



भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

FAX MESSAGE

FROM: INDIA METEOROLOGICAL DEPARTMENT (Fax No. 24699216/24623220)

To: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750)  
CONTROL ROOM NDMA (FAX.NO.26701729)  
CABINET SECRETARIAT (FAX.NO.23793144)  
PS TO HON'BLE MINISTER FOR SCIENCE AND TECHNOLOGY AND EARTH SCIENCES (FAX NO.23316745)  
SECRETARY, MoES, (Fax No. 24629777)  
SECRETARY, DST (Fax No. 26863847/-2418)  
H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)  
DIRECTOR GENERAL, DOORDARSHAN (23385843)  
DIRECTOR GENERAL, AIR (25843825)  
PIB MoES (FAX NO. 23389042)  
UNI (FAX NO. 23355841)  
D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX No. 26105912)  
DIRECTOR OF PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)  
CHIEF SECRETARY, GOVT. OF ANDAMAN & NICOBAR ISLAND (FAX NO. 03192-232656)  
CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674-2536660)  
CHIEF SECRETARY, GOVT. OF PUDUCHERRY (FAX NO. 0413-2337575)  
CHIEF SECRETARY, GOVT OF ANDHRA PRADESH (FAX No. 040-23453700)

Time of issue: 1130 hours IST

Dated: 08-10-2013

Bulletin No.: BOB 04/2013/01

**Sub: Depression over north Andaman Sea.**

Latest satellite imagery and observations indicate that a depression has formed over north Andaman Sea and lay centred at 0830 hrs IST of today, the 08<sup>th</sup> October 2013 near latitude 12.0<sup>o</sup>N and longitude 96.0<sup>o</sup>E, about 350 km east-northeast of Port Blair, 1450 km east-southeast of Paradip, 1520 km east-southeast of Visakhapatnam. The system would intensify into a deep depression and further into a cyclonic storm by tomorrow. It would move west-northwestwards towards north Andhra Pradesh and Odisha coast during next 72 hours.

Under the influence of this system, rainfall at most places with heavy to very heavy falls at a few places would occur over Andaman and Nicobar Islands during next 48 hrs. Isolated extremely heavy falls (  $\sim$  25cm) would occur over Andaman Islands during the same period.

Squally winds speed reaching 45-55 kmph gusting to 65 kmph would prevail over Andaman Nicobar Islands and adjoining sea areas during next 48 hours. Sea condition will be rough to very rough along and off Nicobar Islands during this period.

Fishermen of Andaman Nicobar Islands are advised not to venture into the sea during next 48 hrs.

**The next bulletin will be issued at 1430 hrs IST of today, 08<sup>th</sup> October 2013.**

(M Mohapatra)  
Scientist-E  
Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumba (022-22630084) /Command MO Visakhapatnam (0891-2709086)/ MO Port Blairi (03192-232656).



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INDIA METEOROLOGICAL DEPARTMENT

**FAX MESSAGE**

**FROM: INDIA METEOROLOGICAL DEPARTMENT (Fax No. 24699216/24623220)**

**To: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750)**  
**CONTROL ROOM NDMA ( FAX.NO.26701729)**  
**CABINET SECRETARIAT (FAX.NO.23793144)**  
**PS TO HON'BLE MINISTER FOR SCIENCE AND TECHNOLOGY AND EARTH SCIENCES (FAX NO.23316745)**  
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**CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674-2536660)**  
**CHIEF SECRETARY, GOVT. OF PUDUCHERRY (FAX NO. 0413-2337575)**  
**CHIEF SECRETARY, GOVT OF ANDHRA PRADESH (FAX No. 040-23453700)**

**Time of issue: 1345 hours IST**

**Dated: 08-10-2013**

**Bulletin No.: BOB 04/2013/02**

**Sub: Depression over north Andaman Sea: Pre Cyclone watch for North Andhra Pradesh and Orissa Coasts.**

The depression over North Andaman Sea moved westward with a speed of 18 Kmph during past 3 hours and lay centred at 1130 hrs IST of today, the 08<sup>th</sup> October 2013 over north Andaman Sea near latitude 12.0<sup>o</sup>N and longitude 95.5.0<sup>o</sup>E, about 300 km east-northeast of Port Blair, 1350 km east-southeast of Paradip, 1470 km east-southeast of Visakhapatnam. The system would intensify into a deep depression and further into a cyclonic storm by tomorrow. It would move west-northwestwards towards north Andhra Pradesh and Odisha coast during next 72 hours.

Under the influence of this system, rainfall at most places with heavy to very heavy falls at few places would occur over Andaman and Nicobar Islands during next 48 hrs. Isolated extremely heavy falls (~ 25cm) would occur over Andaman Islands during the same period.

Squally winds speed reaching 45-55 kmph gusting to 65 kmph would prevail over Andaman Nicobar Islands and adjoining sea areas during next 48 hours. Sea condition will be rough to very rough along and off Nicobar Islands during this period.

Fishermen of Andaman Nicobar Islands are advised not to venture into the sea during next 48 hrs.

**The next bulletin will be issued at 2030 hrs IST of today, the 08<sup>th</sup> October, 2013.**

(M Mohapatra, Scientist-E  
Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumba (022-22630084) /Command MO Visakhapatnam (0891-2709086)/ MO Port Blairi (03192-232656).



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INDIA METEOROLOGICAL DEPARTMENT

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CHIEF SECRETARY, GOVT. OF PUDUCHERRY (FAX NO. 0413-2337575)  
CHIEF SECRETARY, GOVT OF ANDHRA PRADESH (FAX No. 040-23453700)

Time of issue: 1930 hours IST

Dated: 08-10-2013

Bulletin No.: BOB 04/2013/03

**Sub: Depression over north Andaman Sea: Pre Cyclone watch for North Andhra Pradesh and Orissa Coasts.**

The depression over North Andaman Sea moved westward with a speed of 18 Kmph during past 6 hours and lay centred at 1730 hrs IST of today, the 08<sup>th</sup> October 2013 over north Andaman Sea near latitude 12.0<sup>o</sup>N and longitude 94.5<sup>o</sup>E, about 200 km east-northeast of Port Blair, 1250 km east-southeast of Paradip, 1350 km east-southeast of Visakhapatnam. The system would intensify into a deep depression and further into a cyclonic storm by tomorrow. It would move west-northwestwards and cross Andamn islands between Long island and Mayabandar by tomorrow morning as a deep depression. It would then continue to move west-northwestwards for some time and then northwestwards towards north Andhra Pradesh and Odisha coast during next 72 hours.

Under the influence of this system, rainfall at most places with heavy to very heavy falls at few places would occur over Andaman and Nicobar Islands during next 48 hrs. Isolated extremely heavy falls (~ 25cm) would occur over Andaman Islands during the same period.

Squally winds speed reaching 45-55 kmph gusting to 65 kmph would prevail over Andaman Nicobar Islands and adjoining sea areas during next 48 hours. Sea condition will be rough to very rough along and off Andaman and Nicobar Islands during this period.

**Damage expected over Andaman and Nicobar Islands.**

Minor damages to loose and unsecured structures.

**Action suggested.**

Fishermen are advised not to venture into Andaman sea and adjoining east central Bay of Bengal during next 48 hrs.

**The next bulletin will be issued at 0230 hrs IST of tommorrow, the 09<sup>th</sup> October, 2013.**

(M Mohapatra, Scientist-E)

Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatanam/Bhubaneswar/Command MO Mumba (022-22630084) /Command MO Visakhapatnam (0891-2709086)/ MO Port Blairi (03192-229480).



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CHIEF SECRETARY, GOVT. OF PUDUCHERRY (FAX NO. 0413-2337575)  
CHIEF SECRETARY, GOVT OF ANDHRA PRADESH (FAX No. 040-23453700)

Time of issue: 0230 hours IST

Dated: 09-10-2013

Bulletin No.: BOB 04/2013/04

**Sub: Depression over north Andaman Sea: Pre Cyclone watch for North Andhra Pradesh and Orissa Coasts.**

The depression over North Andaman Sea moved northwestward with a speed of 13 Kmph during past 6 hours and lay centred at 2330 hrs IST of yesterday, the 08<sup>th</sup> October 2013 over north Andaman Sea near latitude 12.5<sup>o</sup>N and longitude 94.0<sup>o</sup>E, about 150 km northeast of Port Blair, 1150 km east-southeast of Paradip, 1300 km east-southeast of Visakhapatnam. The system would intensify into a deep depression and further into a cyclonic storm by today, the 9<sup>th</sup> October 2013. It would move west-northwestwards and cross Andamn islands near Mayabandar by forenoon of today, the 9<sup>th</sup> October 2013 as a deep depression. It would then continue to move west-northwestwards for some time and then northwestwards towards north Andhra Pradesh and Odisha coast during next 72 hours.

Under the influence of this system, rainfall at most places with heavy to very heavy falls at few places would occur over Andaman and Nicobar Islands during next 48 hrs. Isolated extremely heavy falls (~ 25cm) would occur over Andaman Islands during the same period.

Squally winds speed reaching 45-55 kmph gusting to 65 kmph would prevail over Andaman Nicobar Islands and adjoining sea areas during next 48 hours. Sea condition will be rough to very rough along and off Andaman and Nicobar Islands during this period.

**Damage expected over Andaman and Nicobar Islands.**

Minor damages to loose and unsecured structures.

**Action suggested.**

Fishermen are advised not to venture into Andaman sea and adjoining east central Bay of Bengal during next 48 hrs.

**The next bulletin will be issued at 0830 hrs IST of today, the 09<sup>th</sup> October, 2013.**

(Duty Officer)

Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumbai (022-22630084) /Command MO Visakhapatnam (0891-2709086)/ MO Port Blair (03192-229480).



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CHIEF SECRETARY, GOVT OF ANDHRA PRADESH (FAX No. 040-23453700)

Time of issue: 0900 hours IST

Dated: 09-10-2013

Bulletin No.: BOB 04/2013/05

**Sub: Deep Depression over north Andaman Sea: Cyclone Alert for North Andhra Pradesh and Orissa Coast.  
Cyclone Warning for Andaman & Nicobar Island**

The depression over North Andaman Sea moved northwestward with a speed of 13 kmph during past 6 hours, intensified into a deep depression and lay centred at 0530 hrs IST of today, the 09<sup>th</sup> October 2013 over north Andaman Sea near latitude 13.0<sup>0</sup>N and longitude 93.5<sup>0</sup>E, about 170 km north-northeast of Port Blair, 1100 km east-southeast of Paradip, 1200 km east-southeast of Visakhapatnam. The system would intensify into a cyclonic storm during next 12 hours. It would move west-northwestwards and cross Andaman islands near Mayabandar by noon of today, the 9<sup>th</sup> October 2013 as a cyclonic storm. It would then continue to move west-northwestwards for some time and then northwestwards and cross north Andhra Pradesh and Odisha coast between Kalingapatnam and Paradip by night of 12<sup>th</sup> October, 2013 as a very severe cyclonic storm with a maximum sustained wind speed of 175-185 kmph.

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(IST)  | Position<br>(Lat. <sup>0</sup> N/ Long. <sup>0</sup> E) | Sustained maximum<br>surface wind speed<br>(kmph) | Category              |
|-----------------|---|---|-----------------------|
| 09-10-2013/0530 | 13.0/93.5   | 50-60 gusting to 70                               | Deep Depression       |
| 09-10-2013/1130 | 13.5/93.0   | 60/70 gusting to 80                               | Cyclonic Storm        |
| 09-10-2013/1730 | 14.0/92.5   | 65-75 gusting to 85                               | Cyclonic Storm        |
| 09-10-2013/2330 | 14.5/92.0   | 85-95 gusting to 105                              | Cyclonic Storm        |
| 10-10-2013/0530 | 15.0/90.0   | 95-105 gusting to 115                             | Severe Cyclonic Storm |

|                 |           |                        |                            |
|-----------------|-----------|------------------------|----------------------------|
| 10-10-2013/1730 | 15.5/89.0 | 115-125 gusting to 140 | Severe Cyclonic Storm      |
| 11-10-2013/0530 | 16.0/88.0 | 135-145 gusting to 160 | Very Severe Cyclonic Storm |
| 11-10-2013/1730 | 16.5/87.0 | 155-165 gusting to 180 | Very Severe Cyclonic Storm |
| 12-10-2013/0530 | 17.0/86.0 | 175-185 gusting to 200 | Very Severe Cyclonic Storm |
| 12-10-2013/1730 | 18.0/85.0 | 175-185 gusting to 200 | Very Severe Cyclonic Storm |
| 13-10-2013/0530 | 19.5/84.5 | 65-75 gusting to 85    | Cyclonic Storm             |
| 13-10-2013/1730 | 21.0/84.0 | 50 . 60 gusting to 70  | Deep Depression            |
| 14-10-2013/0530 | 23.0/83.5 | 40 . 50 gusting to 60  | Depression                 |

Under the influence of this system, rainfall at most places with heavy to very heavy falls at a few places would occur over Andaman and Nicobar Islands during next 48 hrs. Isolated extremely heavy falls (~ 25cm) would occur over Andaman Islands during the same period.

Squally/Gale winds speed reaching 60-70 kmph gusting to 80 kmph would prevail over Andaman Nicobar Islands and adjoining sea areas during next 48 hours. Sea condition will be very rough to high along and off Andaman and Nicobar Islands during this period.

**Damage expected over Andaman and Nicobar Islands.**

Damage to thatched huts. Breaking of tree branches causing minor damage to power and communication lines.

**Action suggested.**

Fishermen are advised not to venture into Andaman sea and adjoining east central Bay of Bengal during next 48 hrs.

**The next bulletin will be issued at 1130 hrs IST of today, the 09<sup>th</sup> October, 2013.**

(Kamaljit Ray)

Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumbai (022-22630084) /Command MO Visakhapatnam (0891-2709086)/ MO Port Blairi (03192-229480).





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CHIEF SECRETARY, GOVT OF ANDHRA PRADESH (FAX No. 040-23453700)

Time of issue: 1130 hours IST

Dated: 09-10-2013

Bulletin No.: BOB 04/2013/06

Sub: Deep Depression over north Andaman Sea: Cyclone Alert for North Andhra Pradesh and Orissa Coast.  
Cyclone Warning for Andaman & Nicobar Island

The deep depression over North Andaman Sea remained practically stationary and lay centred at 0830 hrs IST of today, the 09<sup>th</sup> October 2013 over north Andaman Sea near latitude 13.0<sup>o</sup>N and longitude 93.5<sup>o</sup>E, about 50 km east of Mayabandar, 170 km north-northeast of Port Blair, 1100 km east-southeast of Paradip, 1200 km east-southeast of Visakhapatnam. The system would intensify into a cyclonic storm during next 12 hours. It would move west-northwestwards and cross Andaman islands near Mayabandar by afternoon of today, the 9<sup>th</sup> October 2013 as a cyclonic storm. It would then continue to move west-northwestwards for some time and then northwestwards and cross north Andhra Pradesh and Odisha coast between Kalingapatnam and Paradip by night of 12<sup>th</sup> October, 2013 as a very severe cyclonic storm with a maximum sustained wind speed of 175-185 kmph.

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(IST)  | Position<br>(Lat. <sup>o</sup> N/ Long. <sup>o</sup> E) | Sustained maximum<br>surface wind speed<br>(kmph) | Category                   |
|-----------------|---|---|----------------------------|
| 09-10-2013/0830 | 13.0/93.5   | 50-60 gusting to 70                               | Deep Depression            |
| 09-10-2013/1130 | 13.5/93.0   | 60/70 gusting to 80                               | Cyclonic Storm             |
| 09-10-2013/1730 | 14.0/92.5   | 65-75 gusting to 85                               | Cyclonic Storm             |
| 09-10-2013/2330 | 14.5/92.0   | 85-95 gusting to 105                              | Cyclonic Storm             |
| 10-10-2013/0530 | 15.0/90.0   | 95-105 gusting to 115                             | Severe Cyclonic Storm      |
| 10-10-2013/1730 | 15.5/89.0   | 115-125 gusting to 140                            | Severe Cyclonic Storm      |
| 11-10-2013/0530 | 16.0/88.0   | 135-145 gusting to 160                            | Very Severe Cyclonic Storm |

|                 |           |                        |                            |
|-----------------|-----------|------------------------|----------------------------|
| 11-10-2013/1730 | 16.5/87.0 | 155-165 gusting to 180 | Very Severe Cyclonic Storm |
| 12-10-2013/0530 | 17.0/86.0 | 175-185 gusting to 200 | Very Severe Cyclonic Storm |
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| 13-10-2013/0530 | 19.5/84.5 | 65-75 gusting to 85    | Cyclonic Storm             |
| 13-10-2013/1730 | 21.0/84.0 | 50 . 60 gusting to 70  | Deep Depression            |
| 14-10-2013/0530 | 23.0/83.5 | 40 . 50 gusting to 60  | Depression                 |

Under the influence of this system, rainfall at most places with heavy to very heavy falls at a few places would occur over Andaman and Nicobar Islands during next 24 hrs. and isolated heavy to very heavy rainfall in subsequent 24 hrs. Isolated extremely heavy falls (  $\sim$  25cm) would occur over Andaman Islands during the same period.

Squally/Gale winds speed reaching 60-70 kmph gusting to 80 kmph would prevail over Andaman Nicobar Islands and adjoining sea areas during next 48 hours. Sea condition will be very rough to high along and off Andaman and Nicobar Islands during next 24 hrs.

**Storm Surge Guidance:** Storm surge with height of around 1m above astronomical tide would inundate low lying areas of Andaman Islands during landfall.

**Damage expected over Andaman and Nicobar Islands.**

Damage to thatched huts. Breaking of tree branches causing minor damage to power and communication lines.

**Action suggested.**

Fishermen are advised not to venture into Andaman sea and adjoining east central Bay of Bengal during next 48 hrs. Fishermen out at sea along north AP, Odisha and West Bengal coast are advised to return to coast.

**The next bulletin will be issued at 1430 hrs IST of today, the 09<sup>th</sup> October, 2013.**

(Kamaljit Ray)

Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatanam/Bhubaneswar/Command MO Mumbai (022-22630084) /Command MO Visakhapatnam (0891-2709086)/ MO Port Blair (03192-229480).



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CHIEF SECRETARY, GOVT. OF ANDAMAN & NICOBAR ISLAND (FAX NO. 03192-223331)  
CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674-2536660)  
CHIEF SECRETARY, GOVT. OF PUDUCHERRY (FAX NO. 0413-2337575)  
CHIEF SECRETARY, GOVT OF ANDHRA PRADESH (FAX No. 040-23453700)

Time of issue: 1400 hours IST

Dated: 09-10-2013

Bulletin No.: BOB 04/2013/07

**Sub: Deep Depression over north Andaman Sea: Cyclone Alert for North Andhra Pradesh and Orissa Coast. Cyclone Warning for Andaman & Nicobar Island**

The deep depression over North Andaman Sea moved westward and lay centred at 1130 hrs IST of today, 09<sup>th</sup> October 2013 over north Andaman Sea near latitude 13.0°N and longitude 93.0°E, close to Mayabandar and about 135 km north-northeast of Port Blair, 1070km east-southeast of Paradip, 1160 km east-southeast of Visakhapatnam. The system would move west-northwestwards and cross Andaman Island close to Mayabandar within next few hours. The system would intensify into a cyclonic storm during next 12 hours and continue to move west-northwestwards for some time and then northwestwards and cross north Andhra Pradesh and Odisha coast between Kalingapatnam and Paradip by night of 12<sup>th</sup> October, 2013 as a very severe cyclonic storm with a maximum sustained wind speed of 175-185 kmph.

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(IST)  | Position<br>(Lat. °N/ Long. °E) | Sustained maximum<br>surface wind speed<br>(kmph) | Category              |
|-----------------|---------------------------------|---|-----------------------|
| 09-10-2013/1130 | 13.0/93.0                       | 50-60 gusting to 70                               | Deep Depression       |
| 09-10-2013/1730 | 13.5/92.5                       | 60-70 gusting to 80                               | Cyclonic Storm        |
| 09-10-2013/2330 | 14.5/92.0                       | 85-95 gusting to 105                              | Cyclonic Storm        |
| 10-10-2013/0530 | 15.0/90.0                       | 95-105 gusting to 115                             | Severe Cyclonic Storm |
| 10-10-2013/1130 | 15.5/89.0                       | 115-125 gusting to 140                            | Severe Cyclonic Storm |

|                 |           |                        |                            |
|-----------------|-----------|------------------------|----------------------------|
| 10-10-2013/2330 | 16.0/88.0 | 135-145 gusting to 160 | Very Severe Cyclonic Storm |
| 11-10-2013/1130 | 16.5/87.0 | 155-165 gusting to 180 | Very Severe Cyclonic Storm |
| 11-10-2013/2330 | 17.0/86.0 | 175-185 gusting to 200 | Very Severe Cyclonic Storm |
| 12-10-2013/1130 | 18.0/85.0 | 175-185 gusting to 200 | Very Severe Cyclonic Storm |
| 12-10-2013/2330 | 19.5/84.5 | 65-75 gusting to 85    | Cyclonic Storm             |
| 13-10-2013/1130 | 21.0/84.0 | 50 . 60 gusting to 70  | Deep Depression            |
| 13-10-2013/2330 | 23.0/83.5 | 40 . 50 gusting to 60  | Depression                 |

Under the influence of this system, rainfall at most places with heavy to very heavy falls at a few places would occur over Andaman and Nicobar Islands during next 24 hrs. Isolated heavy to very heavy rainfall in subsequent 24 hrs. Isolated extremely heavy falls (  $\sim$  25cm) would occur over Andaman Islands during the same period.

Squally winds speed reaching 50-60kmph gusting to 70 kmph would prevail over Andaman Nicobar Islands and adjoining sea areas during next 48 hours. Sea condition will be very rough to high along and off Andaman and Nicobar Islands during next 24 hrs.

**Storm Surge Guidance:** Storm surge with height of around 1m above astronomical tide would inundate low lying areas of Andaman Islands during landfall.

**Damage expected over Andaman and Nicobar Islands.**

Damage to thatched huts. Breaking of tree branches causing minor damage to power and communication lines.

**Action suggested.**

Fishermen are advised not to venture into Andaman sea and adjoining east central Bay of Bengal during next 48 hrs. Fishermen out at sea along north AP, Odisha and West Bengal coast are advised to return to coast.

**The next bulletin will be issued at 1730 hrs IST of today, the 09<sup>th</sup> October, 2013.**

(Kamaljit Ray)

Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatanam/Bhubaneswar/Command MO Mumbai (022-22630084) /Command MO Visakhapatnam (0891-2709086)/ MO Port Blair (03192-229480).



भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

**FAX MESSAGE**

**FROM: INDIA METEOROLOGICAL DEPARTMENT (Fax No. 24699216/24623220)**

**To: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750)**  
**CONTROL ROOM NDMA ( FAX.NO.26701729)**  
**CABINET SECRETARIAT (FAX.NO.23793144)**  
**PS TO HON'BLE MINISTER FOR SCIENCE AND TECHNOLOGY AND EARTH SCIENCES (FAX NO.23316745)**  
**SECRETARY, MoES, (Fax No. 24629777)**  
**SECRETARY, DST (Fax No. 26863847/-2418)**  
**H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)**  
**DIRECTOR GENERAL, DOORDARSHAN (23385843)**  
**DIRECTOR GENERAL, AIR (25843825)**  
**PIB MoES ( FAX NO. 23389042)**  
**UNI (FAX NO. 23355841)**  
**D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX No. 26105912)**  
**DIRECTOR OF PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)**  
**CHIEF SECRETARY, GOVT. OF ANDAMAN & NICOBAR ISLAND (FAX NO. 03192-223331)**  
**CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674-2536660)**  
**CHIEF SECRETARY, GOVT. OF PUDUCHERRY (FAX NO. 0413-2337575)**  
**CHIEF SECRETARY, GOVT OF ANDHRA PRADESH (FAX No. 040-23453700)**

**Time of issue: 1600 hours IST**

**Dated: 09-10-2013**

**Bulletin No.: BOB 04/2013/08**

**Sub: Deep Depression over north Andaman Sea: Cyclone Alert for North Andhra Pradesh and Orissa Coast. Cyclone Warning for Andaman & Nicobar Island**

The deep depression over North Andaman Sea moved west-northwestwards and crossed Andaman Islands near Mayabandar between 1230 and 1330 hrs IST and lay centred at 1430 hrs IST of today, 09<sup>th</sup> October 2013 over east central Bay of Bengal near latitude 13.5<sup>o</sup>N and longitude 92.5<sup>o</sup>E, and about 220 km north-northwest of Port Blair, 950km southeast of Paradip, 1100 km east-southeast of Visakhapatnam. The system would intensify into a cyclonic storm during next 12 hours and continue to move west-northwestwards for some time and then northwestwards and cross north Andhra Pradesh and Odisha coast between Kalingapatnam and Paradip by night of 12<sup>th</sup> October, 2013 as a very severe cyclonic storm with a maximum sustained wind speed of 175-185 kmph.

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(IST)  | Position<br>(Lat. <sup>o</sup> N/ Long. <sup>o</sup> E) | Sustained maximum<br>surface wind speed<br>(kmph) | Category                   |
|-----------------|---|---|----------------------------|
| 09-10-2013/1430 | 13.5/92.5   | 50-60 gusting to 70                               | Deep Depression            |
| 09-10-2013/1730 | 14.0/92.0   | 60-70 gusting to 80                               | Cyclonic Storm             |
| 09-10-2013/2330 | 14.5/91.0   | 85-95 gusting to 105                              | Cyclonic Storm             |
| 10-10-2013/0530 | 15.0/90.0   | 95-105 gusting to 115                             | Severe Cyclonic Storm      |
| 10-10-2013/1130 | 15.5/89.0   | 115-125 gusting to 140                            | Severe Cyclonic Storm      |
| 10-10-2013/2330 | 16.0/88.0   | 135-145 gusting to 160                            | Very Severe Cyclonic Storm |

|                 |           |                        |                            |
|-----------------|-----------|------------------------|----------------------------|
| 11-10-2013/1130 | 16.5/87.0 | 155-165 gusting to 180 | Very Severe Cyclonic Storm |
| 11-10-2013/2330 | 17.0/86.0 | 175-185 gusting to 200 | Very Severe Cyclonic Storm |
| 12-10-2013/1130 | 18.0/85.0 | 175-185 gusting to 200 | Very Severe Cyclonic Storm |
| 12-10-2013/2330 | 19.5/84.5 | 65-75 gusting to 85    | Cyclonic Storm             |
| 13-10-2013/1130 | 21.0/84.0 | 50 . 60 gusting to 70  | Deep Depression            |
| 13-10-2013/2330 | 23.0/83.5 | 40 . 50 gusting to 60  | Depression                 |

Under the influence of this system, rainfall at most places with heavy to very heavy falls at a few places and isolated extremely heavy falls (  $\sim$  25cm) would occur over Andaman and Nicobar Islands during next 24 hrs. Isolated heavy to very heavy rainfall would occur in subsequent 24 hrs.

Squally winds speed reaching 50-60kmph gusting to 70 kmph would prevail over Andaman Nicobar Islands and adjoining sea areas during next 36 hours. Sea condition will be very rough along and off Andaman and Nicobar Islands during next 36 hrs.

#### **Damage expected over Andaman and Nicobar Islands**

Damage to thatched huts. Breaking of tree branches causing minor damage to power and communication lines.

#### **Action suggested.**

Fishermen are advised not to venture into Andaman sea and adjoining east central Bay of Bengal during next 48 hrs. Fishermen out at sea along north AP, Odisha and West Bengal coast are advised to return to coast.

**The next bulletin will be issued at 2030 hrs IST of today, the 09<sup>th</sup> October, 2013.**

(M.Mohapatra)

Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumbai (022-22630084) /Command MO Visakhapatnam (0891-2709086)/ MO Port Blair (03192-229480).



भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

FROM: INDIA  
METEOROLOGICAL DEPARTMENT (Fax No. 24699216/24623220)

To: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750)  
CONTROL ROOM NDMA ( FAX.NO.26701729)  
CABINET SECRETARIAT (FAX.NO.23793144)  
PS TO HON'BLE MINISTER FOR SCIENCE AND TECHNOLOGY AND EARTH SCIENCES (FAX NO.23316745)  
SECRETARY, MoES, (Fax No. 24629777)  
SECRETARY, DST (Fax No. 26863847/-2418)  
H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)  
DIRECTOR GENERAL, DOORDARSHAN (23385843)  
DIRECTOR GENERAL, AIR (25843825)  
PIB MoES ( FAX NO. 23389042)  
UNI (FAX NO. 23355841)  
D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX No. 26105912)  
DIRECTOR OF PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)  
CHIEF SECRETARY, GOVT. OF ANDAMAN & NICOBAR ISLAND (FAX NO. 03192-223331)  
CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674-2536660)  
CHIEF SECRETARY, GOVT. OF PUDUCHERRY (FAX NO. 0413-2337575)  
CHIEF SECRETARY, GOVT OF ANDHRA PRADESH (FAX No. 040-23453700)

Time of issue: 2000 hours IST

Dated: 09-10-2013

Bulletin No.: BOB 04/2013/09

Sub: Cyclonic storm, PHAILIN in East central Bay of Bengal:  
Cyclone Alert for North Andhra Pradesh and Orissa Coast. Cyclone Warning for Andaman & Nicobar Island

The deep depression over east central Bay of Bengal remained practically stationery, intensified into a cyclonic storm, **PHAILIN** and lay centred at 1730 hrs IST of today, 09<sup>th</sup> October 2013 over near latitude 13.5°N and longitude 92.5°E, about 220 km north-northwest of Port Blair, 950km southeast of Paradip, 1100 km east-southeast of Visakhapatnam. The system would intensify into a severe cyclonic storm during next 24 hours. It would continue to move west-northwestwards for some time and then northwestwards and cross north Andhra Pradesh and Odisha coast between Kalingapatnam and Paradip by night of 12<sup>th</sup> October, 2013 as a very severe cyclonic storm with a maximum sustained wind speed of 175-185 kmph.

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(IST)  | Position<br>(Lat. °N/ Long. °E) | Sustained maximum<br>surface wind speed<br>(kmph) | Category                   |
|-----------------|---------------------------------|---|----------------------------|
| 09-10-2013/1730 | 13.5/92.5                       | 65-75 gusting to 85                               | Cyclonic Storm             |
| 09-10-2013/2330 | 13.8/92.0                       | 70-80 gusting to 90                               | Cyclonic Storm             |
| 10-10-2013/0530 | 14.3/91.0                       | 75-85 gusting to 95                               | Cyclonic Storm             |
| 10-10-2013/1130 | 14.7/90.4                       | 85-95 gusting to 105                              | Cyclonic Storm             |
| 10-10-2013/1730 | 15.2/89.8                       | 95-105 gusting to 120                             | Severe Cyclonic Storm      |
| 11-10-2013/0530 | 15.7/88.3                       | 115-125 gusting to 140                            | Severe Cyclonic Storm      |
| 11-10-2013/1730 | 16.5/87.1                       | 135-145 gusting to 160                            | Very Severe Cyclonic Storm |
| 12-10-2013/0530 | 17.3/86.0                       | 155-165 gusting to 180                            | Very Severe Cyclonic Storm |
| 12-10-2013/1730 | 18.5/85.2                       | 175-185 gusting to 200                            | Very Severe Cyclonic Storm |

|                 |           |                     |                 |
|-----------------|-----------|---------------------|-----------------|
| 13-10-2013/0530 | 20.0/84.7 | 70-80 gusting to 90 | Cyclonic Storm  |
| 13-10-2013/1730 | 21.2/84.4 | 50-60 gusting to 70 | Deep Depression |
| 14-10-2013/0530 | 22.0/84.4 | 35-45 gusting to 55 | Depression      |

Under the influence of this system, rainfall at most places with heavy to very heavy falls at a few places and isolated extremely heavy falls (  $\sim$  25cm) would occur over Andaman and Nicobar Islands during next 12 hrs. Isolated heavy to very heavy rainfall would occur in subsequent 24 hrs.

Squally winds speed reaching 50-60kmph gusting to 70 kmph would prevail over Andaman Nicobar Islands and adjoining sea areas during next 24 hours. Sea condition will be very rough along and off Andaman and Nicobar Islands during next 24 hrs.

#### **Damage expected over Andaman and Nicobar Islands**

Damage to thatched huts. Breaking of tree branches causing minor damage to power and communication lines.

#### **Action suggested.**

Fishermen are advised not to venture into Andaman sea and adjoining east central Bay of Bengal during next 48 hrs. Fishermen out at sea along north AP, Odisha and West Bengal coast are advised to return to coast.

**The next bulletin will be issued at 2330 hrs IST of today, the 09<sup>th</sup> October, 2013.**

(M.Mohapatra)

Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumbai (022-22630084) /Command MO Visakhapatnam (0891-2709086)/ MO Port Blair (03192-229480).





भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

FAX MESSAGE

FROM: INDIA METEOROLOGICAL DEPARTMENT (Fax No. 24699216/24623220)

To: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750,23092398)  
CONTROL ROOM NDMA ( FAX.NO.26701729)  
CABINET SECRETARIAT (FAX.NO.23793144)  
PS TO HON'BLE MINISTER FOR SCIENCE AND TECHNOLOGY AND EARTH SCIENCES (FAX NO.23316745)  
SECRETARY, MoES, (Fax No. 24629777)  
SECRETARY, DST (Fax No. 26863847/-2418)  
H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)  
DIRECTOR GENERAL, DOORDARSHAN (23385843)  
DIRECTOR GENERAL, AIR (25843825)  
PIB MoES ( FAX NO. 23389042)  
UNI (FAX NO. 23355841)  
D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX No. 26105912)  
DIRECTOR OF PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)  
CHIEF SECRETARY, GOVT. OF ANDAMAN & NICOBAR ISLAND (FAX NO. 03192-223331)  
CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674-2536660)  
CHIEF SECRETARY, GOVT. OF PUDUCHERRY (FAX NO. 0413-2337575)  
CHIEF SECRETARY, GOVT OF ANDHRA PRADESH (FAX No. 040-23453700)

Time of issue: 2000 hours IST

Dated: 09-10-2013

Bulletin No.: BOB 04/2013/10

Sub: Cyclonic storm, PHAILIN in East central Bay of Bengal:  
Cyclone Alert for North Andhra Pradesh and Orissa Coast. Cyclone Warning for Andaman & Nicobar Island

The cyclonic storm, **PHAILIN** over east central Bay of Bengal remained practically stationery, and lay centred at 2030 hrs IST of today, 09<sup>th</sup> October 2013 over near latitude 13.5°N and longitude 92.5°E, about 220 km north-northwest of Port Blair, 950km southeast of Paradip, 1100 km east-southeast of Visakhapatnam. The system would intensify into a severe cyclonic storm during next 24 hours. It would continue to move west-northwestwards for some time and then northwestwards and cross north Andhra Pradesh and Odisha coast between Kalingapatnam and Paradip by night of 12<sup>th</sup> October, 2013 as a very severe cyclonic storm with a maximum sustained wind speed of 175-185 kmph.

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(IST)  | Position<br>(Lat. °N/ Long. °E) | Sustained maximum<br>surface wind speed<br>(kmph) | Category                   |
|-----------------|---------------------------------|---|----------------------------|
| 09-10-2013/2030 | 13.6/92.5                       | 65-75 gusting to 85                               | Cyclonic Storm             |
| 09-10-2013/2330 | 13.8/92.0                       | 70-80 gusting to 90                               | Cyclonic Storm             |
| 10-10-2013/0530 | 14.3/91.0                       | 75-85 gusting to 95                               | Cyclonic Storm             |
| 10-10-2013/1130 | 14.7/90.4                       | 85-95 gusting to 105                              | Cyclonic Storm             |
| 10-10-2013/1730 | 15.2/89.8                       | 95-105 gusting to 120                             | Severe Cyclonic Storm      |
| 11-10-2013/0530 | 15.7/88.3                       | 115-125 gusting to 140                            | Severe Cyclonic Storm      |
| 11-10-2013/1730 | 16.5/87.1                       | 135-145 gusting to 160                            | Very Severe Cyclonic Storm |

|                 |           |                        |                            |
|-----------------|-----------|------------------------|----------------------------|
| 12-10-2013/0530 | 17.3/86.0 | 155-165 gusting to 180 | Very Severe Cyclonic Storm |
| 12-10-2013/1730 | 18.5/85.2 | 175-185 gusting to 200 | Very Severe Cyclonic Storm |
| 13-10-2013/0530 | 20.0/84.7 | 70-80 gusting to 90    | Cyclonic Storm             |
| 13-10-2013/1730 | 21.2/84.4 | 50-60 gusting to 70    | Deep Depression            |
| 14-10-2013/0530 | 22.0/84.4 | 35-45 gusting to 55    | Depression                 |

Under the influence of this system, rainfall at most places with heavy to very heavy falls at a few places and isolated extremely heavy falls (  $\sim$  25cm) would occur over Andaman and Nicobar Islands during next 12 hrs. Isolated heavy to very heavy rainfall would occur in subsequent 24 hrs.

Squally winds speed reaching 50-60kmph gusting to 70 kmph would prevail over Andaman Nicobar Islands and adjoining sea areas during next 24 hours. Sea condition will be very rough along and off Andaman and Nicobar Islands during next 24 hrs.

#### **Damage expected over Andaman and Nicobar Islands**

Damage to thatched huts. Breaking of tree branches causing minor damage to power and communication lines.

#### **Action suggested.**

Fishermen are advised not to venture into Andaman sea and adjoining east central Bay of Bengal during next 48 hrs. Fishermen out at sea along north AP, Odisha and West Bengal coast are advised to return to coast.

**The next bulletin will be issued at 0230 hrs IST of tomorrow, the 10<sup>th</sup> October, 2013.**

(Ranjeet Singh)

Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumbai (022-22630084) /Command MO Visakhapatnam (0891-2709086)/ MO Port Blair (03192-229480).



भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

FAX MESSAGE

FROM: INDIA METEOROLOGICAL DEPARTMENT (Fax No. 24699216/24623220)

To: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750,23092398)  
CONTROL ROOM NDMA ( FAX.NO.26701729)  
CABINET SECRETARIAT (FAX.NO.23793144)  
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D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX No. 26105912)  
DIRECTOR OF PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)  
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CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674-2536660)  
CHIEF SECRETARY, GOVT. OF PUDUCHERRY (FAX NO. 0413-2337575)  
CHIEF SECRETARY, GOVT OF ANDHRA PRADESH (FAX No. 040-23453700)

Time of issue: 0130 hours IST

Dated: 10-10-2013

Bulletin No.: BOB 04/2013/11

Sub: Cyclonic storm, PHAILIN in East central Bay of Bengal:  
Cyclone Alert for North Andhra Pradesh and Orissa Coast. Cyclone Warning for Andaman & Nicobar Island

The cyclonic storm, **PHAILIN** over east central Bay of Bengal remained practically stationery, and lay centred at 2330 hrs IST of 09<sup>th</sup> October 2013 over near latitude 13.5<sup>o</sup>N and longitude 92.5<sup>o</sup>E, about 220 km north-northwest of Port Blair, 950km southeast of Paradip, 1100 km east-southeast of Visakhapatnam. The system would intensify into a severe cyclonic storm during next 24 hours. It would continue to move west-northwestwards for some time and then northwestwards and cross north Andhra Pradesh and Odisha coast between Kalingapatnam and Paradip by night of 12<sup>th</sup> October, 2013 as a very severe cyclonic storm with a maximum sustained wind speed of 175-185 kmph.

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(IST)  | Position<br>(Lat. <sup>o</sup> N/ Long. <sup>o</sup> E) | Sustained maximum<br>surface wind speed<br>(kmph) | Category                   |
|-----------------|---|---|----------------------------|
| 09-10-2013/2330 | 13.5/92.5   | 65-75 gusting to 85                               | Cyclonic Storm             |
| 10-10-2013/0530 | 14.3/91.0   | 75-85 gusting to 95                               | Cyclonic Storm             |
| 10-10-2013/1130 | 14.7/90.4   | 85-95 gusting to 105                              | Cyclonic Storm             |
| 10-10-2013/1730 | 15.2/89.8   | 95-105 gusting to 120                             | Severe Cyclonic Storm      |
| 11-10-2013/0530 | 15.7/88.3   | 115-125 gusting to 140                            | Severe Cyclonic Storm      |
| 11-10-2013/1730 | 16.5/87.1   | 135-145 gusting to 160                            | Very Severe Cyclonic Storm |
| 12-10-2013/0530 | 17.3/86.0   | 155-165 gusting to 180                            | Very Severe Cyclonic Storm |

|                 |           |                        |                            |
|-----------------|-----------|------------------------|----------------------------|
| 12-10-2013/1730 | 18.5/85.2 | 175-185 gusting to 200 | Very Severe Cyclonic Storm |
| 13-10-2013/0530 | 20.0/84.7 | 70-80 gusting to 90    | Cyclonic Storm             |
| 13-10-2013/1730 | 21.2/84.4 | 50-60 gusting to 70    | Deep Depression            |
| 14-10-2013/0530 | 22.0/84.4 | 35-45 gusting to 55    | Depression                 |

Under the influence of this system, rainfall at most places with heavy to very heavy falls at a few places and isolated extremely heavy falls (  $\sim$  25cm) would occur over Andaman and Nicobar Islands during next 12 hrs. Isolated heavy to very heavy rainfall would occur in subsequent 24 hrs.

Squally winds speed reaching 50-60kmph gusting to 70 kmph would prevail over Andaman Nicobar Islands and adjoining sea areas during next 24 hours. Sea condition will be very rough along and off Andaman and Nicobar Islands during next 24 hrs.

#### **Damage expected over Andaman and Nicobar Islands**

Damage to thatched huts. Breaking of tree branches causing minor damage to power and communication lines.

#### **Action suggested.**

Fishermen are advised not to venture into Andaman sea and adjoining east central Bay of Bengal during next 48 hrs. Fishermen out at sea along north AP, Odisha and West Bengal coast are advised to return to coast.

**The next bulletin will be issued at 0530 hrs IST of today, the 10<sup>th</sup> October, 2013.**

(Ranjeet Singh)

Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumbai (022-22630084) /Command MO Visakhapatnam (0891-2709086)/ MO Port Blair (03192-229480).



भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

FAX MESSAGE

FROM: INDIA METEOROLOGICAL DEPARTMENT (Fax No. 24699216/24623220)

To: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750,23092398)  
CONTROL ROOM NDMA ( FAX.NO.26701729)  
CABINET SECRETARIAT (FAX.NO.23793144)  
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SECRETARY, MoES, (Fax No. 24629777)  
SECRETARY, DST (Fax No. 26863847/-2418)  
H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)  
DIRECTOR GENERAL, DOORDARSHAN (23385843)  
DIRECTOR GENERAL, AIR (25843825)  
PIB MoES ( FAX NO. 23389042)  
UNI (FAX NO. 23355841)  
D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX No. 26105912)  
DIRECTOR OF PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)  
CHIEF SECRETARY, GOVT. OF ANDAMAN & NICOBAR ISLAND (FAX NO. 03192-223331)  
CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674-2536660)  
CHIEF SECRETARY, GOVT. OF PUDUCHERRY (FAX NO. 0413-2337575)  
CHIEF SECRETARY, GOVT OF ANDHRA PRADESH (FAX No. 040-23453700)

Time of issue: 0830 hours IST

Dated: 10-10-2013

Bulletin No.: BOB 04/2013/12

Sub: Cyclonic storm, PHAILIN in East central Bay of Bengal:  
Cyclone Alert for North Andhra Pradesh and Orissa Coast. Cyclone Warning for Andaman & Nicobar Island

The cyclonic storm, **PHAILIN** over east central Bay of Bengal moved slightly northwestwards intensified further and lay centred at 0230 hrs IST of today the 10<sup>th</sup> October 2013 near latitude 14.3<sup>0</sup>N and longitude 91.5.0<sup>0</sup>E, about 900km southsouth east of Paradip, 950km south east of Kalingapatnam, 1000 km east-southeast of Visakhapatnam. The system would intensify into a severe cyclonic storm during next 24 hours. It would continue to move northwest wards and cross north Andhra Pradesh and Odisha coast between Kalingapatnam and Paradip by night of 12<sup>th</sup> October, 2013 as a very severe cyclonic storm with a maximum sustained wind speed of 175-185 kmph.

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(IST)  | Position<br>(Lat. <sup>0</sup> N/ Long. <sup>0</sup> E) | Sustained maximum<br>surface wind speed<br>(kmph) | Category                   |
|-----------------|---|---|----------------------------|
| 09-10-2013/0230 | 14.0/92.0   | 65-75 gusting to 85                               | Cyclonic Storm             |
| 10-10-2013/0530 | 14.3/91.0   | 75-85 gusting to 95                               | Cyclonic Storm             |
| 10-10-2013/1130 | 14.7/90.4   | 85-95 gusting to 105                              | Cyclonic Storm             |
| 10-10-2013/1730 | 15.2/89.8   | 95-105 gusting to 120                             | Severe Cyclonic Storm      |
| 11-10-2013/0530 | 15.7/88.3   | 115-125 gusting to 140                            | Severe Cyclonic Storm      |
| 11-10-2013/1730 | 16.5/87.1   | 135-145 gusting to 160                            | Very Severe Cyclonic Storm |
| 12-10-2013/0530 | 17.3/86.0   | 155-165 gusting to 180                            | Very Severe Cyclonic Storm |

|                 |           |                        |                            |
|-----------------|-----------|------------------------|----------------------------|
| 12-10-2013/1730 | 18.5/85.2 | 175-185 gusting to 200 | Very Severe Cyclonic Storm |
| 13-10-2013/0530 | 20.0/84.7 | 70-80 gusting to 90    | Cyclonic Storm             |
| 13-10-2013/1730 | 21.2/84.4 | 50-60 gusting to 70    | Deep Depression            |
| 14-10-2013/0530 | 22.0/84.4 | 35-45 gusting to 55    | Depression                 |

Under the influence of this system, rainfall at most places with heavy to very heavy falls at a few places and isolated extremely heavy falls (  $\sim$  25cm) would occur over Andaman and Nicobar Islands during next 12 hrs. Isolated heavy to very heavy rainfall would occur in subsequent 24 hrs.

Squally winds speed reaching 50-60kmph gusting to 70 kmph would prevail over Andaman Nicobar Islands and adjoining sea areas during next 24 hours. Sea condition will be very rough along and off Andaman and Nicobar Islands during next 24 hrs.

**Damage expected over Andaman and Nicobar Islands**

Damage to thatched huts. Breaking of tree branches causing minor damage to power and communication lines.

**Action suggested.**

Fishermen are advised not to venture into Andaman sea and adjoining east central Bay of Bengal during next 48 hrs. Fishermen out at sea along north AP, Odisha and West Bengal coast are advised to return to coast.

**The next bulletin will be issued at 0830 hrs IST of today, the 10<sup>th</sup> October, 2013.**

(Ranjeet Singh)

Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumbai (022-22630084) /Command MO Visakhapatnam (0891-2709086)/ MO Port Blair (03192-229480).



भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

FAX MESSAGE

FROM: INDIA METEOROLOGICAL DEPARTMENT (Fax No. 24699216/24623220)

To: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750,23092398)  
CONTROL ROOM NDMA ( FAX.NO.26701729)  
CABINET SECRETARIAT (FAX.NO.23793144)  
PS TO HON'BLE MINISTER FOR SCIENCE AND TECHNOLOGY AND EARTH SCIENCES (FAX NO.23316745)  
SECRETARY, MoES, (Fax No. 24629777)  
SECRETARY, DST (Fax No. 26863847/-2418)  
H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)  
DIRECTOR GENERAL, DOORDARSHAN (23385843)  
DIRECTOR GENERAL, AIR (25843825)  
PIB MoES ( FAX NO. 23389042)  
UNI (FAX NO. 23355841)  
D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX No. 26105912)  
DIRECTOR OF PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)  
CHIEF SECRETARY, GOVT. OF ANDAMAN & NICOBAR ISLAND (FAX NO. 03192-223331)  
CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674-2536660)  
CHIEF SECRETARY, GOVT. OF PUDUCHERRY (FAX NO. 0413-2337575)  
CHIEF SECRETARY, GOVT OF ANDHRA PRADESH (FAX No. 040-23453700)  
CHIEF SECRETARY, GOVT OF WEST BENGAL (FAX No. 033-22144328)  
CHIEF SECRETARY, GOVT OF JHARKHAND (FAX No. 0651-2400255)  
CHIEF SECRETARY, GOVT OF CHATTISGARH (FAX No. 0771-2221206)

Time of issue: 0830 hours IST

Dated: 10-10-2013

Bulletin No.: BOB 04/2013/13

Sub: Cyclonic storm, PHAILIN in East central Bay of Bengal:  
Cyclone Alert for North Andhra Pradesh and Orissa Coast. Cyclone Warning for Andaman & Nicobar Island

The cyclonic storm, **PHAILIN** over east central Bay of Bengal moved slightly northwest wards intensified further and lay centred at 0530 hrs IST of today the 10<sup>th</sup> October 2013 as cyclonic storm near latitude 14.5<sup>0</sup>N and longitude 91.5<sup>0</sup>E, about 850km southeast of Paradip, 900km eastsouth-east of Kalingapatnam, and 950 km east-southeast of Visakhapatnam. The system would intensify into a severe cyclonic storm during next 12 hours. It would continue to move northwestwards and cross north Andhra Pradesh and Odisha coast between Kalingapatnam and Paradip by night of 12<sup>th</sup> October, 2013 as a very severe cyclonic storm with a maximum sustained wind speed of 175-185 kmph.

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(IST)  | Position<br>(Lat. <sup>0</sup> N/ Long. <sup>0</sup> E) | Sustained maximum<br>surface wind speed<br>(kmph) | Category              |
|-----------------|---|---|-----------------------|
| 10-10-2013/0530 | 14.5/91.5   | 75-85 gusting to 95                               | Cyclonic Storm        |
| 10-10-2013/1130 | 14.7/90.8   | 80-90 gusting to 100                              | Severe Cyclonic Storm |
| 10-10-2013/1730 | 15.2/90.2   | 90-100 gusting to 110                             | Severe Cyclonic Storm |
| 10-10-2013/2330 | 15.6/89.5   | 100-110 gusting to 120                            | Severe Cyclonic Storm |

|                 |           |                        |                            |
|-----------------|-----------|------------------------|----------------------------|
| 11-10-2013/0530 | 16.1/88.5 | 120-130 gusting to 140 | Severe Cyclonic Storm      |
| 11-10-2013/1730 | 16.9/87.3 | 140-150 gusting to 165 | Very Severe Cyclonic Storm |
| 12-10-2013/0530 | 17.5/86.1 | 160-170 gusting to 180 | Very Severe Cyclonic Storm |
| 12-10-2013/1730 | 18.7/85.1 | 175-185 gusting to 200 | Very Severe Cyclonic Storm |
| 13-10-2013/0530 | 20.0/84.7 | 90-100 gusting to 110  | Severe Cyclonic Storm      |
| 13-10-2013/1730 | 21.2/84.4 | 50-60 gusting to 70    | Deep Depression            |
| 14-10-2013/0530 | 22.0/84.4 | 35-45 gusting to 55    | Depression                 |

Under the influence of this system, rainfall at most places with heavy to very heavy falls at a few places and isolated extremely heavy falls (  $\sim$  25cm) would occur over Andaman and Nicobar Islands during next 12 hrs. Isolated heavy to very heavy rainfall would occur in subsequent 24 hrs.

Squally winds speed reaching 50-60kmph gusting to 70 kmph would prevail over Andaman Nicobar Islands and adjoining sea areas during next 24 hours. Sea condition will be very rough along and off Andaman and Nicobar Islands during next 24 hrs.

#### **Damage expected over Andaman and Nicobar Islands**

Damage to thatched huts. Breaking of tree branches causing minor damage to power and communication lines.

#### **Action suggested.**

Fishermen are advised not to venture into Andaman sea and adjoining east central Bay of Bengal during next 48 hrs. Fishermen out at sea along north AP, Odisha and West Bengal coast are advised to return to coast.

**The next bulletin will be issued at 1130 hrs IST of today, the 10<sup>th</sup> October, 2013.**

(M.Mohapatra)

Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumbai (022-22630084) /Command MO Visakhapatnam (0891-2709086)/ MO Port Blair (03192-229480).





भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

FAX MESSAGE

FROM: INDIA METEOROLOGICAL DEPARTMENT (Fax No. 24699216/24623220)  
To: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750,23092398)  
CONTROL ROOM NDMA ( FAX.NO.26701729)  
CABINET SECRETARIAT (FAX.NO.23793144)  
PS TO HON'BLE MINISTER FOR SCIENCE AND TECHNOLOGY AND EARTH SCIENCES  
(FAX NO.23316745)  
SECRETARY, MoES, (Fax No. 24629777)  
SECRETARY, DST (Fax No. 26863847/-2418)  
H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)  
DIRECTOR GENERAL, DOORDARSHAN (23385843)  
DIRECTOR GENERAL, AIR (25843825)  
PIB MoES ( FAX NO. 23389042)  
UNI (FAX NO. 23355841)  
D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX No. 26105912)  
DIRECTOR OF PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)  
CHIEF SECRETARY, GOVT. OF ANDAMAN & NICOBAR ISLAND (FAX NO. 03192-223331)  
CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674-2536660)  
CHIEF SECRETARY, GOVT. OF PUDUCHERRY (FAX NO. 0413-2337575)  
CHIEF SECRETARY, GOVT OF ANDHRA PRADESH (FAX No. 040-23453700)  
CHIEF SECRETARY, GOVT OF WEST BENGAL (FAX No. 033-22144328)  
CHIEF SECRETARY, GOVT OF JHARKHAND (FAX No. 0651-2400255)  
CHIEF SECRETARY, GOVT OF CHATTISGARH (FAX No. 0771-2221206)

Time of issue: 1200 hours IST

Dated: 10-10-2013

Bulletin No.: BOB 04/2013/14 (Orange Message)

**Sub: Severe Cyclonic Storm, PHAILIN in East central Bay of Bengal:  
Cyclone Warning for North Andhra Pradesh and Orissa Coast.**

The cyclonic storm, **PHAILIN** over east central Bay of Bengal moved slightly west wards, intensified into a severe cyclonic storm and lay centred at 0830 hrs IST of today the 10<sup>th</sup> October 2013 near latitude 14.5<sup>o</sup>N and longitude 91.0<sup>o</sup>E, about 820km southeast of Paradip, 870km east-southeast of Kalingapatnam, and 900 km east-southeast of Visakhapatnam. The system would intensify into a very severe cyclonic storm during next 24 hours. It would continue to move northwestwards and cross north Andhra Pradesh and Odisha coast between Kalingapatnam and Paradip, close to Gopalpur (Odisha) by evening of 12<sup>th</sup> October, 2013 as a very severe cyclonic storm with a maximum sustained wind speed of 175-185 kmph.

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(IST)  | Position<br>(Lat. <sup>o</sup> N/ Long. <sup>o</sup> E) | Sustained maximum surface<br>wind speed (kmph) | Category                   |
|-----------------|---|--|----------------------------|
| 10-10-2013/0830 | 14.5/91.0   | 90-100 gusting to 110                          | Severe Cyclonic Storm      |
| 10-10-2013/1130 | 15.0/90.4   | 100-110 gusting to 120                         | Severe Cyclonic Storm      |
| 10-10-2013/1730 | 15.4/89.7   | 120-130 gusting to 140                         | Very Severe Cyclonic Storm |
| 10-10-2013/2330 | 15.8/89.0   | 140-150 gusting to 165                         | Very Severe Cyclonic Storm |
| 11-10-2013/0530 | 16.2/88.2   | 160-170 gusting to 185                         | Very Severe Cyclonic Storm |
| 11-10-2013/1730 | 17.0/86.8   | 170-180 gusting to 200                         | Very Severe Cyclonic Storm |
| 12-10-2013/0530 | 17.8/85.8   | 175-185 gusting to 200                         | Very Severe Cyclonic Storm |
| 12-10-2013/1730 | 19.2/84.9   | 175-185 gusting to 200                         | Very Severe Cyclonic Storm |
| 13-10-2013/0530 | 20.6/84.6   | 75-85 gusting to 95                            | Cyclonic Storm             |
| 13-10-2013/1730 | 22.0/84.2   | 50-60 gusting to 70                            | Deep Depression            |

**(A) Warning for Odisha, Andhra Pradesh and West Bengal**

**(i) Heavy Rainfall:** Under the influence of this system, rainfall at most places with heavy to very heavy falls at a few places with isolated extremely heavy falls ( $\sim$  25cm) would occur over coastal Odisha commencing from 12<sup>th</sup> October 2013 morning. It would continue and extend to interior Odisha and coastal areas of Gangetic West Bengal from 13<sup>th</sup> morning. Rainfall at most places with heavy to very heavy rainfall would also occur at a few places over north coastal Andhra Pradesh commencing from 12<sup>th</sup> Oct 2013 and isolated heavy to very heavy rainfall would occur over coastal areas of West Bengal commencing from 13<sup>th</sup> Oct. 2013.

**(ii) Gale wind:** Squally winds speed reaching 45-55 kmph gusting to 65 kmph would commence along and off Odisha and north Andhra Pradesh coast from 11<sup>th</sup> morning. It would increase in intensity with gale wind speed reaching 175-185 kmph along and off coastal districts of north coastal Andhra Pradesh and south Odisha at the time of landfall. State of Sea along and off Odisha and north Andhra Pradesh coast will be rough to very rough from 11<sup>th</sup> morning and will become phenomenal on 12<sup>th</sup> October 2013. It will be rough to very rough along and off West Bengal coast during the above period.

**(iii) Storm Surge Guidance:** Storm surge with height of around 1.5-2.0 m above astronomical tide would inundate low lying areas of Ganjam, Khurda, Puri and Jagatsinghpur districts of Odisha and Srikakulam district of Andhra Pradesh during landfall.

**(iv) Damage expected over Odisha and adjoining north Andhra Pradesh:** Extensive damage to kutch houses. Partial disruption of power and communication line. Minor disruption of rail and road traffic. Potential threat from flying debris. Flooding of escape routes. Extensive damage to agricultural crops.

**(v) Action suggested:** Fishermen out at sea along north Andhra Pradesh, Odisha and West Bengal coast are advised to return to coast. Fishermen are advised not to venture into sea.

**Following actions are suggested when the cyclone would be 500 km from the coast (from 11<sup>th</sup> October 2013).**

Total suspension of fishing operations. Mobilise evacuation from coastal areas. Judicious regulation of rail and road traffic. People in affected areas to remain indoors during cyclone landfall.

**(B) Warning for Andaman and Nicobar Islands**

**(i) Heavy rainfall**

Under the influence of this system, rainfall at most places with heavy to very heavy falls at a few places and isolated extremely heavy falls ( $\sim$  25cm) would occur over Andaman and Nicobar Islands during next 12 hrs. Isolated heavy to very heavy rainfall would occur in subsequent 24 hrs.

**(ii) Squally wind**

Squally winds speed reaching 45-55 kmph gusting to 65 kmph would continue to prevail over Andaman Nicobar Islands and adjoining sea areas during next 24 hours. Sea condition will be rough to very rough along and off Andaman and Nicobar Islands during next 24 hrs.

**The next bulletin will be issued at 1430 hrs IST of today, the 10<sup>th</sup> October, 2013.**

(Kamaljit Ray)

Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumbai (022-22630084)/Command MO Visakhapatnam (0891-2709086)/ MO Port Blair (03192-229480).



भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

FAX MESSAGE

FROM: INDIA METEOROLOGICAL DEPARTMENT (Fax No. 24699216/24623220)

To: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750,23092398)  
CONTROL ROOM NDMA ( FAX.NO.26701729)  
CABINET SECRETARIAT (FAX.NO.23793144)  
PS TO HON'BLE MINISTER FOR SCIENCE AND TECHNOLOGY AND EARTH SCIENCES  
(FAX NO.23316745)  
SECRETARY, MoES, (Fax No. 24629777)  
SECRETARY, DST (Fax No. 26863847/-2418)  
H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)  
DIRECTOR GENERAL, DOORDARSHAN (23385843)  
DIRECTOR GENERAL, AIR (25843825)  
PIB MoES ( FAX NO. 23389042)  
UNI (FAX NO. 23355841)  
D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX No. 26105912)  
DIRECTOR OF PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)  
CHIEF SECRETARY, GOVT. OF ANDAMAN & NICOBAR ISLAND (FAX NO. 03192-223331)  
CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674-2536660)  
CHIEF SECRETARY, GOVT. OF PUDUCHERRY (FAX NO. 0413-2337575)  
CHIEF SECRETARY, GOVT OF ANDHRA PRADESH (FAX No. 040-23453700)  
CHIEF SECRETARY, GOVT OF WEST BENGAL (FAX No. 033-22144328)  
CHIEF SECRETARY, GOVT OF JHARKHAND (FAX No. 0651-2400255)  
CHIEF SECRETARY, GOVT OF CHATTISGARH (FAX No. 0771-2221206)

Time of issue: 0230 hours IST

Dated: 10-10-2013

Bulletin No.: BOB 04/2013/15 (Orange Message)

**Sub: Very Severe Cyclonic Storm, PHAILIN in East central Bay of Bengal:  
Cyclone Warning for North Andhra Pradesh and Orissa Coast.**

The Severe cyclonic storm, **PHAILIN** over east central Bay of Bengal moved Northwest wards, intensified into a very severe cyclonic storm and lay centred at 1130 hrs IST of today the 10<sup>th</sup> October 2013 near latitude 15.0°N and longitude 90.5°E, about 800km southeast of Paradip, 850km east-southeast of Kalingapatnam, and 870 km east-southeast of Visakhapatnam. It would continue to move northwestwards and cross north Andhra Pradesh and Odisha coast between Kalingapatnam and Paradip, close to Gopalpur (Odisha) by evening of 12<sup>th</sup> October, 2013 as a very severe cyclonic storm with a maximum sustained wind speed of 175-185 kmph.

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(IST)  | Position<br>(Lat. °N/ Long. °E) | Sustained maximum surface<br>wind speed (kmph) | Category                   |
|-----------------|---------------------------------|--|----------------------------|
| 10-10-2013/1130 | 15.0/90.5                       | 120-130 gusting to 140                         | Very Severe Cyclonic Storm |
| 10-10-2013/1730 | 15.4/89.7                       | 130-140 gusting to 150                         | Very Severe Cyclonic Storm |
| 10-10-2013/2330 | 15.8/89.0                       | 140-150 gusting to 160                         | Very Severe Cyclonic Storm |
| 11-10-2013/0530 | 16.2/88.2                       | 150-160 gusting to 170                         | Very Severe Cyclonic Storm |
| 11-10-2013/1130 | 16.6/87.5                       | 160-170 gusting to 185                         | Very Severe Cyclonic Storm |
| 11-10-2013/2330 | 17.4/86.3                       | 170-180 gusting to 200                         | Very Severe Cyclonic Storm |

|                 |           |                        |                            |
|-----------------|-----------|------------------------|----------------------------|
| 12-10-2013/1130 | 18.5/85.4 | 175-185 gusting to 200 | Very Severe Cyclonic Storm |
| 12-10-2013/2330 | 19.9/84.7 | 175-185 gusting to 200 | Very Severe Cyclonic Storm |
| 13-10-2013/1130 | 20.6/84.6 | 75-85 gusting to 95    | Cyclonic storm             |
| 13-10-2013/2330 | 22.0/84.2 | 50-60 gusting to 70    | Deep Depression            |

**(C) Warning for Odisha, Andhra Pradesh and West Bengal**

**(iii) Heavy Rainfall:** Under the influence of this system, rainfall at most places with heavy to very heavy falls at a few places with isolated extremely heavy falls (~ 25cm) would occur over coastal Odisha commencing from 12<sup>th</sup> October 2013 morning. It would continue and extend to interior Odisha and coastal areas of Gangetic West Bengal from 13<sup>th</sup> morning. Rainfall at most places with heavy to very heavy rainfall would also occur at a few places over north coastal Andhra Pradesh commencing from 12<sup>th</sup> Oct 2013 and isolated heavy to very heavy rainfall would occur over coastal areas of West Bengal commencing from 13<sup>th</sup> Oct. 2013.

**(iv) Gale wind:** Squally winds speed reaching 45-55 kmph gusting to 65 kmph would commence along and off Odisha and north Andhra Pradesh coast from 11<sup>th</sup> morning. It would increase in intensity with gale wind speed reaching 175-185 kmph along and off coastal districts of north coastal Andhra Pradesh and south Odisha at the time of landfall. State of Sea along and off Odisha and north Andhra Pradesh coast will be rough to very rough from 11<sup>th</sup> morning and will become phenomenal on 12<sup>th</sup> October 2013. It will be rough to very rough along and off West Bengal coast during the above period.

**(iii) Storm Surge Guidance:** Storm surge with height of around 1.5-2.0 m above astronomical tide would inundate low lying areas of Ganjam, Khurda, Puri and Jagatsinghpur districts of Odisha and Srikakulam district of Andhra Pradesh during landfall.

**(iv) Damage expected over Odisha and adjoining north Andhra Pradesh:** Extensive damage to kutch houses. Partial disruption of power and communication line. Minor disruption of rail and road traffic. Potential threat from flying debris. Flooding of escape routes. Extensive damage to agricultural crops.

**(v) Action suggested:** Fishermen out at sea along north Andhra Pradesh, Odisha and West Bengal coast are advised to return to coast. Fishermen are advised not to venture into sea.

**Following actions are suggested when the cyclone would be 500 km from the coast (from 11<sup>th</sup> October 2013).**

Total suspension of fishing operations. Mobilise evacuation from coastal areas. Judicious regulation of rail and road traffic. People in affected areas to remain indoors during cyclone landfall.

**(D) Warning for Andaman and Nicobar Islands**

**(ii) Heavy rainfall**

Under the influence of this system, rainfall at most places with heavy to very heavy falls at a few places and isolated extremely heavy falls (~ 25cm) would occur over Andaman and Nicobar Islands during next 12 hrs. Isolated heavy to very heavy rainfall would occur in subsequent 24 hrs.

**(ii) Squally wind**

Squally winds speed reaching 45-55 kmph gusting to 65 kmph would continue to prevail over Andaman Nicobar Islands and adjoining sea areas during next 24 hours. Sea condition will be rough to very rough along and off Andaman and Nicobar Islands during next 24 hrs.

**The next bulletin will be issued at 1730 hrs IST of today, the 10<sup>th</sup> October, 2013.**

(Kamaljit Ray)

Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumbai (022-22630084) /Command MO Visakhapatnam (0891-2709086)/ MO Port Blair (03192-229480).



भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

FAX MESSAGE

FROM: INDIA METEOROLOGICAL DEPARTMENT (Fax No. 24699216/24623220)

To: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750,23092398)  
CONTROL ROOM NDMA ( FAX.NO.26701729)  
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CHIEF SECRETARY, GOVT OF WEST BENGAL (FAX No. 033-22144328)  
CHIEF SECRETARY, GOVT OF JHARKHAND (FAX No. 0651-2400255)  
CHIEF SECRETARY, GOVT OF CHATTISGARH (FAX No. 0771-2221206)

Time of issue: 1700 hours IST

Dated: 10-10-2013

Bulletin No.: BOB 04/2013/16 (Orange Message)

**Sub: Very Severe Cyclonic Storm, PHAILIN in East central Bay of Bengal:  
Cyclone Warning for North Andhra Pradesh and Odisha Coast.**

The very severe cyclonic storm, **PHAILIN** over east central Bay of Bengal remained practically stationary and lay centred at 1430 hrs IST of today the 10<sup>th</sup> October 2013 near latitude 15.0°N and longitude 90.5°E, about 800km southeast of Paradip, 850km east-southeast of Kalingapatnam, and 870 km east-southeast of Visakhapatnam. It would continue to move northwestwards and cross north Andhra Pradesh and Odisha coast between Kalingapatnam and Paradip, close to Gopalpur (Odisha) by evening of 12<sup>th</sup> October, 2013 as a very severe cyclonic storm with a maximum sustained wind speed of 175-185 kmph.

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(IST)  | Position<br>(Lat. °N/ Long. °E) | Sustained maximum surface<br>wind speed (kmph) | Category                   |
|-----------------|---------------------------------|--|----------------------------|
| 10-10-2013/1430 | 15.0/90.5                       | 120-130 gusting to 140                         | Very Severe Cyclonic Storm |
| 10-10-2013/1730 | 15.4/89.7                       | 130-140 gusting to 150                         | Very Severe Cyclonic Storm |
| 10-10-2013/2330 | 15.8/89.0                       | 140-150 gusting to 160                         | Very Severe Cyclonic Storm |
| 11-10-2013/0530 | 16.2/88.2                       | 150-160 gusting to 170                         | Very Severe Cyclonic Storm |
| 11-10-2013/1130 | 16.6/87.5                       | 160-170 gusting to 185                         | Very Severe Cyclonic Storm |
| 11-10-2013/2330 | 17.4/86.3                       | 170-180 gusting to 200                         | Very Severe Cyclonic Storm |
| 12-10-2013/1130 | 18.5/85.4                       | 175-185 gusting to 200                         | Very Severe Cyclonic Storm |

|                 |           |                        |                            |
|-----------------|-----------|------------------------|----------------------------|
| 12-10-2013/2330 | 19.9/84.7 | 175-185 gusting to 200 | Very Severe Cyclonic Storm |
| 13-10-2013/1130 | 20.6/84.6 | 75-85 gusting to 95    | Cyclonic storm             |
| 13-10-2013/2330 | 22.0/84.2 | 50-60 gusting to 70    | Deep Depression            |

**(E) Warning for Odisha, Andhra Pradesh and West Bengal**

**(v) Heavy Rainfall:** Under the influence of this system, rainfall at most places with heavy to very heavy falls at a few places with isolated extremely heavy falls ( $\sim$  25cm) would occur over coastal Odisha commencing from 12<sup>th</sup> October 2013 morning. It would continue and extend to interior Odisha and coastal areas of Gangetic West Bengal from 13<sup>th</sup> morning. Rainfall at most places with heavy to very heavy rainfall would also occur at a few places over north coastal Andhra Pradesh commencing from 12<sup>th</sup> Oct 2013 and isolated heavy to very heavy rainfall would occur over coastal areas of West Bengal commencing from 13<sup>th</sup> Oct. 2013.

**(vi) Gale wind:** Squally winds speed reaching 45-55 kmph gusting to 65 kmph would commence along and off Odisha and north Andhra Pradesh coast from 11<sup>th</sup> morning. It would increase in intensity with gale wind speed reaching 175-185 kmph along and off coastal districts of north coastal Andhra Pradesh and south Odisha at the time of landfall. State of Sea along and off Odisha and north Andhra Pradesh coast will be rough to very rough from 11<sup>th</sup> morning and will become phenomenal on 12<sup>th</sup> October 2013. It will be rough to very rough along and off West Bengal coast during the above period.

**(iii) Storm Surge Guidance:** Storm surge with height of around 1.5-2.0 m above astronomical tide would inundate low lying areas of Ganjam, Khurda, Puri and Jagatsinghpur districts of Odisha and Srikakulam district of Andhra Pradesh during landfall.

**(iv) Damage expected over Odisha and adjoining north Andhra Pradesh:** Extensive damage to kutcha houses. Partial disruption of power and communication line. Minor disruption of rail and road traffic. Potential threat from flying debris. Flooding of escape routes. Extensive damage to agricultural crops.

**(v) Action suggested:** Fishermen out at sea along north Andhra Pradesh, Odisha and West Bengal coast are advised to return to coast. Fishermen are advised not to venture into sea.

**Following actions are suggested when the cyclone would be 500 km from the coast (from 11<sup>th</sup> October 2013).**

Total suspension of fishing operations. Mobilise evacuation from coastal areas. Judicious regulation of rail and road traffic. People in affected areas to remain indoors during cyclone landfall.

**(F) Warning for Andaman and Nicobar Islands**

**(iii) Heavy rainfall**

Under the influence of this system, rainfall at most places with heavy to very heavy falls at a few places and isolated extremely heavy falls ( $\sim$  25cm) would occur over Andaman and Nicobar Islands during next 12 hrs. Isolated heavy to very heavy rainfall would occur in subsequent 24 hrs.

**(ii) Squally wind**

Squally winds speed reaching 45-55 kmph gusting to 65 kmph would continue to prevail over Andaman Nicobar Islands and adjoining sea areas during next 24 hours. Sea condition will be rough to very rough along and off Andaman and Nicobar Islands during next 24 hrs.

**The next bulletin will be issued at 2030 hrs IST of today, the 10<sup>th</sup> October, 2013.**

(Kamaljit Ray)

Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumbai (022-22630084) /Command MO Visakhapatnam (0891-2709086)/ MO Port Blair (03192-229480).



भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

FAX MESSAGE

FROM: INDIA METEOROLOGICAL DEPARTMENT (Fax No. 24699216/24623220)  
To: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750,23092398)  
CONTROL ROOM NDMA ( FAX.NO.26701729)  
CABINET SECRETARIAT (FAX.NO.23793144)  
PS TO HON'BLE MINISTER FOR SCIENCE AND TECHNOLOGY AND EARTH SCIENCES  
(FAX NO.23316745)  
SECRETARY, MoES, (Fax No. 24629777)  
SECRETARY, DST (Fax No. 26863847/-2418)  
H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)  
DIRECTOR GENERAL, DOORDARSHAN (23385843)  
DIRECTOR GENERAL, AIR (25843825)  
PIB MoES ( FAX NO. 23389042)  
UNI (FAX NO. 23355841)  
D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX No. 26105912)  
DIRECTOR OF PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)  
CHIEF SECRETARY, GOVT. OF ANDAMAN & NICOBAR ISLAND (FAX NO. 03192-223331)  
CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674-2536660)  
CHIEF SECRETARY, GOVT. OF PUDUCHERRY (FAX NO. 0413-2337575)  
CHIEF SECRETARY, GOVT OF ANDHRA PRADESH (FAX No. 040-23453700)  
CHIEF SECRETARY, GOVT OF WEST BENGAL (FAX No. 033-22144328)  
CHIEF SECRETARY, GOVT OF JHARKHAND (FAX No. 0651-2400255)  
CHIEF SECRETARY, GOVT OF CHATTISGARH (FAX No. 0771-2221206)

Time of issue: 1930 hours IST

Dated: 10-10-2013

Bulletin No.: BOB 04/2013/17 (Orange Message)

**Sub: Very Severe Cyclonic Storm, PHAILIN over East central Bay of Bengal:  
Cyclone Warning for North Andhra Pradesh and Odisha Coast.**

The very severe cyclonic storm, **PHAILIN** over east central Bay of Bengal moved northwestwards slightly intensified further and lay centred at 1730 hrs IST of today the 10<sup>th</sup> October 2013 near latitude 15.5<sup>o</sup>N and longitude 90.0<sup>o</sup>E, about 650km southeast of Paradip, 700km southeast of Gopalpur, and 700 km east-southeast of Kalingapatnam. It would continue to move northwestwards and cross north Andhra Pradesh and Odisha coast between Kalingapatnam and Paradip, close to Gopalpur (Odisha) by evening of 12<sup>th</sup> October, 2013 as a very severe cyclonic storm with a maximum sustained wind speed of 175-185 kmph.

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(IST)  | Position<br>(Lat. <sup>o</sup> N/ Long. <sup>o</sup> E) | Sustained maximum surface<br>wind speed (kmph) | Category                   |
|-----------------|---|--|----------------------------|
| 10-10-2013/1730 | 15.5/90.0   | 135-145 gusting to 160                         | Very Severe Cyclonic Storm |
| 10-10-2013/2330 | 15.8/89.0   | 145-155 gusting to 170                         | Very Severe Cyclonic Storm |
| 11-10-2013/0530 | 16.2/88.2   | 155-165 gusting to 180                         | Very Severe Cyclonic Storm |
| 11-10-2013/1130 | 16.6/87.5   | 165-175 gusting to 190                         | Very Severe Cyclonic Storm |
| 11-10-2013/1730 | 17.0/86.9   | 175-185 gusting to 200                         | Very Severe Cyclonic Storm |
| 12-10-2013/0530 | 17.9/85.8   | 175-185 gusting to 200                         | Very Severe Cyclonic Storm |
| 12-10-2013/1730 | 19.2/85.0   | 175-185 gusting to 200                         | Very Severe Cyclonic Storm |

|                 |           |                      |                 |
|-----------------|-----------|----------------------|-----------------|
| 13-10-2013/0530 | 20.2/84.5 | 80-90 gusting to 100 | Cyclonic Storm  |
| 13-10-2013/1730 | 21.2/84.2 | 50-60 gusting to 70  | Deep Depression |
| 14-10-2013/0530 | 22.2/83.8 | 40-50 gusting to 60  | Depression      |

**(G) Warning for Odisha, Andhra Pradesh and West Bengal**

**(vii) Heavy Rainfall:** Under the influence of this system, rainfall at most places with heavy to very heavy falls at a few places with isolated extremely heavy falls ( $\sim$  25cm) would occur over coastal Odisha commencing from 12<sup>th</sup> October 2013 morning. It would continue and extend to interior Odisha and coastal areas of Gangetic West Bengal from 13<sup>th</sup> morning. Rainfall at most places with heavy to very heavy rainfall would also occur at a few places over north coastal Andhra Pradesh commencing from 12<sup>th</sup> Oct 2013 and isolated heavy to very heavy rainfall would occur over coastal areas of West Bengal commencing from 13<sup>th</sup> Oct. 2013.

**(viii) Gale wind:** Squally winds speed reaching 45-55 kmph gusting to 65 kmph would commence along and off Odisha and north Andhra Pradesh coast from 11<sup>th</sup> morning. It would increase in intensity with gale wind speed reaching 175-185 kmph along and off coastal districts of north coastal Andhra Pradesh and south Odisha at the time of landfall. State of Sea along and off Odisha and north Andhra Pradesh coast will be rough to very rough from 11<sup>th</sup> morning and will become phenomenal on 12<sup>th</sup> October 2013. It will be rough to very rough along and off West Bengal coast during the above period.

**(iii) Storm Surge Guidance:** Storm surge with height of around 1.5-2.0 m above astronomical tide would inundate low lying areas of Ganjam, Khurda, Puri and Jagatsinghpur districts of Odisha and Srikakulam district of Andhra Pradesh during landfall.

**(iv) Damage expected over Odisha and adjoining north Andhra Pradesh:** Extensive damage to kutcha houses. Partial disruption of power and communication line. Minor disruption of rail and road traffic. Potential threat from flying debris. Flooding of escape routes. Extensive damage to agricultural crops.

**(v) Action suggested:** Fishermen out at sea along north Andhra Pradesh, Odisha and West Bengal coast are advised to return to coast. Fishermen are advised not to venture into sea.

**Following actions are suggested when the cyclone would be 500 km from the coast (from 11<sup>th</sup> October 2013).**

Total suspension of fishing operations. Mobilise evacuation from coastal areas. Judicious regulation of rail and road traffic. People in affected areas to remain indoors during cyclone landfall.

**(H) Warning for Andaman and Nicobar Islands**

**(iv) Heavy rainfall**

Under the influence of this system, rainfall at most places with isolated heavy to very heavy falls would occur over Andaman Islands during next 24 hrs..

**(ii) Squally wind**

Squally winds speed reaching 40 - 50 kmph gusting to 60 kmph would continue to prevail over Andaman Islands and adjoining sea areas during next 12 hours. Sea condition will be rough to very rough along and off Andaman and Nicobar Islands during next 12 hrs.

**Fishermen are advised not to venture into the sea during next 12 hrs.**

**The next bulletin will be issued at 2330 hrs IST of today, the 10<sup>th</sup> October, 2013.**

(M.Mohapatra)

Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumbai (022-22630084) /Command MO Visakhapatnam (0891-2709086)/ MO Port Blair (03192-229480).





भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

FAX MESSAGE

FROM: INDIA METEOROLOGICAL DEPARTMENT (Fax No. 24699216/24623220)

To: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750,23092398)  
CONTROL ROOM NDMA ( FAX.NO.26701729)  
CABINET SECRETARIAT (FAX.NO.23793144)  
PS TO HON'BLE MINISTER FOR SCIENCE AND TECHNOLOGY AND EARTH SCIENCES  
(FAX NO.23316745)  
SECRETARY, MoES, (Fax No. 24629777)  
SECRETARY, DST (Fax No. 26863847/-2418)  
H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)  
DIRECTOR GENERAL, DOORDARSHAN (23385843)  
DIRECTOR GENERAL, AIR (25843825)  
PIB MoES ( FAX NO. 23389042)  
UNI (FAX NO. 23355841)  
D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX No. 26105912)  
DIRECTOR OF PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)  
CHIEF SECRETARY, GOVT. OF ANDAMAN & NICOBAR ISLAND (FAX NO. 03192-223331)  
CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674-2536660)  
CHIEF SECRETARY, GOVT. OF PUDUCHERRY (FAX NO. 0413-2337575)  
CHIEF SECRETARY, GOVT OF ANDHRA PRADESH (FAX No. 040-23453700)  
CHIEF SECRETARY, GOVT OF WEST BENGAL (FAX No. 033-22144328)  
CHIEF SECRETARY, GOVT OF JHARKHAND (FAX No. 0651-2400255)  
CHIEF SECRETARY, GOVT OF CHATTISGARH (FAX No. 0771-2221206)

Time of issue: 2330 hours IST

Dated: 10-10-2013

Bulletin No.: BOB 04/2013/18 (Orange Message)

**Sub: Very Severe Cyclonic Storm, PHAILIN over East central Bay of Bengal:  
Cyclone Warning for North Andhra Pradesh and Odisha Coast.**

The very severe cyclonic storm, **PHAILIN** over east central Bay of Bengal remained practically stationary slightly intensified further and lay centred at 2030 hrs IST of today the 10<sup>th</sup> October 2013 near latitude 15.5°N and longitude 90.0°E, about 650km southeast of Paradip, 700km southeast of Gopalpur, and 700 km east-southeast of Kalingapatnam. It would continue to move northwestwards and cross north Andhra Pradesh and Odisha coast between Kalingapatnam and Paradip, close to Gopalpur (Odisha) by evening of 12<sup>th</sup> October, 2013 as a very severe cyclonic storm with a maximum sustained wind speed of 190-200 kmph.

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(IST)  | Position<br>(Lat. °N/ Long. °E) | Sustained maximum surface<br>wind speed (kmph) | Category                   |
|-----------------|---------------------------------|--|----------------------------|
| 10-10-2013/2030 | 15.5/90.0                       | 160-170 gusting to 185                         | Very Severe Cyclonic Storm |
| 10-10-2013/2330 | 15.8/89.0                       | 165-175 gusting to 190                         | Very Severe Cyclonic Storm |
| 11-10-2013/0530 | 16.2/88.2                       | 175-185 gusting to 200                         | Very Severe Cyclonic Storm |
| 11-10-2013/1130 | 16.6/87.5                       | 175-185 gusting to 200                         | Very Severe Cyclonic Storm |
| 11-10-2013/1730 | 17.0/86.9                       | 185-195 gusting to 210                         | Very Severe Cyclonic Storm |
| 12-10-2013/0530 | 17.9/85.8                       | 190-200 gusting to 215                         | Very Severe Cyclonic Storm |
| 12-10-2013/1730 | 19.2/85.0                       | 190-200 gusting to 215                         | Very Severe Cyclonic Storm |

|                 |           |                      |                 |
|-----------------|-----------|----------------------|-----------------|
| 13-10-2013/0530 | 20.2/84.5 | 80-90 gusting to 100 | Cyclonic Storm  |
| 13-10-2013/1730 | 21.2/84.2 | 50-60 gusting to 70  | Deep Depression |
| 14-10-2013/0530 | 22.2/83.8 | 40-50 gusting to 60  | Depression      |

**(I) Warning for Odisha, Andhra Pradesh and West Bengal**

**(ix) Heavy Rainfall:** Under the influence of this system, rainfall at most places with heavy to very heavy falls at a few places with isolated extremely heavy falls ( $\sim$  25cm) would occur over coastal Odisha commencing from 12<sup>th</sup> October 2013 morning. It would continue and extend to interior Odisha and coastal areas of Gangetic West Bengal from 13<sup>th</sup> morning. Rainfall at most places with heavy to very heavy rainfall would also occur at a few places over north coastal Andhra Pradesh commencing from 12<sup>th</sup> Oct 2013 and isolated heavy to very heavy rainfall would occur over coastal areas of West Bengal commencing from 13<sup>th</sup> Oct. 2013.

**(x) Gale wind:** Squally winds speed reaching 45-55 kmph gusting to 65 kmph would commence along and off Odisha and north Andhra Pradesh coast from 11<sup>th</sup> morning. It would increase in intensity with gale wind speed reaching 175-185 kmph along and off coastal districts of north coastal Andhra Pradesh and south Odisha at the time of landfall. State of Sea along and off Odisha and north Andhra Pradesh coast will be rough to very rough from 11<sup>th</sup> morning and will become phenomenal on 12<sup>th</sup> October 2013. It will be rough to very rough along and off West Bengal coast during the above period.

**(iii) Storm Surge Guidance:** Storm surge with height of around 2.0-2.5 m above astronomical tide would inundate low lying areas of Ganjam, Khurda, Puri and Jagatsinghpur districts of Odisha and Srikakulam district of Andhra Pradesh during landfall.

**(iv) Damage expected over Odisha and adjoining north Andhra Pradesh:** Extensive damage to kutcha houses. Partial disruption of power and communication line. Minor disruption of rail and road traffic. Potential threat from flying debris. Flooding of escape routes. Extensive damage to agricultural crops.

**(v) Action suggested:** Fishermen out at sea along north Andhra Pradesh, Odisha and West Bengal coast are advised to return to coast. Fishermen are advised not to venture into sea.

**Following actions are suggested when the cyclone would be 500 km from the coast (from 11<sup>th</sup> October 2013).**

Total suspension of fishing operations. Mobilise evacuation from coastal areas. Judicious regulation of rail and road traffic. People in affected areas to remain indoors during cyclone landfall.

**(J) Warning for Andaman and Nicobar Islands**

**(v) Heavy rainfall**

Under the influence of this system, rainfall at most places with isolated heavy to very heavy falls would occur over Andaman Islands during next 24 hrs..

**(ii) Squally wind**

Squally winds speed reaching 40 - 50 kmph gusting to 60 kmph would continue to prevail over Andaman Islands and adjoining sea areas during next 12 hours. Sea condition will be rough to very rough along and off Andaman and Nicobar Islands during next 12 hrs.

**Fishermen are advised not to venture into the sea during next 12 hrs.**

**The next bulletin will be issued at 0230 hrs IST of 11<sup>th</sup> October, 2013.**

D. R. Pattanaik  
Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumbai (022-22630084)/Command MO Visakhapatnam (0891-2709086)/ MO Port Blair (03192-229480).



भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

FAX MESSAGE

FROM: INDIA METEOROLOGICAL DEPARTMENT (Fax No. 24699216/24623220)

To: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750,23092398)  
CONTROL ROOM NDMA ( FAX.NO.26701729)  
CABINET SECRETARIAT (FAX.NO.23793144)  
PS TO HON'BLE MINISTER FOR SCIENCE AND TECHNOLOGY AND EARTH SCIENCES  
(FAX NO.23316745)  
SECRETARY, MoES, (Fax No. 24629777)  
SECRETARY, DST (Fax No. 26863847/-2418)  
H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)  
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DIRECTOR GENERAL, AIR (25843825)  
PIB MoES ( FAX NO. 23389042)  
UNI (FAX NO. 23355841)  
D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX No. 26105912)  
DIRECTOR OF PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)  
CHIEF SECRETARY, GOVT. OF ANDAMAN & NICOBAR ISLAND (FAX NO. 03192-223331)  
CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674-2536660)  
CHIEF SECRETARY, GOVT. OF PUDUCHERRY (FAX NO. 0413-2337575)  
CHIEF SECRETARY, GOVT OF ANDHRA PRADESH (FAX No. 040-23453700)  
CHIEF SECRETARY, GOVT OF WEST BENGAL (FAX No. 033-22144328)  
CHIEF SECRETARY, GOVT OF JHARKHAND (FAX No. 0651-2400255)  
CHIEF SECRETARY, GOVT OF CHATTISGARH (FAX No. 0771-2221206)

Time of issue: 0200 hours IST

Dated: 11-10-2013

Bulletin No.: BOB 04/2013/19 (Orange Message)

**Sub: Very Severe Cyclonic Storm, PHAILIN over East central Bay of Bengal:  
Cyclone Warning for North Andhra Pradesh and Odisha Coast.**

The very severe cyclonic storm, **PHAILIN** over east central Bay of Bengal moved westwards and lay centred at 2330 hrs IST of 10<sup>th</sup> October 2013 near latitude 15.5<sup>o</sup>N and longitude 89.50<sup>o</sup>E, about 625km south-southeast of Paradip, 650km southeast of Gopalpur, and 650 km east-southeast of Kalingapatnam. It would continue to move northwestwards and cross north Andhra Pradesh and Odisha coast between Kalingapatnam and Paradip, close to Gopalpur (Odisha) by evening of 12<sup>th</sup> October, 2013 as a very severe cyclonic storm with a maximum sustained wind speed of 190-200 kmph.

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(IST)  | Position<br>(Lat. <sup>o</sup> N/ Long. <sup>o</sup> E) | Sustained maximum surface<br>wind speed (kmph) | Category                   |
|-----------------|---|--|----------------------------|
| 10-10-2013/2330 | 15.5/89.5   | 165-175 gusting to 190                         | Very Severe Cyclonic Storm |
| 11-10-2013/0530 | 16.0/88.7   | 175-185 gusting to 200                         | Very Severe Cyclonic Storm |
| 11-10-2013/1130 | 16.4/87.7   | 175-185 gusting to 200                         | Very Severe Cyclonic Storm |
| 11-10-2013/1730 | 17.0/86.9   | 185-195 gusting to 210                         | Very Severe Cyclonic Storm |
| 11-10-2013/2330 | 17.4/86.3   | 185-195 gusting to 210                         | Very Severe Cyclonic Storm |
| 12-10-2013/0530 | 17.9/85.8   | 190-200 gusting to 215                         | Very Severe Cyclonic Storm |
| 12-10-2013/1730 | 19.2/85.0   | 190-200 gusting to 215                         | Very Severe Cyclonic Storm |
| 13-10-2013/0530 | 20.2/84.5   | 80-90 gusting to 100                           | Cyclonic Storm             |

|                 |           |                     |                 |
|-----------------|-----------|---------------------|-----------------|
| 13-10-2013/1730 | 21.2/84.2 | 50-60 gusting to 70 | Deep Depression |
| 14-10-2013/0530 | 22.2/83.8 | 40-50 gusting to 60 | Depression      |

**(K) Warning for Odisha, Andhra Pradesh and West Bengal**

**(xi) Heavy Rainfall:** Under the influence of this system, rainfall at most places with heavy to very heavy falls at a few places with isolated extremely heavy falls (~ 25cm) would occur over coastal Odisha commencing from 12<sup>th</sup> October 2013 morning. It would continue and extend to interior Odisha and coastal areas of Gangetic West Bengal from 13<sup>th</sup> morning. Rainfall at most places with heavy to very heavy rainfall would also occur at a few places over north coastal Andhra Pradesh commencing from 12<sup>th</sup> Oct 2013 and isolated heavy to very heavy rainfall would occur over coastal areas of West Bengal commencing from 13<sup>th</sup> Oct. 2013.

**(xii) Gale wind:** Squally winds speed reaching 45-55 kmph gusting to 65 kmph would commence along and off Odisha and north Andhra Pradesh coast from 11<sup>th</sup> morning. It would increase in intensity with gale wind speed reaching 190-200 kmph along and off coastal districts of north coastal Andhra Pradesh and south Odisha at the time of landfall. State of Sea along and off Odisha and north Andhra Pradesh coast will be rough to very rough from 11<sup>th</sup> morning and will become phenomenal on 12<sup>th</sup> October 2013. It will be rough to very rough along and off West Bengal coast during the above period.

**(iii) Storm Surge Guidance:** Storm surge with height of around 2.0-2.5 m above astronomical tide would inundate low lying areas of Ganjam, Khurda, Puri and Jagatsinghpur districts of Odisha and Srikakulam district of Andhra Pradesh during landfall.

**(iv) Damage expected over Odisha and adjoining north Andhra Pradesh:** Extensive damage to kutcha houses. Some damage to old buildings. Large scale disruption of power and communication lines. Disruption of rail and road traffic due to extensive flooding. Potential threat from flying debris. Flooding of escape routes. Extensive damage to agricultural crops.

**(v) Action suggested:** Fishermen out at sea along north Andhra Pradesh, Odisha and West Bengal coast are advised to return to coast. Fishermen are advised not to venture into sea.

**Following actions are suggested when the cyclone would be 500 km from the coast (from 11<sup>th</sup> October 2013).**

Total suspension of fishing operations. Mobilise evacuation from coastal areas. Judicious regulation of rail and road traffic. People in affected areas to remain indoors during cyclone landfall.

**(L) Warning for Andaman and Nicobar Islands**

**(vi) Heavy rainfall**

Under the influence of this system, rainfall at most places with isolated heavy to very heavy falls would occur over Andaman Islands during next 12 hrs..

**(ii) Squally wind**

Squally winds speed reaching 40 - 50 kmph gusting to 60 kmph would continue to prevail over Andaman Islands and adjoining sea areas during next 12 hours. Sea condition will be rough to very rough along and off Andaman and Nicobar Islands during next 12 hrs.

**Fishermen are advised not to venture into the sea during next 12 hrs.**

**The next bulletin will be issued at 0530 hrs IST of today, the 11<sup>th</sup> October, 2013.**

D. R. Pattanaik  
Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumbai (022-22630084) /Command MO Visakhapatnam (0891-2709086)/ MO Port Blair (03192-229480).



भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

FAX MESSAGE

FROM: INDIA METEOROLOGICAL DEPARTMENT (Fax No. 24699216/24623220)

To: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750,23092398)  
CONTROL ROOM NDMA ( FAX.NO.26701729)  
CABINET SECRETARIAT (FAX.NO.23793144)  
PS TO HON'BLE MINISTER FOR SCIENCE AND TECHNOLOGY AND EARTH SCIENCES  
(FAX NO.23316745)  
SECRETARY, MoES, (Fax No. 24629777)  
SECRETARY, DST (Fax No. 26863847/-2418)  
H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)  
DIRECTOR GENERAL, DOORDARSHAN (23385843)  
DIRECTOR GENERAL, AIR (25843825)  
PIB MoES ( FAX NO. 23389042)  
UNI (FAX NO. 23355841)  
D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX No. 26105912)  
DIRECTOR OF PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)  
CHIEF SECRETARY, GOVT. OF ANDAMAN & NICOBAR ISLAND (FAX NO. 03192-223331)  
CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674-2536660)  
CHIEF SECRETARY, GOVT. OF PUDUCHERRY (FAX NO. 0413-2337575)  
CHIEF SECRETARY, GOVT OF ANDHRA PRADESH (FAX No. 040-23453700)  
CHIEF SECRETARY, GOVT OF WEST BENGAL (FAX No. 033-22144328)  
CHIEF SECRETARY, GOVT OF JHARKHAND (FAX No. 0651-2400255)  
CHIEF SECRETARY, GOVT OF CHATTISGARH (FAX No. 0771-2221206)

Time of issue: 0500 hours IST

Dated: 11-10-2013

Bulletin No.: BOB 04/2013/20 (Orange Message)

**Sub: Very Severe Cyclonic Storm, PHAILIN over East central Bay of Bengal:  
Cyclone Warning for North Andhra Pradesh and Odisha Coast.**

The very severe cyclonic storm, **PHAILIN** over east central Bay of Bengal moved westwards slightly intensified further and lay centred at 0230 hrs IST of 11<sup>th</sup> October 2013 near latitude 15.5°N and longitude 89.00°E, about 590km south-southeast of Paradip, 600km southeast of Gopalpur, and 600km east-southeast of Kalingapatnam. It would move northwestwards and cross north Andhra Pradesh and Odisha coast between Kalingapatnam and Paradip, close to Gopalpur (Odisha) by evening of 12<sup>th</sup> October, 2013 as a very severe cyclonic storm with a maximum sustained wind speed of 205-215 kmph.

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(IST)  | Position<br>(Lat. °N/ Long. °E) | Sustained maximum surface<br>wind speed (kmph) | Category                   |
|-----------------|---------------------------------|--|----------------------------|
| 11-10-2013/0230 | 15.5/89.0                       | 185-195 gusting to 210                         | Very Severe Cyclonic Storm |
| 11-10-2013/0530 | 16.0/88.5                       | 190-200 gusting to 215                         | Very Severe Cyclonic Storm |
| 11-10-2013/1130 | 16.4/87.7                       | 200-210 gusting to 225                         | Very Severe Cyclonic Storm |
| 11-10-2013/1730 | 17.0/86.9                       | 200-210 gusting to 225                         | Very Severe Cyclonic Storm |
| 11-10-2013/2330 | 17.4/86.3                       | 205-215 gusting to 230                         | Very Severe Cyclonic Storm |
| 12-10-2013/0530 | 17.9/85.8                       | 205-215 gusting to 230                         | Very Severe Cyclonic Storm |

|                 |           |                        |                            |
|-----------------|-----------|------------------------|----------------------------|
| 12-10-2013/1730 | 19.2/85.0 | 205-215 gusting to 230 | Very Severe Cyclonic Storm |
| 13-10-2013/0530 | 20.2/84.5 | 80-90 gusting to 100   | Cyclonic Storm             |
| 13-10-2013/1730 | 21.2/84.2 | 50-60 gusting to 70    | Deep Depression            |
| 14-10-2013/0530 | 22.2/83.8 | 40-50 gusting to 60    | Depression                 |

**(M) Warning for Odisha, Andhra Pradesh and West Bengal**

**(xiii) Heavy Rainfall:** Under the influence of this system, rainfall at most places with heavy to very heavy falls at a few places with isolated extremely heavy falls (~ 25cm) would occur over coastal Odisha commencing from 12<sup>th</sup> October 2013 morning. It would continue and extend to interior Odisha and coastal areas of Gangetic West Bengal from 13<sup>th</sup> morning. Rainfall at most places with heavy to very heavy rainfall would also occur at a few places over north coastal Andhra Pradesh commencing from 12<sup>th</sup> Oct 2013 and isolated heavy to very heavy rainfall would occur over coastal areas of West Bengal commencing from 13<sup>th</sup> Oct. 2013.

**(xiv) Gale wind:** Squally winds speed reaching 45-55 kmph gusting to 65 kmph would commence along and off Odisha and north Andhra Pradesh coast from 11<sup>th</sup> morning. It would increase in intensity with gale wind speed reaching 205-215 kmph along and off coastal districts of north coastal Andhra Pradesh and south Odisha at the time of landfall. State of Sea along and off Odisha and north Andhra Pradesh coast will be rough to very rough from 11<sup>th</sup> morning and will become phenomenal on 12<sup>th</sup> October 2013. It will be rough to very rough along and off West Bengal coast during the above period.

**(iii) Storm Surge Guidance:** Storm surge with height of around 2.0-2.5 m above astronomical tide would inundate low lying areas of Ganjam, Khurda, Puri and Jagatsinghpur districts of Odisha and Srikakulam district of Andhra Pradesh during landfall.

**(iv) Damage expected over Odisha and adjoining north Andhra Pradesh:** Extensive damage to kutcha houses. Some damage to old buildings. Large scale disruption of power and communication lines. Disruption of rail and road traffic due to extensive flooding. Potential threat from flying debris. Flooding of escape routes. Extensive damage to agricultural crops.

**(v) Action suggested:** Fishermen out at sea along north Andhra Pradesh, Odisha and West Bengal coast are advised to return to coast. Fishermen are advised not to venture into sea.

**Following actions are suggested when the cyclone would be 500 km from the coast (from 11<sup>th</sup> October 2013).**

Total suspension of fishing operations. Mobilise evacuation from coastal areas. Judicious regulation of rail and road traffic. People in affected areas to remain indoors during cyclone landfall.

**(N) Warning for Andaman and Nicobar Islands**

**(vii) Heavy rainfall**

Under the influence of this system, rainfall at most places with isolated heavy to very heavy falls would occur over Andaman Islands during next 12 hrs..

**(ii) Squally wind**

Squally winds speed reaching 40 - 50 kmph gusting to 60 kmph would continue to prevail over Andaman Islands and adjoining sea areas during next 12 hours. Sea condition will be rough to very rough along and off Andaman and Nicobar Islands during next 12 hrs.

**Fishermen are advised not to venture into the sea during next 12 hrs.**

**The next bulletin will be issued at 0830 hrs IST of today, the 11<sup>th</sup> October, 2013.**

D. R. Pattanaik  
Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumbai (022-22630084)/Command MO Visakhapatnam (0891-2709086)/ MO Port Blair (03192-229480).



भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

FAX MESSAGE

FROM: INDIA METEOROLOGICAL DEPARTMENT (Fax No. 24699216/24623220)

To: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750,23092398)  
CONTROL ROOM NDMA ( FAX.NO.26701729)  
CABINET SECRETARIAT (FAX.NO.23793144)  
PS TO HON'BLE MINISTER FOR SCIENCE AND TECHNOLOGY AND EARTH SCIENCES  
(FAX NO.23316745)  
SECRETARY, MoES, (Fax No. 24629777)  
SECRETARY, DST (Fax No. 26863847/-2418)  
H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)  
DIRECTOR GENERAL, DOORDARSHAN (23385843)  
DIRECTOR GENERAL, AIR (25843825)  
PIB MoES ( FAX NO. 23389042)  
UNI (FAX NO. 23355841)  
D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX No. 26105912)  
DIRECTOR OF PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)  
CHIEF SECRETARY, GOVT. OF ANDAMAN & NICOBAR ISLAND (FAX NO. 03192-223331)  
CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674-2536660)  
CHIEF SECRETARY, GOVT. OF PUDUCHERRY (FAX NO. 0413-2337575)  
CHIEF SECRETARY, GOVT OF ANDHRA PRADESH (FAX No. 040-23453700)  
CHIEF SECRETARY, GOVT OF WEST BENGAL (FAX No. 033-22144328)  
CHIEF SECRETARY, GOVT OF JHARKHAND (FAX No. 0651-2400255)  
CHIEF SECRETARY, GOVT OF CHATTISGARH (FAX No. 0771-2221206)

Time of issue: 0830 hours IST

Dated: 11-10-2013

Bulletin No.: BOB 04/2013/21 (Orange Message)

**Sub: Very Severe Cyclonic Storm, PHAILIN over East central Bay of Bengal:  
Cyclone Warning for North Andhra Pradesh and Odisha Coast.**

The very severe cyclonic storm, **PHAILIN** over east central Bay of Bengal moved west-northwestwards with a speed of 15 kmph and lay centred at 0530 hrs IST of 11<sup>th</sup> October 2013 near latitude 16.0°N and longitude 88.5°E, about 520km south-southeast of Paradip, 530km southeast of Gopalpur, and 530km east-southeast of Kalingapatnam. It would move northwestwards and cross north Andhra Pradesh and Odisha coast between Kalingapatnam and Paradip, close to Gopalpur (Odisha) by evening of 12<sup>th</sup> October, 2013 as a very severe cyclonic storm with a maximum sustained wind speed of 205-215 kmph.

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(IST)  | Position<br>(Lat. °N/ Long. °E) | Sustained maximum surface<br>wind speed (kmph) | Category                   |
|-----------------|---------------------------------|--|----------------------------|
| 11-10-2013/0530 | 16.0/88.5                       | 185-195 gusting to 210                         | Very Severe Cyclonic Storm |
| 11-10-2013/1130 | 16.4/87.7                       | 190-200 gusting to 215                         | Very Severe Cyclonic Storm |
| 11-10-2013/1730 | 17.0/86.9                       | 200-210 gusting to 225                         | Very Severe Cyclonic Storm |
| 11-10-2013/2330 | 17.4/86.3                       | 205-215 gusting to 230                         | Very Severe Cyclonic Storm |
| 12-10-2013/0530 | 17.9/85.8                       | 205-215 gusting to 230                         | Very Severe Cyclonic Storm |
| 12-10-2013/1730 | 19.2/85.0                       | 205-215 gusting to 230                         | Very Severe Cyclonic Storm |

|                 |           |                       |                 |
|-----------------|-----------|-----------------------|-----------------|
| 13-10-2013/0530 | 20.2/84.5 | 80-90 gusting to 100  | Cyclonic Storm  |
| 13-10-2013/1730 | 21.2/84.2 | 90-100 gusting to 110 | Deep Depression |
| 14-10-2013/0530 | 22.2/83.8 | 40-50 gusting to 60   | Depression      |

**(O) Warning for Odisha, Andhra Pradesh and West Bengal**

**(xv) Heavy Rainfall:** Under the influence of this system, rainfall at most places with heavy to very heavy falls at a few places with isolated extremely heavy falls (~ 25cm) would occur over coastal Odisha commencing from 11<sup>th</sup> October 2013 night. It would continue and extend to interior Odisha from 12<sup>th</sup> night. Rainfall at most places with isolated heavy to very heavy falls would also occur over north coastal Andhra Pradesh commencing from 11<sup>th</sup> Oct. night. Isolated heavy to very heavy rainfall would occur over coastal areas of West Bengal commencing from 12<sup>th</sup> Oct. night.

**(xvi) Gale wind:** Squally winds speed reaching 45-55 kmph gusting to 65 kmph would prevail along and off Odisha and north Andhra Pradesh coast during next 12 hrs. It would increase in intensity thereafter with gale wind speed reaching 205-215 kmph along and off coastal districts of north coastal Andhra Pradesh and south Odisha at the time of landfall. State of Sea along and off Odisha and north Andhra Pradesh coast will be rough to very rough and will become gradually phenomenal on 12<sup>th</sup> October 2013. It will be rough to very rough along and off West Bengal coast during the above period.

**(iii) Storm Surge Guidance:** Storm surge with height of around 2.5-3.0 m above astronomical tide would inundate low lying areas of Ganjam, Khurda, Puri and Jagatsinghpur districts of Odisha and Srikakulam district of Andhra Pradesh during landfall.

**(iv) Damage expected over Odisha and adjoining north Andhra Pradesh:** Extensive damage to kutcha houses. Some damage to old buildings. Large scale disruption of power and communication lines. Disruption of rail and road traffic due to extensive flooding. Potential threat from flying debris. Flooding of escape routes. Extensive damage to agricultural crops.

**(v) Action suggested:** Fishermen out at sea along north Andhra Pradesh, Odisha and West Bengal coast are advised to return to coast. Fishermen are advised not to venture into sea. Total suspension of fishing operations. Mobilise evacuation from coastal areas. Judicious regulation of rail and road traffic. People in affected areas to remain indoors during cyclone landfall.

**(P) For Andaman and Nicobar Islands**

No adverse weather would occur over Andaman and Nicobar Islands in association with this system.

**The next bulletin will be issued at 1130 hrs IST of today, the 11<sup>th</sup> October, 2013.**

M. Mohapatra  
Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumbai (022-22630084)/Command MO Visakhapatnam (0891-2709086)/ MO Port Blair (03192-229480).





भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

FAX MESSAGE

FROM: INDIA METEOROLOGICAL DEPARTMENT (Fax No. 24699216/24623220)

To: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750,23092398)  
CONTROL ROOM NDMA ( FAX.NO.26701729)  
CABINET SECRETARIAT (FAX.NO.23793144)  
PS TO HON'BLE MINISTER FOR SCIENCE AND TECHNOLOGY AND EARTH SCIENCES  
(FAX NO.23316745)  
SECRETARY, MoES, (Fax No. 24629777)  
SECRETARY, DST (Fax No. 26863847/-2418)  
H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)  
DIRECTOR GENERAL, DOORDARSHAN (23385843)  
DIRECTOR GENERAL, AIR (25843825)  
PIB MoES ( FAX NO. 23389042)  
UNI (FAX NO. 23355841)  
D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX No. 26105912)  
DIRECTOR OF PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)  
CHIEF SECRETARY, GOVT. OF ANDAMAN & NICOBAR ISLAND (FAX NO. 03192-223331)  
CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674-2536660)  
CHIEF SECRETARY, GOVT. OF PUDUCHERRY (FAX NO. 0413-2337575)  
CHIEF SECRETARY, GOVT OF ANDHRA PRADESH (FAX No. 040-23453700)  
CHIEF SECRETARY, GOVT OF WEST BENGAL (FAX No. 033-22144328)  
CHIEF SECRETARY, GOVT OF JHARKHAND (FAX No. 0651-2400255)  
CHIEF SECRETARY, GOVT OF CHATTISGARH (FAX No. 0771-2221206)

Time of issue: 1030 hours IST

Dated: 11-10-2013

Bulletin No.: BOB 04/2013/22 (Orange Message)

**Sub: Very Severe Cyclonic Storm, PHAILIN over East central Bay of Bengal:  
Cyclone Warning for North Andhra Pradesh and Odisha Coast.**

The very severe cyclonic storm, **PHAILIN** over east central Bay of Bengal remained stationary and lay centred at 0830 hrs IST of 11<sup>th</sup> October 2013 near latitude 16.0°N and longitude 88.5°E, about 520km south-southeast of Paradip, 530km southeast of Gopalpur, and 530km east-southeast of Kalingapatnam. It would move northwestwards and cross north Andhra Pradesh and Odisha coast between Kalingapatnam and Paradip, close to Gopalpur (Odisha) by evening of 12<sup>th</sup> October, 2013 as a very severe cyclonic storm with a maximum sustained wind speed of 205-215 kmph.

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(IST)  | Position<br>(Lat. °N/ Long. °E) | Sustained maximum surface<br>wind speed (kmph) | Category                   |
|-----------------|---------------------------------|--|----------------------------|
| 11-10-2013/0530 | 16.0/88.5                       | 200-210 gusting to 225                         | Very Severe Cyclonic Storm |
| 11-10-2013/1130 | 16.4/88.0                       | 205-215 gusting to 230                         | Very Severe Cyclonic Storm |
| 11-10-2013/1730 | 17.0/87.2                       | 210-220 gusting to 235                         | Very Severe Cyclonic Storm |
| 11-10-2013/2330 | 17.4/86.5                       | 210-220 gusting to 235                         | Very Severe Cyclonic Storm |
| 12-10-2013/0530 | 17.9/85.8                       | 210-220 gusting to 235                         | Very Severe Cyclonic Storm |
| 12-10-2013/1730 | 19.2/85.0                       | 210-220 gusting to 235                         | Very Severe Cyclonic Storm |
| 13-10-2013/0530 | 20.2/84.5                       | 90-100 gusting to 110                          | Cyclonic Storm             |

|                 |           |                      |                 |
|-----------------|-----------|----------------------|-----------------|
| 13-10-2013/1730 | 21.2/84.2 | 80-90 gusting to 100 | Deep Depression |
| 14-10-2013/0530 | 22.2/83.8 | 40-50 gusting to 60  | Depression      |

**(Q) Warning for Odisha, Andhra Pradesh and West Bengal**

**(xvii) Heavy Rainfall:** Under the influence of this system, rainfall at most places with heavy to very heavy falls at a few places with isolated extremely heavy falls ( $\sim$  25cm) would occur over coastal Odisha commencing from 11<sup>th</sup> October 2013 night. It would continue and extend to interior Odisha from 12<sup>th</sup> night. Rainfall at most places with isolated heavy to very heavy falls would also occur over north coastal Andhra Pradesh commencing from 11<sup>th</sup> Oct. night. Isolated heavy to very heavy rainfall would occur over coastal areas of West Bengal commencing from 12<sup>th</sup> Oct. night.

**(xviii) Gale wind:** Squally winds speed reaching 45-55 kmph gusting to 65 kmph would prevail along and off Odisha and north Andhra Pradesh coast during next 12 hrs. It would increase in intensity thereafter with gale wind speed reaching 210-220 kmph along and off coastal districts of north coastal Andhra Pradesh and south Odisha at the time of landfall. State of Sea along and off Odisha and north Andhra Pradesh coast will be rough to very rough and will become gradually phenomenal on 12<sup>th</sup> October 2013. It will be rough to very rough along and off West Bengal coast during the above period.

**(iii) Storm Surge Guidance:** Storm surge with height of around 2.5-3.0 m above astronomical tide would inundate low lying areas of Ganjam, Khurda, Puri and Jagatsinghpur districts of Odisha and Srikakulam district of Andhra Pradesh during landfall.

**(iv) Damage expected over Odisha and adjoining north Andhra Pradesh:** Extensive damage to kutchha houses. Some damage to old buildings. Large scale disruption of power and communication lines. Disruption of rail and road traffic due to extensive flooding. Potential threat from flying debris. Flooding of escape routes. Extensive damage to agricultural crops.

**(v) Action suggested:** Fishermen out at sea along north Andhra Pradesh, Odisha and West Bengal coast are advised to return to coast. Fishermen are advised not to venture into sea. Total suspension of fishing operations. Mobilise evacuation from coastal areas. Judicious regulation of rail and road traffic. People in affected areas to remain indoors during cyclone landfall.

**(R) For Andaman and Nicobar Islands**

No adverse weather would occur over Andaman and Nicobar Islands in association with this system.

**The next bulletin will be issued at 1430 hrs IST of today, the 11<sup>th</sup> October, 2013.**

Kamaljit Ray

Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumbai (022-22630084) /Command MO Visakhapatnam (0891-2709086)/ MO Port Blair (03192-229480).



भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

FAX MESSAGE

FROM: INDIA METEOROLOGICAL DEPARTMENT (Fax No. 24699216/24623220)

To: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750,23092398)  
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D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX No. 26105912)  
DIRECTOR OF PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)  
CHIEF SECRETARY, GOVT. OF ANDAMAN & NICOBAR ISLAND (FAX NO. 03192-223331)  
CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674-2536660)  
CHIEF SECRETARY, GOVT. OF PUDUCHERRY (FAX NO. 0413-2337575)  
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CHIEF SECRETARY, GOVT OF WEST BENGAL (FAX No. 033-22144328)  
CHIEF SECRETARY, GOVT OF JHARKHAND (FAX No. 0651-2400255)  
CHIEF SECRETARY, GOVT OF CHATTISGARH (FAX No. 0771-2221206)

Time of issue: 1600 hours IST

Dated: 11-10-2013

Bulletin No.: BOB 04/2013/23 (Orange Message)

**Sub: Very Severe Cyclonic Storm, PHAILIN over Central Bay of Bengal:  
Cyclone Warning for North Andhra Pradesh and Odisha Coast.**

The very severe cyclonic storm, **PHAILIN** over east central Bay of Bengal moved northwestwards and lay centred at 1430 hrs IST of 11<sup>th</sup> October 2013 over west central and adjoining Bay of Bengal near latitude 16.2°N and longitude 88.3°E, about 500 km south-southeast of Paradip, 490 km southeast of Gopalpur, and 500 km east-southeast of Kalingapatnam. It would move northwestwards and cross north Andhra Pradesh and Odisha coast between Kalingapatnam and Paradip, close to Gopalpur (Odisha) by evening of 12<sup>th</sup> October, 2013 as a very severe cyclonic storm with a maximum sustained wind speed of 210-220 kmph.

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(IST)  | Position<br>(Lat. °N/ Long. °E) | Sustained maximum surface<br>wind speed (kmph) | Category                   |
|-----------------|---------------------------------|--|----------------------------|
| 11-10-2013/1130 | 16.2/88.3                       | 210-220 gusting to 235                         | Very Severe Cyclonic Storm |
| 11-10-2013/1730 | 17.0/87.6                       | 210-220 gusting to 235                         | Very Severe Cyclonic Storm |
| 11-10-2013/2330 | 17.6/86.7                       | 210-220 gusting to 235                         | Very Severe Cyclonic Storm |
| 12-10-2013/0530 | 18.2/85.8                       | 210-220 gusting to 235                         | Very Severe Cyclonic Storm |
| 12-10-2013/1130 | 18.7/85.3                       | 210-220 gusting to 235                         | Very Severe Cyclonic Storm |
| 12-10-2013/2330 | 19.8/84.3                       | 210-220 gusting to 235                         | Very Severe Cyclonic Storm |
| 13-10-2013/1130 | 20.8/84.0                       | 90-100 gusting to 110                          | Cyclonic Storm             |
| 13-10-2013/2330 | 21.6/83.8                       | 50-60 gusting to 70                            | Deep Depression            |

**(S) Warning for Odisha, Andhra Pradesh and West Bengal**

**(xix) Heavy Rainfall:** Under the influence of this system, rainfall at most places with heavy to very heavy falls at a few places with isolated extremely heavy falls (~ 25cm) would occur over coastal Odisha commencing from 11<sup>th</sup> October 2013 night. It would continue and extend to interior Odisha from 12<sup>th</sup> night. Rainfall at most places with isolated heavy to very heavy falls would also occur over north coastal Andhra Pradesh commencing from 11<sup>th</sup> Oct. night. Isolated heavy to very heavy rainfall would occur over coastal areas of West Bengal commencing from 12<sup>th</sup> Oct. night.

**(xx) Gale wind:** Squally winds speed reaching 45-55 kmph gusting to 65 kmph would prevail along and off Odisha and north Andhra Pradesh coast during next 12 hrs. It would increase in intensity thereafter with gale wind speed reaching 210-220 kmph along and off coastal districts of north coastal Andhra Pradesh and south Odisha at the time of landfall. State of Sea along and off Odisha and north Andhra Pradesh coast will be rough to very rough and will become gradually phenomenal on 12<sup>th</sup> October 2013. It will be rough to very rough along and off West Bengal coast during the above period.

**(iii) Storm Surge Guidance:** Storm surge with height of around 3.0 m above astronomical tide would inundate low lying areas of Ganjam, Khurda, Puri and Jagatsinghpur districts of Odisha and Srikakulam district of Andhra Pradesh during landfall.

**(iv) Damage expected over Odisha and adjoining north Andhra Pradesh:** Extensive damage to kutcha houses. Some damage to old buildings. Large scale disruption of power and communication lines. Disruption of rail and road traffic due to extensive flooding. Potential threat from flying debris. Flooding of escape routes. Extensive damage to agricultural crops.

**(v) Action suggested:** Fishermen out at sea along north Andhra Pradesh, Odisha and West Bengal coast are advised to return to coast. Fishermen are advised not to venture into sea. Total suspension of fishing operations. Mobilise evacuation from coastal areas. Judicious regulation of rail and road traffic. People in affected areas to remain indoors during cyclone landfall.

**The next bulletin will be issued at 1730 hrs IST of today, the 11<sup>th</sup> October, 2013.**

Kamaljit Ray  
Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumbai (022-22630084) /Command MO Visakhapatnam (0891-2709086)/ MO Port Blair (03192-229480).



भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

FAX MESSAGE

FROM: INDIA METEOROLOGICAL DEPARTMENT (Fax No. 24699216/24623220)

To: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750, 23092398)  
CONTROL ROOM NDMA (FAX.NO.26701729)  
CABINET SECRETARIAT (FAX.NO.23793144)  
PS TO HON'BLE MINISTER FOR SCIENCE AND TECHNOLOGY AND EARTH SCIENCES  
(FAX NO.23316745)  
SECRETARY, MoES, (Fax No. 24629777)  
SECRETARY, DST (Fax No. 26863847/-2418)  
H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)  
DIRECTOR GENERAL, DOORDARSHAN (23385843)  
DIRECTOR GENERAL, AIR (25843825)  
PIB MoES ( FAX NO. 23389042)  
UNI (FAX NO. 23355841)  
D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX No. 26105912)  
DIRECTOR OF PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)  
CHIEF SECRETARY, GOVT. OF ANDAMAN & NICOBAR ISLAND (FAX NO. 03192-223331)  
CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674-2536660)  
CHIEF SECRETARY, GOVT. OF PUDUCHERRY (FAX NO. 0413-2337575)  
CHIEF SECRETARY, GOVT OF ANDHRA PRADESH (FAX No. 040-23453700)  
CHIEF SECRETARY, GOVT OF WEST BENGAL (FAX No. 033-22144328)  
CHIEF SECRETARY, GOVT OF JHARKHAND (FAX No. 0651-2400255)  
CHIEF SECRETARY, GOVT OF CHATTISGARH (FAX No. 0771-2221206)

Time of issue: 1600 hours IST

Dated: 11-10-2013

Bulletin No.: BOB 04/2013/24 (Orange Message)

**Sub: Very Severe Cyclonic Storm, PHAILIN over Central Bay of Bengal:  
Cyclone Warning for North Andhra Pradesh and Odisha Coast.**

The very severe cyclonic storm, **PHAILIN** over east central Bay of Bengal moved northwestwards and lay centred at 1430 hrs IST of 11<sup>th</sup> October 2013 over west central and adjoining Bay of Bengal near latitude 16.5°N and longitude 88.0°E, about 440 km south-southeast of Paradip, 450 km southeast of Gopalpur, and 448 km east-southeast of Kalingapatnam. It would move northwestwards and cross north Andhra Pradesh and Odisha coast between Kalingapatnam and Paradip, close to Gopalpur (Odisha) by evening of 12<sup>th</sup> October, 2013 as a very severe cyclonic storm with a maximum sustained wind speed of 210-220 kmph.

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(IST)  | Position<br>(Lat. °N/ Long. °E) | Sustained maximum surface<br>wind speed (kmph) | Category                   |
|-----------------|---------------------------------|--|----------------------------|
| 11-10-2013/1430 | 16.5/88.0                       | 210-220 gusting to 235                         | Very Severe Cyclonic Storm |
| 11-10-2013/1730 | 17.0/87.6                       | 210-220 gusting to 235                         | Very Severe Cyclonic Storm |
| 11-10-2013/2330 | 17.6/86.9                       | 210-220 gusting to 235                         | Very Severe Cyclonic Storm |
| 12-10-2013/0530 | 18.2/86.2                       | 210-220 gusting to 235                         | Very Severe Cyclonic Storm |
| 12-10-2013/1130 | 18.6/85.5                       | 210-220 gusting to 235                         | Very Severe Cyclonic Storm |
| 12-10-2013/1730 | 19.1/84.8                       | 210-220 gusting to 235                         | Very Severe Cyclonic Storm |
| 13-10-2013/0000 | 19.8/84.4                       | 90-100 gusting to 110                          | Severe Cyclonic Storm      |
| 13-10-2013/1200 | 20.5/84.0                       | 50-60 gusting to 70                            | Deep Depression            |

**(T) Warning for Odisha, Andhra Pradesh and West Bengal**

**(xxi) Heavy Rainfall:** Under the influence of this system, rainfall at most places with heavy to very heavy falls at a few places with isolated extremely heavy falls ( $\sim 25$ cm) would occur over coastal Odisha commencing from 11<sup>th</sup> October 2013 night. It would continue and extend to interior Odisha from 12<sup>th</sup> night. Rainfall at most places with isolated heavy to very heavy falls would also occur over north coastal Andhra Pradesh commencing from 11<sup>th</sup> Oct. night. Isolated heavy to very heavy rainfall would occur over coastal areas of West Bengal commencing from 12<sup>th</sup> Oct. night.

**(xxii) Gale wind:** Squally winds speed reaching 45-55 kmph gusting to 65 kmph would prevail along and off Odisha and north Andhra Pradesh coast during next 12 hrs. It would increase in intensity thereafter with gale wind speed reaching 210-220 kmph along and off coastal districts of north coastal Andhra Pradesh and south Odisha at the time of landfall. State of Sea along and off Odisha and north Andhra Pradesh coast will be rough to very rough and will become gradually phenomenal on 12<sup>th</sup> October 2013. It will be rough to very rough along and off West Bengal coast during the above period.

**(iii) Storm Surge Guidance:** Storm surge with height of around 3.0 m above astronomical tide would inundate low lying areas of Ganjam, Khurda, Puri and Jagatsinghpur districts of Odisha and Srikakulam district of Andhra Pradesh during landfall.

**(iv) Damage expected over Odisha and adjoining north Andhra Pradesh:** Extensive damage to kutcha houses. Some damage to old buildings. Large scale disruption of power and communication lines. Disruption of rail and road traffic due to extensive flooding. Potential threat from flying debris. Flooding of escape routes. Extensive damage to agricultural crops.

**(v) Action suggested:** Fishermen out at sea along north Andhra Pradesh, Odisha and West Bengal coast are advised to return to coast. Fishermen are advised not to venture into sea. Total suspension of fishing operations. Mobilise evacuation from coastal areas. Judicious regulation of rail and road traffic. People in affected areas to remain indoors during cyclone landfall.

**The next bulletin will be issued at 2030 hrs IST of today, the 11<sup>th</sup> October, 2013.**

Kamaljit Ray

Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumbai (022-22630084) /Command MO Visakhapatnam (0891-2709086)/ MO Port Blair (03192-229480).



भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

FAX MESSAGE

FROM: INDIA METEOROLOGICAL DEPARTMENT (Fax No. 24699216/24623220)  
To: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750, 23092398)  
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CHIEF SECRETARY, GOVT OF WEST BENGAL (FAX No. 033-22144328)  
CHIEF SECRETARY, GOVT OF JHARKHAND (FAX No. 0651-2400255)  
CHIEF SECRETARY, GOVT OF CHATTISGARH (FAX No. 0771-2221206)

Time of issue: 2000 hours IST

Dated: 11-10-2013

(Red Message)

Bulletin No.: BOB 04/2013/25

**Sub: Very Severe Cyclonic Storm 'PHAILIN' over Central Bay of Bengal:  
Cyclone Warning for North Andhra Pradesh and Odisha Coast.**

The very severe cyclonic storm, **PHAILIN** over eastcentral Bay of Bengal moved northwestwards and lay centred at 1730 hrs IST of 11<sup>th</sup> October 2013 over westcentral and adjoining eastcentral Bay of Bengal near latitude 16.8°N and longitude 87.7°E, about 400 km south-southeast of Paradip, 400 km southeast of Gopalpur, and 410 km east-southeast of Kalingapatnam. It would move northwestwards and cross north Andhra Pradesh and Odisha coast between Kalingapatnam and Paradip, close to Gopalpur (Odisha) by evening of 12<sup>th</sup> October, 2013 as a very severe cyclonic storm with a maximum sustained wind speed of 210-220 kmph.

Estimated track and intensity of the system are given in the Table below:

| Date/Time(IST)  | Position<br>(Lat. °N/ Long. °E) | Sustained maximum surface<br>wind speed (kmph) | Category                   |
|-----------------|---------------------------------|--|----------------------------|
| 11-10-2013/1730 | 16.8/87.7                       | 210-220 gusting to 235                         | Very Severe Cyclonic Storm |
| 11-10-2013/2330 | 17.4/87.0                       | 210-220 gusting to 235                         | Very Severe Cyclonic Storm |
| 12-10-2013/0530 | 18.1/86.2                       | 210-220 gusting to 235                         | Very Severe Cyclonic Storm |
| 12-10-2013/1130 | 18.6/85.5                       | 210-220 gusting to 235                         | Very Severe Cyclonic Storm |
| 12-10-2013/1730 | 19.2/85.0                       | 210-220 gusting to 235                         | Very Severe Cyclonic Storm |
| 13-10-2013/0530 | 19.8/84.4                       | 90-100 gusting to 110                          | Severe Cyclonic Storm      |
| 13-10-2013/1730 | 20.5/84.0                       | 50-60 gusting to 70                            | Deep Depression            |
| 14.10.2013/0530 | 21.5/83.7                       | 40-50 gusting to 60                            | Depression                 |

**Warning for Odisha, Andhra Pradesh and West Bengal**

(xxiii) Rainfall at many places with heavy to very heavy falls at a few places and isolated extremely heavy falls (  $\sim$  25 cm) would occur over coastal Odisha during next 48 hrs and over interior Odisha from tomorrow afternoon for subsequent 48 hrs. Rainfall at most places with isolated heavy to very heavy falls would also occur over north coastal Andhra Pradesh during next 48 hrs. Isolated heavy to very heavy rainfall would occur over coastal areas of West Bengal commencing from afternoon of 12<sup>th</sup> October for subsequent 48 hrs.

(xxiv) **Gale wind:** Squally winds speed reaching 45-55 kmph gusting to 65 kmph would continue along and off Odisha and north Andhra Pradesh coast during next 12 hrs. It would increase in intensity thereafter with gale wind speed reaching 100-150 kmph from forenoon and 210-220 kmph along and off coastal districts of north coastal Andhra Pradesh and south Odisha at the time of landfall. State of Sea along and off Odisha and north Andhra Pradesh coast is rough to very rough and will become gradually phenomenal on 12<sup>th</sup> October 2013. It will be rough to very rough along and off West Bengal coast during the above period.

(iii) **Storm Surge Guidance:** Storm surge with height of 3.0 to 3.5 mt. above astronomical tide would inundate low lying areas of Ganjam, Khurda, Puri and Jagatsinghpur districts of Odisha and Srikakulam district of Andhra Pradesh during landfall.

(iv) **Damage expected over Odisha and adjoining north Andhra Pradesh:** Extensive damage to kutcha houses. Some damage to old buildings. Large scale disruption of power and communication lines. Disruption of rail and road traffic due to extensive flooding. Potential threat from flying debris. Flooding of escape routes. Extensive damage to agricultural crops.

(v) **Action suggested:** Fishermen out at sea along north Andhra Pradesh, Odisha and West Bengal coast are advised to return to coast. Fishermen are advised not to venture into sea. Total suspension of fishing operations. Mobilise evacuation from coastal areas. Judicious regulation of rail and road traffic. People in affected areas to remain indoors during cyclone landfall.

**The next bulletin will be issued at 2330 hrs IST of today, the 11<sup>th</sup> October, 2013.**

(Charan Singh)

Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumbai (022-22630084) /Command MO Visakhapatnam (0891-2709086)/ MO Port Blair (03192-229480).





भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

FAX MESSAGE

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SECRETARY, DST (Fax No. 26863847/-2418)  
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DIRECTOR OF PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)  
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CHIEF SECRETARY, GOVT. OF PUDUCHERRY (FAX NO. 0413-2337575)  
CHIEF SECRETARY, GOVT OF ANDHRA PRADESH (FAX No. 040-23453700)  
CHIEF SECRETARY, GOVT OF WEST BENGAL (FAX No. 033-22144328)  
CHIEF SECRETARY, GOVT OF JHARKHAND (FAX No. 0651-2400255)  
CHIEF SECRETARY, GOVT OF CHATTISGARH (FAX No. 0771-2221206)

Time of issue: 2330 hours IST

Dated: 11-10-2013

(Red Message)

Bulletin No.: BOB 04/2013/26

**Sub:** Very Severe Cyclonic Storm 'PHAILIN' over westcentral and adjoining eastcentral Bay of Bengal: Cyclone Warning for North Andhra Pradesh and Odisha Coast.

The very severe cyclonic storm, **PHAILIN** over westcentral and adjoining eastcentral Bay of Bengal moved west-northwestwards and lay centred at 2030 hrs IST of 11<sup>th</sup> October 2013 over westcentral and adjoining eastcentral Bay of Bengal near latitude 16.9<sup>o</sup>N and longitude 87.2<sup>o</sup>E, about 380 km south-southeast of Paradip, 360 km southeast of Gopalpur, and 360 km east-southeast of Kalingapatnam. It would move northwestwards and cross north Andhra Pradesh and Odisha coasts between Kalingapatnam and Paradip, close to Gopalpur (Odisha) by evening of 12<sup>th</sup> October, 2013 as a very severe cyclonic storm with a maximum sustained wind speed of 210-220 kmph.

Estimated track and intensity of the system are given in the Table below:

| Date/Time(IST)  | Position<br>(Lat. <sup>o</sup> N/ Long. <sup>o</sup> E) | Sustained maximum surface<br>wind speed (kmph) | Category                   |
|-----------------|---|--|----------------------------|
| 11-10-2013/2030 | 16.9/87.2   | 210-220 gusting to 235                         | Very Severe Cyclonic Storm |
| 11-10-2013/2330 | 17.3/87.0   | 210-220 gusting to 235                         | Very Severe Cyclonic Storm |
| 12-10-2013/0530 | 18.1/86.2   | 210-220 gusting to 235                         | Very Severe Cyclonic Storm |
| 12-10-2013/1130 | 18.6/85.5   | 210-220 gusting to 235                         | Very Severe Cyclonic Storm |
| 12-10-2013/1730 | 19.2/85.0   | 210-220 gusting to 235                         | Very Severe Cyclonic Storm |
| 13-10-2013/0530 | 19.8/84.4   | 90-100 gusting to 110                          | Severe Cyclonic Storm      |
| 13-10-2013/1730 | 20.5/84.0   | 50-60 gusting to 70                            | Deep Depression            |
| 14.10.2013/0530 | 21.5/83.7   | 40-50 gusting to 60                            | Depression                 |

**Warning for Odisha, Andhra Pradesh and West Bengal**

(xxv) Rainfall at many places with heavy to very heavy falls at a few places and isolated extremely heavy falls ( ~ 25 cm) would occur over coastal Odisha during next 48 hrs and over interior Odisha from tomorrow afternoon for subsequent 48 hrs. Rainfall at most places with isolated heavy to very heavy falls would also occur over north coastal Andhra Pradesh during next 48 hrs. Isolated heavy to very heavy rainfall would occur over coastal areas of West Bengal commencing from afternoon of 12<sup>th</sup> October for subsequent 48 hrs.

(xxvi) **Gale wind:** Squally winds speed reaching 45-55 kmph gusting to 65 kmph would continue along and off Odisha and north Andhra Pradesh coast during next 12 hrs. It would increase in intensity thereafter with gale wind speed reaching 100-150 kmph from forenoon and 210-220 kmph along and off coastal districts of north coastal Andhra Pradesh and south Odisha at the time of landfall. State of Sea along and off Odisha and north Andhra Pradesh coast is rough to very rough and will become gradually phenomenal on 12<sup>th</sup> October 2013. It will be rough to very rough along and off West Bengal coast during the above period.

(iii) **Storm Surge Guidance:** Storm surge with height of 3.0 to 3.5 mt. above astronomical tide would inundate low lying areas of Ganjam, Khurda, Puri and Jagatsinghpur districts of Odisha and Srikakulam district of Andhra Pradesh during landfall.

(iv) **Damage expected over Odisha and adjoining north Andhra Pradesh:** Extensive damage to kutcha houses. Some damage to old buildings. Large scale disruption of power and communication lines. Disruption of rail and road traffic due to extensive flooding. Potential threat from flying debris. Flooding of escape routes. Extensive damage to agricultural crops.

(v) **Action suggested:** Fishermen out at sea along north Andhra Pradesh, Odisha and West Bengal coast are advised to return to coast. Fishermen are advised not to venture into sea. Total suspension of fishing operations. Mobilise evacuation from coastal areas. Judicious regulation of rail and road traffic. People in affected areas to remain indoors during cyclone landfall.

**The next bulletin will be issued at 0230 hrs IST of today, the 12<sup>th</sup> October, 2013.**

(Charan Singh)

Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumbai (022-22630084) /Command MO Visakhapatnam (0891-2709086)/ MO Port Blair (03192-229480).



भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

FAX MESSAGE

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CHIEF SECRETARY, GOVT OF JHARKHAND (FAX No. 0651-2400255)  
CHIEF SECRETARY, GOVT OF CHATTISGARH (FAX No. 0771-2221206)

Time of issue: 0130 hours IST

Dated: 12-10-2013

(Red Message)

Bulletin No.: BOB 04/2013/27

**Sub:** Very Severe Cyclonic Storm 'PHAILIN' over westcentral and adjoining eastcentral Bay of Bengal: Cyclone Warning for North Andhra Pradesh and Odisha Coast.

The very severe cyclonic storm, **PHAILIN** over westcentral and adjoining eastcentral Bay of Bengal moved west-northwestwards during past 6 hours and lay centred at 2330 hrs IST of 11<sup>th</sup> October 2013 over westcentral and adjoining eastcentral Bay of Bengal near latitude 16.9° N and longitude 87.0° E, about 375 km south-southeast of Paradip, 345 km southeast of Gopalpur, and 340 km east-southeast of Kalingapatnam. It would move northwestwards and cross north Andhra Pradesh and Odisha coasts between Kalingapatnam and Paradip, close to Gopalpur (Odisha) by evening of today i.e. the 12<sup>th</sup> October, 2013 as a very severe cyclonic storm with a maximum sustained wind speed of 210-220 kmph.

Estimated track and intensity of the system are given in the Table below:

| Date/Time(IST)  | Position<br>(Lat. °N/ Long. °E) | Sustained maximum surface<br>wind speed (kmph) | Category                   |
|-----------------|---------------------------------|--|----------------------------|
| 11-10-2013/2330 | 16.9/87.0                       | 210-220 gusting to 235                         | Very Severe Cyclonic Storm |
| 12-10-2013/0530 | 17.5/86.3                       | 210-220 gusting to 235                         | Very Severe Cyclonic Storm |
| 12-10-2013/1130 | 18.3/85.6                       | 210-220 gusting to 235                         | Very Severe Cyclonic Storm |
| 12-10-2013/1730 | 19.1/84.9                       | 210-220 gusting to 235                         | Very Severe Cyclonic Storm |
| 12-10-2013/2330 | 19.8/84.5                       | 100-110 gusting to 120                         | Severe Cyclonic Storm      |
| 13-10-2013/1130 | 20.5/84.1                       | 50-60 gusting to 70                            | Deep Depression            |
| 13.10.2013/2330 | 21.5/83.7                       | 40-50 gusting to 60                            | Depression                 |

## **Warning for Odisha, Andhra Pradesh and West Bengal**

(xxvii) Rainfall at many places with heavy to very heavy falls at a few places and isolated extremely heavy falls ( $\sim$  25 cm) would occur over coastal Odisha during next 48 hrs and over interior Odisha from today afternoon for subsequent 48 hrs. Rainfall at most places with isolated heavy to very heavy falls would also occur over north coastal Andhra Pradesh during next 48 hrs. Isolated heavy to very heavy rainfall would occur over coastal areas of West Bengal commencing from afternoon of today i.e. the 12<sup>th</sup> October.

(xxviii) **Gale wind:** Squally winds speed reaching 45-55 kmph gusting to 65 kmph would continue along and off Odisha and north Andhra Pradesh coast during next 6 hrs. It would increase in intensity thereafter with gale wind speed reaching 100-150 kmph from forenoon and 210-220 kmph along and off coastal districts of north coastal Andhra Pradesh and south Odisha at the time of landfall. State of Sea along and off Odisha and north Andhra Pradesh coast is rough to very rough and will become gradually phenomenal from afternoon of today. It will be rough to very rough along and off West Bengal coast during the above period.

(iii) **Storm Surge Guidance:** Storm surge with height of 3.0 to 3.5 mt. above astronomical tide would inundate low lying areas of Ganjam, Khurda, Puri and Jagatsinghpur districts of Odisha and Srikakulam district of Andhra Pradesh during landfall.

(iv) **Damage expected over Odisha and adjoining north Andhra Pradesh:** Extensive damage to kutcha houses. Some damage to old buildings. Large scale disruption of power and communication lines. Disruption of rail and road traffic due to extensive flooding. Potential threat from flying debris. Flooding of escape routes. Extensive damage to agricultural crops.

(v) **Action suggested:** Fishermen out at sea along north Andhra Pradesh, Odisha and West Bengal coast are advised to return to coast. Fishermen are advised not to venture into sea. Total suspension of fishing operations. Mobilise evacuation from coastal areas. Judicious regulation of rail and road traffic. People in affected areas to remain indoors during cyclone landfall.

**The next bulletin will be issued at 0530 hrs IST of today, the 12<sup>th</sup> October, 2013.**

(Charan Singh)

Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumbai (022-22630084) /Command MO Visakhapatnam (0891-2709086)/ MO Port Blair (03192-229480).



भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

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CHIEF SECRETARY, GOVT OF CHATTISGARH (FAX No. 0771-2221206)

Time of issue: 0530 hours IST

Dated: 12-10-2013

(Red Message)

Bulletin No.: BOB 04/2013/28

**Sub:** Very Severe Cyclonic Storm 'PHAILIN' over westcentral and adjoining eastcentral Bay of Bengal: Cyclone Warning for North Andhra Pradesh and Odisha Coast.

The very severe cyclonic storm, **PHAILIN** over westcentral and adjoining eastcentral Bay of Bengal moved northwestwards during past 6 hours and lay centred at 0230 hrs IST of today, the 12<sup>th</sup> October 2013 over westcentral and adjoining eastcentral Bay of Bengal near latitude 17.1° N and longitude 86.8° E, about 355 km south-southeast of Paradip, 320 km southeast of Gopalpur, and 315 km east-southeast of Kalingapatnam. It would move northwestwards and cross north Andhra Pradesh and Odisha coasts between Kalingapatnam and Paradip, close to Gopalpur (Odisha) by evening of today i.e. the 12<sup>th</sup> October, 2013 as a very severe cyclonic storm with a maximum sustained wind speed of 210-220 kmph.

Estimated track and intensity of the system are given in the Table below:

| Date/Time(IST)  | Position (Lat. °N/ Long. °E) | Sustained maximum surface wind speed (kmph) | Category                   |
|-----------------|------------------------------|---|----------------------------|
| 12-10-2013/0230 | 17.1/86.8                    | 210-220 gusting to 235                      | Very Severe Cyclonic Storm |
| 12-10-2013/0530 | 17.4/86.4                    | 210-220 gusting to 235                      | Very Severe Cyclonic Storm |
| 12-10-2013/1130 | 18.3/85.5                    | 210-220 gusting to 235                      | Very Severe Cyclonic Storm |
| 12-10-2013/1730 | 19.1/84.9                    | 210-220 gusting to 235                      | Very Severe Cyclonic Storm |
| 12-10-2013/2330 | 19.8/84.5                    | 100-110 gusting to 120                      | Severe Cyclonic Storm      |
| 13-10-2013/1130 | 20.5/84.1                    | 50-60 gusting to 70                         | Deep Depression            |
| 13.10.2013/2330 | 21.5/83.7                    | 40-50 gusting to 60                         | Depression                 |

**Warning for Odisha, Andhra Pradesh and West Bengal**

**(xxix)** Rainfall at most places with heavy to very heavy falls at a few places and isolated extremely heavy falls (  $\sim$  25 cm) would occur over coastal Odisha during next 48 hrs and over interior Odisha from today afternoon for subsequent 48 hrs. Rainfall at most places with isolated heavy to very heavy falls would also occur over north coastal Andhra Pradesh during next 48 hrs. Isolated heavy to very heavy rainfall would occur over coastal areas of West Bengal commencing from afternoon of today i.e. the 12<sup>th</sup> October.

**(xxx)** **Gale wind:** Squally winds speed reaching 55-65 kmph gusting to 75 kmph would continue along and off Odisha and north Andhra Pradesh coasts during next 6 hours. It would increase in intensity thereafter with gale wind speed reaching 100-150 kmph from forenoon and 210-220 kmph along and off coastal districts of north coastal Andhra Pradesh and south Odisha at the time of landfall. State of Sea along and off Odisha and north Andhra Pradesh coast is rough to very rough and will become gradually phenomenal from afternoon of today. It will be rough to very rough along and off West Bengal coast during the above period.

**(iii) Storm Surge Guidance:** Storm surge with height of 3.0 to 3.5 mt. above astronomical tide would inundate low lying areas of Ganjam, Khurda, Puri and Jagatsinghpur districts of Odisha and Srikakulam district of Andhra Pradesh during landfall.

**(iv) Damage expected over Odisha and adjoining north Andhra Pradesh:** Extensive damage to kutch houses. Some damage to old buildings. Large scale disruption of power and communication lines. Disruption of rail and road traffic due to extensive flooding. Potential threat from flying debris. Flooding of escape routes. Extensive damage to agricultural crops.

**(v) Action suggested:** Fishermen out at sea along north Andhra Pradesh, Odisha and West Bengal coast are advised to return to coast. Fishermen are advised not to venture into sea. Total suspension of fishing operations. Mobilise evacuation from coastal areas. Judicious regulation of rail and road traffic. People in affected areas to remain indoors during cyclone landfall.

**The next bulletin will be issued at 0830 hrs IST of today, the 12<sup>th</sup> October, 2013.**

(Charan Singh)

Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumbai (022-22630084) /Command MO Visakhapatnam (0891-2709086)/ MO Port Blair (03192-229480).



भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

FAX MESSAGE

FROM: INDIA METEOROLOGICAL DEPARTMENT (Fax No. 24699216/24623220)

To: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750, 23092398)  
CONTROL ROOM NDMA (FAX.NO.26701729)  
CABINET SECRETARIAT (FAX.NO.23793144)  
PS TO HON'BLE MINISTER FOR SCIENCE AND TECHNOLOGY AND EARTH SCIENCES (FAX NO.23316745)  
SECRETARY, MoES, (Fax No. 24629777)  
SECRETARY, DST (Fax No. 26863847/-2418)  
H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)  
DIRECTOR GENERAL, DOORDARSHAN (23385843)  
DIRECTOR GENERAL, AIR (25843825)  
PIB MoES ( FAX NO. 23389042)  
UNI (FAX NO. 23355841)  
D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX No. 26105912)  
DIRECTOR OF PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)  
CHIEF SECRETARY, GOVT. OF ANDAMAN & NICOBAR ISLAND (FAX NO. 03192-223331)  
CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674-2536660)  
CHIEF SECRETARY, GOVT. OF PUDUCHERRY (FAX NO. 0413-2337575)  
CHIEF SECRETARY, GOVT OF ANDHRA PRADESH (FAX No. 040-23453700)  
CHIEF SECRETARY, GOVT OF WEST BENGAL (FAX No. 033-22144328)  
CHIEF SECRETARY, GOVT OF JHARKHAND (FAX No. 0651-2400255)  
CHIEF SECRETARY, GOVT OF CHATTISGARH (FAX No. 0771-2221206)

Time of issue: 0800 hours IST

Dated: 12-10-2013

(Red Message)

Bulletin No.: BOB 04/2013/29

**Sub:** Very Severe Cyclonic Storm 'PHAILIN' over westcentral and adjoining northwest Bay of Bengal: Cyclone Warning for North Andhra Pradesh and Odisha Coast.

The very severe cyclonic storm, **PHAILIN** over westcentral & adjoining eastcentral Bay of Bengal moved northwestwards during past 6 hours with a speed of 15 kmph and lay centred at 0530 hrs IST of today, the 12<sup>th</sup> October 2013 over westcentral and adjoining northwest Bay of Bengal near latitude 17.5<sup>o</sup> N and longitude 86.5<sup>o</sup> E, about 260 km southeast of Gopalpur, 270 km east-southeast of Kalingapatnam and 310 km south-southeast of Paradip. It would move northwestwards and cross north Andhra Pradesh and Odisha coasts between Kalingapatnam and Paradip, close to Gopalpur (Odisha) by evening of today i.e. the 12<sup>th</sup> October, 2013 as a very severe cyclonic storm with a maximum sustained wind speed of 210-220 kmph gusting to 240 kmph.

Estimated track and intensity of the system are given in the Table below:

| Date/Time(IST)  | Position<br>(Lat. <sup>o</sup> N/ Long. <sup>o</sup> E) | Sustained maximum surface<br>wind speed (kmph) | Category                   |
|-----------------|---|--|----------------------------|
| 12-10-2013/0530 | 17.5/86.5   | 210-220 gusting to 240                         | Very Severe Cyclonic Storm |
| 12-10-2013/1130 | 18.3/85.5   | 210-220 gusting to 240                         | Very Severe Cyclonic Storm |
| 12-10-2013/1730 | 19.1/84.9   | 210-220 gusting to 240                         | Very Severe Cyclonic Storm |
| 12-10-2013/2330 | 19.8/84.5   | 170-180 gusting to 200                         | Very Severe Cyclonic Storm |
| 13-10-2013/0530 | 20.5/83.9   | 80-90 gusting to 100                           | Severe Cyclonic Storm      |
| 13-10-2013/1730 | 21.0/84.1   | 50-60 gusting to 70                            | Deep Depression            |
| 14.10.2013/0530 | 22.0/83.5   | 40-50 gusting to 60                            | Depression                 |

## **Warning for Odisha, Andhra Pradesh and West Bengal**

(xxxix) Rainfall at most places with heavy to very heavy falls at a few places and isolated extremely heavy falls (~ 25 cm) would occur over coastal Odisha during next 48 hrs and over interior Odisha from today afternoon for subsequent 48 hrs. Rainfall at most places with isolated heavy to very heavy falls would also occur over north coastal Andhra Pradesh during next 48 hrs. Isolated heavy to very heavy rainfall would occur over coastal areas of West Bengal commencing from afternoon of today i.e. the 12<sup>th</sup> October.

(xxxii) **Gale wind:** Gale winds speed reaching 70-80 kmph gusting to 90 kmph would prevail along and off Odisha and north Andhra Pradesh coasts during next 6 hours. It would increase in intensity thereafter with gale wind speed reaching 100-150 kmph from noon and 210-220 kmph gusting to 235 along and off coastal districts of north coastal Andhra Pradesh and south Odisha at the time of landfall. State of Sea along and off Odisha and north Andhra Pradesh coast is high and will become gradually phenomenal from forenoon of today. It will be rough to very rough along and off West Bengal coast during the above period.

(iii) **Storm Surge Guidance:** Storm surge with height of 3.0 to 3.5 metre. above astronomical tide would inundate low lying areas of Ganjam, Khurda, Puri and Jagatsinghpur districts of Odisha and Srikakulam district of Andhra Pradesh during landfall.

(iv) **Damage expected over Odisha and adjoining north Andhra Pradesh:** Extensive damage to kutcha houses. Some damage to old buildings. Large scale disruption of power and communication lines. Disruption of rail and road traffic due to extensive flooding. Potential threat from flying debris. Flooding of escape routes. Extensive damage to agricultural crops.

(v) **Action suggested:** Fishermen are advised not to venture into sea along north Andhra Pradesh, Odisha and West Bengal coast. Total suspension of fishing operations. Large scale evacuation of population from coastal areas. Total suspension of rail and road traffic in vulnerable areas. People in affected areas to remain indoors.

**Post landfall outlook:** Even after landfall the system is likely to maintain the intensity of very cyclonic storm for 6 hours and gradually weaken into a cyclonic storm in subsequent 6 hours while moving northwestwards across interior Odisha. Under its influence rainfall at most places with heavy falls at a few places and extremely heavy falls at isolated places would occur over Odisha. Rainfall at many places with isolated heavy to very heavy falls would also occur over north coastal Andhra Pradesh, Chhattisgarh and south Jharkhand. Squally wind speed reaching 100-120 kmph would also prevail for 6 hours and 60-70 for subsequent 6 hours over Odisha during the same period.

**The next bulletin will be issued at 1130 hrs IST of today, the 12<sup>th</sup> October, 2013.**

(M. Mohapatra)

Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumbai (022-22630084) /Command MO Visakhapatnam (0891-2709086)/ MO Port Blair (03192-229480).





भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

FAX MESSAGE

FROM: INDIA METEOROLOGICAL DEPARTMENT (Fax No. 24699216/24623220)

To: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750, 23092398)  
CONTROL ROOM NDMA (FAX.NO.26701729)  
CABINET SECRETARIAT (FAX.NO.23793144)  
PS TO HON'BLE MINISTER FOR SCIENCE AND TECHNOLOGY AND EARTH SCIENCES (FAX NO.23316745)  
SECRETARY, MoES, (Fax No. 24629777)  
SECRETARY, DST (Fax No. 26863847/-2418)  
H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)  
DIRECTOR GENERAL, DOORDARSHAN (23385843)  
DIRECTOR GENERAL, AIR (25843825)  
PIB MoES ( FAX NO. 23389042)  
UNI (FAX NO. 23355841)  
D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX No. 26105912)  
DIRECTOR OF PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)  
CHIEF SECRETARY, GOVT. OF ANDAMAN & NICOBAR ISLAND (FAX NO. 03192-223331)  
CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674-2536660)  
CHIEF SECRETARY, GOVT. OF PUDUCHERRY (FAX NO. 0413-2337575)  
CHIEF SECRETARY, GOVT OF ANDHRA PRADESH (FAX No. 040-23453700)  
CHIEF SECRETARY, GOVT OF WEST BENGAL (FAX No. 033-22144328)  
CHIEF SECRETARY, GOVT OF JHARKHAND (FAX No. 0651-2400255)  
CHIEF SECRETARY, GOVT OF CHATTISGARH (FAX No. 0771-2221206)

Time of issue: 1100 hours IST

Dated: 12-10-2013

(Red Message)

Bulletin No.: BOB 04/2013/30

**Sub: Very Severe Cyclonic Storm 'PHAILIN' over westcentral & adjoining northwest Bay of Bengal: Cyclone Warning for North Andhra Pradesh and Odisha Coast.**

The very severe cyclonic storm, **PHAILIN** over westcentral & adjoining northwest Bay of Bengal moved northwestwards during past 6 hours with a speed of 15 kmph and lay centred at 0830 hrs IST of today, the 12<sup>th</sup> October 2013 over westcentral & adjoining northwest Bay of Bengal near latitude 17.8° N and longitude 86.0° E, about 200 km southeast of Gopalpur, 200 km east-southeast of Kalingapatnam and 280 km southeast of Paradip. It would move northwestwards and cross north Andhra Pradesh and Odisha coasts between Kalingapatnam and Paradip, close to Gopalpur (Odisha) by evening of today i.e. the 12<sup>th</sup> October, 2013 as a very severe cyclonic storm with a maximum sustained wind speed of 210-220 kmph gusting to 240 kmph.

Estimated track and intensity of the system are given in the Table below:

| Date/Time(IST)  | Position (Lat. °N/ Long. °E) | Sustained maximum surface wind speed (kmph) | Category                   |
|-----------------|------------------------------|---|----------------------------|
| 12-10-2013/0830 | 17.8/86.0                    | 210-220 gusting to 240                      | Very Severe Cyclonic Storm |
| 12-10-2013/1130 | 18.3/85.5                    | 210-220 gusting to 240                      | Very Severe Cyclonic Storm |
| 12-10-2013/1730 | 19.1/84.9                    | 210-220 gusting to 240                      | Very Severe Cyclonic Storm |
| 12-10-2013/2330 | 19.8/84.5                    | 170-180 gusting to 200                      | Very Severe Cyclonic Storm |
| 13-10-2013/0530 | 20.5/83.9                    | 80-90 gusting to 100                        | Severe Cyclonic Storm      |
| 13-10-2013/1730 | 21.0/84.1                    | 50-60 gusting to 70                         | Deep Depression            |
| 14.10.2013/0530 | 22.0/83.5                    | 40-50 gusting to 60                         | Depression                 |

## **Warning for Odisha, Andhra Pradesh and West Bengal**

(xxxiii) Rainfall at most places with heavy to very heavy falls at a few places and isolated extremely heavy falls (~ 25 cm) would occur over coastal Odisha during next 48 hrs and over interior Odisha from today afternoon for subsequent 48 hrs. Rainfall at most places with isolated heavy to very heavy falls would also occur over north coastal Andhra Pradesh during next 48 hrs. Isolated heavy to very heavy rainfall would occur over coastal areas of West Bengal commencing from afternoon of today i.e. the 12<sup>th</sup> October.

(xxxiv) **Gale wind:** Gale winds speed reaching 70-80 kmph gusting to 90 kmph would prevail along and off Odisha and north Andhra Pradesh coasts during next 6 hours. It would increase in intensity thereafter with gale wind speed reaching 100-150 kmph from noon and 210-220 kmph gusting to 235 along and off coastal districts of north coastal Andhra Pradesh and south Odisha at the time of landfall. State of Sea along and off Odisha and north Andhra Pradesh coast is high and will become gradually phenomenal from forenoon of today. It will be rough to very rough along and off West Bengal coast during the above period.

(iii) **Storm Surge Guidance:** Storm surge with height of 3.0 to 3.5 metre. above astronomical tide would inundate low lying areas of Ganjam, Khurda, Puri and Jagatsinghpur districts of Odisha and Srikakulam district of Andhra Pradesh during landfall.

(iv) **Damage expected over Odisha and adjoining north Andhra Pradesh:** Extensive damage to kutcha houses. Some damage to old buildings. Large scale disruption of power and communication lines. Disruption of rail and road traffic due to extensive flooding. Potential threat from flying debris. Flooding of escape routes. Extensive damage to agricultural crops.

(v) **Action suggested:** Fishermen are advised not to venture into sea along north Andhra Pradesh, Odisha and West Bengal coast. Total suspension of fishing operations. Large scale evacuation of population from coastal areas. Total suspension of rail and road traffic in vulnerable areas. People in affected areas to remain indoors.

**Post landfall outlook:** Even after landfall the system is likely to maintain the intensity of very cyclonic storm for 6 hours and gradually weaken into a cyclonic storm in subsequent 6 hours while moving northwestwards across interior Odisha. Under its influence rainfall at most places with heavy falls at a few places and extremely heavy falls at isolated places would occur over Odisha. Rainfall at many places with isolated heavy to very heavy falls would also occur over north coastal Andhra Pradesh, Chhattisgarh and south Jharkhand. Squally wind speed reaching 100-120 kmph would also prevail for 6 hours and 60-70 for subsequent 6 hours over Odisha during the same period.

**The next bulletin will be issued at 1430 hrs IST of today, the 12<sup>th</sup> October, 2013.**

(Kamaljit Ray)

Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumbai (022-22630084) /Command MO Visakhapatnam (0891-2709086)/ MO Port Blair (03192-229480).



भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

FAX MESSAGE

FROM: INDIA METEOROLOGICAL DEPARTMENT (Fax No. 24699216/24623220)

To: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750, 23092398)  
CONTROL ROOM NDMA (FAX.NO.26701729)  
CABINET SECRETARIAT (FAX.NO.23793144)  
PS TO HON'BLE MINISTER FOR SCIENCE AND TECHNOLOGY AND EARTH SCIENCES (FAX NO.23316745)  
SECRETARY, MoES, (Fax No. 24629777)  
SECRETARY, DST (Fax No. 26863847/-2418)  
H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)  
DIRECTOR GENERAL, DOORDARSHAN (23385843)  
DIRECTOR GENERAL, AIR (25843825)  
PIB MoES ( FAX NO. 23389042)  
UNI (FAX NO. 23355841)  
D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX No. 26105912)  
DIRECTOR OF PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)  
CHIEF SECRETARY, GOVT. OF ANDAMAN & NICOBAR ISLAND (FAX NO. 03192-223331)  
CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674-2536660)  
CHIEF SECRETARY, GOVT. OF PUDUCHERRY (FAX NO. 0413-2337575)  
CHIEF SECRETARY, GOVT OF ANDHRA PRADESH (FAX No. 040-23453700)  
CHIEF SECRETARY, GOVT OF WEST BENGAL (FAX No. 033-22144328)  
CHIEF SECRETARY, GOVT OF JHARKHAND (FAX No. 0651-2400255)  
CHIEF SECRETARY, GOVT OF CHATTISGARH (FAX No. 0771-2221206)

Time of issue: 1300 hours IST

Dated: 12-10-2013

(Red Message)

Bulletin No.: BOB 04/2013/31

**Sub: Very Severe Cyclonic Storm 'PHAILIN' over westcentral & adjoining northwest Bay of Bengal: Cyclone Warning for North Andhra Pradesh and Odisha Coast.**

The very severe cyclonic storm, **PHAILIN** over westcentral & adjoining northwest Bay of Bengal moved northwestwards during past 6 hours with a speed of 15 kmph and lay centred at 1130 hrs IST of today, the 12<sup>th</sup> October 2013 over westcentral & adjoining northwest Bay of Bengal near latitude 18.1° N and longitude 85.7° E, about 150 km southeast of Gopalpur, 160 km east-southeast of Kalingapatnam and 260 km southeast of Paradip. It would move northwestwards and cross north Andhra Pradesh and Odisha coasts between Kalingapatnam and Paradip, close to Gopalpur (Odisha) by evening of today i.e. the 12<sup>th</sup> October, 2013 as a very severe cyclonic storm with a maximum sustained wind speed of 210-220 kmph gusting to 240 kmph.

Estimated track and intensity of the system are given in the Table below:

| Date/Time(IST)  | Position<br>(Lat. °N/ Long. °E) | Sustained maximum surface<br>wind speed (kmph) | Category                   |
|-----------------|---------------------------------|--|----------------------------|
| 12-10-2013/1130 | 18.1/85.7                       | 210-220 gusting to 240                         | Very Severe Cyclonic Storm |
| 12-10-2013/1730 | 18.9/84.9                       | 210-220 gusting to 240                         | Very Severe Cyclonic Storm |
| 12-10-2013/2330 | 19.4/84.5                       | 170-180 gusting to 200                         | Very Severe Cyclonic Storm |
| 13-10-2013/0530 | 20.5/84.1                       | 80-90 gusting to 100                           | Severe Cyclonic Storm      |
| 13-10-2013/1130 | 21.0/83.8                       | 50-60 gusting to 70                            | Deep Depression            |
| 13-10.2013/2330 | 22.0/83.4                       | 40-50 gusting to 60                            | Depression                 |

## **Warning for Odisha, Andhra Pradesh and West Bengal**

(xxxv) Rainfall at most places with heavy to very heavy falls at a few places and isolated extremely heavy falls ( > 25 cm) would occur over coastal Odisha during next 48 hrs and over interior Odisha from today afternoon for subsequent 48 hrs. Rainfall at most places with isolated heavy to very heavy falls would also occur over north coastal Andhra Pradesh during next 48 hrs. Isolated heavy to very heavy rainfall would occur over coastal areas of West Bengal commencing from afternoon of today i.e. the 12<sup>th</sup> October.

(xxxvi) **Gale wind:** Gale winds speed reaching 70-80 kmph gusting to 90 kmph would prevail along and off Odisha and north Andhra Pradesh coasts during next 6 hours. It would increase in intensity thereafter with gale wind speed reaching 100-150 kmph from noon and 210-220 kmph gusting to 235 along and off coastal districts of north coastal Andhra Pradesh and south Odisha at the time of landfall. State of Sea along and off Odisha and north Andhra Pradesh coast is high and will become gradually phenomenal from forenoon of today. It will be rough to very rough along and off West Bengal coast during the above period.

(iii) **Storm Surge Guidance:** Storm surge with height of 3.0 to 3.5 metre. above astronomical tide would inundate low lying areas of Ganjam, Khurda, Puri and Jagatsinghpur districts of Odisha and Srikakulam district of Andhra Pradesh during landfall.

(iv) **Damage expected over Odisha and adjoining north Andhra Pradesh:** Extensive damage to kutch houses. Some damage to old buildings. Large scale disruption of power and communication lines. Disruption of rail and road traffic due to extensive flooding. Potential threat from flying debris. Flooding of escape routes. Extensive damage to agricultural crops.

(v) **Action suggested:** Fishermen are advised not to venture into sea along north Andhra Pradesh, Odisha and West Bengal coast. Total suspension of fishing operations. Large scale evacuation of population from coastal areas. Total suspension of rail and road traffic in vulnerable areas . People in affected areas to remain indoors.

**Post landfall outlook:** Even after landfall the system is likely to maintain the intensity of very cyclonic storm for 6 hours and gradually weaken into a cyclonic storm in subsequent 6 hours while moving northwestwards across interior Odisha. Under its influence rainfall at most places with heavy falls at a few places and extremely heavy falls at isolated places would occur over Odisha. Rainfall at many places with isolated heavy to very heavy falls would also occur over north coastal Andhra Pradesh, Chhattisgarh and south Jharkhand. Squally wind speed reaching 100-120 kmph would also prevail for 6 hours and 60-70 for subsequent 6 hours over Odisha during the same period.

**The next bulletin will be issued at 1730 hrs IST of today, the 12<sup>th</sup> October, 2013.**

(Kamaljit Ray)

Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumbai (022-22630084) /Command MO Visakhapatnam (0891-2709086)/ MO Port Blair (03192-229480).



भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

FAX MESSAGE

FROM: INDIA METEOROLOGICAL DEPARTMENT (Fax No. 24699216/24623220)

To: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750, 23092398)  
CONTROL ROOM NDMA (FAX.NO.26701729)  
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PS TO HON'BLE MINISTER FOR SCIENCE AND TECHNOLOGY AND EARTH SCIENCES (FAX NO.23316745)  
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D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX No. 26105912)  
DIRECTOR OF PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)  
CHIEF SECRETARY, GOVT. OF ANDAMAN & NICOBAR ISLAND (FAX NO. 03192-223331)  
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CHIEF SECRETARY, GOVT OF WEST BENGAL (FAX No. 033-22144328)  
CHIEF SECRETARY, GOVT OF JHARKHAND (FAX No. 0651-2400255)  
CHIEF SECRETARY, GOVT OF CHATTISGARH (FAX No. 0771-2221206)

Time of issue: 1500 hours IST

Dated: 12-10-2013

(Red Message)

Bulletin No.: BOB 04/2013/32

**Sub: Very Severe Cyclonic Storm 'PHAILIN' over westcentral & adjoining northwest Bay of Bengal: Cyclone Warning for North Andhra Pradesh and Odisha Coast.**

The very severe cyclonic storm, **PHAILIN** over westcentral & adjoining northwest Bay of Bengal moved north-northwestwards during past 3 hours with a speed of 20 kmph and lay centred at 1430 hrs IST of today, the 12<sup>th</sup> October 2013 over westcentral & adjoining northwest Bay of Bengal near latitude 18.6<sup>o</sup> N and longitude 85.4<sup>o</sup> E, about 90 km southeast of Gopalpur. It would move northwestwards and cross north Andhra Pradesh and Odisha coasts close to Gopalpur (Odisha) during 6-8 P.M. of today i.e. the 12<sup>th</sup> October, 2013 as a very severe cyclonic storm with a maximum sustained wind speed of 210-220 kmph gusting to 240 kmph.

Estimated track and intensity of the system are given in the Table below:

| Date/Time(IST)  | Position<br>(Lat. <sup>o</sup> N/ Long. <sup>o</sup> E) | Sustained maximum surface<br>wind speed (kmph) | Category                   |
|-----------------|---|--|----------------------------|
| 12-10-2013/1430 | 18.6/85.4   | 210-220 gusting to 240                         | Very Severe Cyclonic Storm |
| 12-10-2013/1730 | 19.2/84.9   | 210-220 gusting to 240                         | Very Severe Cyclonic Storm |
| 12-10-2013/2330 | 20.2/84.3   | 170-180 gusting to 200                         | Very Severe Cyclonic Storm |
| 13-10-2013/0530 | 21.2/84.0   | 80-90 gusting to 100                           | Cyclonic Storm             |
| 13-10-2013/1130 | 22.0/83.5   | 50-60 gusting to 70                            | Deep Depression            |

## **Warning for Odisha, Andhra Pradesh and West Bengal**

**(xxxvii)** Rainfall at most places with heavy to very heavy falls at a few places and isolated extremely heavy falls (~ 25 cm) would occur over Odisha and north coastal Andhra Pradesh during next 48 hrs. Isolated heavy to very heavy rainfall would occur over coastal areas of West Bengal commencing from afternoon of today i.e. the 12<sup>th</sup> October.

**(xxxviii)** **Gale wind:** Gale winds speed reaching 210-220 kmph gusting to 235 along and off coastal districts of north coastal Andhra Pradesh and south Odisha would prevail at the time of landfall. State of Sea along and off Odisha and north Andhra Pradesh coast will be phenomenal. It will be rough to very rough along and off West Bengal coast during the above period.

**(iii) Storm Surge Guidance:** Storm surge with height of 3.0 to 3.5 metre. above astronomical tide would inundate low lying areas of Ganjam, Khurda, Puri and Jagatsinghpur districts of Odisha and Srikakulam district of Andhra Pradesh during landfall.

**(iv) Damage expected over Odisha and adjoining north Andhra Pradesh:** Extensive damage to kutcha houses. Some damage to old buildings. Large scale disruption of power and communication lines. Disruption of rail and road traffic due to extensive flooding. Potential threat from flying debris. Flooding of escape routes. Extensive damage to agricultural crops.

**(v) Action suggested:** Fishermen are advised not to venture into sea along north Andhra Pradesh, Odisha and West Bengal coast. Total suspension of fishing operations. Large scale evacuation of population from coastal areas. Total suspension of rail and road traffic in vulnerable areas. People in affected areas to remain indoors.

**Post landfall outlook:** Even after landfall the system is likely to maintain the intensity of very severe cyclonic storm for 6 hours and gradually weaken into a cyclonic storm in subsequent 6 hours while moving northwestwards across interior Odisha. Under its influence rainfall at most places with heavy falls at a few places and extremely heavy falls at isolated places would occur over Odisha. Rainfall at many places with isolated heavy to very heavy falls would also occur over north coastal Andhra Pradesh, Chhattisgarh and Jharkhand. Squally wind speed reaching 100-120 kmph would also prevail for 6 hours and 60-70 for subsequent 6 hours over Odisha during the same period.

**The next bulletin will be issued at 2030 hrs IST of today, the 12<sup>th</sup> October, 2013.**

(Kamaljit Ray)

Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumbai (022-22630084) /Command MO Visakhapatnam (0891-2709086)/ MO Port Blair (03192-229480).



भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

FAX MESSAGE

FROM: INDIA METEOROLOGICAL DEPARTMENT (Fax No. 24699216/24623220)

To: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750, 23092398)  
CONTROL ROOM NDMA (FAX.NO.26701729)  
CABINET SECRETARIAT (FAX.NO.23793144)  
PS TO HON'BLE MINISTER FOR SCIENCE AND TECHNOLOGY AND EARTH SCIENCES (FAX NO.23316745)  
SECRETARY, MoES, (Fax No. 24629777)  
SECRETARY, DST (Fax No. 26863847/-2418)  
H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)  
DIRECTOR GENERAL, DOORDARSHAN (23385843)  
DIRECTOR GENERAL, AIR (25843825)  
PIB MoES ( FAX NO. 23389042)  
UNI (FAX NO. 23355841)  
D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX No. 26105912)  
DIRECTOR OF PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)  
CHIEF SECRETARY, GOVT. OF ANDAMAN & NICOBAR ISLAND (FAX NO. 03192-223331)  
CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674-2536660)  
CHIEF SECRETARY, GOVT. OF PUDUCHERRY (FAX NO. 0413-2337575)  
CHIEF SECRETARY, GOVT OF ANDHRA PRADESH (FAX No. 040-23453700)  
CHIEF SECRETARY, GOVT OF WEST BENGAL (FAX No. 033-22144328)  
CHIEF SECRETARY, GOVT OF JHARKHAND (FAX No. 0651-2400255)  
CHIEF SECRETARY, GOVT OF CHATTISGARH (FAX No. 0771-2221206)

Time of issue: 1830 hours IST

Dated: 12-10-2013

(Red Message)

Bulletin No.: BOB 04/2013/33

**Sub: Very Severe Cyclonic Storm 'PHAILIN' over westcentral & adjoining northwest Bay of Bengal: Cyclone Warning for North Andhra Pradesh and Odisha Coast.**

The very severe cyclonic storm, **PHAILIN** over westcentral & adjoining northwest Bay of Bengal moved west-northwestwards during past 3 hours with a speed of 20 kmph and lay centred at 1730 hrs IST of today, the 12<sup>th</sup> October 2013 over westcentral & adjoining northwest Bay of Bengal near latitude 18.7° N and longitude 85.2° E, about 65 km southeast of Gopalpur. It would move northwestwards and cross north Andhra Pradesh and Odisha coasts close to Gopalpur (Odisha) within few hours as a very severe cyclonic storm with a maximum sustained wind speed of 210-220 kmph gusting to 240 kmph.

Estimated track and intensity of the system are given in the Table below:

| Date/Time(IST)  | Position<br>(Lat. °N/ Long. °E) | Sustained maximum surface<br>wind speed (kmph) | Category                   |
|-----------------|---------------------------------|--|----------------------------|
| 12-10-2013/1730 | 18.7/85.2                       | 210-220 gusting to 240                         | Very Severe Cyclonic Storm |
| 12-10-2013/2330 | 20.2/84.3                       | 170-180 gusting to 200                         | Very Severe Cyclonic Storm |
| 13-10-2013/0530 | 21.2/84.0                       | 80-90 gusting to 100                           | Cyclonic Storm             |
| 13-10-2013/1130 | 22.0/83.5                       | 50-60 gusting to 70                            | Deep Depression            |

## **Warning for Odisha, Andhra Pradesh and West Bengal**

(xxxix) Rainfall at most places with heavy to very heavy falls at a few places and isolated extremely heavy falls (~ 25 cm) would occur over Odisha and north coastal Andhra Pradesh during next 48 hrs. Isolated heavy to very heavy rainfall would occur over coastal areas of West Bengal commencing from afternoon of today i.e. the 12<sup>th</sup> October.

(xl) **Gale wind:** Gale winds speed reaching 210-220 kmph gusting to 235 along and off coastal districts of north coastal Andhra Pradesh and south Odisha would prevail at the time of landfall. State of Sea along and off Odisha and north Andhra Pradesh coast will be phenomenal. It will be rough to very rough along and off West Bengal coast during the above period.

(iii) **Storm Surge Guidance:** Storm surge with height of 3.0 to 3.5 metre. above astronomical tide would inundate low lying areas of Ganjam, Khurda, Puri and Jagatsinghpur districts of Odisha and Srikakulam district of Andhra Pradesh during landfall.

(iv) **Damage expected over Odisha and adjoining north Andhra Pradesh:** Extensive damage to kutcha houses. Some damage to old buildings. Large scale disruption of power and communication lines. Disruption of rail and road traffic due to extensive flooding. Potential threat from flying debris. Flooding of escape routes. Extensive damage to agricultural crops.

(v) **Action suggested:** Fishermen are advised not to venture into sea along north Andhra Pradesh, Odisha and West Bengal coast. Total suspension of fishing operations. Large scale evacuation of population from coastal areas. Total suspension of rail and road traffic in vulnerable areas. People in affected areas to remain indoors.

**Post landfall outlook:** Even after landfall the system is likely to maintain the intensity of very severe cyclonic storm for 6 hours and gradually weaken into a cyclonic storm in subsequent 6 hours while moving northwestwards across interior Odisha. Under its influence rainfall at most places with heavy falls at a few places and extremely heavy falls at isolated places would occur over Odisha. Rainfall at many places with isolated heavy to very heavy falls would also occur over north coastal Andhra Pradesh, Chhattisgarh and Jharkhand. Squally wind speed reaching 100-120 kmph would also prevail for 6 hours and 60-70 for subsequent 6 hours over Odisha during the same period.

**The next bulletin will be issued at 2330 hrs IST of today, the 12<sup>th</sup> October, 2013.**

(Kamaljit Ray)

Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumbai (022-22630084) /Command MO Visakhapatnam (0891-2709086)/ MO Port Blair (03192-229480).





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INDIA METEOROLOGICAL DEPARTMENT

FAX MESSAGE

FROM: INDIA METEOROLOGICAL DEPARTMENT (Fax No. 24699216/24623220)

To: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750, 23092398)  
CONTROL ROOM NDMA (FAX.NO.26701729)  
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SECRETARY, MoES, (Fax No. 24629777)  
SECRETARY, DST (Fax No. 26863847/-2418)  
H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)  
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DIRECTOR OF PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)  
CHIEF SECRETARY, GOVT. OF ANDAMAN & NICOBAR ISLAND (FAX NO. 03192-223331)  
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CHIEF SECRETARY, GOVT OF WEST BENGAL (FAX No. 033-22144328)  
CHIEF SECRETARY, GOVT OF JHARKHAND (FAX No. 0651-2400255)  
CHIEF SECRETARY, GOVT OF CHATTISGARH (FAX No. 0771-2221206)

Time of issue: 2130 hours IST

Dated: 12-10-2013

(Red Message)

Bulletin No.: BOB 04/2013/34

**Sub: Very Severe Cyclonic Storm 'PHAILIN' over northwest adjoining westcentral Bay of Bengal is crossing coast close to Gopalpur (Odisha)**

The very severe cyclonic storm, **PHAILIN** over westcentral & adjoining northwest Bay of Bengal moved north-northwestwards during past 3 hours with a speed of 15 kmph and lay centred at 2030 hrs IST of today, the 12<sup>th</sup> October 2013 over northwest adjoining westcentral Bay of Bengal near latitude 19.1° N and longitude 85.0° E, close to Gopalpur. Latest observations indicate that landfall process has started and it will be completed within next one hour. At the time of landfall, maximum sustained wind speed would be 200-210 kmph.

Estimated track and intensity of the system are given in the Table below:

| Date/Time(IST)  | Position<br>(Lat. °N/ Long. °E) | Sustained maximum surface<br>wind speed (kmph) | Category                   |
|-----------------|---------------------------------|--|----------------------------|
| 12-10-2013/2030 | 19.1/85.0                       | 200-210 gusting to 230                         | Very Severe Cyclonic Storm |
| 12-10-2013/2330 | 20.2/84.3                       | 170-180 gusting to 200                         | Very Severe Cyclonic Storm |
| 13-10-2013/0530 | 21.2/84.0                       | 80-90 gusting to 100                           | Cyclonic Storm             |
| 13-10-2013/1130 | 22.0/83.5                       | 50-60 gusting to 70                            | Deep Depression            |

## **Warning for Odisha, Andhra Pradesh and West Bengal**

**(xli)** Rainfall at most places with heavy to very heavy falls at a few places and isolated extremely heavy falls ( $\sim 25$  cm) would occur over Odisha and north coastal Andhra Pradesh during next 48 hrs. Isolated heavy to very heavy rainfall would occur over coastal areas of West Bengal during next 48 hrs..

**(xlii) Gale wind:** Gale winds speed reaching 210-220 kmph gusting to 235 along and off coastal districts of north coastal Andhra Pradesh and south Odisha would prevail at the time of landfall. State of Sea along and off Odisha and north Andhra Pradesh coast will be phenomenal. It will be rough to very rough along and off West Bengal coast during the above period.

**(iii) Storm Surge Guidance:** Storm surge with height of 3.0 to 3.5 metre. above astronomical tide would inundate low lying areas of Ganjam, Khurda, Puri and Jagatsinghpur districts of Odisha and Srikakulam district of Andhra Pradesh during landfall.

**(iv) Damage expected over Odisha and adjoining north Andhra Pradesh:** Extensive damage to kutcha houses. Some damage to old buildings. Large scale disruption of power and communication lines. Disruption of rail and road traffic due to extensive flooding. Potential threat from flying debris. Flooding of escape routes. Extensive damage to agricultural crops.

**(v) Action suggested:** Fishermen are advised not to venture into sea along north Andhra Pradesh, Odisha and West Bengal coast. Total suspension of fishing operations. Large scale evacuation of population from coastal areas. Total suspension of rail and road traffic in vulnerable areas. People in affected areas to remain indoors.

**Post landfall outlook:** Even after landfall the system is likely to maintain the intensity of very severe cyclonic storm for 6 hours and gradually weaken into a cyclonic storm in subsequent 6 hours while moving northwestwards across interior Odisha. Under its influence rainfall at most places with heavy falls at a few places and extremely heavy falls at isolated places would occur over Odisha. Rainfall at many places with isolated heavy to very heavy falls would also occur over north coastal Andhra Pradesh, Chhattisgarh and Jharkhand. Gale wind speed reaching 100-120 kmph would also prevail for 6 hours and 60-70 for subsequent 6 hours over Odisha during the same period.

**The next bulletin will be issued at 0130 hrs IST of tomorrow, the 13<sup>th</sup> October, 2013.**

(Naresh Kumar)

Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumbai (022-22630084) /Command MO Visakhapatnam (0891-2709086)/ MO Port Blair (03192-229480).



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INDIA METEOROLOGICAL DEPARTMENT

FAX MESSAGE

FROM: INDIA METEOROLOGICAL DEPARTMENT (Fax No. 24699216/24623220)

To: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750, 23092398)  
CONTROL ROOM NDMA (FAX.NO.26701729)  
CABINET SECRETARIAT (FAX.NO.23793144)  
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SECRETARY, DST (Fax No. 26863847/-2418)  
H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)  
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CHIEF SECRETARY, GOVT OF WEST BENGAL (FAX No. 033-22144328)  
CHIEF SECRETARY, GOVT OF JHARKHAND (FAX No. 0651-2400255)  
CHIEF SECRETARY, GOVT OF CHATTISGARH (FAX No. 0771-2221206)

Time of issue: 0130 hours IST

Dated: 13-10-2013

(Red Message)

Bulletin No.: BOB 04/2013/35

**Sub: Very Severe Cyclonic Storm 'PHAILIN' over northwest adjoining westcentral Bay of Bengal has crossed coast close to Gopalpur (Odisha)**

The very severe cyclonic storm, **PHAILIN** over northwest adjoining westcentral Bay of Bengal moved north-northwestwards during past 3 hours with a speed of 15 kmph and crossed Odisha & adjoining north coastal Andhra Pradesh near Gopalpur between 2030 to 2130 IST of 12<sup>th</sup> October 2013 and lay centred at 2330 hrs IST of 12<sup>th</sup> October 2013 near latitude 19.5° N and longitude 84.8° E, 25 km northwest of Gopalpur over south coastal Odisha. The system would move in north-northwestwards and weaken gradually.

Estimated track and intensity of the system are given in the Table below:

| Date/Time(IST)  | Position<br>(Lat. °N/ Long. °E) | Sustained maximum surface<br>wind speed (kmph) | Category                   |
|-----------------|---------------------------------|--|----------------------------|
| 12-10-2013/2330 | 19.5/84.8                       | 200-210 gusting to 230                         | Very Severe Cyclonic Storm |
| 13-10-2013/0530 | 20.5/84.1                       | 80-90 gusting to 100                           | Cyclonic Storm             |
| 13-10-2013/1130 | 21.5/83.5                       | 50-60 gusting to 70                            | Deep Depression            |
| 13-10-2013/1730 | 22.5/83.0                       | 40-50 gusting to 60                            | Depression                 |
| 13-10-2013/2330 | 23.5/82.5                       | 35-45 gusting to 55                            | Depression                 |

## **Warning for Odisha, Andhra Pradesh and West Bengal**

(xlili) Rainfall at most places with heavy to very heavy falls at a few places and isolated extremely heavy falls ( $\sim$  25 cm) would occur over Odisha and north coastal Andhra Pradesh during next 48 hrs. Isolated heavy to very heavy rainfall would occur over coastal areas of West Bengal during next 48 hrs.

**Gale wind:** Gale winds speed reaching 200-210 kmph gusting to 220 along and off coastal districts of north coastal Andhra Pradesh and south Odisha would prevail during next 3-4 hours. State of Sea along and off Odisha and north Andhra Pradesh coast will be phenomenal.

**Damage expected over Odisha and adjoining north Andhra Pradesh:** Extensive damage to kutcha houses. Some damage to old buildings. Large scale disruption of power and communication lines. Disruption of rail and road traffic due to extensive flooding. Potential threat from flying debris. Flooding of escape routes. Extensive damage to agricultural crops.

**Action suggested:** Fishermen are advised not to venture into sea along north Andhra Pradesh, Odisha and West Bengal coast. Total suspension of fishing operations. Large scale evacuation of population from coastal areas. Total suspension of rail and road traffic in vulnerable areas. People in affected areas to remain indoors.

**Post landfall outlook:** System is likely to maintain the intensity of very severe cyclonic storm for 3 hours and gradually weaken into a cyclonic storm in subsequent 6 hours while moving northwestwards across interior Odisha. Under its influence rainfall at most places with heavy falls at a few places and extremely heavy falls at isolated places would occur over Odisha. Rainfall at many places with isolated heavy to very heavy falls would also occur over north coastal Andhra Pradesh, Chhattisgarh and Jharkhand. Gale wind speed reaching 100-120 kmph would also prevail for 6 hours and 60-70 for subsequent 6 hours over Odisha during the same period.

**The next bulletin will be issued at 0430 hrs IST of today, the 13<sup>th</sup> October, 2013.**

(Naresh Kumar)

Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumbai (022-22630084) /Command MO Visakhapatnam (0891-2709086)/ MO Port Blair (03192-229480).



भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

FAX MESSAGE

FROM: INDIA METEOROLOGICAL DEPARTMENT (Fax No. 24699216/24623220)

To: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750, 23092398)  
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CHIEF SECRETARY, GOVT OF JHARKHAND (FAX No. 0651-2400255)  
CHIEF SECRETARY, GOVT OF CHATTISGARH (FAX No. 0771-2221206)

Time of issue: 0530 hours IST

Dated: 13-10-2013

(Red Message)

Bulletin No.: BOB 04/2013/36

**Sub: Very Severe Cyclonic Storm 'PHAILIN' over Odisha**

The very severe cyclonic storm, **PHAILIN** over south coastal Odisha moved north-northwestwards during past 3 hours with a speed of 20 kmph and lay centred at 0230 hrs IST of 13<sup>th</sup> October 2013 near latitude 20.0° N and longitude 84.5° E, 90 km northwest of Gopalpur over Odisha. The system would move in north-northwestwards and weaken gradually.

Estimated track and intensity of the system are given in the Table below:

| Date/Time(IST)  | Position<br>(Lat. °N/ Long. °E) | Sustained maximum surface<br>wind speed (kmph) | Category                   |
|-----------------|---------------------------------|--|----------------------------|
| 13-10-2013/0230 | 20.0/84.5                       | 160-170 gusting to 190                         | Very Severe Cyclonic Storm |
| 13-10-2013/0530 | 20.5/84.1                       | 80-90 gusting to 100                           | Cyclonic Storm             |
| 13-10-2013/1130 | 21.5/83.5                       | 50-60 gusting to 70                            | Deep Depression            |
| 13-10-2013/1730 | 22.5/83.0                       | 40-50 gusting to 60                            | Depression                 |
| 13-10-2013/2330 | 23.5/82.5                       | 35-45 gusting to 55                            | Depression                 |

**Warning for Odisha, Andhra Pradesh and West Bengal**

(xliv) Rainfall at most places with heavy to very heavy falls at a few places and isolated extremely heavy falls ( ~ 25 cm) would occur over Odisha and north coastal Andhra Pradesh during next 36 hrs. Isolated heavy to very heavy rainfall would occur over coastal areas of West Bengal during next 36 hrs.

**Damage expected over Odisha and adjoining north Andhra Pradesh:** Extensive damage to kutcha houses. Some damage to old buildings. Large scale disruption of power and communication lines. Disruption of rail and road traffic due to extensive flooding. Potential threat from flying debris. Flooding of escape routes. Extensive damage to agricultural crops.

**Action suggested:** Fishermen are advised not to venture into sea along north Andhra Pradesh, Odisha and West Bengal coast. Total suspension of fishing operations. Large scale evacuation of population from coastal areas. Total suspension of rail and road traffic in vulnerable areas. People in affected areas to remain indoors.

**Post landfall outlook:** System would weaken gradually into a cyclonic storm while moving north-northwestwards across interior Odisha. Under its influence rainfall at most places with heavy falls at a few places and extremely heavy falls at isolated places would occur over Odisha. Rainfall at many places with isolated heavy to very heavy falls would also occur over north coastal Andhra Pradesh, Chhattisgarh and Jharkhand.

**The next bulletin will be issued at 0830 hrs IST of today, the 13<sup>th</sup> October, 2013.**

(Naresh Kumar)

Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumbai (022-22630084) /Command MO Visakhapatnam (0891-2709086)/ MO Port Blair (03192-229480).



भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

FAX MESSAGE

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CHIEF SECRETARY, GOVT OF JHARKHAND (FAX No. 0651-2400255)  
CHIEF SECRETARY, GOVT OF CHATTISGARH (FAX No. 0771-2221206)

Time of issue: 0830 hours IST

Dated: 13-10-2013

Bulletin No.: BOB 04/2013/37

Sub: Very Severe Cyclonic Storm 'PHAILIN' over Odisha

The very severe cyclonic storm, **PHAILIN** over Odisha moved northwards during past 3 hours with a speed of 20 kmph and lay centred at 0530 hrs IST of 13<sup>th</sup> October 2013 over Odisha near latitude 20.0° N and longitude 84.5° E, close to Phulbani. The system would move northwards for some more time and weaken gradually into a cyclonic storm by noon of today and into a deep depression by evening of today.

Estimated track and intensity of the system are given in the Table below:

| Date/Time(IST)  | Position<br>(Lat. °N/ Long. °E) | Sustained maximum surface<br>wind speed (kmph) | Category                   |
|-----------------|---------------------------------|--|----------------------------|
| 13-10-2013/0530 | 20.5/84.5                       | 130-140 gusting to 150                         | Very Severe Cyclonic Storm |
| 13-10-2013/1130 | 21.5/84.5                       | 80-90 gusting to 100                           | Cyclonic Storm             |
| 13-10-2013/1730 | 22.3/84.8                       | 50-60 gusting to 70                            | Deep Depression            |
| 13-10-2013/2330 | 23.5/85.2                       | 40-50 gusting to 60                            | Depression                 |
| 14-10-2013/0530 | 24.8/85.7                       | 35-45 gusting to 55                            | Depression                 |

**Warning for Odisha, Andhra Pradesh and West Bengal**

**Heavy rainfall:** Rainfall at most places with heavy to very heavy falls at a few places and isolated extremely heavy falls ( ~ 25 cm) would occur over Odisha during next 24 hrs and isolated heavy to very heavy fall during subsequently 24 hrs. Rainfall at most places with isolated heavy to very heavy falls would occur over north coastal Andhra Pradesh during next 24 hours and over Chhattisgarh, Jharkhand & Gangetic West Bengal during next 48 hrs.

**Gale wind:** Gale wind speed of 130-140 kmph prevailing at 0530 hrs IST would gradually decrease to 80-90 kmph by noon and further to 50- 60 kmph by evening of today over Odisha.

**Damage expected over Odisha:** Extensive damage to kutchha houses. Partial disruption of power and communication lines. Disruption of rail and road traffic. Potential threat from flying debris. Flooding of escape routes. Extensive damage to agricultural crops.

**State of Sea:** It will be very high along & off Odisha coast and very rough to high along & off north Andhra Pradesh and very rough along & off West Bengal coast during next 12 hours.

**Action suggested:** Fishermen are advised not to venture into sea along north Andhra Pradesh, Odisha and West Bengal coast during next 24 hours. Judicious regulation of rail and road traffic in vulnerable areas. People in affected areas to remain indoors.

**The next bulletin will be issued at 1130 hrs IST of today, the 13<sup>th</sup> October, 2013.**

(Naresh Kumar)

Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumbai (022-22630084) /Command MO Visakhapatnam (0891-2709086)/ MO Port Blair (03192-229480).





भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

FAX MESSAGE

FROM: INDIA METEOROLOGICAL DEPARTMENT (Fax No. 24699216/24623220)

To: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750, 23092398)  
CONTROL ROOM NDMA (FAX.NO.26701729)  
CABINET SECRETARIAT (FAX.NO.23793144)  
PS TO HON'BLE MINISTER FOR SCIENCE AND TECHNOLOGY AND EARTH SCIENCES (FAX NO.23316745)  
SECRETARY, MoES, (Fax No. 24629777)  
SECRETARY, DST (Fax No. 26863847/-2418)  
H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)  
DIRECTOR GENERAL, DOORDARSHAN (23385843)  
DIRECTOR GENERAL, AIR (25843825)  
PIB MoES ( FAX NO. 23389042)  
UNI (FAX NO. 23355841)  
D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX No. 26105912)  
DIRECTOR OF PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)  
CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674-2536660)  
CHIEF SECRETARY, GOVT. OF SIKKIM (FAX NO. 03592-202792)  
CHIEF SECRETARY, GOVT OF ANDHRA PRADESH (FAX No. 040-23453700)  
CHIEF SECRETARY, GOVT OF WEST BENGAL (FAX No. 033-22144328)  
CHIEF SECRETARY, GOVT OF JHARKHAND (FAX No. 0651-2400255)  
CHIEF SECRETARY, GOVT OF CHATTISGARH (FAX No. 0771-2221206)  
CHIEF SECRETARY, GOVT OF BIHAR (FAX No. 0612-2217085)

Time of issue: 1100 hours IST

Dated: 13-10-2013

Bulletin No.: BOB 04/2013/38 (CORRECTED)

Sub: Very Severe Cyclonic Storm 'PHAILIN' over Odisha

The very severe cyclonic storm, **PHAILIN** over Odisha moved north-northwestwards during past 6 hours with a speed of 20 kmph, weakened into a severe cyclonic storm and lay centred at 0830 hrs IST of 13<sup>th</sup> October 2013 over Odisha near latitude 21.0° N and longitude 84.0° E, about 50 km south of Sampalpur. The system would move north- northwestwards and weaken gradually into a cyclonic storm by noon of today and into a deep depression by evening of today.

Estimated track and intensity of the system are given in the Table below:

| Date/Time(IST)  | Position<br>(Lat. °N/ Long. °E) | Sustained maximum surface<br>wind speed (kmph) | Category              |
|-----------------|---------------------------------|--|-----------------------|
| 13-10-2013/0830 | 21.0/84.0                       | 100-110 gusting to 120                         | Severe Cyclonic Storm |
| 13-10-2013/1130 | 21.4/83.8                       | 80-90 gusting to 100                           | Cyclonic Storm        |
| 13-10-2013/1730 | 22.2/83.4                       | 50-60 gusting to 70                            | Deep Depression       |
| 13-10-2013/2330 | 23.5/83.0                       | 40-50 gusting to 60                            | Depression            |
| 14-10-2013/0530 | 23.8/82.6                       | 35-45 gusting to 55                            | Depression            |

**Warning for Odisha, Andhra Pradesh and West Bengal**

**Heavy rainfall:** Rainfall at most places with heavy to very heavy falls at a few places and isolated extremely heavy falls ( > 25 cm) would occur over Odisha during next 24 hrs and isolated heavy falls during subsequent 24 hrs. Rainfall at most places with isolated heavy to very heavy falls would occur over north Chhattisgarh, Jharkhand, Bihar, West Bengal, & Sikkim during next 48 hrs.

**Gale wind:** Gale wind speed of 100-110 kmph gusting to 120 kmph prevailing at 0830 hrs IST would gradually decrease to 80-90 kmph by noon and further to 50- 60 kmph by evening of today over Odisha. Wind speed reaching 60-70 kmph gusting to 80 kmph winds prevail over adjoining areas of north Chattisgarh and Jharkhand during next 12 hrs and gradually decrease thereafter.

**Damage expected over Odisha:** Extensive damage to kutcha houses. Partial disruption of power and communication lines. Disruption of rail and road traffic. Potential threat from flying debris. Flooding of escape routes. Extensive damage to agricultural crops.

**State of Sea:** It will be very high along & off Odisha coast and very rough to high along & off north Andhra Pradesh and very rough along & off West Bengal coast during next 12 hours.

**Action suggested:** Fishermen are advised not to venture into sea along north Andhra Pradesh, Odisha and West Bengal coast during next 24 hours. Judicious regulation of rail and road traffic in vulnerable areas. People in affected areas to remain indoors.

**The next bulletin will be issued at 1430 hrs IST of today, the 13<sup>th</sup> October, 2013.**

**(M.Mohapatra)**

Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumbai (022-22630084) /Command MO Visakhapatnam (0891-2709086)/ MO Port Blair (03192-229480)/ MC PATNA/ MC RAIPUR/MC RANCHI.



भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

FAX MESSAGE

FROM: INDIA METEOROLOGICAL DEPARTMENT (Fax No. 24699216/24623220)

To: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750, 23092398)  
CONTROL ROOM NDMA (FAX.NO.26701729)  
CABINET SECRETARIAT (FAX.NO.23793144)  
PS TO HON'BLE MINISTER FOR SCIENCE AND TECHNOLOGY AND EARTH SCIENCES (FAX NO.23316745)  
SECRETARY, MoES, (Fax No. 24629777)  
SECRETARY, DST (Fax No. 26863847/-2418)  
H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)  
DIRECTOR GENERAL, DOORDARSHAN (23385843)  
DIRECTOR GENERAL, AIR (25843825)  
PIB MoES ( FAX NO. 23389042)  
UNI (FAX NO. 23355841)  
D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX No. 26105912)  
DIRECTOR OF PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)  
CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674-2536660)  
CHIEF SECRETARY, GOVT. OF SIKKIM (FAX NO. 03592-202792)  
CHIEF SECRETARY, GOVT OF ANDHRA PRADESH (FAX No. 040-23453700)  
CHIEF SECRETARY, GOVT OF WEST BENGAL (FAX No. 033-22144328)  
CHIEF SECRETARY, GOVT OF JHARKHAND (FAX No. 0651-2400255)  
CHIEF SECRETARY, GOVT OF CHATTISGARH (FAX No. 0771-2221206)  
CHIEF SECRETARY, GOVT OF BIHAR (FAX No. 0612-2217085)  
CHIEF SECRETARY, GOVT OF UTTAR PRADESH (FAX No. 0522-2239283)

Time of issue: 1430 hours IST

Dated: 13-10-2013

Bulletin No.: BOB 04/2013/39

**Sub: Cyclonic Storm 'PHAILIN' over Odisha**

The severe cyclonic storm, **PHAILIN** over Odisha moved north-northwestwards during past 6 hours with a speed of 20 kmph, weakened further into a cyclonic storm and lay centred at 1130 hrs IST of 13<sup>th</sup> October 2013 over Odisha near latitude 21.5° N and longitude 84.0° E close to Jharsuguda. The system would move north-northwestwards and weaken gradually into a deep depression by evening of today.

Estimated track and intensity of the system are given in the Table below:

| Date/Time(IST)  | Position<br>(Lat. °N/ Long. °E) | Sustained maximum surface<br>wind speed (kmph) | Category                      |
|-----------------|---------------------------------|--|-------------------------------|
| 13-10-2013/1130 | 21.5/84.0                       | 70-80 gusting to 90                            | Cyclonic Storm                |
| 13-10-2013/1730 | 22.4/83.6                       | 45-55 gusting to 65                            | Deep Depression               |
| 13-10-2013/2330 | 23.2/83.2                       | 35-45 gusting to 55                            | Depression                    |
| 14-10-2013/0530 | 24.0/82.8                       | 35-45 gusting to 55                            | Depression                    |
| 14-10-2013/1130 | 24.7/82.4                       | 25-35 gusting to 45                            | Well Marked Low Pressure Area |

**Warning for Odisha, Andhra Pradesh and West Bengal**

**Heavy rainfall:** Rainfall at most places with heavy to very heavy falls at a few places would occur over Odisha during next 12 hrs and decrease thereafter. Rainfall at most places with isolated heavy to very heavy

falls would occur over north Chhattisgarh, Jharkhand, Bihar, East Uttar Pradesh, West Bengal, & Sikkim during next 48 hrs.

**Gale wind:** Gale wind speed of 70-80 kmph gusting to 90 kmph prevailing at 1130 hrs IST would gradually decrease to 45-55 kmph by evening of today over north Odisha and adjoining areas of Chattisgarh and Jharkhand.

**Damage expected over Odisha:** Damage to thatched huts. Breaking of tree branches causing minor damage to power and telecommunication lines.

**State of Sea:** It will be rough to very rough along & off Odisha coast and very rough to high along & off north Andhra Pradesh and very rough along & off West Bengal coast during next 12 hours.

**Action suggested:** Fishermen are advised not to venture into sea along and off Odisha and West Bengal coast during next 12 hours.

**The next bulletin will be issued at 1730 hrs IST of today, the 13<sup>th</sup> October, 2013.**

**(M.Mohapatra)**

Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumbai (022-22630084) /Command MO Visakhapatnam (0891-2709086)/ MO Port Blair (03192-229480)/ MC PATNA/ MC RAIPUR/MC RANCHI/MC LUCKNOW.



भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

FAX MESSAGE

FROM: INDIA METEOROLOGICAL DEPARTMENT (Fax No. 24699216/24623220)

To: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750, 23092398)  
CONTROL ROOM NDMA (FAX.NO.26701729)  
CABINET SECRETARIAT (FAX.NO.23793144)  
PS TO HON'BLE MINISTER FOR SCIENCE AND TECHNOLOGY AND EARTH SCIENCES (FAX NO.23316745)  
SECRETARY, MoES, (Fax No. 24629777)  
SECRETARY, DST (Fax No. 26863847/-2418)  
H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)  
DIRECTOR GENERAL, DOORDARSHAN (23385843)  
DIRECTOR GENERAL, AIR (25843825)  
PIB MoES ( FAX NO. 23389042)  
UNI (FAX NO. 23355841)  
D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX No. 26105912)  
DIRECTOR OF PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)  
CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674-2536660)  
CHIEF SECRETARY, GOVT. OF SIKKIM (FAX NO. 03592-202792)  
CHIEF SECRETARY, GOVT OF ANDHRA PRADESH (FAX No. 040-23453700)  
CHIEF SECRETARY, GOVT OF WEST BENGAL (FAX No. 033-22144328)  
CHIEF SECRETARY, GOVT OF JHARKHAND (FAX No. 0651-2400255)  
CHIEF SECRETARY, GOVT OF CHATTISGARH (FAX No. 0771-2221206)  
CHIEF SECRETARY, GOVT OF BIHAR (FAX No. 0612-2217085)  
CHIEF SECRETARY, GOVT OF UTTAR PRADESH (FAX No. 0522-2239283)

Time of issue: 1730 hours IST

Dated: 13-10-2013

Bulletin No.: BOB 04/2013/40

**Sub: Cyclonic Storm 'PHAILIN' over Odisha**

The cyclonic storm, **PHAILIN** over Odisha moved north-northwestwards during past 3 hours with a speed of 13 kmph and lay centred at 1430 hrs IST of 13<sup>th</sup> October 2013 over Odisha near latitude 21.8° N and longitude 83.8° E close to southwest of Jharsuguda. The system would move north-northwestwards and weaken gradually into a deep depression during next 6 hours.

Estimated track and intensity of the system are given in the Table below:

| Date/Time(IST)  | Position<br>(Lat. °N/ Long. °E) | Sustained maximum surface<br>wind speed (kmph) | Category                      |
|-----------------|---------------------------------|--|-------------------------------|
| 13-10-2013/1430 | 21.8/83.8                       | 60-70 gusting to 80                            | Cyclonic Storm                |
| 13-10-2013/1730 | 22.4/83.6                       | 45-55 gusting to 65                            | Deep Depression               |
| 13-10-2013/2330 | 23.2/83.2                       | 35-45 gusting to 55                            | Depression                    |
| 14-10-2013/0530 | 24.0/82.8                       | 35-45 gusting to 55                            | Depression                    |
| 14-10-2013/1130 | 24.7/82.4                       | 25-35 gusting to 45                            | Well Marked Low Pressure Area |

**Warning for Odisha, Andhra Pradesh and West Bengal**

**Heavy rainfall:** Rainfall at most places with heavy to very heavy falls at a few places would occur over Odisha during next 12 hrs and decrease thereafter. Rainfall at most places with isolated heavy to very heavy

falls would occur over north Chhattisgarh, Jharkhand, Bihar, East Uttar Pradesh, West Bengal, & Sikkim during next 48 hrs.

**Squally wind:** Squally wind speed of 55-65 kmph gusting to 75 kmph would prevail during next 6 hours and would gradually decrease to 40-50 kmph during next 12 hours around system centre over north Odisha and adjoining areas of north Chattisgarh & south Jharkhand.

**Damage expected over Odisha:** Damage to thatched huts. Breaking of tree branches causing minor damage to power and telecommunication lines.

**State of Sea:** It will be rough to very rough along & off Odisha coast and very rough to high along & off north Andhra Pradesh and very rough along & off West Bengal coast during next 06 hours.

**Action suggested:** Fishermen are advised not to venture into sea along and off Odisha and West Bengal coast during next 06 hours.

**The next bulletin will be issued at 2030 hrs IST of today, the 13<sup>th</sup> October, 2013.**

**(M.Mohapatra)**

Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumbai (022-22630084) /Command MO Visakhapatnam (0891-2709086)/ MO Port Blair (03192-229480)/ MC PATNA/ MC RAIPUR/MC RANCHI/MC LUCKNOW.



भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

FAX MESSAGE

FROM: INDIA METEOROLOGICAL DEPARTMENT (Fax No. 24699216/24623220)

To: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750, 23092398)  
CONTROL ROOM NDMA (FAX.NO.26701729)  
CABINET SECRETARIAT (FAX.NO.23793144)  
PS TO HON'BLE MINISTER FOR SCIENCE AND TECHNOLOGY AND EARTH SCIENCES (FAX NO.23316745)  
SECRETARY, MoES, (Fax No. 24629777)  
SECRETARY, DST (Fax No. 26863847/-2418)  
H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)  
DIRECTOR GENERAL, DOORDARSHAN (23385843)  
DIRECTOR GENERAL, AIR (25843825)  
PIB MoES ( FAX NO. 23389042)  
UNI (FAX NO. 23355841)  
D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX No. 26105912)  
DIRECTOR OF PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)  
CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674-2536660)  
CHIEF SECRETARY, GOVT. OF SIKKIM (FAX NO. 03592-202792)  
CHIEF SECRETARY, GOVT OF ANDHRA PRADESH (FAX No. 040-23453700)  
CHIEF SECRETARY, GOVT OF WEST BENGAL (FAX No. 033-22144328)  
CHIEF SECRETARY, GOVT OF JHARKHAND (FAX No. 0651-2400255)  
CHIEF SECRETARY, GOVT OF CHATTISGARH (FAX No. 0771-2221206)  
CHIEF SECRETARY, GOVT OF BIHAR (FAX No. 0612-2217085)  
CHIEF SECRETARY, GOVT OF UTTAR PRADESH (FAX No. 0522-2239283)

Time of issue: 2030 hours IST

Dated: 13-10-2013

Bulletin No.: BOB 04/2013/41

**Sub: Cyclonic Storm 'PHAILIN' weakened into deep depression over north Chhatisgarh and adjoining Odisha & Jharkhand.**

The cyclonic storm, **PHAILIN** over Odisha moved northwards with a speed of 20 kmph during past 6 hours, weakened further into a deep depression and lay centred at 1730 hrs IST of 13<sup>th</sup> October 2013 over north Chhatisgarh and adjoining areas of Odisha & Jharkhand near latitude 22.5° N and longitude 83.8° E, 70 km north-northwest of Jharsuguda & 90 km south-southeast of Ambikapur. The system would move northwards during next 6 hours, then north-northeastwards and weaken gradually into a depression during next 12 hours.

Estimated track and intensity of the system are given in the Table below:

| Date/Time(IST)  | Position<br>(Lat. °N/ Long. °E) | Sustained maximum surface<br>wind speed (kmph) | Category                      |
|-----------------|---------------------------------|--|-------------------------------|
| 13-10-2013/1730 | 22.5/83.8                       | 45-55 gusting to 65                            | Deep Depression               |
| 13-10-2013/2330 | 23.2/84.0                       | 35-45 gusting to 55                            | Depression                    |
| 14-10-2013/0530 | 24.0/84.3                       | 35-45 gusting to 55                            | Depression                    |
| 14-10-2013/1130 | 24.7/84.6                       | 25-35 gusting to 45                            | Well Marked Low Pressure Area |

**Warning for Odisha, Andhra Pradesh and West Bengal**

**Heavy rainfall:** Rainfall at many places with isolated heavy falls would occur over interior Odisha during next 12 hrs and decrease thereafter. Rainfall at many places with isolated heavy to very heavy falls would occur over Bihar, Sub-Himalayan Westbengal & Sikkim during next 48 hours. Rainfall at many places with isolated heavy falls over north Chhattisgarh and Jharkhand, during next 12 hrs.

**Very heavy rainfall in cms (15 cm or more) realised over Odisha during past 24 hours as recorded at 0830 hours IST of 13 October 2013.**

Balimundali . 31, Banki-38, Ranpur-29, Jaipur-26, Mundali-25, Hindol-23, Bangirposhi-21, Banpur, Mohana, Korai 20 each, R-Udaygiri, Nuagada, Zoda, Danagadi 19 each, Purushottampur & Nayagarh 18 each, Khandapara, Bhubaneswar, Shamakhunta, Tikarpara, Daringibadi, Balipatna, Bargarh 17 each, Daitari, Phiringia, Betanati, Raikia, Keonjhar, Nimapara, Chandikhol, Tiring 15 each

**Squally wind:** Squally wind speed of 45-55 kmph gusting to 65 kmph would prevail around system centre during next 6 hours and would gradually decrease thereafter..

**The next bulletin will be issued at 0230 hrs IST of tomorrow, the 14<sup>th</sup> October, 2013.**

**(D.R. Pattanaik)**

Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumbai (022-22630084) /Command MO Visakhapatnam (0891-2709086)/ MO Port Blair (03192-229480)/ MC PATNA/ MC RAIPUR/MC RANCHI/MC LUCKNOW.





भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

FAX MESSAGE

FROM: INDIA METEOROLOGICAL DEPARTMENT (Fax No. 24699216/24623220)

To: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750, 23092398)  
CONTROL ROOM NDMA (FAX.NO.26701729)  
CABINET SECRETARIAT (FAX.NO.23793144)  
PS TO HON'BLE MINISTER FOR SCIENCE AND TECHNOLOGY AND EARTH SCIENCES (FAX NO.23316745)  
SECRETARY, MoES, (Fax No. 24629777)  
SECRETARY, DST (Fax No. 26863847/-2418)  
H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)  
DIRECTOR GENERAL, DOORDARSHAN (23385843)  
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PIB MoES ( FAX NO. 23389042)  
UNI (FAX NO. 23355841)  
D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX No. 26105912)  
DIRECTOR OF PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)  
CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674-2536660)  
CHIEF SECRETARY, GOVT. OF SIKKIM (FAX NO. 03592-202792)  
CHIEF SECRETARY, GOVT OF ANDHRA PRADESH (FAX No. 040-23453700)  
CHIEF SECRETARY, GOVT OF WEST BENGAL (FAX No. 033-22144328)  
CHIEF SECRETARY, GOVT OF JHARKHAND (FAX No. 0651-2400255)  
CHIEF SECRETARY, GOVT OF CHATTISGARH (FAX No. 0771-2221206)  
CHIEF SECRETARY, GOVT OF BIHAR (FAX No. 0612-2217085)  
CHIEF SECRETARY, GOVT OF UTTAR PRADESH (FAX No. 0522-2239283)

Time of issue: 0230 hours IST

Dated: 14-10-2013

Bulletin No.: BOB 04/2013/42

Sub: Cyclonic Storm 'PHAILIN' remained as deep depression over north Chhattisgarh and adjoining Jharkhand.

The cyclonic storm, **PHAILIN** remained as deep depression over north Chhattisgarh and adjoining areas of Odisha & Jharkhand and moved northwards with a speed of 16 kmph during past 6 hours and lay centred at 2330 hours IST of 13<sup>th</sup> October 2013 over Jharkhand and adjoining north Chhattisgarh near latitude 23.5° N and longitude 83.8° E, 70 km north-east of Ambikapur & 60 km southeast of Daltonganj. The system would move north-northeastwards during next 6-12 hours and weaken gradually into a depression.

Estimated track and intensity of the system are given in the Table below:

| Date/Time(IST)  | Position<br>(Lat. °N/ Long. °E) | Sustained maximum surface<br>wind speed (kmph) | Category                      |
|-----------------|---------------------------------|--|-------------------------------|
| 13-10-2013/2330 | 23.5/83.8                       | 40-50 gusting to 60                            | Deep Depression               |
| 14-10-2013/0530 | 24.0/84.3                       | 35-45 gusting to 55                            | Depression                    |
| 14-10-2013/1130 | 24.7/84.6                       | 25-35 gusting to 45                            | Well Marked Low Pressure Area |

**Warning for Jharkhand, Bihar, Sub-Himalayan West Bengal & Sikkim**

**Heavy rainfall:** Rainfall at many places with isolated heavy to very heavy falls would occur over Bihar, Sub-Himalayan West Bengal & Sikkim during next 36 hours and in Jharkhand during next 24 hours.

Rainfall at many places with isolated heavy falls would occur over north Chhattisgarh and interior Odisha during next 12 hrs

**Squally wind:** Squally wind speed of 40-50 kmph gusting to 60 kmph would prevail around system centre during next 6 hours and would gradually decrease thereafter..

**The next bulletin will be issued at 0830 hrs IST of today, the 14<sup>th</sup> October, 2013.**

**(D.R. Pattanaik)**

Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumbai (022-22630084) /Command MO Visakhapatnam (0891-2709086)/ MO Port Blair (03192-229480)/ MC PATNA/ MC RAIPUR/MC RANCHI/MC LUCKNOW.



भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

FAX MESSAGE

FROM: INDIA METEOROLOGICAL DEPARTMENT (Fax No. 24699216/24623220)

To: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750, 23092398)  
CONTROL ROOM NDMA (FAX.NO.26701729)  
CABINET SECRETARIAT (FAX.NO.23793144)  
PS TO HON'BLE MINISTER FOR SCIENCE AND TECHNOLOGY AND EARTH SCIENCES (FAX NO.23316745)  
SECRETARY, MoES, (Fax No. 24629777)  
SECRETARY, DST (Fax No. 26863847/-2418)  
H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)  
DIRECTOR GENERAL, DOORDARSHAN (23385843)  
DIRECTOR GENERAL, AIR (25843825)  
PIB MoES ( FAX NO. 23389042)  
UNI (FAX NO. 23355841)  
D.G. NATIONAL DISASTER RESPONSE FORCE (NDRF) (FAX No. 26105912)  
DIRECTOR OF PUNCTUALITY, INDIAN RAILWAYS (FAX NO. 23388503)  
CHIEF SECRETARY, GOVT. OF ODISHA (FAX NO. 0674-2536660)  
CHIEF SECRETARY, GOVT. OF SIKKIM (FAX NO. 03592-202792)  
CHIEF SECRETARY, GOVT OF ANDHRA PRADESH (FAX No. 040-23453700)  
CHIEF SECRETARY, GOVT OF WEST BENGAL (FAX No. 033-22144328)  
CHIEF SECRETARY, GOVT OF JHARKHAND (FAX No. 0651-2400255)  
CHIEF SECRETARY, GOVT OF CHATTISGARH (FAX No. 0771-2221206)  
CHIEF SECRETARY, GOVT OF BIHAR (FAX No. 0612-2217085)  
CHIEF SECRETARY, GOVT OF UTTAR PRADESH (FAX No. 0522-2239283)

Time of issue: 0800 hours IST

Dated: 14-10-2013

Bulletin No.: BOB 04/2013/43

Sub: Deep depression over Jharkhand and adjoining north Chhattisgarh

The Deep depression over Jharkhand and adjoining areas of north Chhattisgarh and Odisha moved slightly north-northeastwards and lay centred at 0530 hours IST of 14<sup>th</sup> October 2013 over the same area centred near latitude 23.8° N and longitude 84.0° E, about 40 km south-southwest of Daltonganj (Jharkhand). The system would move north-northeastwards and weaken gradually into a depression during next 6 hours.

Estimated track and intensity of the system are given in the Table below:

| Date/Time(IST)  | Position<br>(Lat. °N/ Long. °E) | Sustained maximum surface<br>wind speed (kmph) | Category                      |
|-----------------|---------------------------------|--|-------------------------------|
| 14-10-2013/0530 | 23.8/84.0                       | 40-50 gusting to 60                            | Deep Depression               |
| 14-10-2013/1130 | 24.0/84.1                       | 35-45 gusting to 55                            | Depression                    |
| 14-10-2013/1730 | 24.5/84.4                       | 25-35 gusting to 45                            | Well Marked Low Pressure Area |

**Warning for Jharkhand, Bihar, Sub-Himalayan West Bengal & Sikkim**

**Heavy rainfall:** Rainfall at many places with isolated heavy to very heavy falls would occur over Bihar during next 24 hour and over Sub-Himalayan West Bengal & Sikkim during next 48 hours. Rainfall at many places would occur with isolated heavy falls over north Jharkhand during next 12 hours.

**Squally wind:** Squally wind speed of 40-50 kmph gusting to 60 kmph would prevail around system centre during next 6 hours and would gradually decrease thereafter.

**No further adverse weather would occur over Odisha, Chhattisgarh, South Jharkhand and Gangetic West Bengal and adjoining Bay of Bengal.**

**The next bulletin will be issued at 1130 hrs IST of today, the 14<sup>th</sup> October, 2013.**

**(Charan Singh)**

Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumbai (022-22630084) /Command MO Visakhapatnam (0891-2709086)/ MO Port Blair (03192-229480)/ MC PATNA/ MC RAIPUR/MC RANCHI/MC LUCKNOW.



भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

FAX MESSAGE

FROM: INDIA METEOROLOGICAL DEPARTMENT (Fax No. 24699216/24623220)

To: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750, 23092398)  
CONTROL ROOM NDMA (FAX.NO.26701729)  
CABINET SECRETARIAT (FAX.NO.23793144)  
PS TO HON'BLE MINISTER FOR SCIENCE AND TECHNOLOGY AND EARTH SCIENCES (FAX NO.23316745)  
SECRETARY, MoES, (Fax No. 24629777)  
SECRETARY, DST (Fax No. 26863847/-2418)  
H.Q. (INTEGRATED DEFENCE STAFF AND CDS) (FAX NO. 23005137/23005147)  
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CHIEF SECRETARY, GOVT OF BIHAR (FAX No. 0612-2217085)  
CHIEF SECRETARY, GOVT OF UTTAR PRADESH (FAX No. 0522-2239283)

Time of issue: 1130 hours IST

Dated: 14-10-2013

Bulletin No.: BOB 04/2013/44

**Sub: Depression over Jharkhand and adjoining north Chhattisgarh**

The Deep Depression over Jharkhand and adjoining areas of north Chhattisgarh and Odisha moved slightly north-northeastwards and weakened into a depression. It lay centred at 0830 hours IST of today, the 14<sup>th</sup> October 2013 close to southwest of Daltonganj (Jharkhand). The system would move north-northeastwards and weaken gradually into a well marked low pressure area by today evening.

**Warning for Jharkhand, Bihar, Sub-Himalayan West Bengal & Sikkim**

**Heavy rainfall:** Rainfall at most places with isolated heavy to very heavy falls would occur over Bihar including Kosi and Gandak river catchments during next 24 hour and over Sub-Himalayan West Bengal & Sikkim including Teesta river catchment during next 48 hours. Rainfall at many places would occur with isolated heavy falls over north Jharkhand during next 24 hours.

**Squally wind:** Squally wind speed of 35-45 kmph gusting to 55 kmph would prevail around the system centre during next 6 hours and would gradually decrease thereafter.

**The next bulletin will be issued at 1730 hrs IST of today, the 14<sup>th</sup> October, 2013.**

(Kamaljit Ray )

Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumbai (022-22630084) /Command MO Visakhapatnam (0891-2709086)/ MO Port Blair (03192-229480)/ MC PATNA/ MC RAIPUR/MC RANCHI/MC LUCKNOW.



भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

FROM: INDIA METEOROLOGICAL DEPARTMENT (Fax No. 24699216/24623220)

To: CONTROL ROOM, NDM, MINISTRY OF HOME AFFAIRS (FAX.NO. 23093750, 23092398)  
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CHIEF SECRETARY, GOVT OF BIHAR (FAX No. 0612-2217085)  
CHIEF SECRETARY, GOVT OF UTTAR PRADESH (FAX No. 0522-2239283)

Time of issue: 1630 hours IST

Dated: 14-10-2013

Bulletin No.: BOB 04/2013/45

**Sub: Well marked Low Pressure area over southwest Bihar**

The Depression over Jharkhand and adjoining areas of north Chhattisgarh and Odisha has weakened further and lies over Southwest Bihar and neighbourhood as a well marked low pressure area at 1430 hrs IST of today.

**Warning for Jharkhand, Bihar, Sub-Himalayan West Bengal & Sikkim**

**Heavy rainfall:** Rainfall at most places with isolated heavy to very heavy falls would occur over Bihar including Kosi and Gandak river catchments during next 24 hour and over Sub-Himalayan West Bengal & Sikkim including Teesta river catchment during next 48 hours. Rainfall at many places would occur with isolated heavy falls over north Jharkhand during next 12 hours.

**This is the last bulletin for Cyclone Phailin. Forecast for Heavy rainfall warning will be available in regular All India weather bulletins of IMD.**

(Kamaljit Ray)

Ph: 011-24631913

CC: DDGM (WF) Pune/ ACWC Kolkata/ACWC Chennai/ CWC Visakhapatnam/Bhubaneswar/Command MO Mumbai (022-22630084) /Command MO Visakhapatnam (0891-2709086)/ MO Port Blair (03192-229480)/ MC PATNA/ MC RAIPUR/MC RANCHI/MC LUCKNOW.