

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,

Cyclone Warning Centre has been established at Visakhapatnam. Weather warning messages will emanate from:

- i. Regional Meteorological Centre, Colaba Bombay for Zone I.
 - ii. State Meteorological Centre, Hyderabad Air Port, Hyderabad for Zones II, III and IV.
 - iii. Cyclone warning centre, Andhra University Campus, Visakhapatnam for zones V & VI.
 - iv. State Meteorological Centre, H.A.L. Air Port, Bangalore for Zone VII.
- d) The Cyclone Warning Centre, Visakhapatnam will give the adverse weather warning messages on depressions and cyclonic storms coming from Bay of Bengal and storms are still at Sea, for the coastal area of Andhra Pradesh.
- e) Long distance telephone calls will not be resorted to normally, but on special occasions this mode of communication may be utilized by the Forecasting Officer at his discretion.

1.3 **Dissemination of Messages within Railway:** On receipt of Weather / Cyclone warning message in the Control office, the following action should be taken.

- a) **Central Control, Rail Nilayam, Secunderabad - 500 071.** The Chief Controller shall give the copy of message to all controls i.e. Engineering Control, Traction Power Control, Traction Loco Control, Power (Diesel) Control, Security Control, Commercial Control, Electrical Control, Test Room and Divisional Control office concerned. It is the responsibility of these controls in their turn, to inform the Officers, Supervisors and all concerned pertaining to their departments for taking necessary steps to be in readiness for meeting any eventualities. They should record the names and designation with the time and date to whom the message has been repeated.

He should also verify with the Divisional Control that such weather / cyclone warning messages received by him have also been received by the Divisional Chief Controllers of the concerned divisions, so that lapses can be remedied then and there.

- b) **Action by the Divisional Control Office:** The Chief Controller shall give the copy of message to all controls i.e. Engineering Control, Traction Power Control, Traction Loco Control, Power (Diesel) Control, Security Control, Commercial Control, Electrical Control and Test Room. It is the responsibility of these controls in their turn, to inform the Officers, Supervisors and all concerned pertaining to their departments for taking necessary steps to be in readiness for meeting any eventuality. They should record the names and designation with the time and date to whom the message has been repeated.

The Section Controller shall repeat the message to Station Masters on section likely to be affected and record the names of Station Masters on duty to whom the message has been repeated.

Note: In respect of sections which are not controlled or when the control phone is interrupted, an 'XXR' (immediate) message should be issued by the Chief Controller or in his absence by the Dy. Chief Controller to the Officials referred above.

The preamble of the weather/cyclone warning message and the text as received from the Meteorological Department should be reproduced verbatim in the text of the XXR message, the text of the message should be worded as shown below:

Regional Meteorological Centre(here enter the name of the Meteorological Centre) XXW/000 (insert whichever class is used by the Meteorological Department) message coded(insert code time of the original message) dated.....(date of the original message) reads(reproduce the text of the meteorological message verbatim).