HOURLY UPDATE ON CYCLONIC STORM ‘GULAB’

BULLETIN NO. 04

DATE: 26-09-2021
TIME OF ISSUE: 1450 HRS IST

<table>
<thead>
<tr>
<th>DATE/TIME (IST) OF OBSERVATION</th>
<th>BASED ON 26-09-2021 (1430 HRS IST)</th>
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<tbody>
<tr>
<td>LOCATION</td>
<td>THE CYCLONIC STORM ‘GULAB’ (PRONOUNCED AS ‘Gul-Aab’) LAY CENTRED AT 1430 HRS IST OF THE 26TH SEP, 2021 OVER NORTHWEST AND ADJOINING WESTCENTRAL BAY OF BENGAL NEAR LATITUDE 18.4°N AND LONGITUDE 85.3°E, ABOUT 130 KM EAST-NORTHEAST OF KALINGAPATTNUM, 110 KM EAST-SOUTHEAST OF GOPALPUR.</td>
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<td>CURRENT INTENSITY NEAR CENTRE</td>
<td>75-85 KMPH GUSTING TO 95 KMPH</td>
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<td>PAST MOVEMENT</td>
<td>MOVED NEARLY WESTWARDS WITH A SPEED OF 19 KMPH DURING PAST 06 HOURS.</td>
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<td>FORECAST MOVEMENT AND INTENSITY</td>
<td>IT IS LIKELY TO MOVE NEARLY WESTWARDS AND CROSS NORTH ANDHRA PRADSH - SOUTH ODISHA COASTS BETWEEN KALINGAPATNAM &amp; GOPALPUR, AS A CYCLONIC STORM WITH MAXIMUM SUSTAINED WIND SPEED OF 75-85 KMPH GUSTING TO 95 KMPH, BY MID-NIGHT OF TODAY, THE 26TH SEPTEMBER, 2021. THE LANDFALL PROCESS WILL COMMENCE FROM EVENING OF TODAY.</td>
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FORECAST RAINFALL

- **26TH SEP**: LIGHT TO MODERATE RAINFALL AT MOST PLACES WITH HEAVY TO VERY HEAVY FALLS AT A FEW PLACES & AND EXTREMELY HEAVY RAINFALL (≥ 20 CM) AT ISOLATED PLACES VERY LIKELY OVER SOUTH ODISHA AND NORTH COASTAL ANDHRA PRADESH; HEAVY TO VERY HEAVY FALLS AT ISOLATED PLACES IS ALSO LIKELY OVER TELANGANA AND HEAVY FALLS AT ISOLATED PLACES OVER NORTH INTERIOR ODISHA & CHHATTISGARH.

- **27TH SEP**: LIGHT TO MODERATE RAINFALL AT MOST PLACES WITH HEAVY TO VERY HEAVY & EXTREMELY HEAVY RAINFALL (≥ 20 CM) AT ISOLATED PLACES VERY LIKELY OVER SOUTH CHHATTISGARH; HEAVY TO VERY HEAVY FALLS AT ISOLATED PLACES OVER ODISHA, TELANGANA & VIDARBHA AND HEAVY RAINFALL AT ISOLATED PLACES OVER COASTAL WEST BENGAL & NORTH CHHATTISGARH.
| FORECAST WIND SPEED (KMPH) AT THE TIME OF LANDFALL | 75-85 KMPH GUSTING TO 95 KMPH |
| FORECAST STORM SURGE | TIDAL WAVE OF ABOUT 0.5 M HEIGHT ABOVE THE ASTRONOMICAL TIDE LIKELY TO INUNDATE LOW LYING AREAS OF SRIKAKULAM, VIZIANAGARAM, GANJAM DISTRICTS DURING THE TIME OF LANDFALL. |
Cyclonic Storm "GULAB"
18.4°N/85.3°E
Reflectivity imagery from Doppler weather RADAR Vishakhapatnam based on 1421 hrs IST of 26th September 2021.
OBSERVED AND FORECAST TRACK ALONGWITH QUADRANT WIND DISTRIBUTION OF CYCLONIC STORM GULAB OVER NORTHWEST AND ADJOINING WESTCENTRAL BAY OF BENGAL BASED ON 0600 UTC OF 26TH SEPTEMBER, 2021
OBSERVED AND FORECAST TRACK OF CYCLONIC STORM GULAB OVER NORTHWEST AND ADJOINING WESTCENTRAL BAY OF BENGAL BASED ON 0600 UTC OF 26TH SEPTEMBER, 2021
Peak storm surge up to 0.5 m over and above the astronomical tide is noticed at (i) Sompeta and Tekkali of Srikakulam district, Andhra Pradesh and (ii) Brahmapur of Ganjam district, Odisha.
Forecasted Flash Flood Threat (PFFT) Till 1730 IST of 26.09.2021:

Moderate to High Threat very likely over few watersheds and neighborhoods in the Srikakulam, Vizianagaram districts of North Coastal Andhra Pradesh and adjoining Gajapati district of South Odisha Met Subdivisions in next 6 hours.

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over AoC as depicted in map due to the persistence rainfall of Cyclonic Storm “Gulab” in next 6 hours.

24 hours Flash Flood Risk Outlook Till 1130 IST of 27.09.2021:

High Risk likely over few watersheds and neighborhoods of North Coastal Andhra Pradesh and adjoining South Odisha, South Chhattisgarh Met Subdivisions in next 24 hours.

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over AoC as depicted in map due to the expected rainfall of Cyclonic Storm “Gulab” approaching landfall in next 24 hours.