



# **National Agromet Advisory Services Bulletin**

**Date of issue: 27 January 2023**

based on

**Extended Range Weather Forecast (ERFS)**

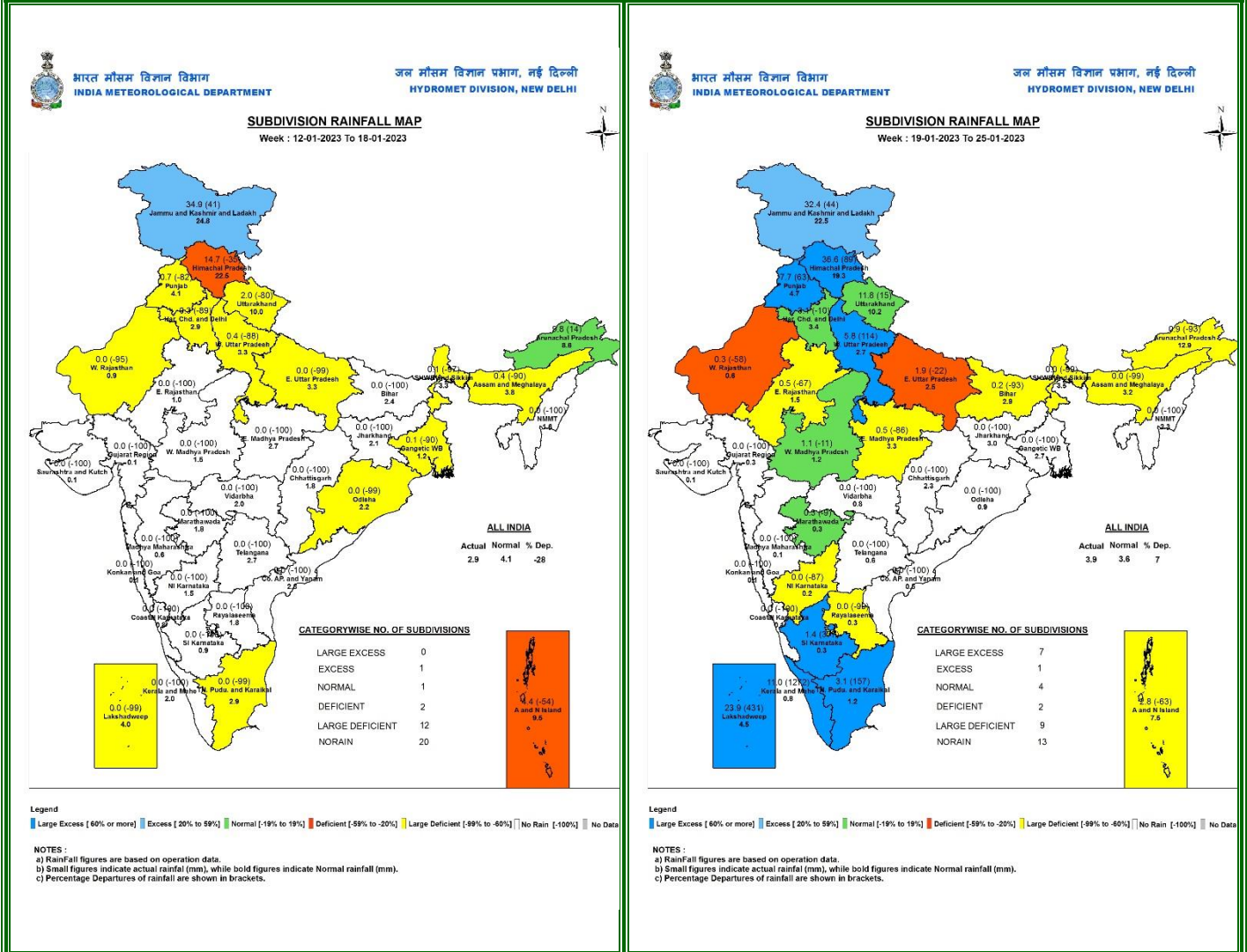
**Validity: 27 January - 09 February 2023**

Issued by

**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)

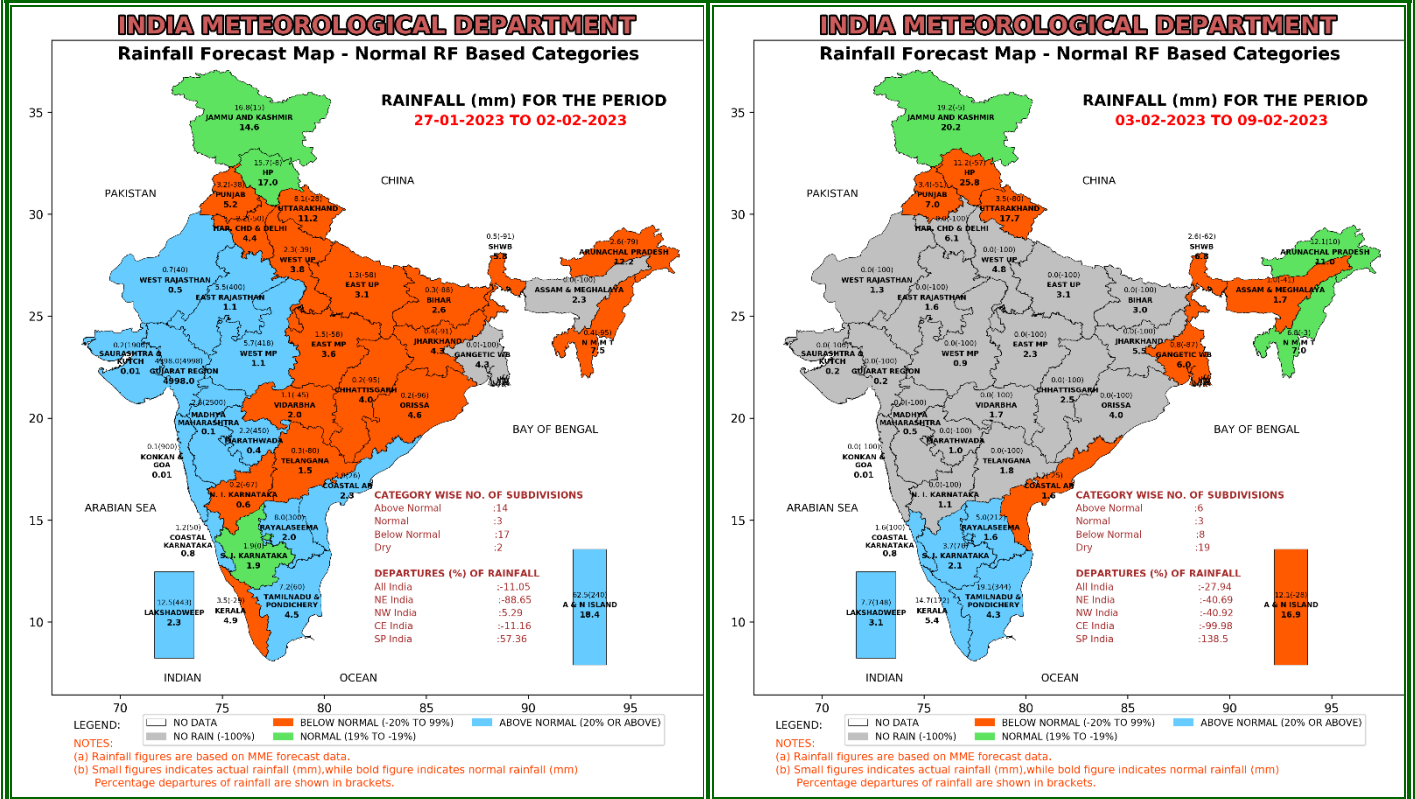
### Realized Rainfall (12<sup>th</sup> to 25<sup>th</sup> January 2023)



- Normal or above normal rainfall occurred in both the weeks in Jammu Kashmir & Ladakh (UTs)
- Normal or above normal rainfall occurred in either of the two weeks in Himachal Pradesh, Punjab, Haryana Chandigarh & Delhi, Uttarakhand, West Uttar Pradesh, West Madhya Pradesh, Marathwada, South Interior Karnataka, Kerala & Mahe, Lakshadweep, Tamil Nadu Puducherry & Karaikal and Arunachal Pradesh.
- Below Normal rainfall/no rain occurred in both the weeks over rest of the States & UTs.

## Extended Range Forecast System

### Rainfall forecast maps for the next 2 weeks (IC- 25<sup>th</sup> January) (27<sup>th</sup> January 2023 to 9<sup>th</sup> February 2023)



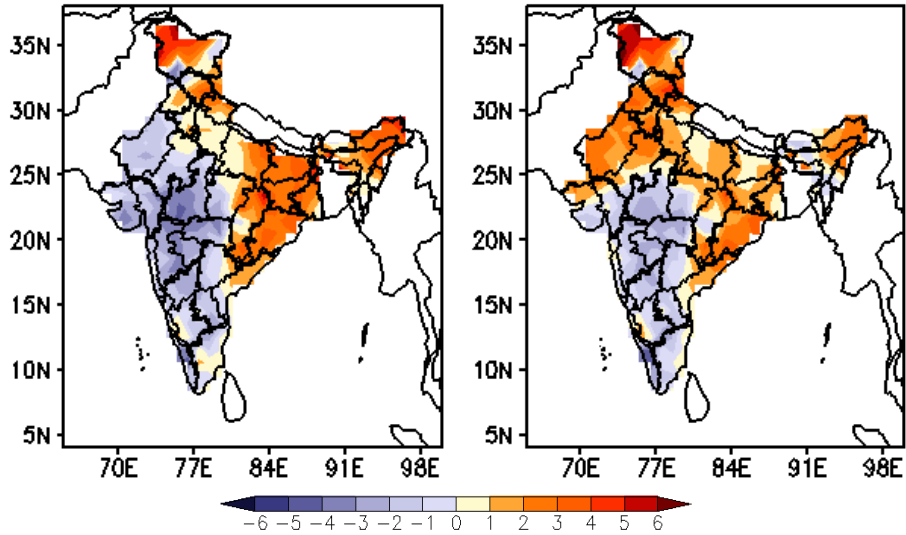
- Week 1 (27.01.2023 to 02.02.2023) and Week 2 (03.02.2023 to 09.02.2023):** Rainfall activity associated with Western Disturbance is likely over extreme north India. Rainfall associated with system over Bay of Bengal is likely over Coastal Andhra Pradesh, Tamil Nadu and adjoining regions.

**Maximum and Minimum temperature anomaly ( $^{\circ}\text{C}$ ) forecast  
for the next 2 weeks (IC- 25<sup>th</sup> January)  
(27<sup>th</sup> January 2023 to 9<sup>th</sup> February 2023)**

**MME forecast Tmax anomaly (Deg C)**

(Week1: 27Jan–02Feb)

(Week2: 03Feb–09Feb)



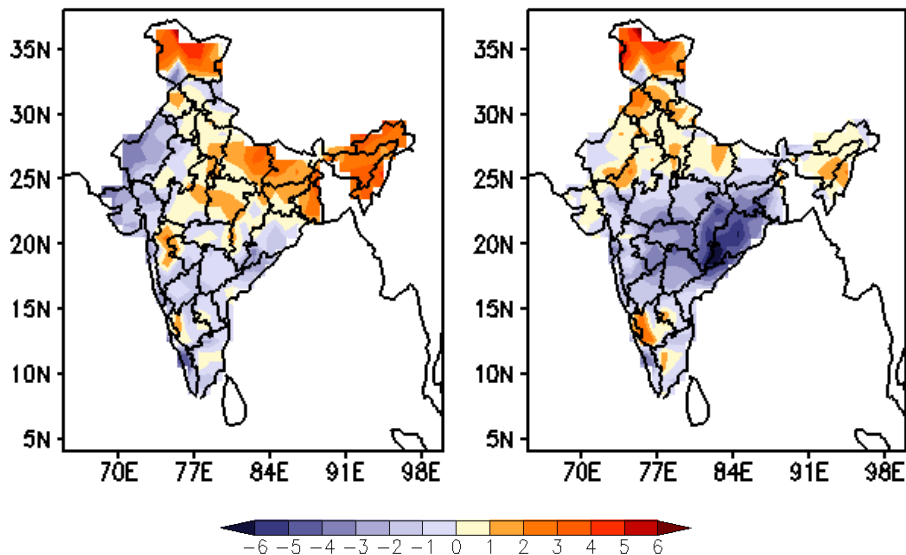
**Maximum Temperature (Tmax)**

- **Week 1 (27.01.2023 to 02.02.2023):** Tmax will be above normal over east India and adjoining regions.
- **Week 2 (03.02.2023 to 09.02.2023):** Tmax will be above normal over north, northwest and east India.

**MME forecast Tmin anomaly (Deg C)**

(Week1: 27Jan–02Feb)

(Week2: 03Feb–09Feb)



**Minimum Temperature (Tmin)**

- **Week 1 (27.01.2023 to 02.02.2023):** Tmin is likely to be below normal over northwest India and slightly above normal over Uttar Pradesh, Bihar, Jharkhand and Gangetic West Bengal.
- **Week 2 (03.02.2023 to 09.02.2023):** Tmin is likely to be below normal over central and eastern parts of India and above normal over north India.

## **Agromet Advisories**

### **Uttar Pradesh**

04 mm (-62% large deficit) rainfall was received over East Uttar Pradesh and 07 mm of rainfall received over West Uttar Pradesh (-34% deficit) during 01 - 27 January 2023. The extended range weather forecast (rainfall) for the next two weeks (27 January - 02 February 2023 and 03 - 09 February 2023) is below normal over East Uttar Pradesh and West Uttar Pradesh for week-1 and; no rainfall over East Uttar Pradesh and West Uttar Pradesh for week-2.

#### *Western Uttar Pradesh*

- To protect the crops from frost protection, it is advised to cover the soil with plastic mulches that increase heat transfer into the soil, improving heat storage.
- To protect the potato crop from late blight disease, farmers are advised to spray 2.0 g Mancozeb or 1.5 to 2.5 g Metalaxyl with 1.0 litre water solution as per present weather conditions.

#### *Eastern Uttar Pradesh*

- Farmers are advised to protect the animals from the cold wave by keeping them in shed with close window and doors in night and also provide the balance diet to animals with 50 grams of mineral powder and 20 grams of salt daily. Feed the animals by providing dry fodder and green fodder.

### **Himachal Pradesh**

64 mm (-10% deficit) of rainfall was received over Himachal Pradesh during 01 - 27 January 2023. The extended range weather forecast (rainfall) provided for the next two weeks (27 January - 02 February 2023 and 03 - 09 February 2023) over Himachal Pradesh is normal for week-1 and below normal for week-2.

- Add mulch material in the space between two rows of vegetables crops for conservation of soil moisture.
- The sharp decline in the temperature over the past few days may result in the incidence of frost causing adverse effect on horticultural crops. Farmers are advised to cover the small horticulture plants with grass to avoid cold paralysis.

### **Jharkhand**

No rainfall received over Jharkhand during 01 - 27 January 2023. The extended range weather forecast (rainfall) for the next two weeks (27 January - 02 February 2023 and 03 - 09 February 2023) is below normal for week-1 and no rainfall for week-2.

- As a protection from frost and increase the number of fruits in pea crop, it is advised to make a solution of 20 g of urea per liter of water and sprinkle it on the stem of the crop.
- For the control of leaf blight in wheat crop, farmers are advised to spray Indofil M-45 @ 2 g /litre of water.

## **Assam**

The amount of rainfall received over Assam was 0.4 mm (-96% large deficit) during 01 - 27 January 2023. The extended range weather forecast (rainfall) for the next two weeks (27 January - 02 February 2023 and 03 - 09 February 2023) is no rainfall for week-1 and below normal for week-2.

- Since no rainfall was observed during the past week and large deficit in rainfall was observed since the onset of winter season, hence irrigation may be advocated for maintaining a standing water level of 5±2 cm depth in the boro rice crop fields.
- Low night temperature coupled with dense fog is favorable for aphid infestation in rapeseed. To control aphid infestation, it is advised to spray Thiamethoxam 25 WG @ 3 g per 10 liters of water.
- To protect the banana bunches from low temperature stress, it is advised to cover them with white polythene bags.

## **Jammu**

The amount of rainfall received over Jammu was 85 mm (7% excess) during 01 - 27 January 2023. The extended range weather forecast (rainfall) provided for the next two weeks (27 January - 02 February 2023 and 03 - 09 February 2023) over Jammu is above normal for week-1 and; normal for week-2.

- The weather is congenial for wilt and blight incidence in *rabi* pulses. If symptoms are observed, it is advised to apply Bavistin/Carbendazim @ 3g/litre of water.

## **Tamil Nadu**

The amount of rainfall received over Tamil Nadu was 3 mm (-69% large deficit) during 01 - 27 January 2023. The extended range weather forecast (rainfall) for the next two weeks (27 January - 02 February 2023 and 03 - 09 February 2023) is above normal for week-1 and week-2.

- Prevailing weather conditions are congenial for rice blast incidence in rice. For the management, it is advised to spray Carbendazim or Tricyclozole at 2 g/lit of water for 1 kg of seed.

## **Kerala**

The amount of rainfall received over Kerala was 12 mm (92% large excess) during 01 - 27 January 2023. The extended range weather forecast (rainfall) for the next two weeks (27 January - 02 February 2023 and 03 - 09 February 2023) is below normal for week-1 and above normal for week-2.

- Under prevailing weather condition, there is a chance of anthracnose disease in cowpea. As a prophylactic measure, apply 1% Bordeaux mixture or spray *pseudomonas* @ 20 g per litre.

- For the management of coffee berry borer, farmers are advised to spray Quinalphos (0.05%) 400 ml in 200 liters of water.

### **Maharashtra**

No rainfall over Madhya Maharashtra and Konkan region and rainfall of 0.5 mm (-93% large deficit) over Vidarbha and 0.6 mm (-84% large deficit ) over Marathwada was recorded during 01 - 27 January 2023. The extended range weather forecast (rainfall) for the next two weeks (27 January - 02 February 2023 and 03 - 09 February 2023) is above normal over Madhya Maharashtra, Konkan and Marathwada and below normal over Vidarbha for week-1 and; no rainfall over Konkan, Madhya Maharashtra, Marathwada and Vidarbha for week-2, respectively.

#### *Vidarbha*

- Under prevailing weather condition, it is advised to harvest the matured early sown/early maturing pigeonpea variety and ensure safe storage of harvested produce.

#### *Marathwada*

- Due to increase in maximum temperature, farmers are advised for irrigation management as per requirement in floriculture crops
- As per forecast of rainfall at isolated places during first week, farmers are advised to harvest *rabi* sunflower crop and store at safe places.

#### *Konkan*

- To minimize the pre-mature fruit drop of mango, it is advised to apply 150 to 200 litres of water per tree after fruit setting at 15 days interval for 3 to 4 times.
- During cold weather, there is a possibility for fish mortality due to reduction of oxygen content in the pond water. To improve the oxygen content in the pond, it is advised to run the aerator for two hours in the morning and evening.

#### *Madhya Maharashtra*

- Spraying of 1% KNO<sub>3</sub> is advised under moisture stress condition on the *rabi* crops.
- Mulching is advised to reduce the evaporation from soil in orchard crops.

### **Odisha**

The amount of rainfall received over Odisha was 0.1 mm (-99% deficit) during 01 - 27 January 2023. The extended range weather forecast (rainfall) provided for the next two weeks (27 January - 02 February 2023 and 03 - 09 February 2023) over Odisha is below normal for week-1 and; no rainfall for week-2.

- Prevailing weather is optimum for sowing of summer maize. Grow composite varieties like *Navjot*, *Dhabal* and *Vijay* and hybrids like *Ganga*, *Deccan -105*, *Deccan* and *Kargil 633*.
- Due to prevailing mild dry weather condition, farmers are advised to irrigate their crop field.

## **Karnataka**

No rainfall received during 01 - 27 January 2023 over Coastal Karnataka and the amount of rainfall received over South Interior Karnataka is 1.4 mm (28% deficit) and 0.1 mm rainfall (-95% large deficit) received over North Interior Karnataka. The extended range weather forecast (rainfall) for the next two weeks (27 January - 02 February 2023 and 03 - 09 February 2023) is above normal over Coastal Karnataka and below normal over North Interior Karnataka and normal over South Interior Karnataka for week-1 and; no rainfall over North Interior Karnataka above normal over Coastal Karnataka and South Interior Karnataka for week-2.

### *South Interior Karnataka*

- To protect the pulse grains from storage pests, apply oils of castor/ linseed/honge/neem oil @ 3-5 ml per kg of grains.
- To protect animals from a sudden drop in temperature, keep the animals in a covered shed/area during the night. The bedding/hay in the animal sheds must be kept dry and changed/aired every day.

## **Madhya Pradesh**

The amount of rainfall received over East Madhya Pradesh was 3.8 mm (-73% large deficit) during 01 - 27 January 2023. The extended range weather forecast (rainfall) provided for the next two weeks (27 January - 02 February 2023 and 03 - 09 February 2023) over East Madhya Pradesh is below normal for week-1 and; no rainfall for week-2.

- Due to high dew formation, spread of early and late blight disease may occur in potato crop. To control, spraying of Dithane (Mancozeb) @ 2.5 g /litre water is advised.

## **Anantapur**

The amount of rainfall received over Coastal Andhra Pradesh was 1.5 mm (-84% large deficit) and no rainfall received over Rayalaseema during 01 - 27 January 2023. The extended range weather forecast (rainfall) provided for the next two weeks (27 January - 02 February 2023 and 03 - 09 February 2023) is above rainfall over Coastal Andhra Pradesh and Rayalaseema for week-1 and; below normal over Coastal Andhra Pradesh and above normal over Rayalaseema for week-2.

- In Chittoor, Vizianagaram, West Godavari, Krishna, Ananthapuramu and Kadapa districts, present weather conditions are favourable for incidence of hoppers in mango. To control it, spraying of Dimethoate @ 2ml/litre or Chlorpyrifos @ 2.5ml/litre of water is recommended.

## **Gujarat**

No rainfall received over Gujarat during 01 - 27 January 2023. The extended range weather forecast (rainfall) provided for the next two weeks (27 January - 02 February 2023 and 03 - 09 February 2023) over Gujarat is above normal for week-1 and; no rainfall for week-2.

- For the management of wilt disease in brinjal, application of 750 g Trichoderma with 15 kg FYM for one acre is advised and install yellow sticky traps and blue sticky traps for sucking pests.

## **West Bengal**



0.1 mm (-99% large deficit) rainfall received over Gangetic West Bengal and rainfall received over Sub Himalayan West Bengal was 0.2 mm (-99% large deficit) during 01 - 27 January 2023. The extended range weather forecast (rainfall) for the next two weeks (27 January - 02 February 2023 and 03 - 09 February 2023) is no rainfall over Gangetic West Bengal and below normal over Sub-Himalayan West Bengal during week-1 and; below normal over Gangetic West Bengal and Sub-Himalayan West Bengal during week-2.

- Irrigation is advised to upland vegetables (carrot, radish, onion, brinjal etc.) and chick pea crop.

### **Rajasthan**

0.5 mm (-88% large deficit) rainfall received over East Rajasthan during 01 - 27 January 2023. The extended range weather forecast (rainfall) provided for the next two weeks (27 January - 02 February 2023 and 03 - 09 February 2023) over East Rajasthan is above normal for week-1 and; no rainfall for week-2.

- Under present weather condition, constant monitoring of aphids is advised in mustard crop. If insect population above ETL than spraying of Rogar or Quinalphos @ 2.0 ml/ litre water is recommended.

### ***Disclaimer:***

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