



## National Agromet Advisory Service Bulletin

based on

**Extended Range Weather Forecast (ERFS)**

**Validity: 30 April - 13 May 2021**

**Date of issue: 30 April 2021**

Issued by

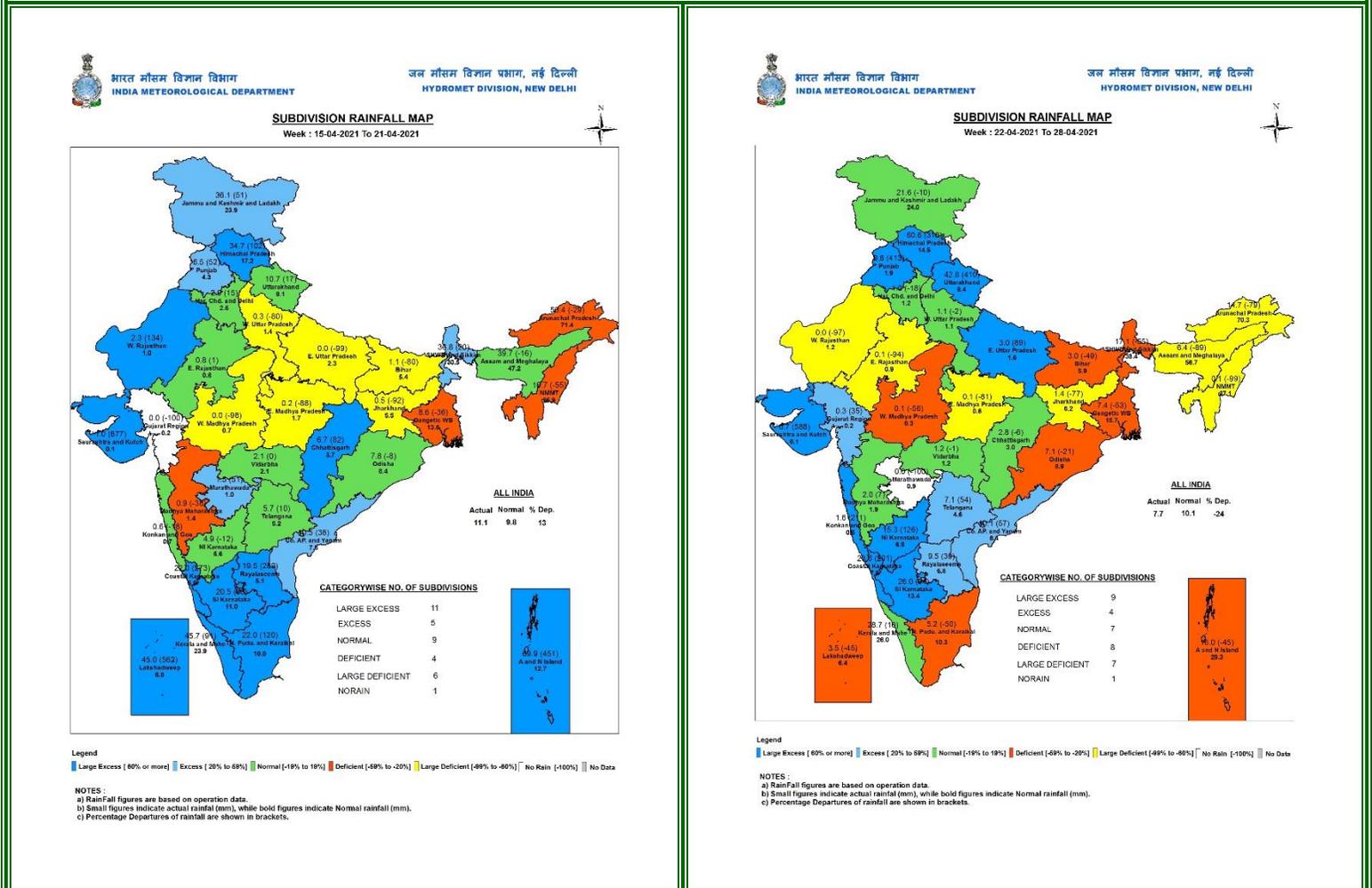
**AICRP on Agro-Meteorology (AICRPAM),  
Central Research Institute for Dryland Agriculture (CRIDA),  
Indian Council of Agricultural Research (ICAR)**

**&**

**India Meteorological Department (IMD),  
Earth System Science Organization**

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

## Realized Rainfall (15<sup>th</sup> to 28<sup>th</sup> April, 2021)



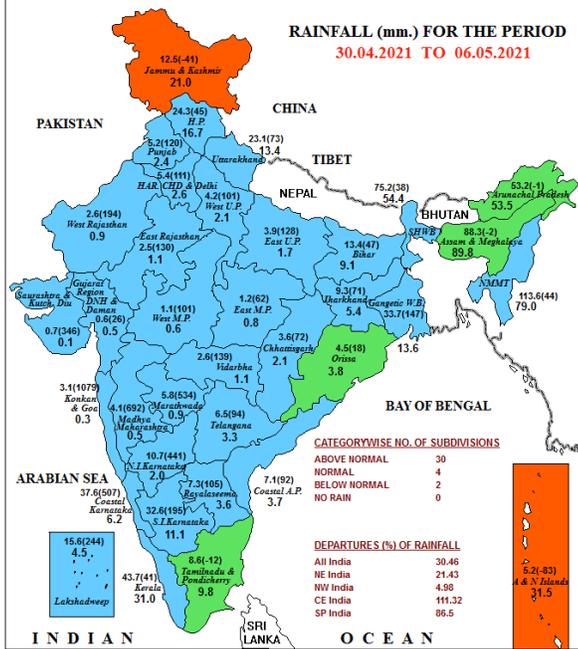
- Normal or above normal rainfall occurred in both the weeks in Jammu & Kashmir and Ladakh (UTs), Himachal Pradesh, Uttarakhand, Punjab, Haryana Chandigarh Delhi, Chhattisgarh, Konkan & Goa, Vidarbha, Saurashtra & Kutch, Karnataka, Telangana, Coastal Andhra Pradesh & Yanam, Rayalaseema and Kerala & Mahe.
- Normal or above normal rainfall occurred in either of the two weeks in Uttar Pradesh, Rajasthan, Sub-Himalayan West Bengal & Sikkim Assam & Meghalaya, Gujarat Region, Madhya Maharashtra, Marathwada, Tamil Nadu Puducherry & Karaikal, Lakshadweep and Andaman & Nicobar Islands.
- Below Normal rainfall / no rain occurred in either of the two weeks / both the weeks over rest of the country.

## Extended Range Forecast System

### Rainfall forecast maps for the next 2 weeks (IC – 28 April) (30<sup>th</sup> April to 13<sup>th</sup> May, 2021)

#### भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT

##### Rainfall Forecast Map - Normal RF Based Categories

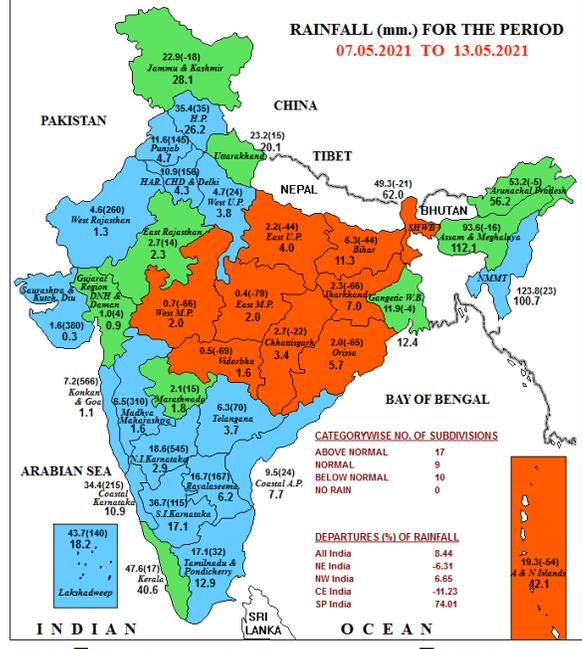


LEGEND: ■ ABOVE NORMAL (+20% OR MORE) ■ NORMAL (+19% TO -19%)  
■ BELOW NORMAL (-20% TO -99%) ■ NO RAIN (-100%) □ NO DATA

NOTES:  
 [a] Rainfall figures are based on MME Forecast data.  
 [b] Small figures indicate actual rainfall (mm.), while bold figures indicate Normal rainfall (mm.)  
 Percentage Departures of Rainfall are shown in Brackets.

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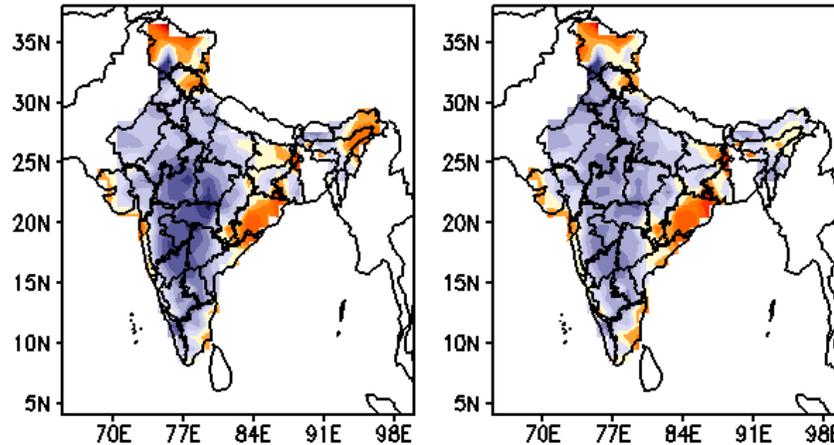
- **Week 1 (30.04.2021 to 06.05.2021) and Week 2 (07.05.2021 to 13.05.2021):** Some parts of the south peninsula (Coastal Kerala, Kerala and Tamil Nadu) will get rainfall during the period. Rainfall is likely to continue over Northeast India during the period. Isolated rainfall associated with Western Disturbance likely over north and northwest India.

**Maximum and Minimum temperature anomaly ( $^{\circ}$ C) forecast  
for next 2 weeks (IC – 28 April)  
(30<sup>th</sup> April to 13<sup>th</sup> May, 2021)**

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

(Week1: 30Apr–06May)

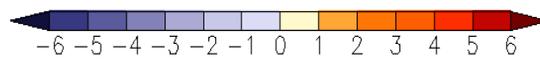
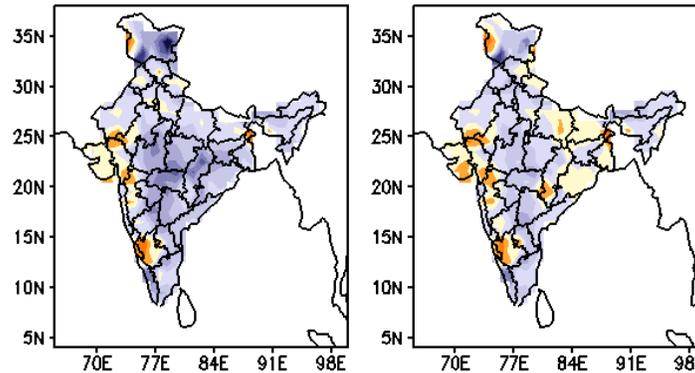
(Week2: 07May–13May)



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

(Week1: 30Apr–06May)

(Week2: 07May–13May)



**Maximum Temperature (Tmax)**

- **Week 1 (30.04.2021 to 06.05.2021) and Week 2 (07.05.2021 to 13.05.2021):** Tmax over extreme north India (Jammu & Kashmir), eastern coastal region, Bihar, north eastern states Odisha, Gangetic West Bengal and parts of western coastal region will be above normal in week 1 and week 2

**Minimum Temperature (Tmin)**

- **Week 1 (30.04.2021 to 06.05.2021) and Week 2 (07.05.2021 to 13.05.2021):** Warm anomalies over isolated regions of western India, parts of the south peninsula in week 1 and over the eastern belt of Odisha, Gangetic West Bengal, Jharkhand, Bihar, east Uttar Pradesh along with western coastal belt in week 2.

## **Strategic Agricultural Planning based on rainfall during next two weeks till 13 May 2021**

### **Agro-met Advisories**

#### **Kerala**

Amount of rainfall received over Kerala is 178.8 mm (34% excess) during 01 March 2021 - 29 April 2021. The extended range weather forecast (rainfall) for next two weeks (30 April - 06 May 2021 and 07 - 13 May 2021) is above normal for week-1 and normal for week-2.

- Prevailing warm and humid weather condition is congenial for inflorescence die back and button shedding in arecanut. To manage, it is advised to spray Hexaconazole (Contaf) 1 ml per litre or Bordeaux mixture 1%.
- Under prevailing hot and dry weather condition, mulching in banana basins is advised to reduce temperature and conserve moisture.

#### **Tamil Nadu**

Amount of rainfall received over Tamil Nadu is 43.8 mm (-26% deficit) during 01 March 2021 - 29 April 2021. The extended range weather forecast (rainfall) for next two weeks (30 April - 06 May 2021 and 07 - 13 May 2021) is normal for week-1 and above normal for week-2.

- Prevailing hot and dry weather condition is favorable for fruit dropping in Acid Lime. Farmers are advised to provide frequent water supply and add a layer mulch under trees.
- Prevailing weather is also favorable for blossom midge incidence in jasmine. It is advised to spray Thiamethoxam 2.5% WG @ 0.75 g/litre or Flufenoxuron @ 1.5 g/litre.

#### **Maharashtra**

Rainfall received over Madhya Maharashtra is 18.3 mm (89% large excess), Marathwada is 12.1 mm (8% excess), Vidarbha is 18.2 mm (8% excess) and Konkan region 3.7 mm (28% deficit) during 01 March 2021 - 29 April 2021. The extended range weather forecast (rainfall) for next two weeks (30 April - 06 May 2021 and 07 - 13 May 2021) over Konkan, Madhya Maharashtra, Marathwada and Vidharbha is above normal for week-1 and above normal over Konkan and Madhya Maharashtra, below normal over Vidharbha and normal over Marathwada for week-2.

#### *Marathwada*

- To protect the newly planted and small plants of banana from high temperature, it is advised to provide shade and mulching around the stem of the banana plants.
- Due to the chances of thunderstorm and rainfall, it is advised to harvest the mature Sapota fruits and provide support with the help of stick to newly planted Sapota orchard.

#### *Vidharbha*

- For the management of pod borer and white fly in summer green gram crop, it is advised to spray of Indoxacarb 15.8% EC @ 6 to 7 ml per 10 litres of water.

- Under prevailing weather condition, farmers are advised for deep summer ploughing of harvested fields to expose the hibernating insects, larvae/pupa to sun and predator birds.

#### *Madhya Maharashtra*

- To protect fruit crops from high temperature, it is advised to provide shades on fruit crops.
- Under prevailing high temperature, it is advised to protect milch animals by keeping them under the shed and provide green fodder and sufficient clean drinking water.

#### *Konkan*

- Due to chances of increase in temperature, it is advised to provide irrigation to the vegetable crops at 4-5 days of interval.
- To reduce the heat stress in farm animals, it is advised to provide roughages by mixing with solution of 1% jaggery and 0.5% salt separately.

#### **Hisar**

Amount of rainfall received over Hisar is 8.6 mm (-56% deficit) during 01 March 2021 - 29 April 2021. The extended range rainfall forecast (rainfall) provided for next two weeks (30 April - 06 May 2021 and 07 - 13 May 2021) over Hisar is above normal for week-1 and week-2.

- Due to the chances of increase in day temperature, farmers are advised to apply light irrigation in planted vegetable crops and fruits plants as per requirement.
- It is advised to keep the animals under shed and provide 50 g iodized salt and 50 - 100 g mineral mixture daily along with animal feed/fodder.

#### **Karnataka**

Rainfall received during 01 March 2021 - 29 April 2021 over South Interior Karnataka is 53.1 mm (2% normal) and North Interior Karnataka is 31.1 mm (4% excess). The extended range weather forecast (rainfall) for next two weeks (30 April - 06 May 2021 and 07 - 13 May 2021) over South Interior Karnataka and North Interior Karnataka is above normal for week-1 and week-2.

#### *South Interior Karnataka*

- Under prevailing weather condition, advised summer ploughing to expose the soil to kill the different stages of insect and weeds.
- Under prevailing weather condition, it is advised to provide proper ventilation for free circulation of air in the animal sheds. Also, arrange to provide clean drinking water for the animals.

#### *North Interior Karnataka*

- Under prevailing weather condition, farmers are advised for summer ploughing and incorporate the crop residues in the soil.
- Vaccination of livestock advised against Foot and Mouth disease (FMD vaccination), Black Quarter disease (BC vaccination) and Haemorrhagic Septicaemia.

### **Uttar Pradesh**

Rainfall received during 01 March 2021 - 29 April 2021 over East Uttar Pradesh 3.6 mm (-71% large deficit) and West Uttar Pradesh is 2.1 mm (-85% large deficit). The extended range weather forecast (rainfall) for next two weeks (30 April - 06 May 2021 and 07 - 13 May 2021) over East Uttar Pradesh and West Uttar Pradesh is above normal for week-1 and above normal over West Uttar Pradesh and below normal over East Uttar Pradesh for week-2.

#### *Eastern Uttar Pradesh*

- Under prevailing hot and dry weather, it is advised the farmers for irrigation in late sown wheat and other standing crop.
- Intercultural operation advised to check the evapotranspiration losses and proper utilization of nutrient to the crop.

### **Jammu**

Amount of rainfall received over Jammu is 186.5 mm (-26% deficit) during 01 March 2021 - 29 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (30 April - 06 May 2021 and 07 - 13 May 2021) on rainfall over Jammu is below normal for week-1 and normal for week-2.

- Due to presence of sufficient soil moisture, farmers are advised for sowing of Mash with recommended varieties viz., Pant U-19, Uttara and Moong (var.) PDM-54, ML-131, ML 818, PS-16, PS-7 is advised
- Under prevailing weather condition, sowing of summer fodder (maize+cowpea+charri) and bajra is advised.

### **West Bengal**

Amount of rainfall received over West Bengal is 29.0 mm (-63% large deficit) during 01 March 2021 - 29 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (30 April - 06 May 2021 and 07 - 13 May 2021) on rainfall over West Bengal is above normal for week-1 and normal for week-2.

- For the management of stem borer in rice, it is advised to spray Cartap Hydrochloride (50% SP) @ 1 g/litre of water.
- To control the fruit drop in mango, it is advised to spray Borax @ 2g per litre of water or Planofix @ 2ml per 5 litre of water.

## **Odisha**

Amount of rainfall received over Odisha is 30.3 mm (-46% deficit) during 01 March 2021 - 29 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (30 April - 06 May 2021 and 07 - 13 May 2021) on rainfall over Odisha is normal for week-1 and below normal for week-2.

- Prevailing high temperature and intermittent thundershower is congenial for Brown Plant Hopper and White Backed Plant Hopper infestation in paddy. To manage, it is advised to avoid excess use of nitrogenous fertilizer and spray Neem Based Pesticide (Azadirachtin) 1500 ppm @ 600 ml/acre at the base of the plant.
- For the management of downy mildew disease in cucurbit vegetables, it is advised to spray Copper Hydroxide 77% WP 12 (Hi-dice/Kocide) @ 3 g/litre or Fosetyl-AL 80% WP (Aliette) @ 3 g/litre or Carbendazim 12% + Mancozeb 63% WP (Saaf/Sixer) @ 2g/litre.

## **Assam**

Amount of rainfall received over Assam is 142.8 mm (-45% deficit) during 01 March 2021 - 29 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (30 April - 06 May 2021 and 07 - 13 May 2021) on rainfall over Assam is normal for week-1 and week-2.

- Because of increase in temperature and chances of light rainfall, there may be the incidence of blight observed in the green gram and black gram crops. To control, it is advised to apply Carbendazim 0.05% @ 300-500 g in 600-700 litres of water at an interval of 12-15 days.
- Prevailing weather condition is congenial for fruit rot or Anthracnose disease in the chilli crop. To manage, farmers are advised to spray Glyodin or Maneb pesticide in the recommended dose.

## **Himachal Pradesh**

Amount of rainfall received over Himachal Pradesh is 154.9 mm (-11% deficit) during 01 March 2021 - 29 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (30 April - 06 May 2021 and 07 - 13 May 2021) on rainfall over Himachal Pradesh is above normal for week-1 and week-2.

- Under prevailing weather condition, sowing of improved varieties of root vegetables like radish, turnip, carrot and spinach in low lying areas of the state is advised.
- Under the prevailing weather condition, there is a chance of thrips attack in onion. To control, spraying of Imidacloprid @ 0.5 ml per litre of water with sticky material (Tipol 1.0 g/litre) under clear sky conditions is advised.
- Maintain room temperature of 25-28°C and relative humidity of 80-85 % for successful growing of mushrooms.

## **Gujarat**

Amount of rainfall received over Gujarat is 0.3 mm (-84% large deficit) during 01 March 2021 - 29 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (30 April - 06 May 2021 and 07 - 13 May 2021) on rainfall over Gujarat is above normal for week-1 and normal for week-2.

- Due to prevailing high temperature and dry weather condition, light irrigation in okra crop at short interval is advised.
- Under present weather hot and dry weather condition, it is advised to keep animals under shade and provide plenty of cool water mixed with minerals for drinking and also shower the animals with cold water two to three times in a day.

### **Punjab**

Amount of rainfall received over Punjab is 26.2 mm (-29% deficit) during 01 March 2021 - 29 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (30 April - 06 May 2021 and 07 - 13 May 2021) on rainfall over Punjab is above normal for week-1 and week-2.

- For the management of early shoot borer in sugarcane, it is advised to use Tricho-cards having 20,000 eggs of *Corcyra cephalonica* parasitized (seven days old) by *Trichogramma chilonis* per acre at 10 days interval.
- For the control of powdery mildew disease in cucurbits, it is advised to spray Karathane 50-80 ml/acre.

### **Uttarakhand**

Amount of rainfall received over Uttarakhand is 68.1 mm (-23% deficit) during 01 March 2021 - 29 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (30 April - 06 May 2021 and 07 - 13 May 2021) on rainfall over Uttarakhand is above normal for week-1 and normal for week-2.

- It is advised to provide mechanical support to the fruit bearing trees and vegetable creepers to prevent from strong winds.
- Under prevailing weather condition, farmers are advised for transplanting of chili, tomato, capsicum and brinjal seedlings.

### **Chhattisgarh**

Amount of rainfall received over Chhattisgarh is 20.3 mm (-10% deficit) during 01 March 2021 - 29 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (30 April - 06 May 2021 and 07 - 13 May 2021) on rainfall over Chhattisgarh is above normal for week-1 and below normal for week-2.

- Due to the chances of light cloudiness, there is a possibility of outbreak of stem borer in summer rice crop. To control, it is advised to spray Rhynoxypyr 20% SC @ 150 g/ha or Fipronil 5% SC @ 1 litre/ha.
- For the management of red pumpkin beetle, it is advised to spray Imidachloprid @ 8 ml per litre.

***Disclaimer:***

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