

**APPENDIX-IV**  
**WEATHER WARNING – CYCLONE WARNINGS**

1 **Weather Warning Message:** Arrangements exist with the Meteorological Department, Government of India for issuing messages of warning and also through fax and e-mail, whenever storm/gales or heavy rainfall are expected. The following are conditions under which warnings are issued.

- a) Amount of rainfall considered dangerous – 5 centimeters and above in 24 hours
- b) Wind velocity considered dangerous – 65 kms and above per hour
- c) Period when warning will be given – throughout the year

1.1 **Terminology Used in Meteorological Bulletins regarding Cyclones:**

**a) Cyclones:**

| Type of Dimension          | Associated wind speed |         |
|----------------------------|-----------------------|---------|
|                            | Knots                 | KMPH    |
| Low Pressure Area          | less than 17          | 30      |
| Depression                 | 17-27                 | 30-50   |
| Deep Depression            | 28-33                 | 50-64   |
| Cyclonic Storm             | 34-47                 | 65-90   |
| Severe Cyclonic Storm      | 48-63                 | 90-120  |
| Very Severe Cyclonic Strom | 64-119                | 120-220 |
| Super Cyclonic Strom       | > 120                 | > 220   |
| ( 1 Knot = 1.85 KMPH )     |                       |         |

**b) Intensity of Precipitation:** Rainfall amount (in cm)-Description

|             |                   |
|-------------|-------------------|
| Less than 1 | Light rain        |
| 1 to 3      | Moderate rain     |
| 4 to 6      | Rather heavy rain |
| 7 to 12     | Heavy rain        |
| 13 & above  | Very heavy rain   |

**c) Spatial Distribution:** The area over which the phenomenon like rainfall is expected to occur.

|                                    |  |
|------------------------------------|--|
| Isolated (at one or two places)    | 25% or less of the total area under consideration. |
| At few places (scattered)          | between 25% & 50% of the total area.               |
| At many places (fairly widespread) | between 50% & 75% of the total area.               |
| At most places (widespread)        | more than 75% of the total area.                   |

1.2 **Normal Weather Warnings:** Conveying messages by Indian Meteorological Department.

a. The entire South Central Railway has been divided into 7 zones as per drawing appended in Annexure 'B'. A list showing these zones, the railway officials to whom messages will be addressed and the offices of the Meteorological Department which will issue the weather warning messages is appended in Annexure 'A'.

b) Weather warning messages will be classified as "XXW" (Weather Warning) or '000' (Weather immediate). These messages will be normally delivered by the BSNL office direct to the Central Control office / S.C.Railway / Secunderabad and Divisional Control Offices concerned. Liaison should be kept with local BSNL authorities for the receipt of messages over phone to avoid transit delay in actual delivery of the message.

c) State Meteorological Centres function at Hyderabad for Andhra Pradesh State, at Bangalore for Karnataka State and at Mumbai for Maharashtra State. In addition,