



राष्ट्रीय कृषि मौसम परामर्शी सेवाएं बुलेटिन
National Agromet Advisory Services Bulletin

जारी करने की तिथि/ **Date of issue: 22 October 2024**

आधारित/**based on**

विस्तारित अवधि मौसम पूर्वानुमान/**Extended Range Weather Forecast (ERFS)**

वैधता/**Validity: 18 October – 31 October 2024**

जारीकर्ता/**Issued by**

अखिल भारतीय समन्वित कृषि-मौसम विज्ञान अनुसंधान परियोजना

AICRP on Agro-Meteorology (AICRPAM)

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और

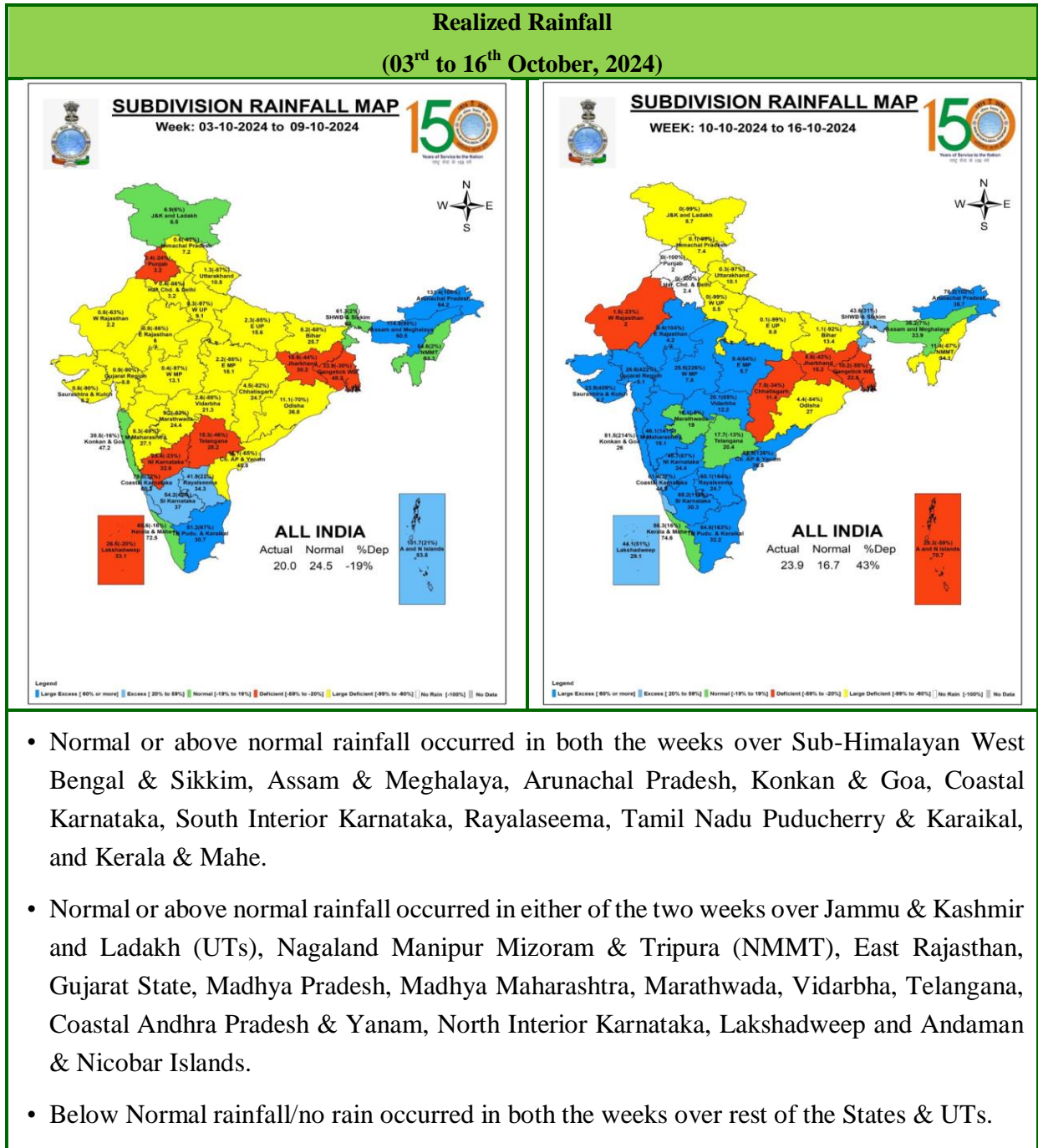
भारतीय मौसम विज्ञान विभाग

India Meteorological Department (IMD)

पृथ्वी प्रणाली विज्ञान संगठन

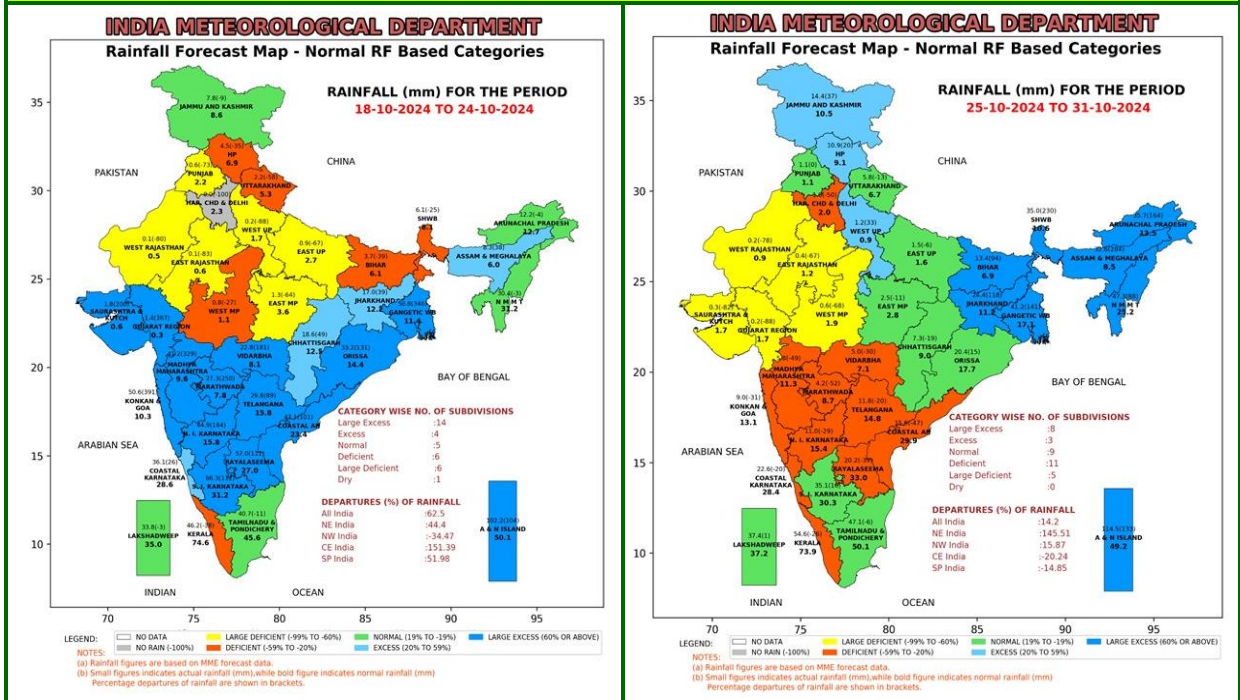
Earth System Science Organization

वास्तविक वर्षा तथा विस्तारित अवधि पूर्वानुमान
Realized Rainfall and Extended Range Forecast
 (वर्षा और तापमान)
(Rainfall and Temperature)



Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC- 16th October, 2024) (18th to 31st October, 2024)



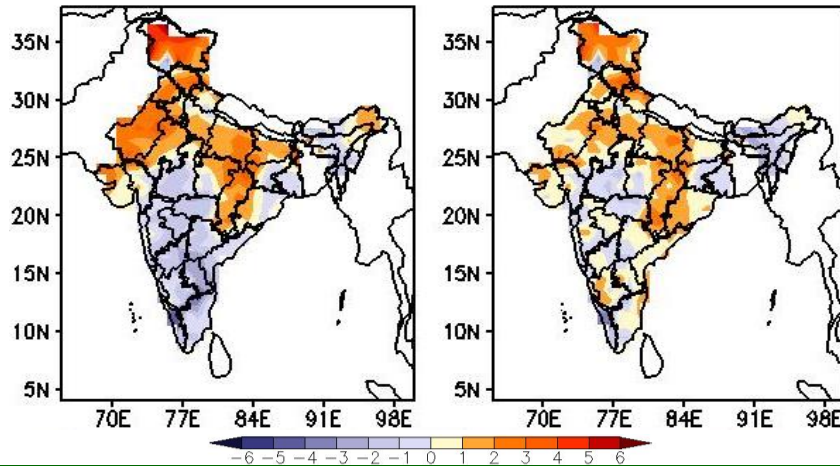
- **Week 1 (18.10.2024 to 24.10.2024):** Rainfall is likely to be above normal over Maharashtra, Karnataka, Rayalaseema, Coastal Andhra Pradesh and Gangetic West Bengal.
- **Week 2 (25.10.2024 to 31.10.2024):** Rainfall is likely to be above normal over Northeast India. However, it is likely to be normal to slightly below normal over Southern Peninsula.

**Maximum and Minimum temperature anomaly ($^{\circ}$ C) forecast
for the next 2 weeks (IC- 16th October, 2024)
(18th to 31st October, 2024)**

MME forecast Tmax anomaly (Deg C)

(Week1: 18Oct–24Oct)

(Week2: 25Oct–31Oct)



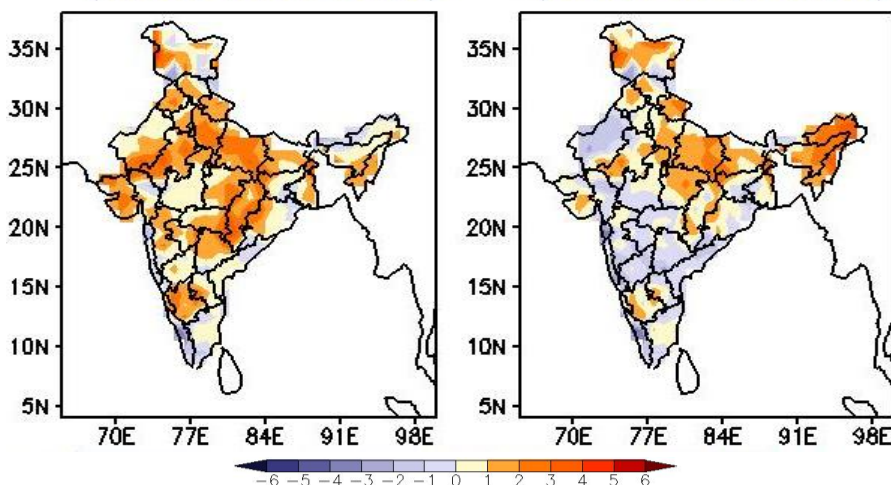
Maximum Temperature (Tmax)

- **Week 1 (18.10.2024 to 24.10.2024):** Maximum temperature is likely to be above normal over Northwest India, Bihar and Chhattisgarh. It is likely to be below normal over Central and South India.
- **Week 2 (25.10.2024 to 31.10.2024):** Maximum temperature is likely to be above normal over most parts of the Country. It is likely to be below normal over North East India and some parts of Central India.

MME forecast Tmin anomaly (Deg C)

(Week1: 18Oct–24Oct)

(Week2: 25Oct–31Oct)



Minimum Temperature (Tmin)

- **Week 1 (18.10.2024 to 24.10.2024):** Minimum temperature is likely to be above normal over most parts of the Country.
- **Week 2 (25.10.2024 to 31.10.2024):** Minimum temperature is likely to be above normal over many parts of North West India, North East India and Karnataka. It likely to be below normal over many parts of Central India and West Rajasthan.

Strategic Agricultural Planning based on rainfall till 31 October 2024

Agromet Advisories

Kerala

174.2 mm (-16% deficit) rainfall was received over Kerala from 01 October to 20 October 2024. The extended range weather forecast (rainfall) for the next two weeks (18 October - 24 October 2024 and 25 October - 31 October 2024) is deficit rainfall for week 1 and week 2.

- As a prophylactic measure, seedlings' root can be soaked for 30 minutes in a solution of pseudomonas culture to control sheath blight, sheath rot, leaf spot disease etc. Spray 20-gram pseudomonas in one litre of water before transplanting.
- During high humidity, pepper plants are at risk of poll disease. Control the shade in the garden and spray with a 1% Bordeaux mixture.
- During the rainy season, there is a chance of Anthracnose disease in Cowpea. As a prophylactic measure, apply 1% Bordeaux mixture or spray pseudomonas 20 gm per litre.

Tamil Nadu

156.7 mm (65% Large excess) rainfall was received over Tamil Nadu from 01 October to 20 October 2024. The extended range weather forecast (rainfall) for the next two weeks (18 October - 24 October 2024 and 25 October - 31 October 2024) is a normal rainfall for week 1 and week 2.

- Due to the normal rainfall forecast during this week farmers are advised to postpone the irrigation of paddy crop (vegetative to the milking stage), and provide drainage facilities.
- In Irrigated crops (water management stage), farmers are advised that rainfall is predicted for the next five days and requested to postpone the irrigation.
- Sowing may be carried out based on local weather and soil moisture conditions for sorghum and pulses. Sowing should be done with proper drainage facilities to prevent water stagnation, which can affect seed germination. Rainfall is expected in the next few days; therefore, farmers are advised to sow as early as possible, using TNAU products (VithaiAmirtham) to ensure proper crop germination.
- Since rainfall with wind speed >10 kmph is expected, provide propping to early season sugarcane and banana. Earthing up should be practised to avoid lodging in banana.
- In Groundnut, by utilizing expected rainfall gap filling may be done to maintain optimum population.
- Continued rainfall in some pockets leads to the yellowing of leaves in tapioca, due to micronutrient deficiency. Hence farmers are requested to spray 1% ferrous sulphate + 0.5% zinc sulphate during rainless periods.
- Fix a polythene rain guard to the trunk of the rubber tree above the tapping panel so that tapping can be done during the rainy season.

Karnataka

170.9 mm (78% Large excess) rainfall over South Interior Karnataka; 184.5 mm (29% excess) rainfall over Coastal Karnataka and 107.1 mm (31% excess) rainfall over North Interior Karnataka was received from 01 October to 20 October 2024. The extended range weather forecast (rainfall) provided for the next two weeks (18 October - 24 October 2024 and 25 October - 31 October 2024)

is large excess rainfall over North Interior Karnataka and South Interior Karnataka, excess rainfall over Coastal Karnataka for week 1 and; normal rainfall over South Interior Karnataka, deficit rainfall over North Interior Karnataka and Coastal Karnataka during week 2.

South Interior Karnataka

- In Finger millet (Tillering, ear head emergence), farmers are advised to drain out the excess rainwater in the crop field and tie the ear head to prevent falling down.
- Farmers are advised to drain out the excess rainwater in the crop field in groundnut (seed filling stage) and also postpone spraying for Pulses (flowering stage)

North Interior Karnataka

- Since good rainfall has been received during the previous week and there is a chance of moderate rainfall during this week, therefore it is advised to provide proper drainage for excess water.
- To manage leaf reddening in cotton, take up spraying of Magnesium Sulphate and 19:19:19 @ 10 gram per litre of water. To manage sucking pest 0.3 gm Flonicamid 50% WG or 0.3 gm Dinotefuron 20% SG per litre of water.
- To manage leaf minor in groundnut, spraying Quinalphos 25 EC @ 2 ml or Dimethoate 30 EC @ 2 ml/lit.
- To control citrus canker disease cut the affected parts then spray 3gm copper oxychloride 50 W.P and 0.5 g streptomycin sulphate or 1% Bordeaux mixture in one litre of water.
- Due to high cloudy conditions and rainfall, there is a chance of the occurrence of Anthracnose disease. To manage Anthracnose disease, spraying of Thiophanate methyl @ 1 gram/litre of water.

Andhra Pradesh

166.7 mm (89% large excess) rainfall was received over Rayalaseema, and 141.7 mm (17% normal) was received over Coastal Andhra from 01 October to 20 October 2024. The extended range weather forecast (rainfall) provided for the next two weeks (18 October - 24 October 2024 and 25 October - 31 October 2024) is large excess rainfall over Rayalaseema and Coastal Andhra Pradesh for week 1 and; a deficit over Rayalaseema and Coastal Andhra Pradesh for week 2.

- In the Rayalaseema region, harvesting should be done on rain free days and Pods which are to be used for sowing purposes should be dried under sun until the moisture content is 9%. Harvested produce should be stored in gunny bags.
- In south coastal Andhra Pradesh, drain out excess water from cotton, pulses, rice fields and maize and postpone sowing of Rabi pulses. Immediately harvest matured rice in Nellore district and shift the harvested produce at safer places. In north Coastal Andhra Pradesh, postpone harvesting of groundnut and maize.
- Red gram crop is at the flowering stage. Current weather conditions are congenial for maruka pod borer and Helicoverpa incidence in redgram. Farmers are advised to spray neem oil @ 5 ml per litre of water initially and based on incidence to spray profenophos

@2.0 ml or emamecton benzoate @0.5g or chlorpyrifos @ 2.5 ml per litre of water. Suggested to take up spraying operations based on local weather conditions.

- In Andhra Pradesh, present weather conditions are congenial for the incidence of leaf folder and stem borer in rice. To control, spray chlorpyrifos @ 2.5 ml/L or chlorantriliprole @ 0.4ml/L or cartap hydro chloride @ 2.0g / L of water.

Odisha

27.2 mm (-69% large deficit) rainfall was received over Odisha from 01 October to 20 October 2024. The extended range weather forecast (rainfall) provided for the next two weeks (18 October - 24 October 2024 and 25 October - 31 October 2024) is large excess rainfall over Odisha for week 1 and; normal rainfall for week 2.

- In pulse (harvest), farmers are advised to harvest matured crops and keep them in safe place.
- Vegetable seedlings should be transplanted in the afternoon hours. Now the condition is optimum for land preparation and nursery sowing of cauliflower, cabbage, knolkhol, Carrot and radish.
- Present dry weather may favour Pyrrilla and Mealy Bug infestation in sugarcane crop. To control this pest, spray Imidacloprid 17.8 % SL @ 60-ml/acre or Thiamethoxam 25 % WG @ 40-gram/acre or Profenophos 50 % EC @ 400-ml/acre by mixing it in 200 litres of water.

Maharashtra

87.6 mm (40% excess) rainfall over Madhya Maharashtra, 64.6 mm (9% normal) Marathwada, 171.7 mm (75% large excess) Konkan, and 40.1 mm (-14% normal) rainfall over Vidarbha was recorded from 01 October to 20 October 2024. The extended range weather forecast (rainfall) for the next two weeks (18 October - 24 October 2024 and 25 October - 31 October 2024) is large excess rainfall over Konkan, Marathwada, Madhya Maharashtra and Vidarbha for week 1; and normal rainfall over Konkan and deficit rainfall over Madhya Maharashtra, Marathwada and Vidarbha for week 2, respectively.

Parbhani

- Harvested soybean crop must be threshed after sun drying if the produce is for seed, farmers are advised to thresh the soybean having 13-14 % moisture. The grains should be sun-dried for 3-4 days.
- After harvesting of kharif crops, chickpea should be sown as early as possible, as per availability of water. It should be done up to the first week of November. Sowing of irrigated chickpea should be done up to 10th November, at 45x10 cm spacing. Apply 25:50:30 Kg NPK per hectare at the time of sowing. Seed treatment of 2.5 g Carbendazim or 10 g Trichoderma per Kg seed and 10 g Trichoderma or 3 g Thiram per kg seed.

Vidarbha

- Undertake clean picking of burst bolls in earlier sown cotton and properly dry the produce before storage, variety wise. Foliar spray of 2% DAP at boll development stage is advisable

for better productivity. Keep close watch on male moths of pink bollworm in pheromone traps in cotton fields.

- Undertake remaining harvest of matured soybean crop judging clear weather and ensure safe storage of harvested produce to protect from quality deterioration due to rains.
- Irrigated chickpeas (Jaki 9218, PDKV Kanchan, Vijay, Vishal, ICCV-2, and ICCV-10) can normally be sown by October end or latest by 10 November. Wilt-resistant varieties include JAKI 9218, Vishal, ICCV-2, ICCV-10 etc. Maintain a sowing depth of 5 cm under irrigated conditions.

Madhya Maharashtra

- Late flowering in pigeonpea is observed in many areas due to continuous rains. For better pod formation and higher seed yield, foliar application of WSF grade 19:19:19 @ 10 g per litre of water is advised.
- Select the sorghum varieties as per the depth of soil and the time of sowing. The sowing must be done at 45 x 15 cm apart with the help of two bowl seed drills. The full dose of RDF must be given at the time of sowing. The seed treatment with bio inoculants prior to sowing is recommended.
- In chickpea. Sowing must be done at field capacity. The sowing must be done at 45 x 20 cm apart with the help of two bowl seed drills. RDF must be given at the time of sowing i.e. 25:50:00 kg NPK ha⁻¹. Seed treatment of Rhizobium, PSB and Trichoderma before sowing is recommended.

Konkan

- Water stress in the root zone favours the induction of flowering, hence clean the mango orchard as soon as possible to facilitate the evaporation of water from the mango orchard at a faster rate.
- Due to the rainfall, there is a possibility that the ripened rice crop may lodge, and if the lodged rice is exposed to rain, the grains may sprout. Therefore, if the ripened rice crop in the field has lodged due to rain, the panicles should be collected manually, following traditional methods, brought to a safe place, threshed, and spread out in a secure location for drying.
- In turmeric (Rhizome development), due to rainfall, if rhizomes are exposed, follow earthing up in the turmeric field.

Gujarat

38.5 mm (102% large excess) rainfall was received over Gujarat from 01 October to 20 October 2024. The extended range weather forecast (rainfall) provided for the next two weeks (18 October - 24 October 2024 and 25 October - 31 October 2024) over Gujarat is a large excess for week 1 and large deficit for week 2.

- Complete the harvesting of kharif pearl millet crop at maturity stage in clear and dry weather conditions, keep for sun drying at optimum moisture level in grains and thereafter complete the threshing operation.
- Under current weather conditions, rouging of viral infected plants should be done in chilli. Infected plants should be uprooted and buried in the soil. After rouging, spraying Imidacloprid 17.80 % SL @ 3 ml per 10 litre of water is advised to control the vector

- Spray Neem seed extract 500 ml or Neem seed oil 50 ml in 10 litres of water at 15 day intervals (4 spray) to control shoot and fruit borer of okra. If the pest population is high, spray Broflanilide 20% SC or Chlorantraniliprole 35 % WG @ 1 ml /10 litres of water is advised when the sky remains clear. After harvesting mature okra, application of urea @ 20 kg/ acre should be done.

Chhattisgarh

18.8 mm (-61% large deficit) rainfall was received over Chhattisgarh from 01 October to 20 October 2024. The extended range weather forecast (rainfall) provided for the next two weeks (18 October - 24 October 2024 and 25 October - 31 October 2024) over Chhattisgarh is excess rainfall for week 1 and normal rainfall for week 2.

- Farmers are advised to go for the third dose of top dressing with urea (40 kg/ha.) after control of insects and disease at 60-75 days (Primary panicle initiation stage for early and medium duration rice crop).
- Farmers are advised to go for 25% potash top dressing to increase rice grain quantity and quality.
- This is the right time for taking of utera (relay) crop. Those farmers who are interested can sow lathyrus or linseed crops at this time.
- About 50% of the total water requirement is utilised in reproductive to milking stage. Due to a shortage of water, crop production is severely affected.
- In Groundnut, it is advised to Digging out of matured pods of groundnut crop from the field. At the Pod maturity stage.

Madhya Pradesh

16.4 mm (-48% deficit) rainfall was received over East Madhya Pradesh from 01 October to 20 October 2024. The extended range weather forecast (rainfall) provided for the next two weeks (18 October - 24 October 2024 and 25 October - 31 October 2024) over Madhya Pradesh is large deficit rainfall for week 1 and normal for week 2.

- Farmers are advised to collect input like seeds of rabi crops like wheat, mustard, gram, and lentil. The crop is ready for sowing once the day temperature comes around 28 °C.
- Due to hot and humid climatic conditions, certain varieties are sensitive to diseases like blight, and also to sucking pests and stem borers. Apply pesticide application. Consult nearby KVK scientists for its control.
- Chickpea should be sown in a rough seed bed. Seeds should be treated with fungicide. After seed treatment, seeds should also be inoculated with Rhizobium bacteria before sowing in the field.

Assam

173.8 mm (40% excess) rainfall received over Assam from 01 October to 20 October 2024. The extended range weather forecast (rainfall) provided for the next two weeks (18 October - 24 October 2024 and 25 October - 31 October 2024) over Assam is excess for week 1 and large excess week 2.

- It is advised to start preparing lands in fair weather and apply lime 65 kg/bigha at least 21 days before sowing of seeds. Apply FYM 300-400 kg/bigha during the first ploughing of the land.
- Well-drained sandy loam rich in organic matter with pH 5.0-7.0 land should be selected for tomato and sowing may be done in October to November. The land should be prepared to a fine tilth and FYM to be applied at least 15 days ahead of transplanting. The recommended varieties of tomato are; Punjab Chhuhara, S-12, Punjab Kesri, Pusa Early Dwarf, Sioux, Pusa Ruby, Arka Abha (BWR-1), Arka Alok (BWR-5) and BT-1.
- For coriander, the field should be thoroughly ploughed and harrowed to obtain a fine seeding bed and FYM to be applied. Suitable for cultivation under rainfed conditions are UP 41,

West Bengal

79.1 mm (-23% deficit) rainfall was received over Gangetic West Bengal and rainfall received over Sub Himalayan West Bengal was 140.5 mm (14% normal) from 01 October to 20 October 2024. The extended range weather forecast (rainfall) for the next two weeks (18 October - 24 October 2024 and 25 October - 31 October 2024) is deficit rainfall over Gangetic West Bengal and large excess rainfall over Sub-Himalayan West Bengal during week 1 and large excess rainfall during week 2.

- High wind speed along with high-intensity rainfall may lead to lodging in matured rice. Harvesting of matured kharif rice is advised to harvest as early as possible.
- In brinjal (flowering and fruiting), farmers are advised that stagnation of water should be avoided. Upland planting is recommended.
- Application of Fosetyl a.i. 80% WP or Carbendazem 50% WP can be done on bright sunny days to prevent downy mildew in Cucurbitaceae plants.

Jharkhand

37.5 mm (-38% deficit) rainfall received over Jharkhand from 01 October to 20 October 2024. The extended range weather forecast (rainfall) provided for the next two weeks (18 October - 24 October 2024 and 25 October - 31 October 2024) over Jharkhand is an excess for week 1 and a large excess for week 2.

- In the areas where paddy crops is about to mature, water should be drained two weeks before harvesting. After harvesting crop should be dried in the field for 2-3 days and thereafter threshing should be done. Grains should be properly dried to right moisture level 12-14 % before storing. Godowns should be properly cleaned by removing all the grains and other storage matter of previous crop.
- Farmers who want to cultivate early Peas, should arrange for good quality seeds, fertilizers etc. Choose the recommended early pea variety, Arkel. For sowing in one acre, 40 kg seeds, 35 kg 85 urea, 200 kg SSP. And 25 kg of murate of potash is required.

Uttar Pradesh

0.3 mm (-99% large deficit) rainfall received over Western Uttar Pradesh and 2.9 mm (-91% large deficit) rainfall received over Eastern Uttar Pradesh from 01 October to 20 October 2024. The extended range weather forecast (rainfall) for the next two weeks (18 October - 24 October 2024 and 25 October - 31 October 2024) is large deficit over Eastern Uttar Pradesh and Western Uttar

Pradesh during week 1 and normal over Eastern Uttar Pradesh and excess over Western Uttar Pradesh week 2.

Western Uttar Pradesh

- Farmers are advised to do light irrigation at the milking and dough stage of late-planted paddy. Harvest mature paddy crop.
- In pigeon pea (vegetative/branching), farmers are advised to take up weeding as early as possible.
- Sowing should be done by recommended varieties of Gram Avarodhi, KWR-108, Radhey, JG-16, KGD-1168 and K-850 with 80kg/ha seed for unirrigated condition.

Eastern Uttar Pradesh

- Farmers are advised irrigation should be done at late planted paddy crop. Harvest the crop when 85% of the timely-sown paddy turn golden in colour. Taking advantage of last week's rainfall
- The current weather is favourable for carry out drying of matured crops of Maize. Under the sun followed by threshing.

Himachal Pradesh

0.7 mm (-97% large deficit) rainfall was received over Himachal Pradesh from 01 October to 20 October 2024. The extended range weather forecast (rainfall) provided for the next two weeks (18 October - 24 October 2024 and 25 October - 31 October 2024) over Himachal Pradesh is deficit for week 1 and normal for excess for week 2.

- Before Rabi crop sowing after cleaning fields add decomposed FYM or compost before sowing of crops as it improves the physical and biological properties of soil and thus increases the water retention capacity as well as nutrient status of the soil.
- Advised mustard sowing. Gobhi sarson, Linseed can be sown. Sowing of gram and lentil should be completed in lower areas. Advised early wheat sowing in lower regions. Early sown varieties of Wheat can be sown. The Seed should be cleaned and graded thoroughly before sowing. Shrivelled & small wheat grains and weed seeds should be removed.

Jammu

6.9 mm (-72% large deficit) rainfall was received over Jammu from 01 October to 20 October 2024. The extended range weather forecast (rainfall) provided for the next two weeks (18 October - 24 October 2024 and 25 October - 31 October 2024) over Jammu is normal for week 1 and excess rainfall for week 2.

- Farmers may go for sowing of Pea (var., AP-1, Bonnevillea, Rachna and Arkel); Chickpea (var., K-468, Gourav); Treat seed with fungicide (Captan or Thiram) @ 2.0 gm/ kg of seed as well as with crop-specific Rhizobium culture.
- Farmers may go for sowing of mustard (Pusa Bold, RSPR-01, RSPR-03, Kranti) during clear weather at vattar condition of soil. Treat the seed with captan or thiram @ 3g/kg seed before sowing for management of alternaria blight, white rust and downy mildew. Apply a whole quantity of phosphorus, potassium, sulphur and half of nitrogen at the time of sowing.

Rajasthan

9.9 mm (-26% deficit) rainfall was received over East Rajasthan from 01 October to 20 October 2024. The extended range weather forecast (rainfall) provided for the next two weeks (18 October - 24 October 2024 and 25 October - 31 October 2024) over East Rajasthan is a large deficit for week 1 and an excess for week 2.

- In maize (harvest), farmers are advised to harvest the maize crop at the physiological maturity stage and kept for sun drying.
- Complete the sowing of mustard. Mustard varieties are: RGN-73, Bio-902(PusaJaikisan), Aashirwad, RH-9304 (Vasundhara), RH-9802 (SwarnJyoti), RH-8812(Laxmi), DRMRIJ-31 (Giriraj). For protection against painted bugs seed should be treated with Imidachlorpid @ 5g/kg seed before sowing.

Haryana

0.4 mm (-95% large deficit) rainfall was received over Haryana from 01 October to 20 October 2024. The extended range weather forecast (rainfall) provided for the next two weeks (18 October - 24 October 2024 and 25 October - 31 October 2024) over Haryana is no rain for week 1 and deficit for week 2.

- Due to the forecast of no rainfall during this week, it is advised that picking operation of opened bolls should be started after the evaporation of the dew from the open cotton bolls. Store the harvested cotton in a dry place.
- Harvest the mature crop and dry it sufficiently before taking it to market and storage. Do not burn rice straw in the field as it destroys the soil nutrients creates air pollution and is also an offense.

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