



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

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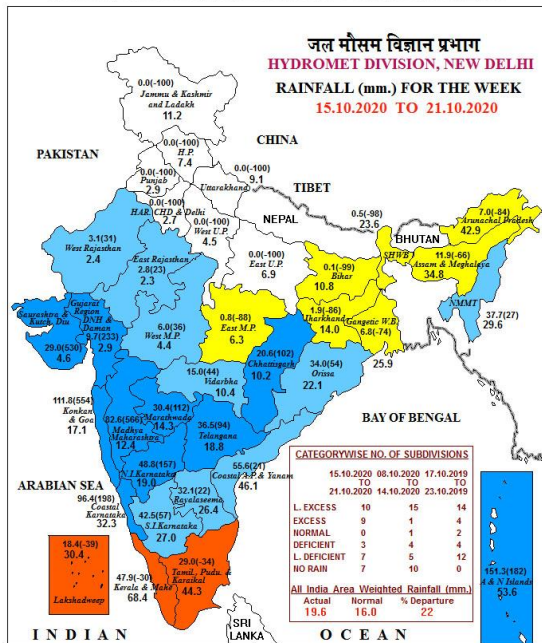
**India Meteorological Department (IMD),
Earth System Science Organization**

Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

Realized Rainfall

(15th to 28th October, 2020)

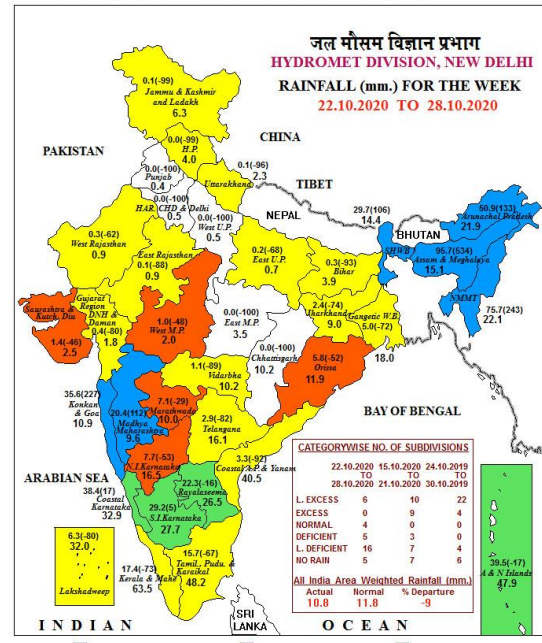
भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT



LEGEND: L. EXCESS (+60% OR MORE) EXCESS (+20% TO +59%) NORMAL (+19% TO -19%)
DEFICIENT (-20% TO -59%) L. DEFICIENT (-60% TO -99%) NO RAIN (-100%) NO DATA

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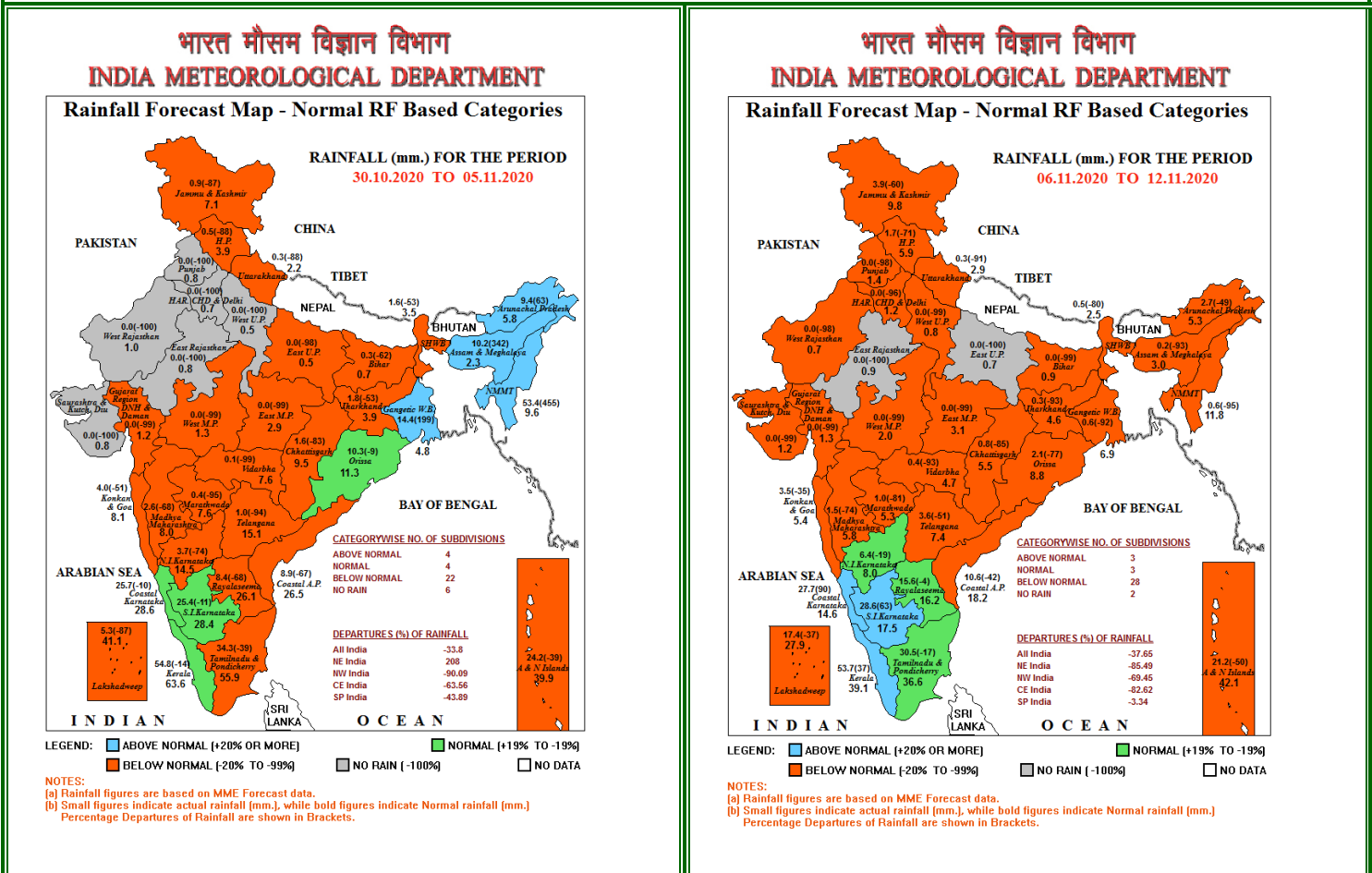
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NOTES:
[a] Rainfall figures are based on operational data.
[b] Small figures indicate actual rainfall (mm.), while bold figures indicate Normal rainfall (mm.)
Percentage Departures of Rainfall are shown in Brackets.

- Normal or above normal rainfall occurred in both the weeks in Nagaland Manipur Mizoram & Tripura (NMMT), Konkan & Goa, Madhya Maharashtra, Coastal Karnataka, South Interior Karnataka, Rayalaseema and Andaman & Nicobar Islands.
- Normal or above normal rainfall occurred in either of the two weeks in Gujarat State, Rajasthan, West Madhya Pradesh, Chhattisgarh, Odisha, Sub-Himalayan West Bengal, Assam & Meghalaya, Arunachal Pradesh, Vidarbha, Marathwada, North Interior Karnataka, Telangana and Coastal Andhra Pradesh & Yanam.
- Below Normal rainfall/no rain occurred in both the weeks in Jammu & Kashmir (UT), Ladakh (UT), Himachal Pradesh, Punjab, Haryana Chandigarh & Delhi, Uttarakhand, Uttar Pradesh, Bihar, Jharkhand, Gangetic West Bengal, East Madhya Pradesh, Tamil Nadu Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC – 28 October) (30th October to 12th November, 2020)



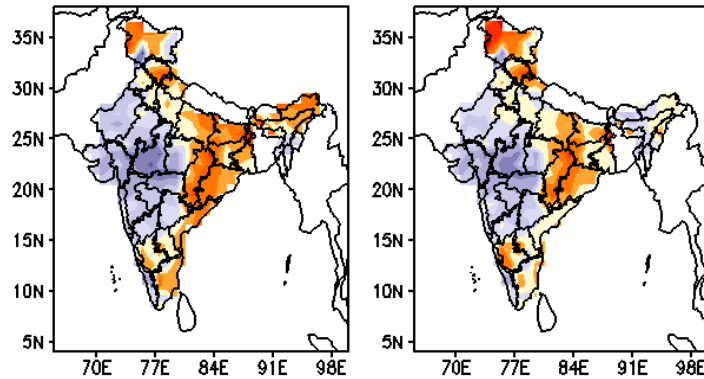
- **Week-1 (30.10.2020 to 05.11.2020):** Mostly dry weather over most parts of India (Northwest and Central India) with main rainfall over southern peninsula and north-eastern states and adjoining Gangetic West Bengal and Odisha.
- **Week-2 (06.11.2020 to 12.11.2020):** Increase of northeast monsoon rainfall in week-2 over the southern peninsula. Whereas, almost dry weather will prevail over most of the remaining parts of India.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 28 October)
(30th October to 12th November, 2020)**

MME forecast Tmax anomaly (Deg C)

(Week1: 30Oct–05Nov)

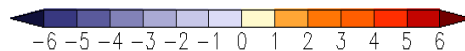
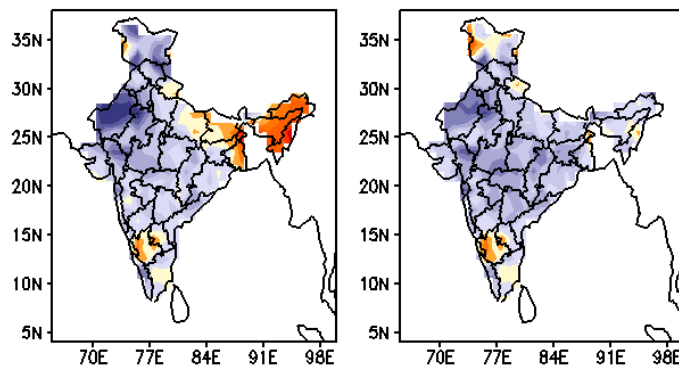
(Week2: 06Nov–12Nov)



MME forecast Tmin anomaly (Deg C)

(Week1: 30Oct–05Nov)

(Week2: 06Nov–12Nov)



Maximum Temperature (Tmax)

- **Week-1 (30.10.2020 to 05.11.2020) and Week-2 (06.11.2020 to 12.11.2020):** Tmax over northern India, Indo Gangetic Plain and parts of Northeast India will be above normal, whereas, Tmax over most of remaining parts of India will be below normal.

Minimum Temperature (Tmin)

- **Week-1 (30.10.2020 to 05.11.2020) and Week-2 (06.11.2020 to 12.11.2020):** Mostly below normal Tmin over the country except some parts of northeast India and extreme north India.

Agro-met Advisories

Kerala

Amount of rainfall received over Kerala is 2448.4 mm (5% excess) during 01 June 2020 - 29 October 2020. The extended range weather forecast for next two weeks (30 October - 05 November and 06 - 12 November 2020) is normal for week-1 and above normal for week-2.

- For the management of tuber rot in tapioca, it is advised to apply Baavistin 1 g per litre or SAAF 3 g per litre in the problematic area.
- Under prevailing weather condition, attack of stem borer may be observed in the collar region of ginger. To control, spray Flubendiamide @ 1 ml per 10 litres water.

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 533.9 mm (5% excess) during 01 June 2020 - 29 October 2020. The extended range weather forecast for next two weeks (30 October - 05 November and 06 - 12 November 2020) is below normal for week-1 and normal for week-2.

- Due to chances of dry weather conditions, farmers are advised to irrigate the maize and sorghum crop based on the soil moisture availability.
- Prevailing weather condition is favorable for smallpox and PPR diseases in goat. Proper vaccination may be done for avoiding animal losses.

Maharashtra

Rainfall received over Madhya Maharashtra is 1122.2 mm (36% excess), Marathawada is 972.6 mm (32% excess), Vidharbha is 898.5 mm (-10% deficit) and Konkan region 3904.3 mm (31% excess) during 01 June 2020 - 29 October 2020. The extended range weather forecast for next two weeks (30 October - 05 November and 06 - 12 November 2020) over Madhya Maharashtra, Vidharbha, and Marathawada and Konkan is below normal for week-1 and week-2.

Madhya Maharashtra

- Under prevailing weather condition, there is a chance of powdery mildew disease in vegetable crops. It is advised to spray 80% W.S. Sulphur @ 2.5 g per litre of water.
- For control of American army worm attack in crops, it is advised to use pheromone trap @ 5 per ha or apply 50,000 eggs of *Trichogram pritosum* or *Telenomus remus* parasite per acre three times in one-week interval.

Konkan

- Due to increase in temperature, it is advised to provide irrigation in newly planted fruit crop orchard and vegetable crops.
- There is possibility for incidence of shoot borer and midge fly on new vegetative flush of mango. If incidence is noticed, spray Monocrotophos 36%SL @ 11 ml per 10 liters of water during clear weather.

Vidharbha

- Under prevailing weather condition, sowing of coriander, spinach, fenugreek, radish, carrot, dolichos bean and ivy gourd is advised.
- For the management of helioverpa, it is advised to install pheromone traps @ 5/ha at a distance of 50 meter.

Marathawada

- For management of pod borer in pigeonpea crop, it is advised to spray of Quinalphos 25% @ 20 ml or Emamectin benzoate 5% @ 4.4 g per 10 litres of water.
- For management of grey mildew disease in irrigated cotton, it is advised to spray Azoxystrobin + Difenconazole @ 10 g per 10 liters of water.

Hisar

Amount of rainfall received over Hisar is 379.8 mm (-16% deficit) during 01 June 2020 - 29 October 2020. The extended range rainfall forecast provided for next two weeks (30 October - 05 November and 06 - 12 November 2020) over Hisar is no rainfall for week-1 and below normal for week-2.

- Due to high humidity and favorable temperature, farmers are advised to monitor the insect-pest/diseases in rice crop and remove the disease plants.
- Due to humid weather condition, farmers are advised to keep animals under well ventilated places and provide plenty of clean drinking water and green forage as per requirement.

Karnataka

Rainfall received during 01 June 2020 - 29 October 2020 over South Interior Karnataka is 967.0 mm (18% excess) and North Interior Karnataka is 915.7 mm (53% excess). The extended range weather forecast for next two weeks (30 October - 05 November and 06 - 12 November 2020) over South Interior Karnataka is normal and North Interior Karnataka is below normal for week-1 and above normal over South Interior Karnataka and normal over North Interior Karnataka for week-2.

North Interior Karnataka

- Under prevailing dry weather condition, farmers are advised to complete the harvesting of greengram, bajra, maize and groundnut crops as early as possible.
- Farmers are advised to vaccinate livestock against Foot and Mouth disease (FMD vaccination), Black Quarter disease (BC vaccination) and *Haemorrhagic Septicaemia*.

Uttar Pradesh

Rainfall received during 01 June 2020 - 29 October 2020 over East Uttar Pradesh 786.0 mm (-10% deficit) and West Uttar Pradesh is 455.3 mm (-39% deficit). The extended range weather forecast for next two weeks (30 October - 05 November and 06 - 12 November 2020) over East Uttar Pradesh below normal and over West Uttar Pradesh is no rainfall for week-1 and no rainfall over East Uttar Pradesh and below normal over West Uttar Pradesh for week-2.

Western Uttar Pradesh

- Due to chances of no rainfall, farmers are advised to provide light irrigation in late sown paddy

crop.

- Present weather condition is optimum for sowing of timely sown wheat varieties under irrigated condition. Recommended varieties are PBW-343, K-9107, UP - 2382, K-307, DBW-17, PBW-443, HD-2824, DBW-39, CBW-38 and HUW-510.
- For the management of gundhibug in late planted paddy crop, it is advised to apply Malathion dust 5% @ 20-25 kg/ha or spray Monocrotophos 36 WSC @ 1.5 litres.

Eastern Uttar Pradesh

- Intercultural operation is advised to check evaporation losses.
- Under the prevailing weather condition, sowing of chickpea, mustard, potato, pea and other *rabi* vegetables is advised.

Jammu

Amount of rainfall received over Jammu is 376.3 mm (-37% deficit) during 01 June 2020 - 29 October 2020. The extended range weather forecast provided for next two weeks (30 October - 05 November and 06 - 12 November 2020) on rainfall over Jammu is below normal for week-1 and week-2.

- Due to prevailing dry weather condition, it is advised to irrigate the vegetable and young fruit plants.
- Under prevailing weather condition, sowing of mustard and gobi sarson is advised. Recommended varieties are Pusa Bold, RSPR-01, RSPR-03, and Kranti.

Rajasthan

Amount of rainfall received over East Rajasthan is 595.4 mm (-3% deficit) during 01 June 2020 - 29 October 2020. The extended range weather forecast provided for next two weeks (30 October - 05 November and 06 - 12 November 2020) on rainfall over East Rajasthan is no rainfall for week-1 and week-2.

- Under prevailing weather condition, farmers are advised for land preparation and sowing of wheat. Recommended cultivars for normal sowing are Raj-3077, WH-147, GW-190, GW-322, GW- 273, HI- 1544, Raj 4037, HI- 8498, Lok-1 and Raj-3765.
- Prevailing mean temperature is suitable for sowing of garlic. Recommended cultivars are G-1, G-41, G-50 and G-282.

Himachal Pradesh

Amount of rainfall received over Himachal Pradesh is 565.5 mm (-28% deficit) during 01 June 2020 - 29 October 2020. The extended range weather forecast provided for next two weeks (30 October - 05 November and 06 - 12 November 2020) on rainfall over Himachal Pradesh is below normal for week-1 and week-2.

- Farmers are advised to complete the sowing of toria/ early mustard, pea, radish, spinach and coriander, berseem, lucerne and oats for fodder.
- The weather is conducive for ticks and mites attack on animals. To control, it is advised to spray Butox @ 2.0 ml per litre of water.
- Due to decrease in night temperature, farmers are advised to protect newly born calves and

milch animals from morning/evening cold.

Gujarat

Amount of rainfall received over Gujarat is 1045.6 mm (11% excess) during 01 June 2020 - 29 October 2020. The extended range weather forecast provided for next two weeks (30 October - 05 November and 06 - 12 November 2020) on rainfall over Gujarat is below normal for week-1 and week-2.

- Under prevailing weather condition, land preparation for the sowing of garlic is advised. Recommended varieties are Gujarat Garlic 3, 4, 7, Gujarat Anand Garlic 6, Yamuna safed, Yamuna safed 3, 5, Gujarat Junagadh Garlic 5, local.
- For management of anthracnose disease in cowpea, it is advised to spray Carbendazim 50% WP 10 g in 10 liters water at the onset of disease in standing crop.

Punjab

Amount of rainfall received over Punjab is 391.7 mm (-18% deficit) during 01 June 2020 - 29 October 2020. The extended range weather forecast provided for next two weeks (30 October - 05 November and 06 - 12 November 2020) on rainfall over Punjab is no rainfall for week-1 and below normal for week-2.

- Under prevailing weather condition, farmers are advised to start the sowing of wheat with varieties Unnat PBW 343, PBW 1 Zinc, PBW 725, PBW 677, HD 3086, WH 1105, PBW 621, HD 2967 and WHD 943 / PDW 291 (durum wheat).
- For the management of mango malformation, it is advised to prune and destroy the malformed shoots and spray Naphthalene Acetic Acid @ 100 g + 100-150 ml alcohol in 500 liters of water per acre.

Madhya Pradesh

Amount of rainfall received over Madhya Pradesh is 1057.6 mm (-2% deficit) during 01 June 2020 - 29 October 2020. The extended range weather forecast provided for next two weeks (30 October - 05 November and 06 - 12 November 2020) on rainfall over Madhya Pradesh is below normal for week-1 and week-2.

- Monitoring of insect-pest and leaf blight disease and false smut diseases is advised in rice crop. Apply recommended fungicide application for the control of diseases.

West Bengal

Amount of rainfall received over West Bengal is 1136.0 mm (-13% deficit) during 01 June 2020 - 29 October 2020. The extended range weather forecast provided for next two weeks (30 October - 05 November and 06 - 12 November 2020) on rainfall over West Bengal is above normal for week-1 and below normal for week-2.

- Prevailing temperature and humid weather conditions are congenial for the spread of thrips and mites in chilli. It is advised to spray Diafenthuron @ 0.75g / litre of water at 7-10 days interval.
- Prevailing weather condition is also congenial, for the spread of sheath blight in Aman rice. To control it is advised to spray Carbendazim @ 1.5 g/litre of water.

Jharkhand

Amount of rainfall received over Jharkhand is 958.8 mm (-15% deficit) during 01 June 2020 - 29

October 2020. The extended range weather forecast provided for next two weeks (30 October - 05 November and 06 - 12 November 2020) on rainfall over Jharkhand is below normal for week-1 and week-2.

- Prevailing weather condition is congenial for cultivation of chickpea. Recommended varieties for Desi (indigenous) gram are Pusa-372, KWR108, KGP-59 and varieties for Kabuli gram are HK-9431, Kak-2 Birsa chana.
- Under prevailing weather condition, land preparation for sowing of rainfed wheat. Recommended varieties are K1317, HD-3171, HI- 1612, Birsa gehun-3.

Odisha

Amount of rainfall received over Odisha is 1303.3 mm (4% excess) during 01 June 2020 - 29 October 2020. The extended range weather forecast provided for next two weeks (30 October - 05 November and 06 - 12 November 2020) on rainfall over Odisha is normal for week-1 and below normal for week-2.

- Prevailing high humid weather condition is favourable for brown plant hopper (BPH) and white backed plant hopper (WBPH) infestation in paddy. It is advised to spray Neem based pesticide (Azadirachtin) 1500 ppm @ 600 ml/acre or Pymetrozine 50% WG @ 120 g/acre or Dinotefuran 20% SG @ 80 g/acre or Flonicamid 50% WG @ 60 g/acre or Triflumezopyrim 10% SC @ 100 ml/acre at the base of the plant.
- For the management of red rot disease in sugarcane, it is advised to spray Carbendazim 12%+ Mancozeb 63 % WP @ 400g/acre or Metalaxyl 8% + Mancozeb 64% WP @ 400 g/acre by mixing it in 200 litres of water.

Assam

Amount of rainfall received over Assam is 2341.1 mm (21% excess) during 01 June 2020 - 29 October 2020. The extended range weather forecast provided for next two weeks (30 October - 05 November and 06 - 12 November 2020) on rainfall over Assam is above normal for week-1 and below normal for week-2.

- Under prevailing weather condition, farmers are advised to start seedbed preparation for raising seedlings of tomato. Recommended varieties are Punjab Chhuhara, Arka Alok, Pusa Rubi, Sioux, Punjab Keshri, Arka Abhijit, BT-1 etc.
- It is also the right time for land preparation for potato crop. Recommended varieties are Kufri Chandramukhi, Kufri Jyoti, Kufri Megha, Kufri Badshah, Kufri Sindhuri etc

Disclaimer:

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