## **DWR CHENNAI CYCLONE BULLETIN**

BULLETIN NO: 36

CYCLONE:Michaung TIME: 09:30 IST

1.     Name of the station     DWR CHENNAI       2.     Date and Time of Observation (UTC)     20231205 / 04:00 UTC       3.     Name of the Cyclone     Michaung       4.     (A) Information about the eye of the Cyclone     no       a) Is the Eye Visible     no       b) Shape of the Eye        c) Diameter of the Eye(km)     nankm / nankm       d) Estimation of centre of the cyclone based on Eye/spiral band observation     15.2097%N,80.2310%E       (B) Other features of the cyclone     48.00km       around the cyclone within 100 Km radius (km)     19.50 dBZ       f) Maximum radar reflectivity (dBZ) in the eye wall/spiral band region, its height (km) and position (azimuth and distance from the radar)     35.50dBZ       g) Maximum reflectivity at any other area (spiral/streamers etc)     30.40km       maximum velocity in eye wall/spiral band region (mps), its height (km) and its position (azimuth and distance from the Radar)     11.40km       i) Maximum velocity in any other area (spiral /streamers / rain shields etc)     29.96m/s       5.     Tendency of the Cyclone     14.46m/s       6) Duration for which the information on movement pertains to     NNE       3) Direction of Movement     NNE       4) Estimated speed of Movement     11.01 kmph	1		
3.     Name of the Cyclone     Michaung       4.     (A) Information about the eye of the Cyclone     no       a) Is the Eye Visible     no       b) Shape of the Eye        c) Diameter of the Eye(km)     nankm / nankm       d) Estimation of centre of the cyclone based on Eye/spiral band observation     15.2097%,80.2310%E       (B) Other features of the cyclone     48.00km       e) Echo top (height 20 dBZ level) of rain bearing clouds around the cyclone within 100 Km radius (km)     19.50 dBZ       f) Maximum radar reflectivity (dBZ) in the eye wall/spiral band region, its height (km) and position (azimuth and distance from the radar)     35.50dBZ       g) Maximum reflectivity at any other area (spiral/streamers etc)     35.50dBZ       h) Maximum radial velocity in eye wall/spiral band region (mps), its height (km) and its position (azimuth and distance from the Radar)     29.96m/s       i) Maximum velocity in any other area (spiral/streamers / rain shields etc)     14.46m/s       o.77km     (326.90deg, 163.40km)       5.     Tendency of the Cyclone     6 hr       1) Intensity[Increasing/Decreasing)     No Change     2) Duration for which the information on movement pertains to       3) Direction of Movement     NNE     4) Estimated speed of Movement     11.01 kmph       6     Any other			
4.     (A) Information about the eye of the Cyclone     no       a) Is the Eye Visible     no       b) Shape of the Eye        c) Diameter of the Eye(km)     nankm / nankm       d) Estimation of centre of the cyclone based on Eye/spiral band observation     15.2097 <sup>®</sup> N,80.2310 <sup>®</sup> E       (B) Other features of the cyclone     48.00km       (B) Other features of the cyclone within 100 Km radius (km)     48.00km       f) Maximum radar reflectivity (dBZ) in the eye wall/spiral band region,its height (km) and position (azimuth and distance from the radar)     19.50 dBZ 2.40 km (350.10deg, 249.10km)       g) Maximum reflectivity at any other area (spiral/streamers etc)     35.50dBZ 1.49km (39.40deg, 207.00km)       i) Maximum velocity in eye wall/spiral band region (mps), its height (km) and its position (azimuth and distance from the Radar)     29.96m/s 3.00km (17.00deg, 187.30km)       j) Maximum velocity in any other area (spiral/streamers / rain shields etc)     14.46m/s 0.77km (326.90deg, 163.40km)       5.     Tendency of the Cyclone     14.46m/s 0.77km (326.90deg, 163.40km)       5.     Tendency of the Cyclone     6 hr       i) Direction of Movement     NNE       4) Estimated speed of Movement     11.01 kmph       4) Estimated speed of Movement     NIL			
a) Is the Eye Visible     no       b) Shape of the Eye			Michaung
b) Shape of the Eye        c) Diameter of the Eye(km)     nankm / nankm       d) Estimation of centre of the cyclone based on Eye/spiral band observation     15.2097%,80.2310°E       (B) Other features of the cyclone     48.00km       e) Echo top (height 20 dBZ level) of rain bearing clouds around the cyclone within 100 Km radius (km)     19.50 dBZ       f) Maximum radar reflectivity (dBZ) in the eye wall/spiral band region,its height (km) and position (azimuth and distance from the radar)     19.50 dBZ       g) Maximum reflectivity at any other area (spiral/streamers etc)     35.50dBZ       h) Maximum radial velocity in eye wall/spiral band region (mps), its height (km) and its position (azimuth and distance from the Radar)     29.96m/s       i) Maximum velocity in any other area (spiral /streamers / rain shields etc)     14.46m/s       0.77km     326.90deg, 163.40km)       5.     Tendency of the Cyclone       1) Intensity(Increasing/Decreasing)     No Change       2) Duration for which the information on movement pertains to     6 hr       3) Direction of Movement     NNE       4) Estimated speed of Movement     11.01 kmph       6.     Any other Significant Feature     NIL	4.		
c) Diameter of the Eye(km)     nankm / nankm       d) Estimation of centre of the cyclone based on Eye/spiral band observation     15.2097 <sup>6</sup> N,80.2310 <sup>6</sup> E       (B) Other features of the cyclone     48.00km       e) Echo top (height 20 dBZ level) of rain bearing clouds around the cyclone within 100 Km radius (km)     48.00km       f) Maximum radar reflectivity (dBZ) in the eye wall/spiral band region, its height (km) and position (azimuth and distance from the radar)     19.50 dBZ 2.40 km       g) Maximum reflectivity at any other area (spiral/streamers etc)     35.50dBZ 1.49km (39.40deg, 207.00km)       h) Maximum radial velocity in eye wall/spiral band region (mps), its height (km) and its position (azimuth and distance from the Radar)     29.96m/s 3.00km (17.00deg, 187.30km)       i) Maximum velocity in any other area /streamers / rain shields etc)     14.46m/s 0.77km (326.90deg, 163.40km)       5.     Tendency of the Cyclone     0.77km (326.90deg, 163.40km)       5.     Tendency of the Cyclone     0.71km (326.90deg, 163.40km)       7.     Duration for which the information on movement pertains to     6 hr       9.     Direction of Movement     NNE       4) Estimated speed of Movement     11.01 kmph       6.     Any other Significant Feature     NIL			no
d) Estimation of centre of the cyclone based on Eye/spiral band observation     15.2097%N,80.2310%E       (B) Other features of the cyclone     48.00km       (B) Other features of the cyclone within 100 Km radius (km)     48.00km       f) Maximum radar reflectivity (dBZ) in the eye wall/spiral band region, its height (km) and position (azimuth and distance from the radar)     19.50 dBZ 2.40 km (350.10deg, 249.10km)       g) Maximum reflectivity at any other area (spiral/streamers etc)     35.50dBZ 1.49km (39.40deg, 207.00km)       h) Maximum radial velocity in eye wall/spiral band region (mps), its height (km) and its position (azimuth and distance from the Radar)     29.96m/s 3.00km (17.00deg, 187.30km)       i) Maximum velocity in any other area /streamers / rain shields etc)     0.77km (326.90deg, 163.40km)       5.     Tendency of the Cyclone       1) Intensity(Increasing/Decreasing)     No Change       2) Duration for which the information on movement pertains to     6 hr       3) Direction of Movement     NNE       4) Estimated speed of Movement     NNE       6.     Any other Significant Feature     NIL			
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e)Echo top (height 20 dBZ level) of rain bearing clouds around the cyclone within 100 Km radius (km)48.00kmf)Maximum radar reflectivity (dBZ) in the eye wall/spiral band region, its height (km) and position (azimuth and distance from the radar)19.50 dBZ 2.40 km (350.10deg, 249.10km)g)Maximum reflectivity at any other area (spiral/streamers etc)35.50dBZ 1.49km (39.40deg, 207.00km)h)Maximum radial velocity in eye wall/spiral band region (mps), its height (km) and its position (azimuth and distance from the Radar)29.96m/s 3.00km (17.00deg, 187.30km)i)Maximum velocity in any other area (spiral /streamers / rain shields etc)14.46m/s 0.77km (326.90deg, 163.40km)5.Tendency of the CycloneNo Change1)Intensity(Increasing/Decreasing)No Change2)Duration for which the information on movement pertains to6 hr3)Direction of MovementNNE4)Estimated speed of Movement11.01 kmph6.Any other Significant FeatureNIL		·	15.2097 <sup>0</sup> N,80.2310 <sup>0</sup> E
e)Echo top (height 20 dBZ level) of rain bearing clouds around the cyclone within 100 Km radius (km)48.00kmf)Maximum radar reflectivity (dBZ) in the eye wall/spiral band region, its height (km) and position (azimuth and distance from the radar)19.50 dBZ 2.40 km (350.10deg, 249.10km)g)Maximum reflectivity at any other area (spiral/streamers etc)35.50dBZ 1.49km (39.40deg, 207.00km)h)Maximum radial velocity in eye wall/spiral band region (mps), its height (km) and its position (azimuth and distance from the Radar)29.96m/s 3.00km (17.00deg, 187.30km)i)Maximum velocity in any other area (spiral /streamers / rain shields etc)14.46m/s 0.77km (326.90deg, 163.40km)5.Tendency of the CycloneNo Change1)Intensity(Increasing/Decreasing)No Change2)Duration for which the information on movement pertains to6 hr3)Direction of MovementNNE4)Estimated speed of Movement11.01 kmph6.Any other Significant FeatureNIL		(B) Other features of the cyclone	
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1)     Intensity(Increasing/Decreasing)     No Change       2)     Duration for which the information on movement pertains to     6 hr       3)     Direction of Movement     NNE       4)     Estimated speed of Movement     11.01 kmph       6.     Any other Significant Feature     NIL			0.77km
2) Duration for which the information on movement pertains to6 hr3) Direction of MovementNNE4) Estimated speed of Movement11.01 kmph6. Any other Significant FeatureNIL	5.	Tendency of the Cyclone	
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4) Estimated speed of Movement11.01 kmph6.Any other Significant FeatureNIL		pertains to	<mark>6</mark> hr
6. Any other Significant Feature NIL		3) Direction of Movement	NNE
6. Any other Significant Feature NIL		4) Estimated speed of Movement	11.01 kmph
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	7.	Confidence	GOOD

## OFFICER INCHARGE DWR Chennai









