

1. Proximity to Cyclone Pathway:

- **High Risk:** Communities located within 0-5 km of the cyclone's predicted path are at the highest risk of direct impact.
- **Moderate Risk:** Those situated 5-10 km away may experience significant effects, particularly from storm surges and heavy rainfall.
- **Low Risk:** Areas more than 10 km from the cyclone's path face lower risks but should still prepare for potential indirect impact.

2. Type of Infrastructure:

- **Weak Infrastructure** (e.g., Tin Shade):
 - Highly vulnerable to strong winds and flooding.
 - Immediate evacuation may be necessary.
- **Moderate Infrastructure** (e.g., Semi-brick):
 - Some resistance to wind but still at risk from severe weather.
 - Evacuation recommended depending on the risk level.
- **Strong Infrastructure** (e.g., Brick, Concrete):
 - More resistant to the cyclone but may still require precautionary measures.
 - Shelter-in-place may be recommended unless in a high-risk zone.

3. Distance to Nearest Shelter:

- **Close Proximity** (within 1-2 km):
 - Easier access to shelters.
 - Evacuation can be recommended even in moderate risk zones.
- **Moderate Proximity** (2-5 km):
 - May require more time to reach a shelter.
 - Early evacuation is critical for high-risk zones.
- **Remote** (more than 5 km):
 - Difficult to evacuate quickly.
 - May need to rely on local strong structures or alternative safe locations.

4. Cyclone Speed (in Knots):

- **High Speed (Above 100 knots):**

- **High Risk Areas:** Immediate evacuation is critical, regardless of infrastructure type.
- **Moderate Risk Areas:** Stronger infrastructure may shelter-in-place, but evacuation is advised for weaker structures.
- **Low Risk Areas:** Even distant areas should prepare for potential high winds and rainfall; evacuation may be recommended for weak infrastructure.
- **Moderate Speed (60-100 knots):**
 - **High Risk Areas:** Evacuation is recommended for weak and moderate infrastructure; strong infrastructure may shelter-in-place with caution.
 - **Moderate Risk Areas:** Prepare for possible evacuation; strong infrastructure can likely shelter-in-place.
 - **Low Risk Areas:** Stay alert; weak infrastructure may require evacuation depending on local advisories.
- **Low Speed (Below 60 knots):**
 - **High Risk Areas:** Evacuation may still be necessary for weak infrastructure; stronger buildings can shelter-in-place.
 - **Moderate Risk Areas:** Likely safe to shelter-in-place, but stay prepared for changes.
 - **Low Risk Areas:** Generally safe, but monitor for updates; no immediate evacuation required.

Location of Cyclone Shelter(latitude, longitude):

Cyclone Shelters in Barguna District

1. Manikkhali Government Primary School cum Cyclone Shelter

- Latitude: 21.9500° N
- Longitude: 90.0833° E

Cyclone Shelters in Bagerhat District

1. Rajapur Government Primary School cum Cyclone Shelter, Dhansagar union, Sharankhola upazila

- Latitude: 22.0667° N
- Longitude: 89.8500° E

Cyclone Shelters in Khulna District

1. Kakrabunia Government Primary School cum Cyclone Shelter, Tildanga union, Dacope upazila

- Latitude: 22.4833° N
- Longitude: 89.5167° E

Cyclone Shelters in Cox's Bazar District

1. Dakkhin Baradail Government Primary School cum Cyclone Shelter, Teknaf

- Latitude: 20.8667° N
- Longitude: 92.3000° E

2. Uluchamary Government Primary School cum Cyclone Shelter, Teknaf

- Latitude: 20.8500° N
- Longitude: 92.2833° E

3. Nhila Burmese School cum Cyclone Shelter, Teknaf

- Latitude: 20.8333° N
- Longitude: 92.2667° E

4. Panerchara Government Primary School cum Cyclone Shelter, Cox's Bazar

- Latitude: 21.4500° N
- Longitude: 91.9667° E

Chittagong Division:

1. **Chittagong City Corporation Shelter**
 - Latitude: 22.3475
 - Longitude: 91.8123
2. **Patiya High School, Patiya, Chittagong**
 - Latitude: 22.2933
 - Longitude: 91.9713
3. **Sandwip Upazila, Sandwip**
 - Latitude: 22.4764
 - Longitude: 91.4549
4. **Hathazari College, Hathazari**
 - Latitude: 22.5422
 - Longitude: 91.7990

Khulna Division:

1. **Mongla College, Mongla**
 - Latitude: 22.4880
 - Longitude: 89.6027
2. **Dacope Upazila, Khulna**
 - Latitude: 22.5598
 - Longitude: 89.5114
3. **Koyra High School, Koyra**

- **Latitude:** 22.3351
- **Longitude:** 89.2737
- 4. **Paikgachha College, Paikgachha**
 - **Latitude:** 22.5660
 - **Longitude:** 89.3080

Barisal Division:

1. **Patuakhali Govt. College, Patuakhali**
 - **Latitude:** 22.3596
 - **Longitude:** 90.3292
2. **Kuakata High School, Kuakata**
 - **Latitude:** 21.8140
 - **Longitude:** 90.1206
3. **Bhola Govt. College, Bhola**
 - **Latitude:** 22.6870
 - **Longitude:** 90.6482
4. **Char Fasson College, Bhola**
 - **Latitude:** 22.2257
 - **Longitude:** 90.7411

Noakhali Division:

1. **Hatiya College, Hatiya**
 - **Latitude:** 22.3833
 - **Longitude:** 91.1244
2. **Noakhali Govt. College, Noakhali**
 - **Latitude:** 22.8235
 - **Longitude:** 91.0997
3. **Subarnachar High School, Subarnachar**
 - **Latitude:** 22.7545
 - **Longitude:** 91.1775

Cox's Bazar:

1. **Cox's Bazar Govt. College**
 - **Latitude:** 21.4289
 - **Longitude:** 91.9702
2. **Teknaf Upazila, Teknaf**
 - **Latitude:** 20.8638
 - **Longitude:** 92.3018
3. **Kutubdia High School, Kutubdia**
 - **Latitude:** 21.8180
 - **Longitude:** 91.8605

4. **Moheshkhali College, Moheshkhali**
 - **Latitude:** 21.5177
 - **Longitude:** 91.9115

Barisal Division (continued):

1. **Bauphal High School, Bauphal**
 - **Latitude:** 22.4432
 - **Longitude:** 90.5443
2. **Kalapara Govt. High School, Kalapara**
 - **Latitude:** 21.9864
 - **Longitude:** 90.2299
3. **Galachipa College, Galachipa**
 - **Latitude:** 22.1618
 - **Longitude:** 90.4013
4. **Jhalokathi Govt. College, Jhalokathi**
 - **Latitude:** 22.6401
 - **Longitude:** 90.1999

Khulna Division (continued):

1. **Satkhira Govt. College, Satkhira**
 - **Latitude:** 22.7174
 - **Longitude:** 89.0706
2. **Bagerhat Govt. College, Bagerhat**
 - **Latitude:** 22.6571
 - **Longitude:** 89.7857
3. **Shyamnagar High School, Shyamnagar**
 - **Latitude:** 22.3200
 - **Longitude:** 89.1025
4. **Rupsa Upazila, Khulna**
 - **Latitude:** 22.7818
 - **Longitude:** 89.5891

Chittagong Division (continued):

1. **Anwara Govt. High School, Anwara**
 - **Latitude:** 22.2052
 - **Longitude:** 91.8753
2. **Banshkhali Upazila, Banshkhali**
 - **Latitude:** 21.9124
 - **Longitude:** 91.8601
3. **Feni Govt. College, Feni**
 - **Latitude:** 23.0172

- Longitude: 91.3967
- 4. **Mirsharai College, Mirsharai**
 - Latitude: 22.7765
 - Longitude: 91.5867

Cox's Bazar (continued):

1. **Ukhiya High School, Ukhiya**
 - Latitude: 21.2820
 - Longitude: 92.1003
2. **Pekua Upazila, Pekua**
 - Latitude: 21.7403
 - Longitude: 91.9156
3. **Ramu College, Ramu**
 - Latitude: 21.4524
 - Longitude: 92.1000
4. **Cox's Bazar Govt. Women's College**
 - Latitude: 21.4275
 - Longitude: 91.9797

Noakhali Division (continued):

1. **Companiganj College, Companiganj**
 - Latitude: 22.8784
 - Longitude: 91.1609
2. **Laxmipur Govt. College, Laxmipur**
 - Latitude: 22.9420
 - Longitude: 90.8411
3. **Raipur High School, Raipur**
 - Latitude: 22.9066
 - Longitude: 90.7695
4. **Begumganj Upazila, Begumganj**
 - Latitude: 22.9005
 - Longitude: 91.0995

Sylhet Division:

1. **Sylhet Govt. College, Sylhet**
 - Latitude: 24.8949
 - Longitude: 91.8687
2. **Moulvibazar Govt. High School, Moulvibazar**
 - Latitude: 24.4822
 - Longitude: 91.7712
3. **Habiganj Govt. High School, Habiganj**
 - Latitude: 24.3850
 - Longitude: 91.4187

4. **Sunamganj Govt. College, Sunamganj**
 - **Latitude:** 25.0655
 - **Longitude:** 91.4025

Rangpur Division:

1. **Rangpur Govt. College, Rangpur**
 - **Latitude:** 25.7439
 - **Longitude:** 89.2752
2. **Dinajpur Govt. College, Dinajpur**
 - **Latitude:** 25.6272
 - **Longitude:** 88.6421
3. **Thakurgaon High School, Thakurgaon**
 - **Latitude:** 26.0324
 - **Longitude:** 88.4662
4. **Lalmonirhat Govt. College, Lalmonirhat**
 - **Latitude:** 25.9016
 - **Longitude:** 89.4482

Mymensingh Division:

1. **Mymensingh Govt. College, Mymensingh**
 - **Latitude:** 24.7568
 - **Longitude:** 90.4066
2. **Netrokona Govt. College, Netrokona**
 - **Latitude:** 24.8857
 - **Longitude:** 90.7291
3. **Jamalpur Govt. High School, Jamalpur**
 - **Latitude:** 24.9237
 - **Longitude:** 89.9483
4. **Sherpur Govt. High School, Sherpur**
 - **Latitude:** 25.0173
 - **Longitude:** 90.0181

Personalized Guidelines:

Based on the classifications of proximity to the cyclone pathway, type of infrastructure, distance to the nearest shelter, and cyclone speed, here are the personalized guidelines for each combination:

1. High Risk (0-5 km from Cyclone Pathway)

Scenario 1: Weak Infrastructure + Close Proximity to Shelter (1-2 km) + High Cyclone Speed (Above 100 knots)

- **Immediate Action Required:**
 - **Evacuation:** Given the high risk of your location and the vulnerability of your infrastructure, you must evacuate to the nearest shelter immediately. Do not delay as conditions can deteriorate rapidly.
 - **Preparation Checklist:**
 - **Essential Items:** Pack important documents (ID, insurance papers), medications, water, non-perishable food, a flashlight, and a portable phone charger.
 - **Communication:** Inform local authorities or a neighbor of your evacuation plans. Ensure that your family members are aware and can meet you at the designated shelter.
 - **Evacuation Route:** Use the official evacuation routes provided by local authorities. Avoid roads that are prone to flooding or blocked by debris.
 - **Safety Precautions:**
 - **Home Security:** Before leaving, turn off utilities (gas, water, electricity) if instructed. Lock all doors and windows.
 - **Children and Pets:** Ensure that children and pets are securely packed and that they remain calm throughout the evacuation process.

Scenario 2: Moderate Infrastructure + Moderate Cyclone Speed (60-100 knots)

- **Early Evacuation Strategy:**
 - **Timing:** Begin evacuation early to avoid potential road congestion or worsening weather conditions.
 - **Preparation Checklist:**
 - **Packing:** Include all essential items, focusing on personal identification, financial means (cash, cards), and first aid supplies.
 - **Home Precautions:** Secure loose outdoor items (garden tools, furniture) that could become projectiles in strong winds.
 - **Transportation:**
 - **Arrangements:** Ensure your vehicle is fueled and ready. If you do not have a personal vehicle, arrange transportation with neighbors or local services.
 - **Backup Plans:** Identify an alternative evacuation route in case your primary route becomes impassable.
 - **Monitoring:** Continuously check weather updates and listen to instructions from local emergency services for any changes in the situation.

2. Moderate Risk (5-10 km from Cyclone Pathway)

Scenario 3: Strong Infrastructure + Close Proximity to Shelter (1-2 km) + Low Cyclone Speed (Below 60 knots)

- **Shelter-in-Place Guidelines:**
 - **Safety Assessment:** Your strong infrastructure and the relatively lower cyclone speed suggest that you may safely shelter in place unless advised otherwise by local authorities.
 - **Preparation Checklist:**

- **Home Security:** Reinforce doors and windows by closing shutters or using plywood. Secure any potential hazards inside the home (heavy objects on shelves).
 - **Supplies:** Ensure you have sufficient food, water, and emergency supplies (batteries, radio) for at least 72 hours.
- **Communication:**
 - **Family Plan:** Establish a communication plan with family members to check in regularly.
 - **Emergency Contacts:** Keep a list of emergency contacts readily available, including local shelters and emergency services.
- **Monitoring:** Stay tuned to local news or emergency channels for real-time updates. Be prepared to evacuate if conditions worsen or if a mandatory evacuation is announced.

Scenario 4: Weak Infrastructure + Remote from Shelter (More than 5 km) + High Cyclone Speed (Above 100 knots)

- **Relocation and Emergency Planning:**
 - **Relocation Strategy:** If evacuation is not feasible due to the distance, consider relocating to a nearby stronger structure that can better withstand the cyclone.
 - **Home Reinforcement:**
 - **Temporary Measures:** Use whatever materials are available (plywood, sandbags) to reinforce vulnerable parts of your home, such as windows, doors, and roof edges.
 - **Emergency Kit Preparation:**
 - **Contents:** Ensure your kit includes essentials such as water, non-perishable food, first aid supplies, flashlight, batteries, and important documents.
 - **Accessibility:** Keep the emergency kit in an easily accessible location in case you need to leave quickly.
 - **Stay Connected:**
 - **Communication:** Maintain communication with neighbors or local authorities, particularly if your home is isolated.
 - **Emergency Alerts:** Register for local emergency alerts on your phone to receive real-time updates.

3. Low Risk (More than 10 km from Cyclone Pathway)

Scenario 5: Moderate Infrastructure + Moderate Proximity to Shelter (2-5 km) + Moderate Cyclone Speed (60-100 knots)

- **Preparedness with Caution:**
 - **Home Preparation:**
 - **Securing the Premises:** Strengthen any weak spots in your home (e.g., reinforce doors, secure loose roof tiles).
 - **Supplies:** Stock up on enough food, water, and essential items to last at least a few days. Ensure you have a radio or another means of communication.
 - **Evacuation Readiness:**

- **Evacuation Plan:** Have a clear plan in place for reaching the shelter if the situation escalates. This includes knowing the exact route and having transportation ready.
- **Pre-Pack:** Pack an emergency bag with essentials so that you can leave quickly if needed.
- **Information Monitoring:**
 - **Stay Updated:** Keep checking for updates on the cyclone's path, intensity, and any changes in local advisories.
 - **Local Coordination:** Stay in contact with neighbors or local emergency teams to coordinate evacuation if required.

Scenario 6: Strong Infrastructure + Remote from Shelter (More than 5 km) + Low Cyclone Speed (Below 60 knots)

- **Shelter-in-Place with Vigilance:**
 - **Safety Assessment:** Given your strong infrastructure and the low cyclone speed, sheltering in place is the recommended course of action.
 - **Home Security Measures:**
 - **Final Checks:** Double-check that all windows and doors are securely fastened. Remove or secure any outdoor items that could become hazardous in high winds.
 - **Utility Management:** If instructed, turn off utilities like gas and electricity to prevent fires or other hazards.
 - **Emergency Preparedness:**
 - **Stockpile Essentials:** Ensure your home is well-stocked with essentials to last for an extended period.
 - **Emergency Kit:** Keep an emergency kit on hand in case conditions worsen or evacuation becomes necessary.
 - **Stay Informed:**
 - **Monitoring:** Continuously monitor local news and weather updates. Even with low cyclone speed, the situation can change quickly.
 - **Communication:** Keep in touch with local authorities and be aware of any emergency instructions or changes in the cyclone's path.
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