

#### Government of India Ministry of Earth Sciences



India Meteorological Department

### PRESS RELEASE-7

### Time of issue: 1330 hours IST

### Dated: 14<sup>th</sup> September, 2024

### Sub: Deep Depression over Gangetic West Bengal and adjoining Bangladesh

Yesterday's well marked low pressure area over northeast Bay of Bengal and adjoining southeast Bangladesh coast moved west-northwestwards and concentrated into a **Depression** over northeast Bay of Bengal close to Bangladesh coast in the same evening (1730 hours IST) of yesterday, the 13th September, 2024. Continuing to move west-northwestwards, it intensified into a **Deep Depression** over Bangladesh and adjoining Gangetic West Bengal in the early morning (0530 hours IST) and lay centred at 0830 hours IST of today, the 14th September 2024, over Gangetic West Bengal and adjoining Bangladesh near latitude 22.9° N and longitude 88.6° E, 50 km northeast of Kolkata (West Bengal), 160 km east-southeast of Bankura (West Bengal), 250 km east of Jamshedpur (Jharkhand) and 340 km east of Ranchi (Jharkhand).

It is likely to continue to move west-northwestwards across Gangetic West Bengal and maintain its intensity of deep depression today, the 14<sup>th</sup> September. Thereafter, it will continue to move west-northwestwards across Jharkhand, north Chhattisgarh and Madhya Pradesh as a depression during subsequent 48 hours.

The deep depression is under continuous surveillance by the Doppler Weather Radar at Kolkata.

Date/Time (IST)	Position (Lat. °N/ Long. °E)	Maximum Sustained Surface Wind	Category Of Cyclonic Disturbance
		Speed (Kmph)	
14.09.24/0830	22.9/88.6	50-60 gusting to 70	Deep Depression
14.09.24/1130	23.0/88.0	50-60 gusting to 70	Deep Depression
14.09.24/1730	23.2/86.9	50-60 gusting to 70	Deep Depression
14.09.24/2330	23.3/85.8	50-60 gusting to 70	Deep Depression
15.09.24/0530	23.4/84.6	45-55 gusting to 65	Depression
15.09.24/1730	23.6/82.5	45-55 gusting to 65	Depression
16.09.24/0530	23.8/80.5	40-50 gusting to 60	Depression
16.09.24/1730	24.0/78.5	35-45 gusting to 55	Depression
17.09.24/0530	24.2/76.5	35-45 gusting to 55	Depression

Forecast track and intensity are given in the following table:

### Warnings:

### (i) Rainfall warning

**Gangetic West Bengal (including Kolkata):** Light to moderate rainfall at most places is very likely with **heavy to very heavy rainfall** at few places over Gangetic West Bengal and **extremely heavy rainfall** at isolated places over south Gangetic West Bengal on 14<sup>th</sup>; **heavy rainfall** at isolated places on 15<sup>th</sup> September.

**Sub-Himalayan West Bengal:** Light to moderate rainfall at most places is very likely with **heavy rainfall** at isolated places on 14<sup>th</sup> September.

**Odisha:** Light to moderate rainfall at most places is very likely with **heavy to very heavy rainfall** at a few places over Odisha and **extremely heavy rainfall** at isolated places over north Odisha on 14<sup>th</sup> and **heavy to very heavy rainfall** at isolated places on 15<sup>th</sup> and **heavy rainfall** at isolated places over Odisha 16<sup>th</sup> September.

**Jharkhand:** Light to moderate rainfall at most places with **heavy to very heavy rainfall** at isolated places and **extremely heavy rainfall** over south Jharkhand on 14<sup>th</sup> &15<sup>th</sup> and **heavy rainfall** at isolated places over Odisha 16<sup>th</sup> September.

**Bihar:** Light to moderate rainfall at most places with **heavy to very heavy rainfall** at isolated places very likely on 14<sup>th</sup> & 15<sup>th</sup> and **heavy rainfall** at isolated places over Odisha 16<sup>th</sup> September.

**Chhattisgarh:** Light to moderate rainfall at most places with **heavy to very heavy rainfall** at a few places on 14<sup>th</sup> & 15<sup>th</sup> and **Extremely very heavy rainfall** over north Chhattisgarh on 15<sup>th</sup> September and **heavy rainfall** at isolated places on 16<sup>th</sup> September.

**East Madhya Pradesh:** Light to moderate rainfall at most places with **heavy to very heavy rainfall** at isolated places on 15<sup>th</sup>; **heavy to very heavy rainfall** at a few places with **Extremely very heavy rainfall** at isolated places over northeast Madhya Pradesh Chhattisgarh on 16<sup>th</sup> September and **heavy to very heavy rainfall** at isolated places on 17<sup>th</sup> September.

**East Uttar Pradesh:** Light to moderate rainfall at most places with **heavy rainfall** at isolated places on 16<sup>th</sup> & 17<sup>th</sup> September.

**West Madhya Pradesh:** Light to moderate rainfall at most places with **heavy rainfall** at isolated places on 17<sup>th</sup> & 18<sup>th</sup> September.

**Mizoram & Tripura:** Light to moderate rainfall at most places is very likely with isolated **heavy rainfall** during 14<sup>th</sup> -16<sup>th</sup> September.

**Assam & Meghalaya:** Light to moderate rainfall at many places is very likely with isolated **heavy rainfall** on 14<sup>th</sup> September.

(ii) Flash Flood Guidance: (Graphics Attached)

### 24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 15-09-2024 :

Moderate to High flash flood risk likely over few watersheds & neighbourhoods of following Met Subdivisions during next 24 hours.

Odisha - Baleshwar, Bhadrak, Deogarh, Jajapur, Kendujhar, Mayurbhanj and Sundargarh districts.

**Gangetic West Bengal** - Bankura, Bardaman, Birbhum, Eastmednipur, Haora, Kolkata, North 24 Pragana, Pashchim Medinipur, Puruliya and South 24 Parganas districts.

**Jharkhand** - Bokaro, Dhanbad, East Singhbhum, Giridih, Hazaribagh, Jamtara, Khunti, Koderma, Ranchi, Saraikela and West Singhbhum districts.

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over area of concern as shown in map due to expected rainfall occurrence in next 24 hours.

### (iii) Wind warning:

Squally wind speed reaching 50-60 kmph gusting to 70 kmph is likely to over north Bay of Bengal and along & off Bangladesh, West Bengal, and north Odisha coasts till night of today, the 14<sup>th</sup> September. It is likely to become 40-50 kmph gusting to 60 kmph till evening of 15<sup>th</sup> September and decrease thereafter.

Squally wind speed reaching 45-55 kmph gusting to 50 kmph likely over Gangetic west Bengal (including Kolkata) and adjoining north Odisha & Jharkhand from night of 14<sup>th</sup> till morning of 15<sup>th</sup> September.

Squally wind speed reaching 40-50 kmph gusting to 60 kmph likely over north Chhattisgarh and adjoining east Madhya Pradesh & southeast Uttar Pradesh from evening of 15<sup>th</sup> till evening of 16<sup>th</sup> September.

### (iv) Sea Condition:

Rough to very rough sea condition is very likely to prevail over north Bay of Bengal and along & off West Bengal-Odisha coasts till today, the 14<sup>th</sup> September.

Rough sea condition is likely to prevail over north Bay of Bengal and along & off West Bengal-Odisha coasts from 15<sup>th</sup> till morning of 16<sup>th</sup> September.

### (iv) Fishermen Warning:

Fishermen are advised not to venture into north Bay of Bengal and along & off Bangladesh, West Bengal, and Odisha coasts till morning of 16<sup>th</sup> September.

# Impact Expected (West Bengal (including Kolkata), Odisha, Bihar, Jharkhand, Chhattisgarh, Bihar, Chhattisgarh, Madhya Pradesh and East Uttar Pradesh, Mizoram, and Tripura due to heavy rainfall)

- ✓ Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- $\checkmark$  Occasional reduction in visibility due to heavy rainfall.
- ✓ Disruption of traffic in major cities and roadways due to water logging in roads and poor visibility due to heavy rain leading to increased travel time and incidents
- ✓ Likely disruption of marine and inland water transportation like small boats and trawlers.
- $\checkmark$  Minor damage to kutcha roads.
- ✓ Possibilities of damage to vulnerable structure.
- ✓ Localized Landslides/Mudslides/landslips/mud slips/land sinks/mud sinks.
- ✓ Damage to horticulture and standing crops in some areas due to inundation and wind.
- ✓ It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

## Action Suggested (West Bengal (including Kolkata), Odisha, Bihar, Jharkhand, Chhattisgarh, Bihar, Chhattisgarh, Madhya Pradesh and East Uttar Pradesh, Mizoram, and Tripura)

- ✓ Fishermen are advised not to venture into north Bay of Bengal from 14th to 16th September morning.
- $\checkmark$  Judicious regulation of surface transports including railways and roadways and onshore/offshore activities.
- $\checkmark$  Check for traffic congestion on your route before leaving for your destination.
- $\checkmark$  Follow any traffic advisories that are issued in this regard.
- $\checkmark$  Avoid going to areas that face the water logging problems often.
- $\checkmark$  Avoid staying in vulnerable structure.

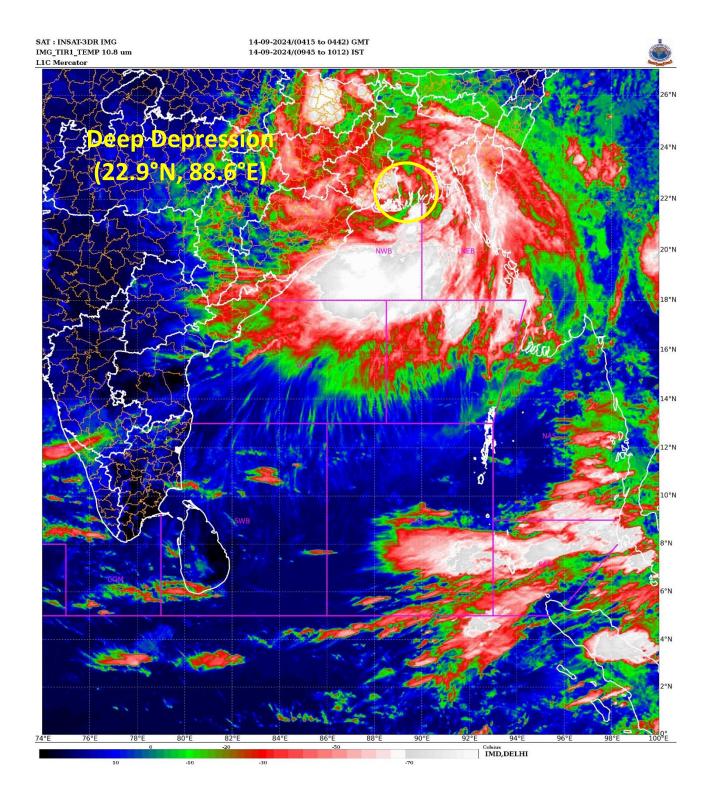
### Agromet advisories for Heavy Rainfall likely over various parts of the country

- $\checkmark$  Provide mechanical support to horticultural crops & staking to vegetables.
- $\checkmark$  Keep the harvested produce at safer place.

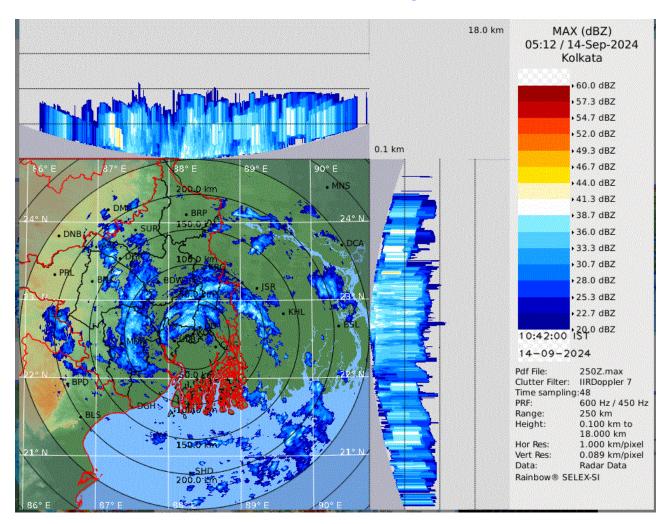
# All associated graphics have been kept in Annexure-I. The 24 hours accumulated realised rainfall ( $\geq 7$ cm) ending at 0830 hours IST of 14<sup>th</sup> September is kept in Annexure-II.

Next Press Release will be issued at 1430 hours IST of tomorrow, the 15<sup>th</sup> September, 2024.

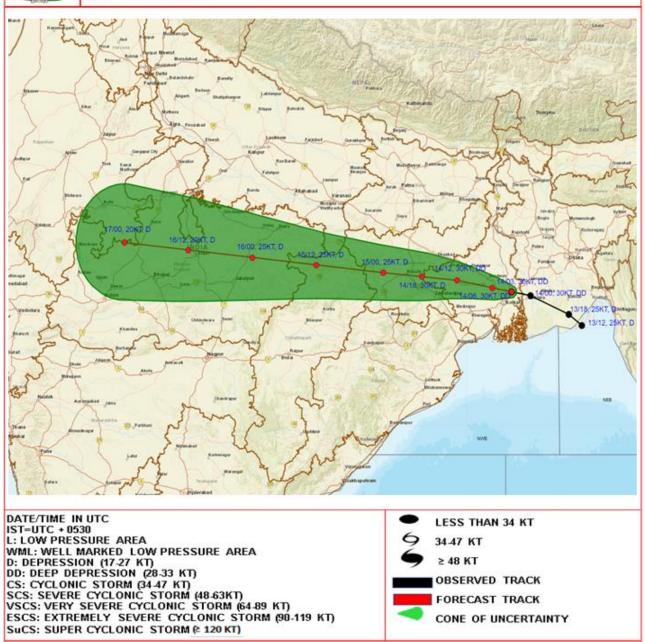
### ANNEXURE – I



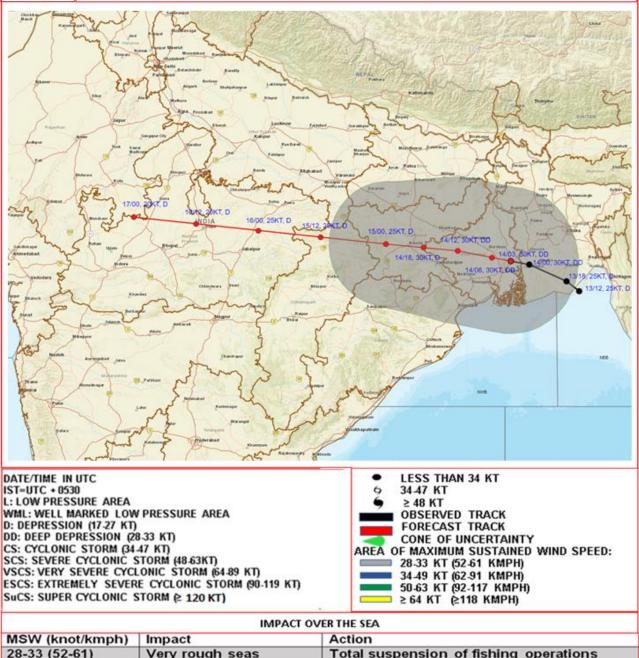
### Kolkata Radar Image



### OBSERVED AND FORECAST TRACK OF DEEP DEPRESSION OVER GANGETIC WEST BENGAL AND ADJOINING BANGLADESH BASED ON 0300 UTC (0830 IST) OF 14<sup>TH</sup> SEPTEMBER, 2024.

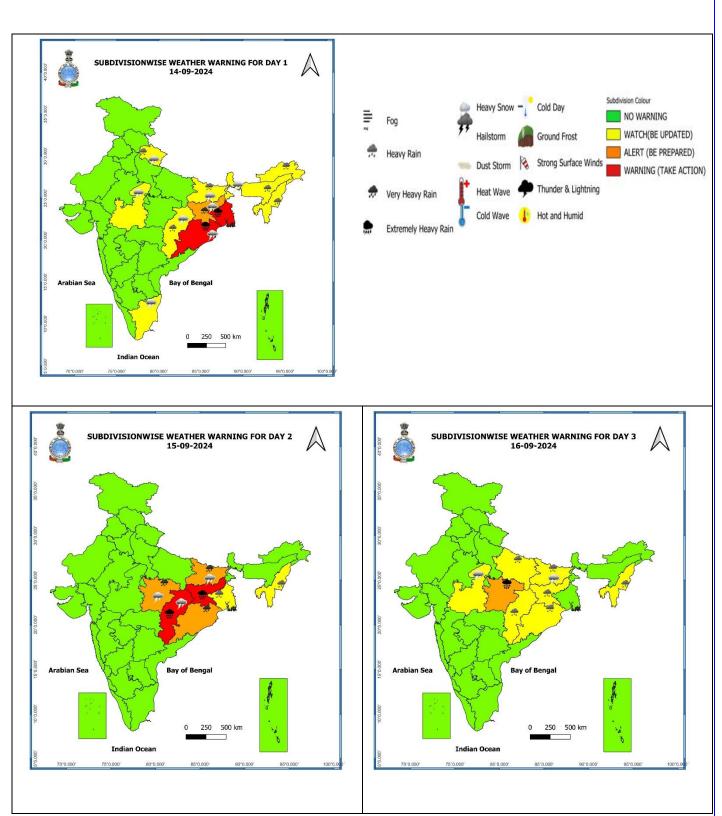


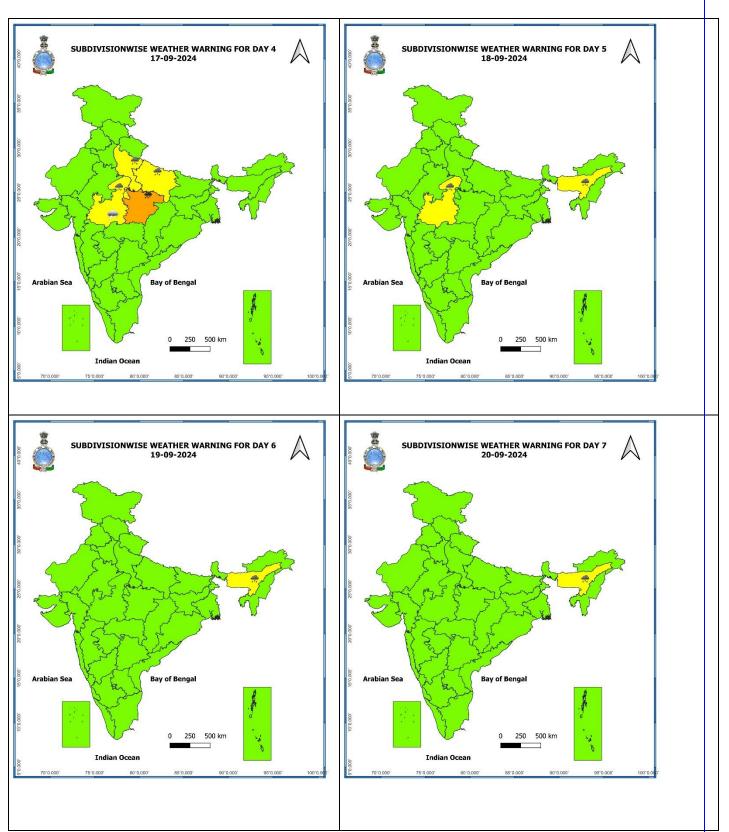




WOVY (KHOU/KIIIPH)	impact	Action
28-33 (52-61)	Very rough seas	Total suspension of fishing operations
34-49 (62-91)	High to very high seas	Total suspension of fishing operations
50-63 (92-117)	Very high seas	Total suspension of fishing operations
≥ 64 (≥118)	Phenomenal	Total suspension of fishing operations

### **Warning Graphics**





• Action may be taken based on **ORANGE AND RED** COLOUR warnings.

- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases

### **Flash Flood Guidance**

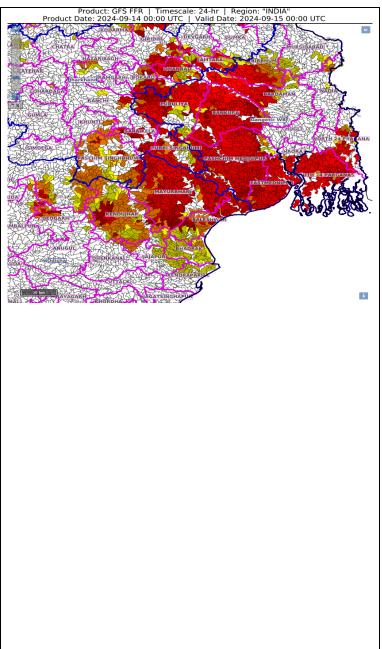
### 24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 15-09-2024 :

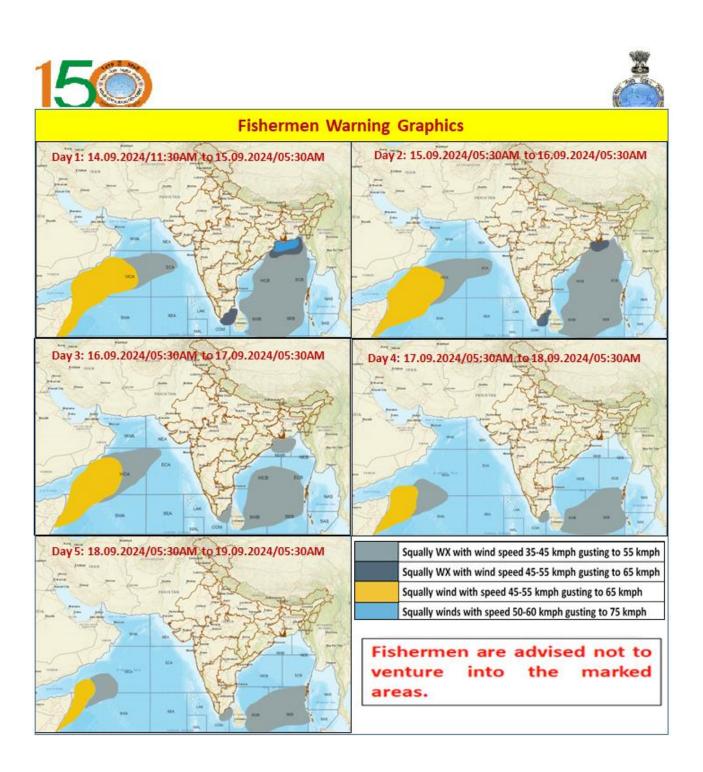
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Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over AoC as shown in map due to expected rainfall occurrence in next 24 hours.





#### ANNEXURE -II

# Significant Rainfall recorded during past 24 hours till 0830 hours IST of today 14.09.2024 (in cm):

- Haryana-Chandigarh: Pataudi (Gurgaon) 21, Nahar Rev (Rewari) 13, Kosli (Rewari) 13, Palhawas Rev (Rewari) 9, Taoru (Nuh) 8, Faridabad (Faridabad) 8, Dadri (Charkhi Dadri) 7, Sohana (Gurgaon) 7, Nuh (Nuh) 7, Bhadkal (Faridabad) 7;
- Gangetic West Bengal: Contai (East Midnapore) 18, Durgachack (East Midnapore) 17, Digha (East Midnapore) 12, Bagati (Hooghly) 11, Sagar Island (South 24 Parganas) 11, Durgapur (Paschim Bardhaman) 10, Diamond Harbour (South 24 Parganas) 9, Panagarh (iaf) (Paschim Bardhaman) 9, Suri (pto) (Birbhum) 9, Jangipur (Murshidabad) 8, Dum Dum (North 24 Parganas) 8, Alipore (Kolkata) 8, Salar (Murshidabad) 8, Suri (cwc) (Birbhum) 8, Basirhat(pt) (North 24 Parganas) 7, Kalyani Smo (Nadia) 7, Berhampore (Murshidabad) 7, Hetampur (Birbhum) 7, Tilpara Barrage (Birbhum) 7, Mo Saltlake (North 24 Parganas) 7, Sri Niketan (Birbhum) 7, Gheropara (Birbhum) 7,
- Uttarakhand: Champawat (Champawat): 18, Haldwani (Nainital): 16, Nainital (Nainital): 15, Lohaghat (Champawat): 11, Pantnagar (Udham Singh Nagar): 9, Pithoragarh (Pithoragarh): 9, Ghansali (Tehri Garhwal): 8, Banbasa (Champawat): 7, Bhagwanpur (Haridwar): 7;
- Odisha: Kusumi (Mayurbhanj) 14, Bhograi (Balasore) 10, Jaleswar (Balasore) 7,
- Bihar: Beldaur (Khagaria) 9, Khaira (Jamui) 9, Lakhisarai (Lakhisarai) 8, Nabinagar (Aurangabad) 8, Halsi (Lakhisarai) 8, Jamui (Jamui) 8, Gogri (Khagaria) 7, Bausi (Banka) 7, Begusarai (Begusarai) 7;
- West Uttar Pradesh: Kasba Tanda (Rampur) 9, Bijnor (Bijnor) 8, Suar (Rampur) 7;
- Himachal Pradesh: Kataula (Mandi) 8, Palampur (Kangra) 7;
- Delhi: Palam (South West Delhi) 8, Aya Nagar (South Delhi) 7, Lodi Road Aws (New Delhi) 7;
- Jharkhand: Giridih Bengbad Kvk Aws (Giridih) 8, Bengabad (Giridih) 8, Sujani (Deoghar) 7, Pakuria (Pakur) 7;
- Chhattisgarh: Surajpur (Surajpur) 7;
- Sub-Himalayan West Bengal: Malda (Malda) 7;
- **East Uttar Pradesh:** Katarniaghat (Bahraich) 7;