



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

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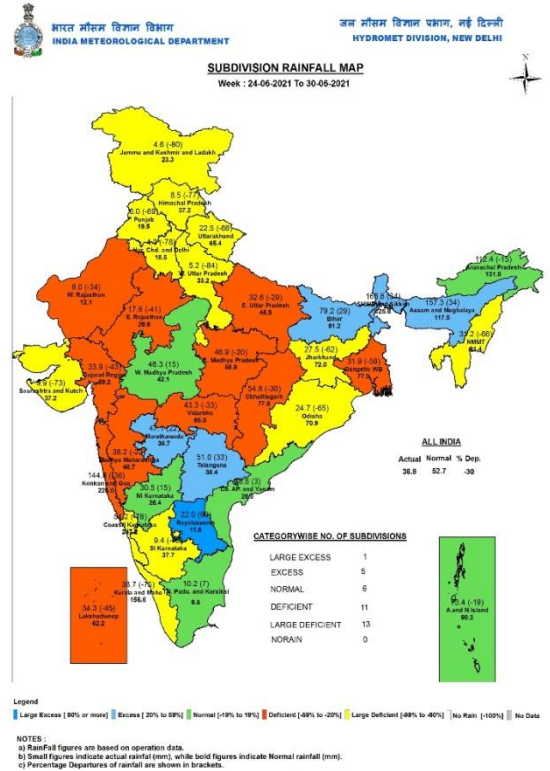
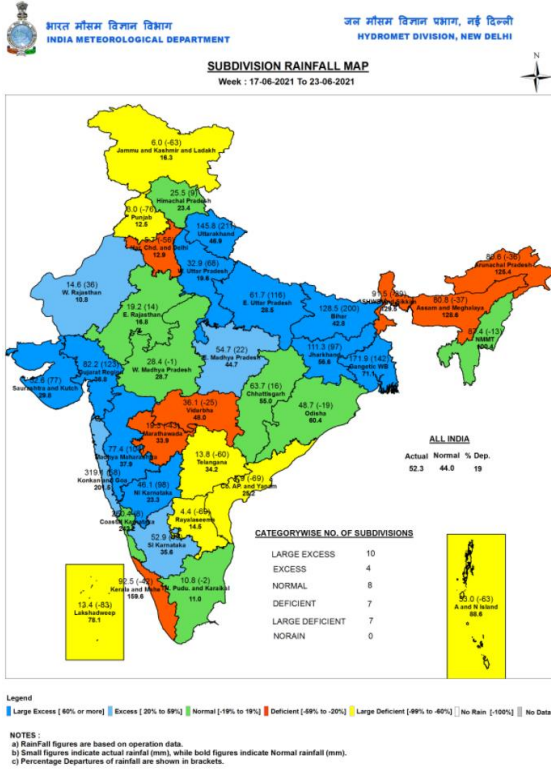
**AICRP on Agro-Meteorology (AICRPAM),
Central Research Institute for Dryland Agriculture (CRIDA),
Indian Council of Agricultural Research (ICAR)**

&

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

Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

Realized Rainfall (17th to 30th June, 2021)



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

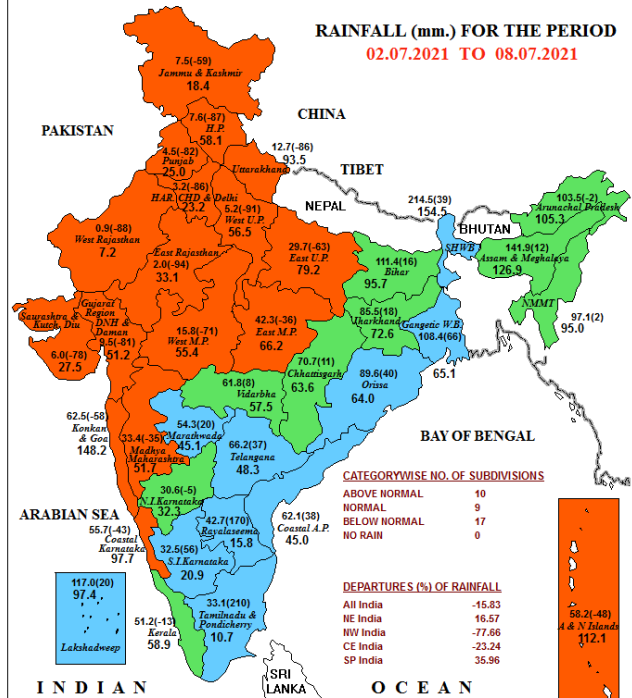
Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC –30 June)

(2nd to 15th July, 2021)

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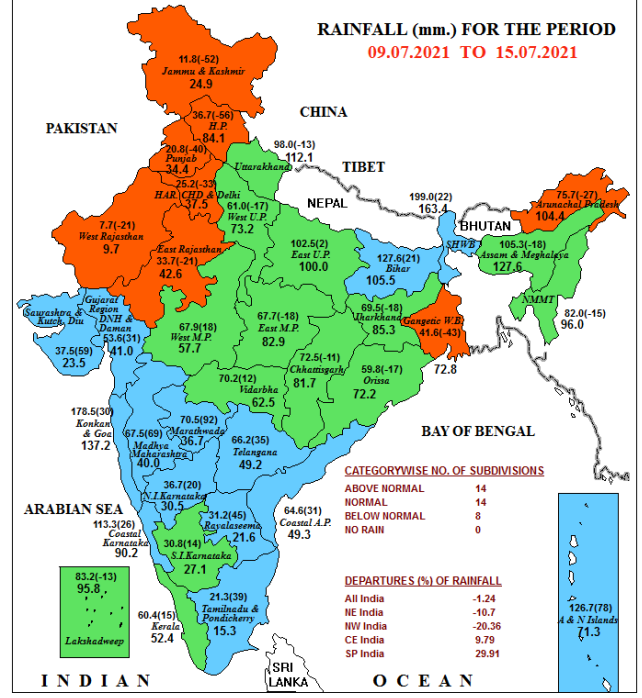
Rainfall Forecast Map - Normal RF Based Categories



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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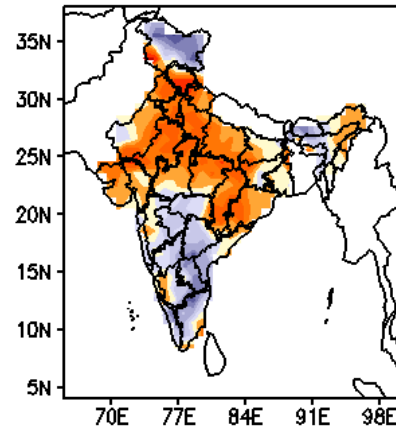
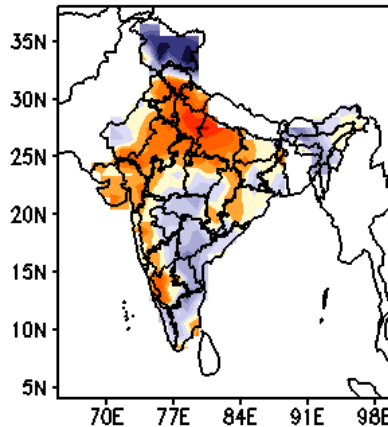
- **Week1(02.07.2021 to 08.07.2021):** Below normal rainfall over Northwest India, Madhya Pradesh, Gujarat, Uttar Pradesh, West coast in week 1. Above normal rainfall is expected over eastern region (Odisha, Chhattisgarh, Gangetic West Bengal, Jharkhand, and Bihar), south eastern coastal belt (Telangana, Coastal Andhra Pradesh, Telangana etc) and adjoining north eastern region.
- **Week 2 (09.07.2021 to 15.07.2021):** Slight improvement of rainfall over central India (particularly the western part of central India), however, it will be below normal over the north eastern, eastern part (Odisha, Chhattisgarh, Gangetic West Bengal, east Madhya Pradesh). Close to normal or slightly below normal rainfall likely in week 2.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 30 June)
(2nd to 15th July, 2021)**

MME forecast Tmax anomaly ($^{\circ}\text{C}$)

(Week1: 02Jul–08Jul)

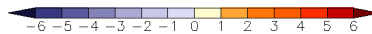
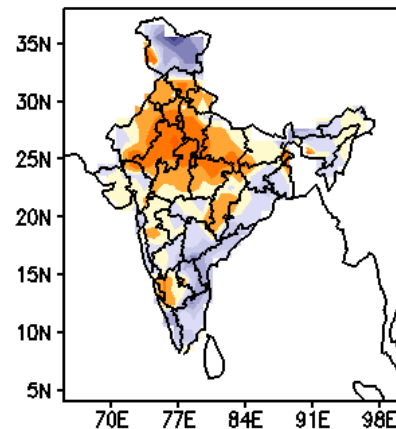
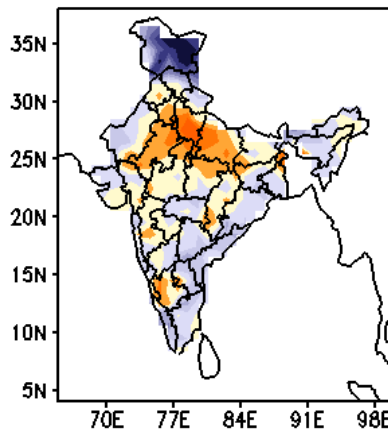
(Week2: 09Jul–15Jul)



MME forecast Tmin anomaly ($^{\circ}\text{C}$)

(Week1: 02Jul–08Jul)

(Week2: 09Jul–15Jul)



Maximum Temperature (Tmax)

- **Week 1 (02.07.2021 to 08.07.2021) and Week 2 (09.07.2021 to 15.07.2021):** Mainly below normal Tmax likely in week 1 and week 2 over south eastern parts of India. However, above normal Tmax likely in Northwest India.

Minimum Temperature (Tmin)

- **Week 1 (02.07.2021 to 08.07.2021) and Week 2 (09.07.2021 to 15.07.2021):** Mostly normal to slightly below normal Tmin patterns over south eastern and north eastern parts of the country. However, Tmin will be above normal over northwest India.

Strategic Agricultural Planning based on rainfall during next two weeks till 15 July 2021

Agro-met Advisories

Kerala

Amount of rainfall received over Kerala is 409.7 mm (-39% deficit) during 01 June 2021 - 01 July 2021. The extended range weather forecast (rainfall) for next two weeks (02 - 08 July 2021 and 09 - 15 July 2021) is normal for week-1 and week-2.

- During the rainy season, there is a chance of soft rot in ginger crop. To control, it is advised to drench the soil with 1% Bordeaux mixture or 0.3% Mancozeb.
- Due to increase in rainfall, proper drainage facilities should be provided to prevent rhizome rot in banana. The incidence of disease can be prevented by applying *Pseudomonas* solution @ 20 g per litre in basal part of the banana plant.

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 65.3 mm (23% excess) during 01 June 2021 - 01 July 2021. The extended range weather forecast (rainfall) for next two weeks (02 - 08 July 2021 and 09 - 15 July 2021) is above normal for week-1 and week-2.

- Prevailing weather condition is favourable for aphids and thrips incidence in chilli. To manage, it is advised to spray Imidacloprid 200 SL @ 100 ml or Methidathion 25 EC 500ml/ha.
- Weather condition is also favourable for mealy bug incidence in Guava and Mango. To manage, it is advised to apply Triozophos 2 ml + Neem oil 5 ml/1 or Phosalone 35 EC 1.5 ml+ Neem oil 5 ml/1 or release *Cryptolaemus montrouzieri* beetles @ 10/tree.

Maharashtra

Rainfall received over Madhya Maharashtra is 203.5 mm (24% excess), Marathwada is 180.5 mm (26% excess), and Vidharbha is 211.1 mm (17% excess) and Konkan region 981.2 mm (35% large excess) during 01 June 2021 - 01 July 2021. The extended range weather forecast (rainfall) for next two weeks (02 - 08 July 2021 and 09 - 15 July 2021) over Konkan and Madhya Maharashtra is below normal, over Vidharbha is normal and Marathwada is above normal for week-1 and over Konkan, Marathwada and Madhya Maharashtra is above normal and normal over Vidharbha for week-2.

Marathwada

- After receiving sufficient rainfall, it is advised to transplant the seedlings of brinjal, tomato, and chilli crops from nursery to the main field.

Vidharbha

- Under prevailing weather condition, sowing of cotton crop is advised with desi cotton varieties AKA-5, AKA-7 and AKA-8, and American varieties AKH-081, AKH-09-5, PKV Rajat and AKH 8828.
- Due to the chances of thunderstorm with lightning and gusty wind, it is advised to keep the farm

animals indoor.

Madhya Maharashtra

- Under sufficient moisture condition, sowing of short duration pulses or cereals like cowpea, green gram, black gram, moth bean, urdbean and bajra is advised.
- For the management of wilt and root rot diseases in pigeonpea, green gram, blackgram, groundnut, soybean, it is advised to treat the seeds with Thiram + Carbendazim @ 2 g/kg or *Trichoderma* @ 5 g/kg and after chemical treatment, treat the seed with *Rhizobium* and PSB @ 25g/kg before sowing.

Konkan

- During the rainy season, there is a possibility of 'Koleroga' disease in arecanut orchard. To prevent, it is advised to spray 1% Bordomixture mixed with sticker during clear weather.
- For the management of stem borer and leaf folder in rice, it is advised to spray Chlorantraniliprole 0.4% granule @ 4 kg or Fipronil 0.3% granule @ 8.3 kg per acre in nursery before transplanting in moist soil.

Hisar

Amount of rainfall received over Hisar is 49.0mm (-4% deficit) during 01 June 2021 - 01 July 2021. The extended range rainfall forecast (rainfall) provided for next two weeks (02 - 08 July 2021 and 09 - 15 July 2021) over Hisar is below normal for week-1 and week-2.

- Due to hot and dry weather condition, farmers are advised to apply light irrigation in planted vegetable crops and fruit plants as per requirement.
- Farmers are also advised to go for sowing of sorghum, maize and lobia as fodder crop.

Karnataka

Rainfall received during 01 June 2021 - 01 July 2021 over South Interior Karnataka is 166.8 mm (11% excess) and North Interior Karnataka is 161.0 mm (46% excess). The extended range weather forecast (rainfall) for next two weeks (02 - 08 July 2021 and 09 - 15 July 2021) over South Interior Karnataka is above normal and North Interior Karnataka is normal for week-1 and normal over South Interior Karnataka and above normal over North Interior Karnataka for week-2.

North Interior Karnataka

- Under prevailing weather condition, sowing of bajra, pigeonpea, groundnut (bunch type), green gram, maize, Bt. cotton, chilli, onion, sesamum, and navane is advised.
- Vaccinate the livestock against Foot and Mouth disease (FMD vaccination), Black Quarter disease (BC vaccination) and *Haemorrhagic septicaemia*.

Uttar Pradesh

Rainfall received during 01 June 2021 - 01 July 2021 over East Uttar Pradesh 205.3 mm (80% large excess) and West Uttar Pradesh is 73.5 mm (-9% deficit). The extended range weather forecast (rainfall) for next two weeks (02 - 08 July 2021 and 09 - 15 July 2021) over East Uttar Pradesh and West Uttar Pradesh is below normal for week-1 and normal over West Uttar Pradesh and East Uttar Pradesh week-2.

Western Uttar Pradesh

- Under prevailing weather condition, farmers are advised to sow short duration rice with recommended varieties N-118, N-80, N-1, N-2, N-97, Pant dhan-12, Barani deep, IR-50, Ratna, HUR-3022 and scented rice varieties viz., T-3, Pusa basmati-1, Pusa sungandh-4 & 5, Malviya sugandh-4 & 3 and Malviya basmati 10 & 9.
- Under prevailing rainy weather condition, farmers are advised to sow *kharif* maize. Recommended varieties of Hybrid are Dakan-107, Malveya-2, JH-3459, Prakash, PSM-5, Pro-303, KH-510, MMH-113 and Composite varieties are Novjoti, Pusa-2, Prabhat and Azad uttam.

Eastern Uttar Pradesh

- Under prevailing weather condition, there is a chance of downy mildew in cucurbits and other vegetables. To prevent, it is advised to spray Mancozeb @ 2g/litre.
- Under prevailing weather condition, sowing of *kharif* vegetables and nursery of brinjal, chillis and cauliflower is advised.

Jammu

Amount of rainfall received over Jammu is 38.6 mm (-51% deficit) during 01 June 2021 - 01 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (02 - 08 July 2021 and 09 - 15 July 2021) on rainfall over Jammu is below normal for week-1 and week-2.

- Due to chances of rainfall, it is advised to postpone the irrigation in vegetable, horticultural crops, fodder crops.
- After receiving sufficient rainfall, transplanting of chilli, tomato and brinjal from nursery to main field is advised.

West Bengal

Amount of rainfall received over West Bengal is 379.9 mm (43% excess) during 01 June 2021 - 01 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (02 - 08 July 2021 and 09 - 15 July 2021) on rainfall over West Bengal is above normal for week-1 and below normal for week-2.

- For the management of pumpkin beetle in bitter gourd, it is advised to apply Fenvalerate 0.4% dust @ 10 kg/ acre.

Odisha

Amount of rainfall received over Odisha is 184.6 mm (-18% deficit) during 01 June 2021 - 01 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (02 - 08 July 2021 and 09 - 15 July 2021) on rainfall over Odisha is above normal for week-1 and normal for week-2.

- For the management of the infestation of Fall army worm, it is advised to treat 1 kg seeds with 4ml Cyantraniliprole 19.8% + Thiamethoxam 19.8% FS.
- Under prevailing weather condition, sowing of pigeon pea crop is advised with varieties PRG-235, PRG 176, VL ARHAR1, and T-Arhar.

Assam

Amount of rainfall received over Assam is 472.9 mm (-9% deficit) during 01 June 2021 - 01 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (02 - 08 July 2021 and 09 - 15 July 2021) on rainfall over Assam is normal for week-1 and week-2.

- Prevailing high humidity and rainy weather condition is congenial for incidence of fruit fly and leaf hopper in gourds. As a preventive measure, it is advised to spray solution of Emmamectin Benzoate @ 4.5g with 100g jaggery mixed in 10 litres of water.
- Under prevailing weather condition, infestation of stem borer may be observed in *kharif* maize. To control, it is advised to apply Fenitrothion 50 EC solution @ 1.0 litre/200-250 litres of water per 7.5 bigha land.

Uttarakhand

Amount of rainfall received over Uttarakhand is 263.1 mm (42% excess) during 01 June 2021 - 01 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (02 - 08 July 2021 and 09 - 15 July 2021) on rainfall over Uttarakhand is below normal for week-1 and normal for week-2.

- To control the insect/pest in cucurbits crops, it is advised to apply sticky trap @ 1 trap /100 m² area in the crop fields.

Chhattisgarh

Amount of rainfall received over Chhattisgarh is 249.5 mm (22% excess) during 01 June 2021 - 01 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (02 - 08 July 2021 and 09 - 15 July 2021) on rainfall over Chhattisgarh is normal for week-1 and week-2.

- Due to chances of rainfall, farmers are advised to go for sowing of rice in nursery beds. Soybean, pigeon pea and maize fields should be provided with proper drainage channel facilities.
- Under prevailing weather condition, need based irrigation and intercultural operations is advised in tomato, brinjal, chilli, okra and other vegetable crops.
- Farmers are also advised to vaccinate the animal to prevent for *Haemorrhagic septicaemia* and black quarter disease.

Gujarat

Amount of rainfall received over Gujarat is 139.1 mm (-7% deficit) during 01 June 2021 - 01 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (02 - 08 July 2021 and 09 - 15 July 2021) on rainfall over Gujarat is below normal for week-1 and above normal for week-2.

- After receiving sufficient rainfall, sowing of groundnut is advised with recommended varieties GG-2, GG-5, GJG-32, GG-20, GJG-22, GG-10, GG-11, GG-12, GJG-17, GJG and HPS1.
- For the management of whiteflies in okra, it is advised to spray Imidacloprid 30.5 SC @ 4 ml/10 litres of water.

Bihar

Amount of rainfall received over Bihar is 367.8 mm (105% large excess) during 01 June 2021 - 01 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (02 - 08 July 2021 and 09 - 15 July 2021) on rainfall over Bihar is normal for week-1 and above normal for week-2.

- Under prevailing rainy weather condition, it is advised to complete the nursery sowing of paddy. Sahbhagi, Prabhat, Dhanlakshmi, Richariya, Saket-4, Rajendra Sweta and Rajendra Bhagwati are early varieties of paddy recommended for North Bihar.
- For the management of leaf feeder and fruit borer pest in summer vegetables, spraying of Dimethoate 30 EC @1-1.5ml/litre of water is advised in clear days.

Rajasthan

Amount of rainfall received over Rajasthan is 56.9 mm (-20% deficit) during 01 June 2021 - 01 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (02 - 08 July 2021 and 09 - 15 July 2021) on rainfall over Rajasthan is below normal for week-1 and week-2.

- Sowing of bajra & moth in western part of Rajasthan is advised. Recommended improved varieties of bajra are HHB-67, Raj-171, ICMH-356, RHB-121, RHB-173, RHB-154 &177 and improved varieties of moth are RMO-257, RMO-225, RMO-425, RMO-423, and RMO-40.

Punjab

Amount of rainfall received over Punjab is 49.9 mm (-8% deficit) during 01 June 2021 - 01 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (02 - 08 July 2021 and 09 - 15 July 2021) on rainfall over Punjab is below normal for week-1 and week-2.

- To protect the fruit plants from intense heat, it is advised to apply frequent irrigations to the fruit bearing and young fruit plants.
- To manage the fruit and shoot borer attack in brinjal crop, it is advised to spray 80 ml Coragen 18.5 SC or 80 g Proclaim 5SG in 100-125 litres of water per acre.

Andhra Pradesh

Amount of rainfall received over Andhra Pradesh is 114.8 mm (58% excess) during 01 June 2021 - 01 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (02 - 08 July 2021 and 09 - 15 July 2021) on rainfall over Andhra Pradesh is above normal for week-1 and week-2.

- After receiving sufficient rainfall in Ananthapuramu and Kurnool districts, farmers are advised to sow castor crop with recommended varieties Haritha, Jyothi, Kranthi, Jwala, GCH-4, DCH-177, DCH-519 and PCH-111.

Disclaimer:

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