



**REGIONAL SPECIALISED METEOROLOGICAL CENTRE-TROPICAL CYCLONES, NEW DELHI**

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**DEMS-RSMC SPECIAL TROPICAL CYCLONES NEW DELHI DATED 12.05.2022**

**SPECIAL TROPICAL WEATHER OUTLOOK FOR NORTH INDIAN OCEAN (THE BAY OF BENGAL AND ARABIAN SEA) VALID FOR NEXT 120 HOURS ISSUED AT 0200 UTC OF 12.05.2022 BASED ON 0000 UTC OF 12.05.2022.**

**SUB: DEEP DEPRESSION (REMNANT OF CYCLONIC STORM 'ASANI') WEAKENED INTO A DEPRESSION OVER ANDHRA PRADESH COAST**

THE DEEP DEPRESSION (REMNANT OF CYCLONIC STORM 'ASANI') OVER COASTAL ANDHRA PRADESH REMAINED PRACTICALLY STATIONARY DURING LAST 06 HOURS AND WEAKENED INTO A DEPRESSION OVER THE SAME REGION AT 0000 UTC OF 12<sup>TH</sup> MAY 2022, NEAR LATITUDE 16.2°N AND LONGITUDE 80.9°E, CLOSE TO WEST OF MACHILIPATNAM (43185).

IT IS LIKELY TO HOVER AROUND THE SAME REGION AND WEAKEN FURTHER INTO A WELL MARKED LOW PRESSURE AREA DURING NEXT 12 HOURS.

INSAT-3D IMAGERY BASED ON 0000UTC OF 12<sup>TH</sup> MAY 2022 INDICATES BROKEN LOW AND MEDIUM CLOUDS WITH EMBEDDED INTENSE TO VERY INTENSE CONVECTION OVER RAYALSEEMA, COASTAL ANDHRA PRADESH & EAST OF KARNATAKA. MINIMUM CLOUD TOP TEMPERATURE IS MINUS 93 DEG C AND SCATTERED MODERATE TO INTENSE CONVECTION OVER NORTH COASTAL ANDHRA PRADESH AND WESTCENTRAL BAY OF BENGAL OFF ANDHRA PRADESH COAST.

THE ESTIMATED MAXIMUM SUSTAINED WIND SPEED IS 25 KNOTS GUSTING TO 35 KNOTS. THE SEA CONDITION IS VERY ROUGH TO ROUGH OVER WESTCENTRAL BAY OF BENGAL. THE ESTIMATED CENTRAL PRESSURE IS 998 HPA.

**REMARKS:**

SEA SURFACE TEMPERATURE (SST) IS AROUND 29<sup>0</sup>C OVER WESTCENTRAL BOB ALONG & OFF ANDHRA PRADESH. THE OCEAN HEAT CONTENT (OHC) IS >100 KJ/CM<sup>2</sup> OVER WESTCENTRAL & SOUTH BAY OF BENGAL (BOB) BECOMING 50-70 KJ/CM<sup>2</sup> OVER NORTHWEST BOB & ALONG & OFF ANDHRA PRADESH & ODISHA COASTS AND ADJOINING WESTCENTRAL BOB.

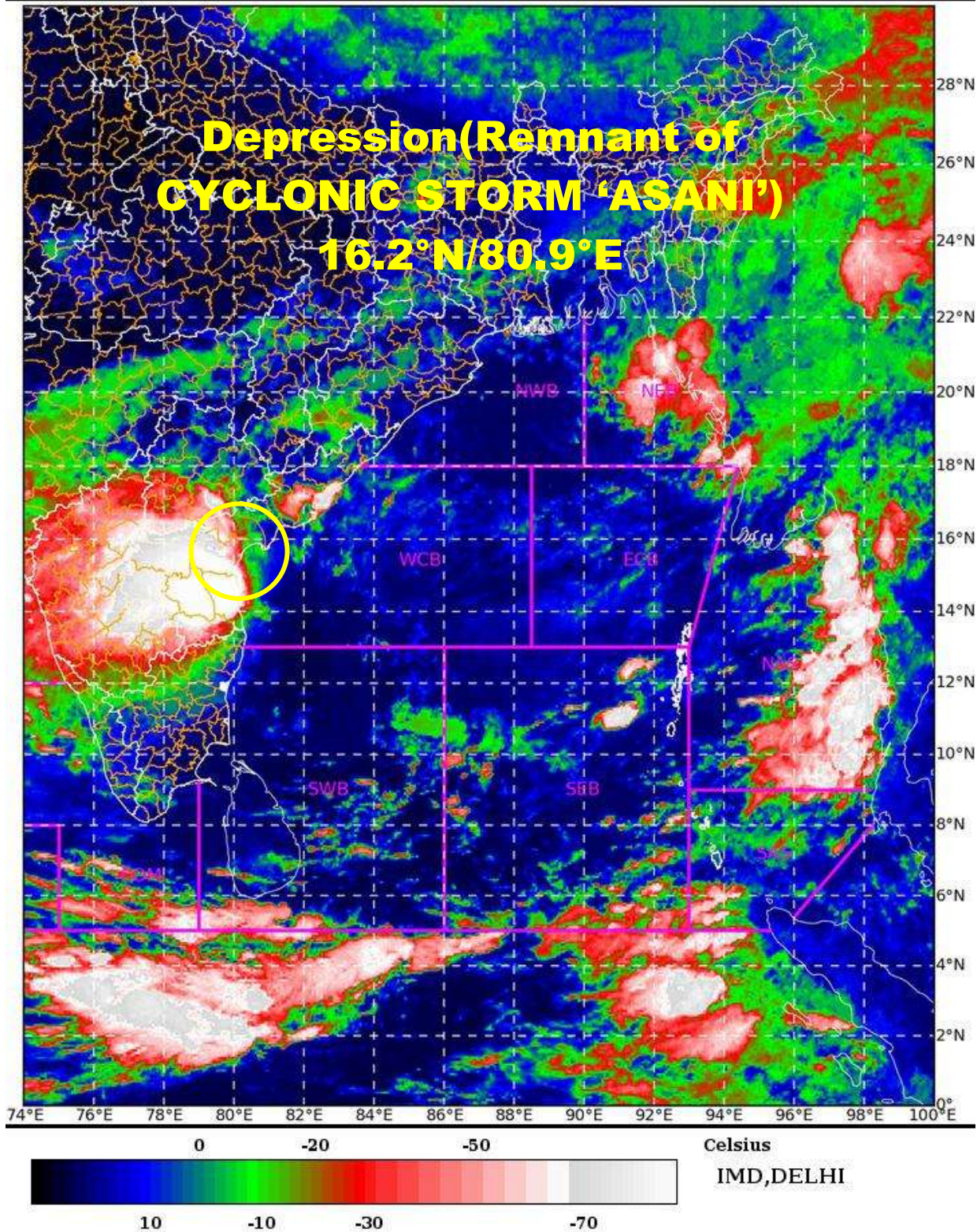
LOW LEVEL VORTICITY IS ABOUT 150 X10<sup>-6</sup> S<sup>-1</sup> TO THE SOUTH OF SYSTEM CENTRE. VERTICALLY IT IS EXTENDING UPTO 500 HPA LEVEL. LOW LEVEL CONVERGENCE IS AROUND TO 30 X10<sup>-5</sup> S<sup>-1</sup> TO THE NORTHWEST OF SYSTEM CENTRE. UPPER LEVEL DIVERGENCE IS 05 X10<sup>-5</sup> S<sup>-1</sup> AROUND TO THE SOUTHWEST OF SYSTEM CENTRE. WIND SHEAR IS LOW (15-20 KNOTS) AROUND THE SYSTEM AREA. IT IS LIKELY TO HOVER AROUND THE SAME REGION AND WEAKEN FURTHER INTO A WELL MARKED LOW PRESSURE AREA DURING NEXT 12 HOURS.

**(AMIT BHARDWAJ)  
SCIENTIST-C, RSMC, NEW DELHI**

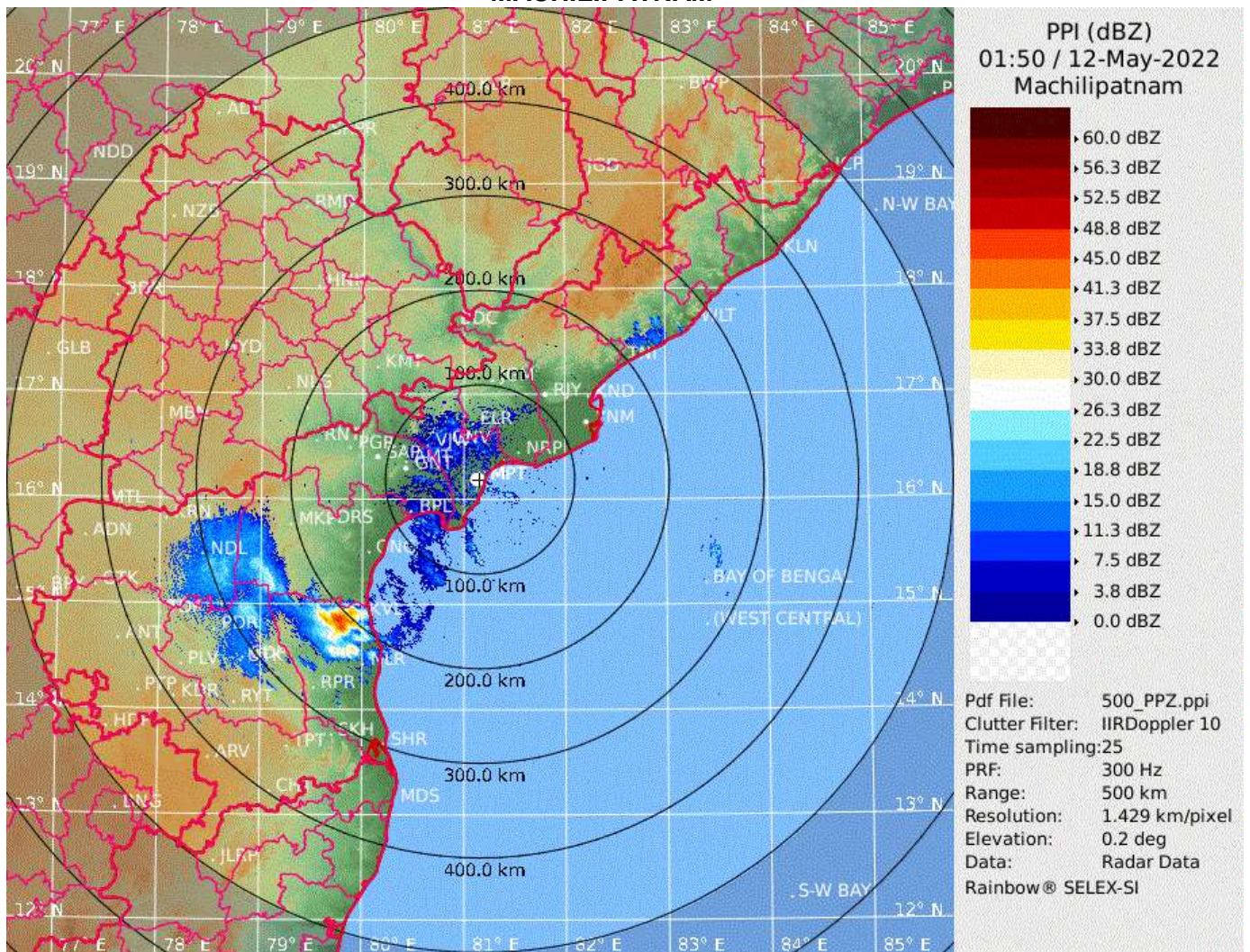
SAT : INSAT-3D IMG 12-05-2022/(0100 to 0126) GMT

IMG\_TIR1\_TEMP 10.8 um 12-05-2022/(0630 to 0656) IST

L1C Mercator

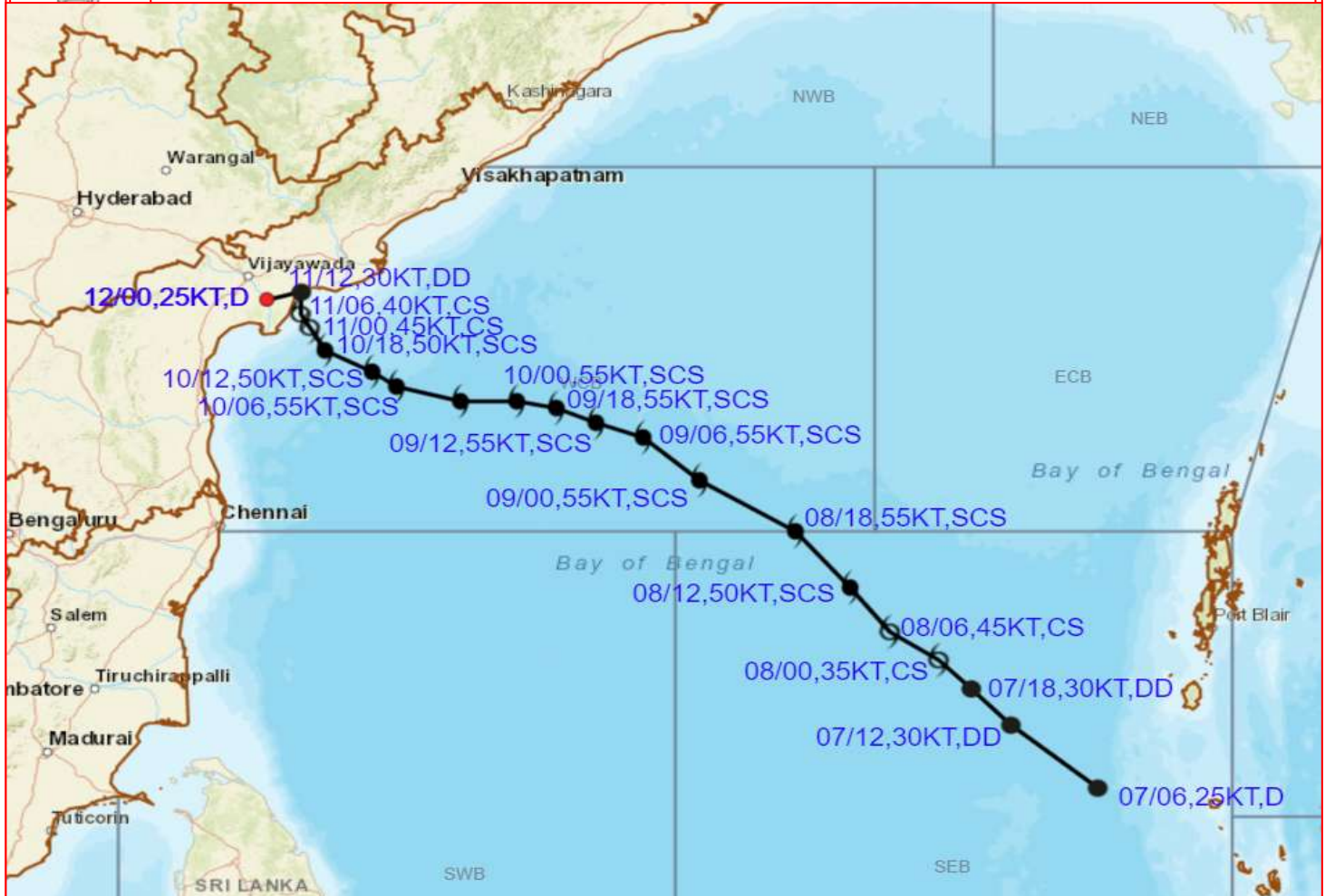


**DEPRESSION (REMNANT OF CYCLONIC STORM "ASANI") VIEWED BY THE DWR AT MACHILIPATNAM**





**FORECAST TRACK AND INTENSITY OF DEPRESSION (REMNANT OF CYCLONIC STORM 'ASANI') ALONGWITH CONE OF UNCERTAINTY OVER ANDHRA PRADESH COAST BASED ON 0000 UTC OF 12<sup>TH</sup> MAY 2022**



DATE/TIME IN UTC  
 IST=UTC + 0530  
 L: LOW PRESSURE AREA  
 WML: WELL MARKED LOW PRESSURE AREA  
 D: DEPRESSION (17-27 KT)  
 DD: DEEP DEPRESSION (28-33 KT)  
 CS: CYCLONIC STORM (34-47 KT)  
 SCS: SEVERE CYCLONIC STORM (48-63KT)  
 VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)  
 ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)  
 SuCS: SUPER CYCLONIC STORM ( $\geq$  120 KT)

- LESS THAN 34 KT
- 34-47 KT
- $\geq$  48 KT
- OBSERVED TRACK
- FORECAST TRACK
- CONE OF UNCERTAINTY

Forecast distance (km) and direction of the centre from nearest 5 coastal stations

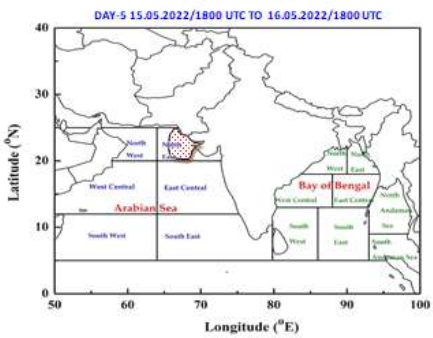
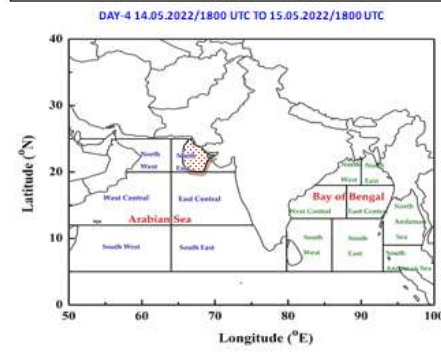
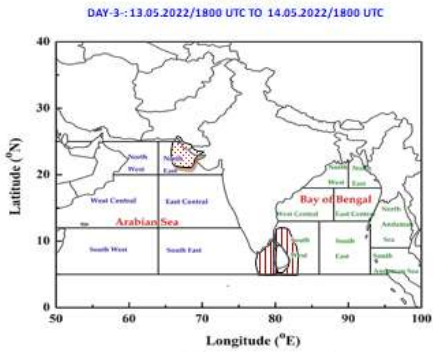
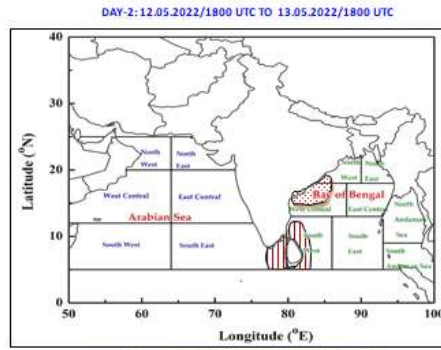
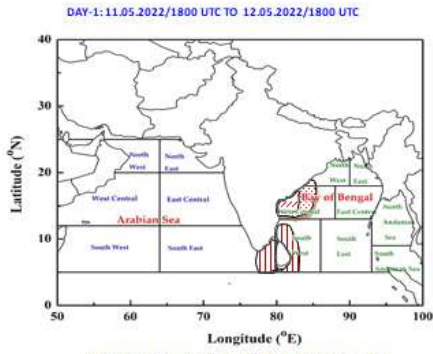
Forecast Date and Time	Lead Period	Lat	Lon	Station 1	Station 2	Station 3	Station 4	Station 5
12.05.22/0000	0	16.2	80.9	MACHILIPATNAM/ FRANCHPET (27,W)	VIJAYAWADA /GANNAVARAM (39,SSE)	VIJAYAWADA (46,SE)	BAPATLA (57,NE)	NARSAPUR (89,WSW)

DISTANCE(KM) AND DIRECTION FROM STATIONS

Forecast Date and Time	Lead Period	MACHILIPATNAM	KAKINADA	VISHAKHAPAT NAM	GOPALP UR	PURI
12.05.22/0000		0,30,W	160,WSW	310,WSW	540,SW	660,SW

N : NORTH NNE : NORTH-NORTHEAST NE : NORTHEAST ENE : EAST-NORTHEAST E : EAST  
 ESE : EAST-SOUTHEAST SE : SOUTHEAST SSE : SOUTH-SOUTHEAST S : SOUTH  
 SSW : SOUTH-SOUTHWEST SW : SOUTHWEST WSW : WEST-SOUTHWEST W : WEST  
 WNW : WEST-NORTHWEST NW : NORTHWEST NNW : NORTH-NORTHWEST

**INDIA METEOROLOGICAL DEPARTMENT  
FISHERMAN WARNING FOR BAY OF BENGAL AND ARABIAN SEA**



**AREA UNDER FISHERMEN WARNING**

	40-50 KMPH GUSTING TO 60 KMPH (SQUALLY WEATHER)
	45-55 KMPH GUSTING TO 65 KMPH
	55-65 KMPH GUSTING TO 75 KMPH
	65-75 KMPH GUSTING TO 85 KMPH
	70-80 KMPH GUSTING TO 90 KMPH
	75-85 KMPH GUSTING TO 95 KMPH
	90-100 KMPH GUSTING TO 110 KMPH