

TROPICAL CYCLONE ADVISORY
RSMC – TROPICAL CYCLONES, NEW DELHI

TROPICAL STORM '**PHAILIN**' ADVISORY NO. FOURTEEN ISSUED AT 0600 UTC OF 11TH OCTOBER 2013 BASED ON 0300 UTC CHARTS OF 11TH OCTOBER.

THE VERY SEVERE CYCLONIC STORM, **PHAILIN** OVER EAST CENTRAL BAY OF BENGAL REMAINED STATIONERY AND LAY CENTRED AT 0300 UTC OF 11TH OCTOBER 2013 NEAR LATITUDE 16.0°N AND LONGITUDE 88.5°E, ABOUT 520KM SOUTH-SOUTHEAST OF PARADIP (42976), 530KM SOUTHEAST OF GOPALPUR (43049), AND 530KM EAST-SOUTHEAST OF KALINGAPATNAM (43105). IT WOULD MOVE NORTHWESTWARDS AND CROSS NORTH ANDHRA PRADESH AND ODISHA COAST BETWEEN KALINGAPATNAM AND PARADIP, CLOSE TO GOPALPUR (ODISHA) BY EVENING OF 12TH OCTOBER, 2013 AS A VERY SEVERE CYCLONIC STORM WITH A MAXIMUM SUSTAINED WIND SPEED OF 205-215 KMPH.

ACCORDING TO SATELLITE IMAGERIES, THE INTENSITY OF THE SYSTEM IS T 6.0. INTENSE TO VERY INTENSE CONVECTION IS SEEN OVER EAST CENTRAL BAY AND ADJOINING NORTH ANDAMAN SEA ISLANDS AND AREA BETWEEN LAT 14.0°N TO 17.0°N AND LONG 87.0°E TO 90.0°E. THE ASSOCIATED CONVECTION HAS INCREASED GRADUALLY WITH RESPECT TO ORGANISATION DURING PAST 03 HRS. THE LOWEST CLOUD TOP TEMPERATURE (CTT) IS ABOUT -81°C. THE SYSTEM IS EYE PATTERN. EYE IS CIRCULAR WITH DIAMETER OF ABOUT 15 KM. EYE TEMP MINUS 6 DEG C

MAXIMUM SUSTAINED SURFACE WIND SPEED IS ESTIMATED TO BE ABOUT 100 KNOTS GUSTING TO 110 KNOTS AROUND THE SYSTEM CENTRE. THE STATE OF THE SEA IS PHENOMENAL AROUND THE SYSTEM CENTRE. THE ESTIMATED CENTRAL PRESSURE IS ABOUT 940 HPA.

BASED ON LATEST ANALYSIS WITH NWP MODELS AND OTHER CONVENTIONAL TECHNIQUES, ESTIMATED TRACK AND INTENSITY OF THE SYSTEM ARE GIVEN IN THE TABLE BELOW:

DATE/TIME(UTC)	POSITION (LAT. °N/ LONG. °E)	SUSTAINED MAXIMUM SURFACE WIND SPEED (KMPH)	CATEGORY
11-10-2013/0300	16.0/88.5	200-210 GUSTING TO 225	VERY SEVERE CYCLONIC STORM
11-10-2013/0600	16.4/88.0	205-215 GUSTING TO 230	VERY SEVERE CYCLONIC STORM
11-10-2013/1200	17.0/87.2	210-220 GUSTING TO 235	VERY SEVERE CYCLONIC STORM
11-10-2013/1800	17.4/86.5	210-220 GUSTING TO 235	VERY SEVERE CYCLONIC STORM
12-10-2013/0000	17.9/85.8	210-220 GUSTING TO 235	VERY SEVERE CYCLONIC STORM
12-10-2013/1200	19.2/85.0	210-220 GUSTING TO 235	VERY SEVERE CYCLONIC STORM
13-10-2013/0000	20.2/84.5	90-100 GUSTING TO 110	CYCLONIC STORM
13-10-2013/1200	21.2/84.2	50-60 GUSTING TO 70	DEEP DEPRESSION
14-10-2013/0000	22.2/83.8	40-50 GUSTING TO 60	DEPRESSION

REMARKS:

THE UPPER TROPOSPHERIC RIDGE RUNS ALONG 20°N AND IS PROVIDING POLEWARD OUT FLOW. PHAILIN IS TRACKING ALONG THE SOUTHERN PERIPHERY OF THE SUB-TROPICAL RIDGE LYING IN THE NORTHEAST SECTOR. THE UPPER LEVEL DIVERGENCE IS FAVOURABLE FOR INTENSIFICATION. THE LOW LEVEL CONVERGENCE ALONG WITH LOW LEVEL RELATIVE VORTICITY HAS INCREASED DURING PAST 06 HOURS.. THE SEA SURFACE TEMPERATURE IS ABOUT 28-29°C AND OCEAN THERMAL ENERGY IS ABOUT 80-100 KJ/CM SQUARE. THE VERTICAL WIND SHEAR OF HORIZONTAL WIND HAS DECREASED AND IS ABOUT 5-10 KNOTS (LOW). THE MADDEN JULLIAN OSCILLATION (MJO) INDEX IS IN PHASE 6 WITH AMPLITUDE GREATER THAN 1. NWP MODELS SUGGEST THAT MJO WOULD MOVE TO PHASE 7 DURING NEXT 3 DAYS.

MOST OF THE NWP MODELS SUGGEST NORTHWESTWARD MOVEMENT DURING NEXT 48 HRS TOWARDS NORTH ANDHRA PRADESH AND ODISHA COAST AND ITS LIKELY LANDFALL BETWEEN KALINGAPATNAM AND PARADIP NEAR GOPALPUR BY EVENING OF 12TH OCTOBER.. IMD'S

DYNAMICAL STATISTICAL MODEL SUGGESTS FURTHER INTENSIFICATION OF THE SYSTEM
 CURRENT FORECAST IS BASED ON CONSENSUS NWP AND DYNAMICAL STATISTICAL GUIDANCE
 AND SYNOPTIC ANALYSIS.

