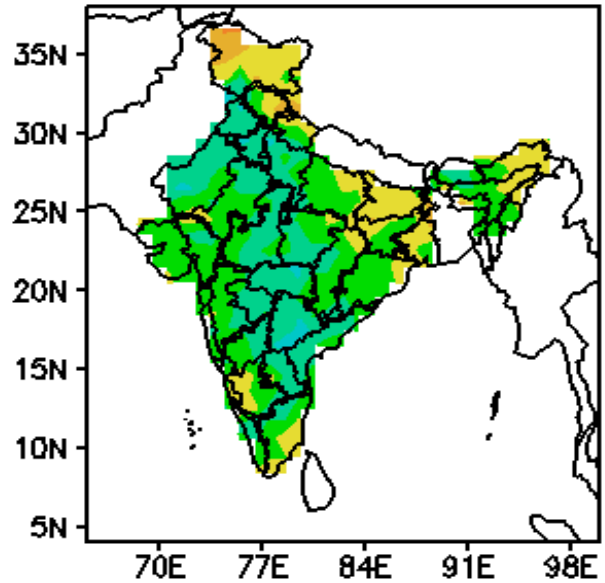
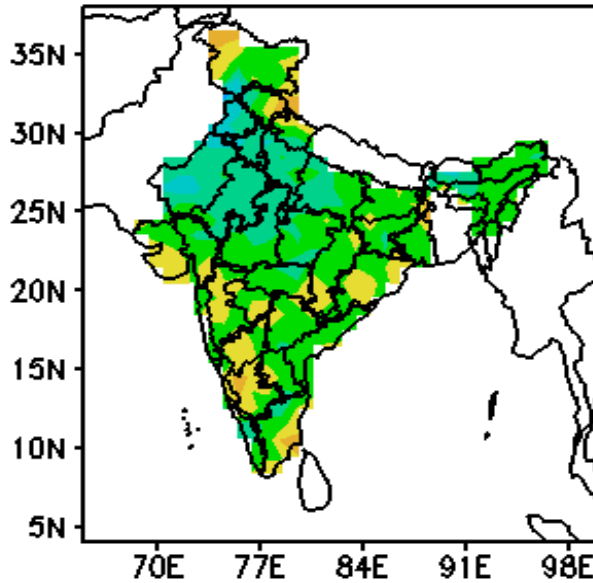
- **Week 1 (29.06.2018 to 05.07.2018) and Week 2 (06.07.2018 to 12.07.2018):** Over Northwest India, northern India, and central parts of India monsoon will be active during week 2.

Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast for next 2 weeks (IC – 27 June)
(29th June to 12th July 2018)

MME Bias Corrected Tmax Anomaly (Deg)

(Week1: 29Jun–05Jul)

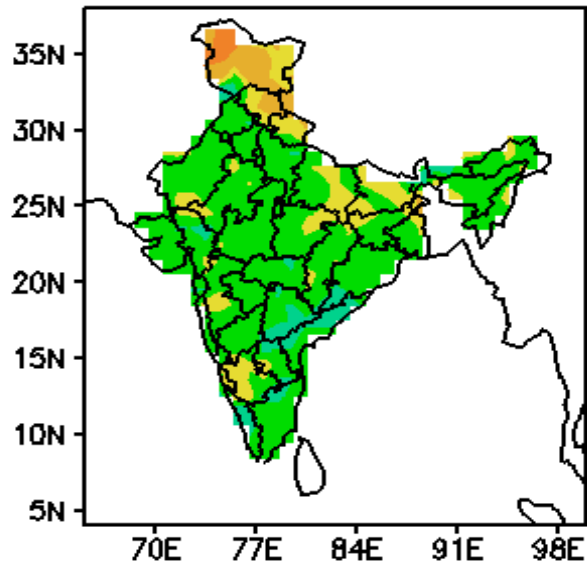
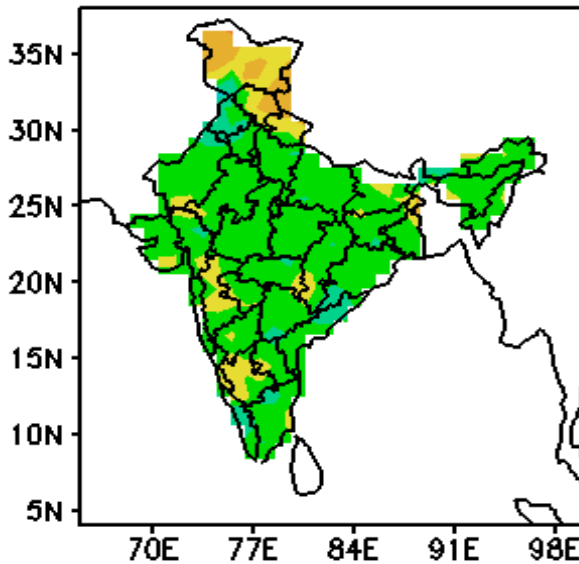
(Week2: 06Jul–12Jul)



MME Bias Corrected Tmin Anomaly (Deg)

(Week1: 29Jun–05Jul)

(Week2: 06Jul–12Jul)



Tmax (Maximum Temperature)

- **Week 1 (29.06.2018 to 05.07.2018) and Week 2 (06.07.2018 to 12.07.2018):** Tmax is likely to be below normal over most of India, central and northern parts of India.

Tmin (Minimum Temperature)

- **Week 1 (29.06.2018 to 05.07.2018) and week 2 (06.07.2018 to 12.07.2018):** Tmin is likely to be below normal over most of India, central and northern parts of India.

Strategic Agricultural Planning based on rainfall during next two weeks till 12th July 2018

Agromet Advisories

Tamil Nadu

Rainfall received during the period of 01 - 27 June 2018 over Tamil Nadu is 46.6 mm, which is 9% excess as compared to the normal. The extended range weather forecast provided for next two weeks (29 June to 5 July and 06 to 12 July) are normal for both the weeks.

- Prevailing weather condition is congenial for sucking pest and fruit borer incidence in chilli. The affected plants show symptoms of crinkling and upward curling of leaves and elongation of petiole. For controlling this pest spray Imidacloprid 17.8 % SL @ 3 ml/ 10 litres of water or Dimethoate 30 % EC @1.0 ml/litre.
- Spray Indoxacarb 15.8 % SC 333 ml/ha to control pod borer incidence in Pulses.

Kerala

Rainfall received during the period of 01- 27 June 2018 over Kerala is 676.1 mm, which is 19% excess than normal. The extended range weather forecast provided for next two weeks (29 June to 5 July and 06 to 12 July) are below normal for both the weeks.

- **Coconut** : Farmers are advised to apply Imidacloprid (neonicotinoid) 1 ml/1 litre at spindle leaf area to control red palm weevil.
- **Banana** : Proper drainage should be ensured. As a precaution, apply lime in the banana basin or bleaching powder in the irrigation channels. To improve the disease resistance, drench the basin with Pseudomonas @ 20g per litre of water.
- **Pepper** : Applu 10 kg manure/plant in basins 10-15 cm deep and 30-40 cm radius Prophylactic spraying of BM 1% or Copper oxy chloride 0.3 % for main field diseases like quick wilt or slow wilt.
- **Cardamom** : Farmers are advised to take necessary phytosanitary measures to manage capsule rot (Azhukal disease). Application of trichoderma can control the azhukal and rhizome rot to some extent.

Karnataka

Rainfall received during the period of 01 - 27 June 2018 over different meteorological sub-divisions of Karnataka viz, North Interior Karnataka is 104.7 mm (14 % excess), South Interior Karnataka is 164.7 mm (36% excess) and Coastal Karnataka is 875.0 mm (17% excess). The extended range weather forecast provided from 29 June to 5 July and 06 to 12 July over North Interior Karnataka is normal for week-1 and above normal for week-2, over South Interior Karnataka is above normal for week-1 and normal for week-2 and coastal Karnataka is normal for both the weeks.

North Interior Karnataka

- Vaccinate livestock against Foot and Mouth disease (FMD vaccination), Black Quarter disease (BC

vaccination) and *Haemorrhagic septicaemia*.

- Care should be taken that excess moisture is not there in the vermi compost pits.

South Interior Karnataka

- Where ever sufficient rainfall received, farmers are advised to go for sowing of kharif crops.
- Due to high humidity (warm and humid weather), chances of occurring pest and diseases is more in early sown crop. Prophylactic measures are suggested.
- As prevailing wind speed is high, farmers are advised to provide staking support to Banana and vegetable crop to protect from uprooting of crops.
- Before sowing of crops, farmers are advised to strengthen the bund which will facilitate conservation of rainwater of monsoon showers.

Maharashtra

Rainfall received during 01- 27 June 2018 over different meteorological sub divisions of the state viz., Konkan: 890.8 mm (52% excess), Madhya Maharashtra: 147.4 mm (19% excess), Vidarbha: 147.3 mm (4% excess) and Marathwada: 181.2 mm (43 % excess). The extended range weather forecast provided for next two weeks (29 June to 5 July and 06 to 12 July) over Vidarbha and Madhya Maharashtra is normal for week-1 and above normal for week-2, over Konkan is above normal for both the weeks and over Marathwada is below normal for week-1 and above normal for week-2.

Marathwada

- **Kharif sorghum** : Treat the seeds with Azatobactor and PSB @ 250 gm per 10 kg seeds before sowing. Late sown kharif sorghum seed should be treated with Thiamethoxam (70 %) @ 3 gm per kg of seed.
- **Cotton** : Before sowing of cotton, seed should be treated with Carbendazim @ 1.5 g/ kg or Thiram @ 3 g/kg or Pseudomons @ 3g/kg seed. It also be treated with Phosphorus solubilizing bacteria (PSB) @ 25 g per kg seed after chemical treatment.
- **Groundnut** : Treat the selected kernels of groundnut with @ 3g Carbendazim/ kg kernels so as to check various seed and soil borne diseases. Seed should be inoculated with proper strain of Rhizobium and PSB culture @ 250g per 10 kg seed.
- **Banana** : Planting of new banana plants can be done during second week. Apply 50:160:50g NPK per plant. Spraying of pesticides are advised in banana orchard during second week.

Madhya Maharashtra

- Sowing of short duration pulses or cereals like cowpea, green gram, black gram, moth bean, urd bean or bajra are advised if sufficient soil moisture is available.
- At the time of sowing of *kharif* crops, apply granular phorate mixed with fertilizers @ 10-12 kg /ha to avoid the incidence of pests (white grub, nematodes, termites etc)

Konkan

- Remove excess water from field and maintain optimum water level in the rice field.
- Farmers are advised to apply 20 kg FYM/Compost along with 2 kg urea, 1.5 kg single super phosphate and 500 g muriate of potash for above 3 year old cashew graft.

Vidarbha

- In areas (parts of Buldhana and Wardha districts) with insufficient pre-sowing rains, *kharif* crops should be sown upon receipt of sufficient rains when there is soil moisture for assured germination.
- Pigeon pea can be sown at spacing of 60x30 cm and seed rate of 12 to 15 kg/ha. Recommended varieties are PKV Tara, ICPL-87119 and C-11. Seed treatment/inoculation is advisable at the time of sowing, use Rhizobium @ 25 gm/kg, PSB @ 25 g/kg and bio-fungicide Trichoderma @ 4g /kg of seed.

Chhattisgarh

124.8mm of rainfall received over Chhattisgarh during 01- 27 June 2018 which is 19% deficit as compared to normal . The extended range weather forecast provided for next two weeks (29 June to 5 July and 06 to 12 July) are above normal for both the weeks.

- Rice seeds should be dipped in 17% salt solution for selection of bold seeds and the selected seeds should be rinsed with water. It should followed by Saaf Super / Carbendazim should be used for seed treatment @ 2g/kg of bold seed.
- For Soybean cultivation, deep soils like Dorsa and Kanhar is more suitable. Sowing should always be done in lines. Before sowing of the Soybean crop, Carbendazim or Carboxyl should be applied @ 2g/kg of seed.

West Bengal

183.3 mm of rainfall received over Gangetic West Bengal during 01- 27 June 2018 which is 12% deficit as compared to normal . The extended range weather forecast provided for next two weeks (29 June to 5 July and 06 to 12 July) are normal for both the weeks.

- **Pointed and Bottle gourd:** Avoid direct contact of fruits with soil to avoid fruit rot and spray Ridomyl-MZ @2.5g/litre of water to control it.
- **Jute:** In the present weather condition, attack of root and stem rot may occur. To control the diseases, apply 0.1 % Carbendazim or 0.25 % Mancozeb.

- **Aman Rice** : As there is forecast of light to heavy rainfall, farmers are advised to complete the sowing operation and apply fertilizers as per the guidelines recommended in the last week.

Bihar

91.7 mm of rainfall received over Bihar during 01- 27 June 2018 which is 33% deficit as compared to normal . The extended range weather forecast provided for next two weeks (29 June to 5 July and 06 to 12 July) are normal for week-1 and week-2.

- Weather conditions are favourable for sowing of direct seeded early and medium duration rice varieties. Farmers can go for direct seeding of rice in the fields.
- In view of widespread rainfall activity in north Bihar districts during next two weeks, farmers are advised to take precaution in harvesting /threshing of summer maize.
- As normal rainfall is forecasted during next two weeks, sowing of sesamum is advised in the upland areas. Application of 60 quintal compost, 20 kg Nitrogen, 20 kg Phosphorus and 20 kg Potash per hectare is advised during land preparation.

Odisha

130.1 mm of rainfall received over Odisha during 01- 27 June 2018 which is 30% deficit as compared to normal . The extended range weather forecast provided for next two weeks (29 June to 5 July and 06 to 12 July) are normal for week-1 and above normal for week-2.

- **Rice** : In nursery, apply Fipronil @ 0.3G (7-8 kg/ha) to control stem borer in main field.
- **Jute** : Continuous and heavy rainfall may cause root rot, stem rot & anthracnose in Jute. To control root rot, farmers are advised to spray Validamycin @ 0.2% or Propiconazole/Hexaconazole @ 0.1% and to control Stem rot, Validamycin @ 0.2% or Carbendazim + Mancozeb @ 0.2% spray at basal portion.

Gujarat

Amount of rainfall received over Gujarat region is 70.9 mm (34% deficit) and Saurashtra and Kutch is 5.2mm (93% deficit) during 01 - 27 June 2018. The extended range weather forecast provided for two weeks (22 - 28 June and 29 June to 05 July) for Gujarat region and Saurashtra and Kutch is above normal for week-1 and for week-2.

- Timely sown groundnut and cotton crop is advised after adequate rainfall receipt. Seed treatment with Thiram or Captan is recommended for Groundnut before sowing.
- To control whitefly in vegetables, farmers are advised to spray neem seed extract 500 ml or neem oil 40 ml and Acetamidrid 20% SP@5 g/10 litres of water at 15 days interval.

- Nursery preparation is advised for tomato, chilli, brinjal and early cauliflower under shade nets. Transplanting of brinjal, chilli and early cauliflower is advised for farmers having nursery seedlings.

Rajasthan

Amount of rainfall received over West Rajasthan is 23.7 mm (5% deficit) and East Rajasthan is 51.4 mm (9% excess) during 01 - 27 June 2018. The extended range weather forecast provided for two weeks (29 June to 5 July and 06 to 12 July) for West Rajasthan is above normal for both the weeks and East Rajasthan is normal for week-1 and above normal for week-2.

- Keeping in view of rain in coming days farmers are advised to start sowing of maize and soybean. Recommended varieties for maize are Aravali Makka-1, Pratap Makka-3, Pratap Makka-5, Pratap Hybrid-1, Bio-9637 and for soybean : PK-472, JS-335, Pratap Soya-1, Pratap Soya-2, Pratap Raj Soya-24.
- Treat the cluster bean seed with fungicide and rhizobium culture. Seed treatment in maize, soybean and sorghum should also be done before sowing.
- Farmers are advised to make provision for storing rain water at one portion in the field in the form of pond. This water can be used for irrigation in the crops during dry spell.

Assam

Rainfall Situation

Rainfall received during 01 - 27 June 2018 over Assam is 328.3 mm, which is 28% deficit. The extended range weather forecast provided for next two weeks (29 June to 5 July and 06 to 12 July) over Assam is normal for week-1 and week-2.

- **Sali Rice** : Farmers are suggested to continue summer ploughing operation in rice fields. Apply recommended dose of FYM or compost during land preparation. Attack of pests like green leaf hopper, thrips and disease like brown spot, blast is expected in nursery bed of rice. To control, farmers are advised to apply any systemic insecticide like Chlorpyrifos, Quinalphos etc under clear sky condition.
- Farmers may initiate land preparation for sesamum cultivation. Well drained sandy loam soils are best suited for the crop. Select recommended varieties such as SP 1181(Madhavi), Gauri, Vinayak, ST 1683.
- As water has already started to accumulate in the ponds, stocking with fingerlings or carried over seeds of 15 cm size @ 5000 per hectare of water surface area may be advocated.

Uttarakhand

Rainfall received during 01 - 27 June 2018 over Uttarakhand is 118.4 mm, which is 15% deficit. The extended range weather forecast provided for next two weeks (29 June to 5 July and 06 to 12 July) over Uttarakhand is

above normal for week-1 and normal for week-2.

- Harvest the mature fruits of Tomato, Capsicum, Brinjal and Chilli. Remove the weeds by hand instead of spade. Maintain drainage channels to avoid water logging.
- Potato : Cover the rows by organic mulch to prevent soil erosion by rain water and arrange drainage channels from the edges of the farm.

Jammu

Rainfall received during 01 - 27 June 2018 over Jammu is 51.9 mm, which is 6% deficit. The extended range weather forecast provided for next two weeks (29 June to 5 July and 06 to 12 July) over Jammu is normal for week-1 and above normal for week-2.

- Paddy : Due to the chances of rainfall within next 2 to 3 days farmers can go for normal transplanting of rice seedling. Transplant 2-3 healthy seedlings per hill.
- Sowing of *kharif* pulses may be taken after the receipt of rain.

Disclaimer: *The predictability of weather depends on many factors which are dynamic in nature. The success of agromet advisories provided here depends on the accuracy of the forecasts. In no event will India Meteorological Department (IMD) and Indian Council of Agricultural Research (ICAR) be liable to the user or to any third party for any direct, indirect, incidental, consequential, special or exemplary damages or lost profit resulting from any use or misuse of the information on this bulletin.*