

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 18 August 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The monsoon trough is active and lies south of its normal position. Its is very likely to be active and near normal/south of its normal position during next 3-4 days.
- Convergence of strong moist southwesterly winds from the Arabian Sea over plains of northwest India likely to further strengthen during next 24 hours.
- A fresh Low Pressure Area is very likely to form over north Bay of Bengal around 19th August. It is likely to become more marked during the subsequent 24 hours.
- Under the above scenario: (i) Enhance rainfall activity with heavy to very heavy falls very likely over northwest India including Western Himalayan region till 20 August, 2020 and decrease thereafter. Isolated heavy to very heavy with extremely heavy falls likely over East Rajasthan on 18th & 19th August and over Uttarakhand on 18th August, 2020. (ii) Widespread rainfall with isolated heavy to very heavy falls very likely over Gujarat state, Maharashtra State & Goa, Madhya Pradesh, Chhattisgarh, Jharkhand, Odisha and West Bengal during next 3-4 days. (iii) Farly widespread to widespread with isolated heavy to very heavy falls very likely also over Northeastern states during next 3-4 days. Isolated extremely heavy falls likely over Meghalaya on 20th and over Nagaland, Manipur, Mizoram & Tripura on 19th & 20th August, 2020.
- Moderate to severe thunderstorm accompanied with lightning likely at isolated places over Himachal Pradesh, Uttarakhand, Haryana, Chandigarh, Punjab, Rajasthan, Madhya Pradesh during next 12 hours.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hours IST to 1730 hrs IST of yesterday): at most places over Konkan & Goa and Nagaland, Mizoram, Manipur & Tripura; at many places over Uttarakhand, Madhya Pradesh, Gujarat State, Madhya Maharashtra, Vidarbha, Chhattisgarh, Karnataka, Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya; at a few places

over Himachal Pradesh, Gangetic West Bengal, Telangana, Rayalaseema and Kerala & Mahe and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Haryana, Chandigarh & Delhi, East Uttar Pradesh, Bihar, Jharkhand, Odisha, Rajasthan, Marathwada, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal.

- Yesterday, heavy to very heavy rainfall observed at isolated places over Saurashtra & Kutch and Konkan & Goa; heavy rainfall at isolated places over East Madhya Pradesh.
- Thunderstorm observed (0830 hours IST of yesterday to 0530 hrs IST of today): at a few places over isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and at isolated places over Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Haryana, Chandigarh & Delhi, Madhya Pradesh, Gujarat State, Vidarbha and Jharkhand.
- Maximum Temperature Departures as on 17-08-2020: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; at a few places over Himachal Pradesh; at isolated places over East Madhya Pradesh; above normal (1.6°C to 3.0°C) at many places over Uttar Pradesh, Rajasthan and Kerala & Mahe; at isolated places over Gangetic West Bengal, Tamil Nadu, Puducherry & Karaikal and Andaman & Nicobar Islands. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over Vidarbha, Telangana, Arunachal Pradesh and Assam & Meghalaya; at isolated places over Gujarat State; below normal (-1.6°C to -3.0°C) at many places over Marathwada; at a few places over Madhya Maharashtra, Chhattisgarh, Odisha, North Interior Karnataka and Rayalaseema; at isolated places over West Madhya Pradesh and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 41.6°C was reported at Ganganagar (West Rajasthan).
- Minimum Temperature Departures as on 17-08-2020: Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Jammu & Kashmir, Ladakh and Gilgit-Baltistan, Muzaffarabad; at a few places over Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi and SubHimalayan West Bengal & Sikkim and at isolated places over Madhya Maharashtra and Marathwada; above normal (1.6°C to 3.0°C) at most places over West Rajasthan; at many places over Est Rajasthan and East Madhya Pradesh; at a few places over West Madhya Pradesh and Andaman & Nicobar Islands and at isolated places over Uttar Pradesh, Bihar, Gangetic West Bengal, Nagaland, Mizoram, Manipur & Tripura, Lakshadweep and Tamil Nadu, Puducherry & Karaikal. They were

below normal (-1.6°C to -3.0°C) at isolated places over Vidarbha, Odisha and Assam & Meghalaya and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 17.0°C was reported at Medak (Telangana) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 18 August (Day 1): Heavy to very rainfall with extremely heavy falls very likely at isolated places over Uttarakhand West Madhya Pradesh and East Rajasthan; heavy to very heavy rainfall at isolated places over Nagaland, Manipur, Mizoram & Tripura, Haryana, Chandigarh & Delhi, West Uttar Pradesh, West Rajasthan, Gujarat Region, Madhya Maharashtra, Coastal Karnataka and Konkan & Goa and heavy rainfall at isolated places over Jammu & Kashmir, Ladakh and Gilgit-Baltistan, Muzaffarabad, Assam & Meghalaya, West Bengal & Sikkim, Odisha, Jharkhand, East Uttar Pradesh, Himachal Pradesh, East Madhya Pradesh, Saurashtra & Kutch, Vidarbha, Chhattisgarh and Telangana. Thunderstorm accompanied with lightning very likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Uttar Pradesh, Uttarkhand and East Rajasthan. Strong Wind (speed reaching 50-60 gusting 70 kmph) very likely over Southwest, Westcentral Arabian Sea; (speed reaching 45-55 gusting 65 kmph) over Gujarat-Goa-Maharashtra coasts and (speed reaching 40-50 kmph) over Karnataka coasts. Fishermen are advised not to venture into these area.
- 19 August (Day 2): Heavy to very rainfall with extremely heavy falls very likely at isolated places over Nagaland, Manipur, Mizoram & Tripura and East Rajasthan; heavy to very heavy rainfall at isolated places over Gangetic West Bengal, Odisha, West Uttar Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Punjab, West Rajasthan, West Madhya Pradesh, Gujarat Region and Chhattisgarh and heavy rainfall at isolated places over Jammu & Kashmir, Ladakh and Gilgit-Baltistan, Muzaffarabad, Assam & Meghalaya, Himachal Pradesh, Jharkhand, East Uttar Pradesh, East Madhya Pradesh, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra, Vidarbha and Coastal Karnataka. Thunderstorm accompanied with lightning very likely at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Uttar Pradesh and East Rajasthan. Strong Wind (speed reaching 50-60 gusting 70 kmph) very likely over Southwest, Westcentral Arabian Sea; (speed reaching 45-55 gusting 65 kmph) over Gujarat-Goa-Maharashtra coasts and North Bay of Bengal and (speed reaching 40-50 kmph) over North Arabian Sea and Karnataka coasts . Fishermen are advised not to venture into these areas.

- 20 August (Day 3): Heavy to very rainfall with extremely heavy falls likely at a few places over East Rajasthan; at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura; Heavy to very heavy rainfall likely at isolated places over Gangetic West Bengal, Odisha, Jharkhand, Uttarkhand, Madhya Pradesh, Gujarat State, Vidarbha and Chhattisgarh and heavy rainfall at isolated places over Jammu & Kashmir, Ladakh and Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Haryana, Chandigarh & Delhi, Punjab, East Uttar Pradesh, West Rajasthan, Konkan & Goa, Madhya Maharashtra, Marathwada and Coastal Karnataka. Thunderstorm accompanied with lightning likely at isolated places over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Strong Wind (speed reaching 50-60 gusting 70 kmph) likely over North, Southwest & Westcentral Arabian Sea; (speed reaching 45-55 gusting 65 kmph) over North Bay of Bengal and along & off Goa-Maharashtra-Gujarat coasts. Fishermen are advised not to venture into these areas.
- 21 August (Day 4): Heavy to very heavy rainfall likely at isolated places over East Madhya Pradesh, Jharkhand, ghat areas of Madhya Maharashtra and Konkan & Goa and heavy rainfall at isolated places over Assam & Meghalaya. Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, East Rajasthan, Gujarat State, Maharashtra, Vidarbha And Chhattisgarh. Strong Wind (speed reaching 50-60 gusting 70 kmph) likely over North, Southwest & Westcentral Arabian Sea; (speed reaching 45-55 gusting 65 kmph) over along & off Goa-Maharashtra-Gujarat coasts. Fishermen are advised not to venture into these areas.
- 22 August (Day 5): Heavy to very heavy rainfall likely at isolated places over East Madhya Pradesh and heavy rainfall at isolated places over Konkan & Goa, West Madhya Pradesh, Chhattisgarh and Assam & Meghalaya. Strong Wind (speed reaching 50-60 gusting 70 kmph) likely over North, Southwest & Westcentral Arabian Sea; (speed reaching 45-55 gusting 65 kmph) over along & off Goa-Maharashtra-Gujarat coasts. Fishermen are advised not to venture into these areas.
- The weather outlook for seven days i.e., 18 to 26 Aug 2020 forecasted (Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>) rain/thundershower may occur over Some parts of Extreme northern parts of India. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Jammu

Weather condition:

Mainly cloudy weather prevailed during this week with 25.6 mm rainfall in two rainy days. The maximum temperature remain variable and was observed between 33.0 to 37.0 0C while minimum temperature remained above normal by 1 to 4 0C and was in the range of 23.4 to 29.0 0C. The morning and evening relative humidity were observed between 78 to 93 % and 57 to 83 %, respectively. The total evaporation during this week was observed 27.7 mm and bright sunshine in the range of 1.9 to 4.6 hrs per day.

Contingency measure:

- Paddy Establishment/ tillering Farmers are advised to go for applications of 2nd dose of nitrogenous fertilizer as top dressing in normal/early transplanted rice crop. Monitor crop for the attack of sheath blight and brown spot.
- *Kharif* Pulses (moong/mash) Vegetative: Farmer may go for intercultural operations (thinning, weeding, hoeing) at optimum soil moisture condition.
- Maize Knee high/ peak vegetative: Top dress 2nd dose of nitrogen (Urea) during clear weather at optimum soil moisture condition, if the crop is 30-40 days old. *Kharif* mixed fodder Early vegetative Postpone irrigation as well as application of fertilizers due to chances of rain.
- Vegetables: Okra Bitter gourd Bottle gourd Fruiting Fruiting Fruiting Protect the crop from water logging by draining the field. Keep the field weed free. Remove yellow leaf plants as and when seen in field. Train and support the emerging vines on jute wires Monitor crop for the attack of fruit fly. Use pheromone traps @ 1 trap/10sq. m area to trap melon fly. Manual pollination in the evening or morning hours is recommended for maximum production
- Floriculture: Chrysanthemum Marigold Cutting preparation/ Transplanting Sowing/ Transplanting Postpone irrigation as well as application of fertilizers due to chances of rain. Transplanting of Chrysanthemum on raised seed beds for cut/loose flower production is recommended. Nursery preparation under protection is recommended.
- Sericulture: Mulberry: Cocoon crop: Tree plantation Harvested cocoons Postpone irrigation as well as application of fertilizers due to chances of rain. Due to chances of rainfall, mulberry saplings can be transplanted to field area during this period. Weather is also favourable for apical cut at height of 175-180 cm. Cocoons harvested during April month should be loosely packed in muslin cloth bags. The bags should be kept in wire mesh covered racks to avoid rodent attack till sale of the crop.

- Horticulture: Guava/Mango Bearing Young/Bearing: Keep the basin area clean. To control fruit fly in fallen fruits, harvest fruit when hard. Use pheromone traps. Keep the area clean. Continue rainy season plantation. Maintain proper drainage in orchards.
- Mushroom: Milky Mushroom Oyster mushroom: Fruiting: Fruiting Provide sufficient ventilation in the cropping room. Spraying of water should be done only after assessing the water requirement Put the yellow light traps for the management of mushroom flies. Malathion @ 0.01% and chlorothalonil @ 0.05% can be sprayed at weekly interval, if disease and insect incidence is observed.
- Apiculture: Protect bee colonies from rains. Give need based sugar feeding. Inspect colonies on a clear sunny day for infestation of wax moth or other disease. Poultry Water supply should be adequate and add vitamin C in water. Proper ventilation must be maintained at poultry house. Fumigate poultry huts. Maintain hygiene. Birds should not come in direct contact with rain. Use fan in poultry houses due to high humidity. Live stock Provide clean water for drinking to the animals. Give supplementary mineral mixture with 50 gm iodized salt regularly to the milking and pregnant animals. Give vaccination against BQ and HS. Ensure green fodder to the livestock.
- Fisheries Fingerlings: Apply the screen/netting cloth on the outlets/overflows so that fish stock may not escape out during excessive rains. In case of table size fish/last year stock, farmers may go for partial harvesting. Give supplementary feeding (3-5% of total fish biomass on daily basis), Liming & manuring (on monthly interval) should be done.

SAT : INSAT-3D IMG
IMG_TIR1 10.8 um
LIC Mercator

18-08-2020/(0600 to 0627) GMT
18-08-2020/(1130 to 1157) IST

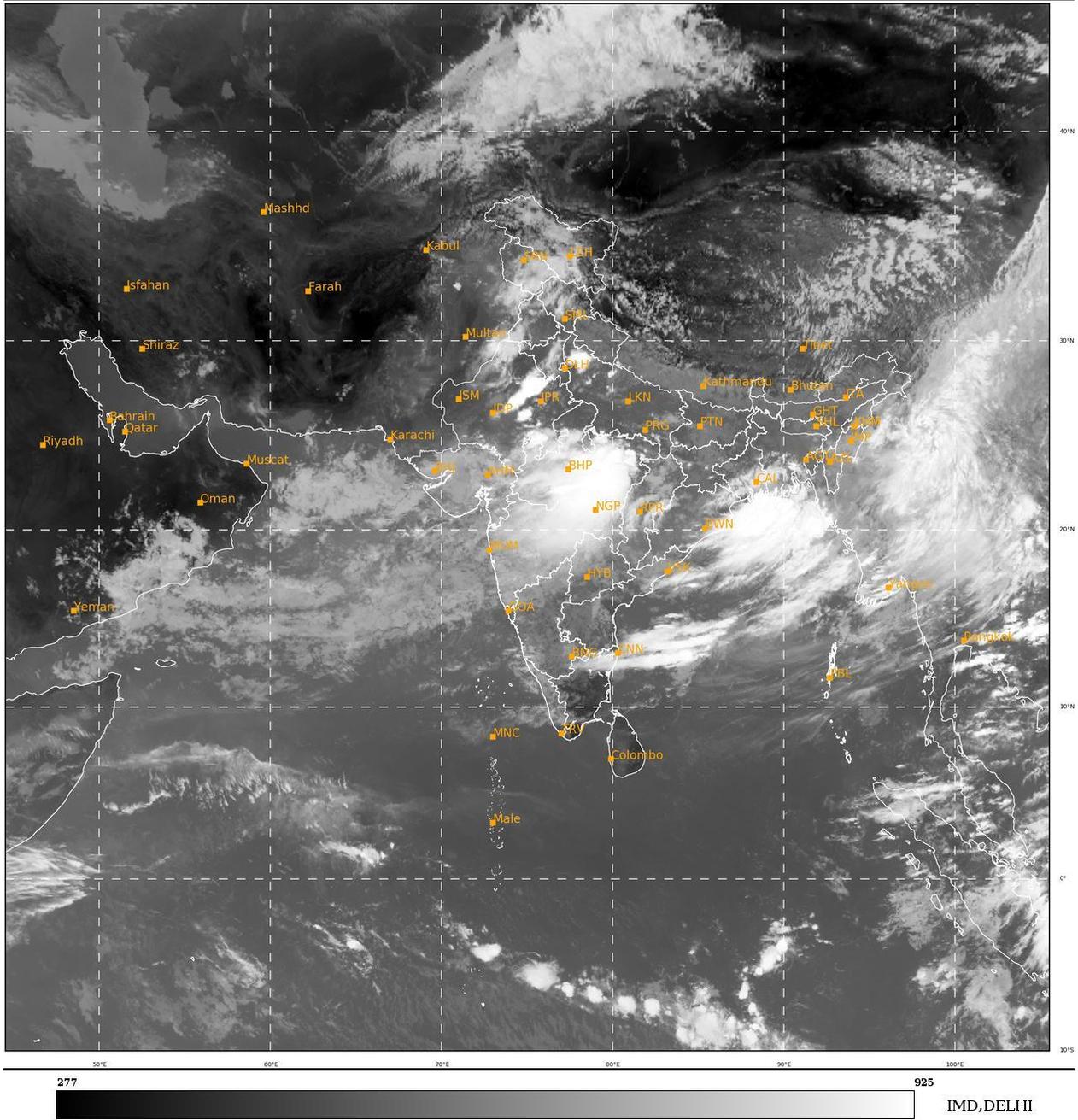


Figure: 1. Latest available satellite picture as on 18 August 2020 at 1157 Hrs (IST). (Source: IMD).

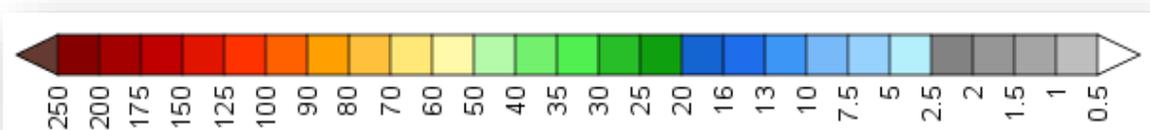
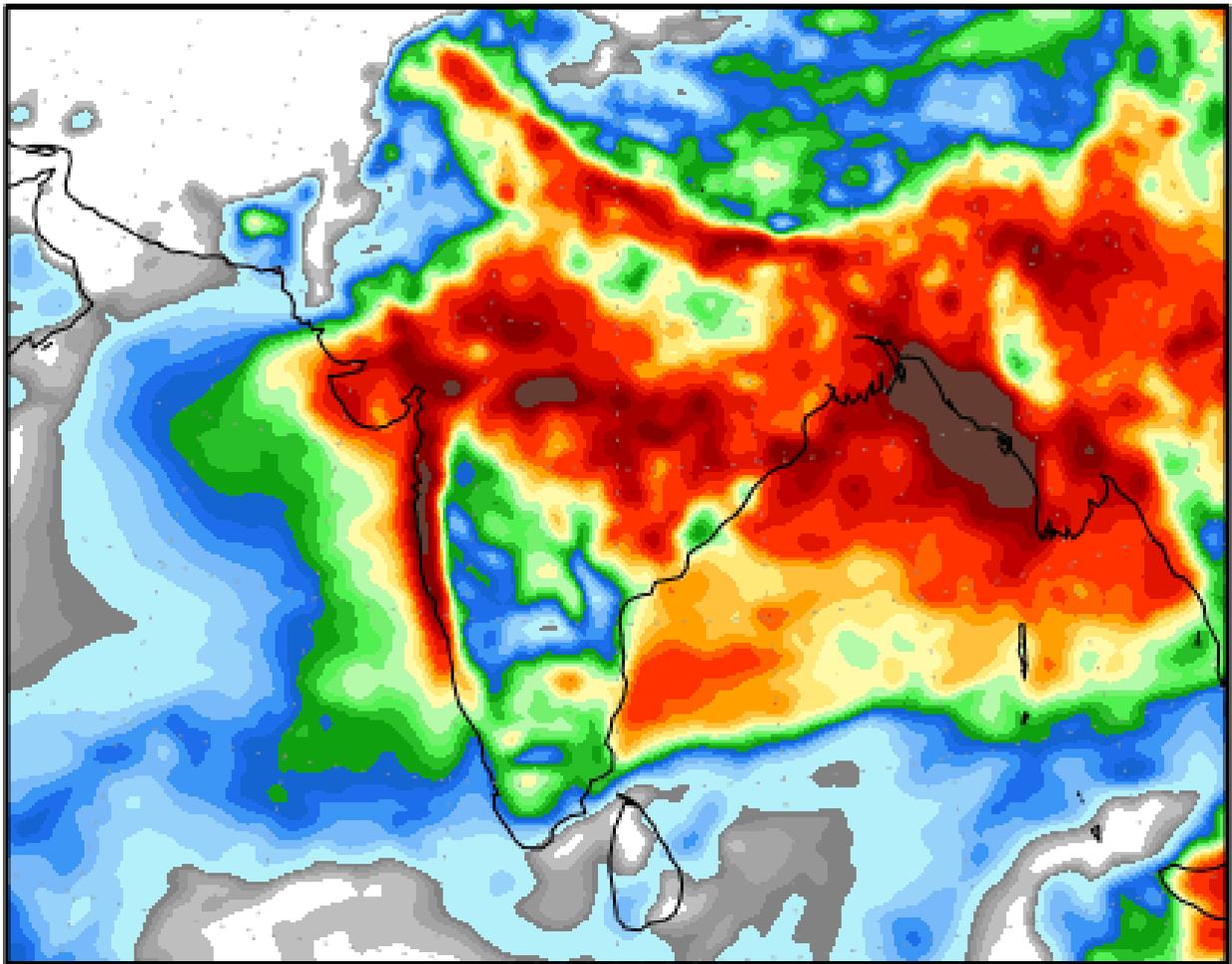


Figure:2. Precipitation forecast for 18 to 26 Aug 2020 (Source: NOAA NCEP).

Disclaimer: The predictability of weather depends on many dynamic factors. The success of Agromet advisories provided here depends on the accuracy of the forecasts. In no event will India Meteorological Department (IMD) and Indian Council of Agricultural Research (ICAR) be liable to the user or any third party for any direct, indirect, incidental, consequential, special or exemplary damages or lost profit resulting from any use or misuse of the information on this bulletin.