



REPORT ON
PREPAREDNESS PROGRAMME
OF
APARTMENT SOCIETIES
TOWARDS
EARTHQUAKE AND FIRE SAFETY

An Initiative of Assam State Disaster Management Authority



Background:

Urban Vulnerability

While growth and urbanization go hand in hand, they come with a catch. Rapid urbanisation in the 1990s and beyond has dramatically increased the numbers of people and scale of physical assets exposed to hazards because of inadequate urban land-use planning and construction standards. Therefore, huge urban population combined with poor quality and ill-maintained infrastructure, low quality building stock, and lower resilience of the high-density society increases the risks in the urban centres. With the rate of urbanization picking up vigorously, demand for land becomes such that communities build houses in areas which are environmentally unstable with risks of landslides, flash-floods and cave-ins. The growth in India's urban centres is haphazard and uncontrolled. It is now clear that most cities, are not effectively managing their risk. Urban infrastructure is often designed and constructed without satisfying minimum safety standards.

The case of Guwahati city is no different. Guwahati is one of the most rapidly growing cities in India. The city's population grew from just 2,00,000 in 1971 to more than 5,00,000 in 1991. In the census of 2011 the city's population was found to be approximately 9,63,429 out of 12,60,419 of the district of Kamrup Metro. The density of population exceeds 2010 persons per sq km and this high density of urban population combined with haphazard growth exposes the city dwellers to high risk. As we are all aware Guwahati city falls under Seismic Zone V making it very vulnerable to Earthquakes. Unplanned land use pattern in surrounding hills aggravate the landslide risk in the city. The city experiences multiple waves of storms and also high intensity rainfall in short durations which results in Urban Flooding. Besides natural hazards, the city is also vulnerable to human induced hazards like accidents, fires, bomb blasts etc.



Image Source: Google Images

Vulnerability of the City: Earthquakes

Seismically Assam lies in one of the most active regions of the world and falls in Zone V, the most vulnerable seismic zone. This is one reason why earthquakes of very high intensity are occurring regularly in the region. The State has experienced two major earthquakes in the year 1897 and 1950. The intensities of these two earthquakes were 8.7 and 8.5 on the Richter scales respectively. Large scale devastation took place on both the occasions. Some of the notable earthquakes in this region are listed below:

Major Earthquakes in NE India

- * 1947 Assam earthquake (M 7.7)
- * 1950 Assam-Tibet earthquake (M8.7; ~4,000 deaths)
- * 1988 Bihar-Nepal earthquake (M6.6, ~1,004 deaths)
- * 1988 Assam-Manipur earthquake (M6.6, ~35 deaths)
- * 2011 Sikkim Earthquake-Mangan (M6.8, ~100 deaths) (After shocks – M5.3 & M4.6)
- * 2013 Indo-Myanmar Border – M5.9 (09/01/2013)

The frequency of the Earthquakes has also significantly increased which is of serious concern.

Year-wise earthquake events (felt earthquakes) in and around Assam (including Indo-Myanmar and Indo-Nepal Borders) are as follows:

Year	Total Number of Earthquake Events
2010	10
2011	40
2012	70
2013 (till March)	16

Earthquakes are one of the most destructive of natural hazards. The impact of the event is most traumatic because it affects large area, occurs all on a sudden and unpredictable. They can cause large scale loss of life and property and disrupts essential services such as water supply, sewerage systems, communication and power, transport etc. They not only destroy villages, towns and cities but the aftermath leads to destabilize the economic and social structure of the nation.

Combined with this hazard, is the vulnerability profile of the city of Guwahati where the growth is haphazard and uncontrolled. Hence, it is very necessary that a multi-pronged strategy is adopted by the State for minimizing the effects of such a catastrophe. Therefore both structural and non - structural mitigation measures have to

be adopted and one such non-structural measure is sensitizing the people on the probable hazards so that adequate safety measures can be undertaken and they can be prepared.

Need for the exercise:

The success of making communities 'disaster-resilient' depends upon the success of disaster risk reduction education imparted to the society. Such education and training can be provided using various formal and informal media and activities. Guwahati being a multi-hazard prone city, providing risk reduction education and training to the citizens is a very important and challenging task.

The city needs concerted efforts towards disaster preparedness. The possible disasters that may occur in Guwahati are related to the hazards of Earthquake, Fire, landslide, Urban flood etc. While the Assam State Disaster Management Authority has worked with concerned line departments to bring about appropriate techno legal framework and policy it has also been persistently working towards making the City

prepared through a number of Capacity Building, Training and Public Awareness programme for disaster preparedness.

The city of Guwahati has recently witnessed a phenomenal increase in built environment and with land becoming scarce, the housing pattern has changed from Assam Type houses to multi-storeyed RCC structures. In recent years, Apartment buildings have also mushroomed in the city exposing the populace to risk from Earthquakes and Fires.

Further, there are challenges for responding agencies due to:

- I Narrow Roads for movement of Heavy Response Vehicle,
- II Lack of Water Hydrants
- III Lack of adequate exit routes in the buildings
- IV Lack of knowledge of the people to respond to emergencies thereby creating panic that further complicates the situations



Therefore, as a non-structural mitigation measure, the citizens of the city need to be educated about their risk, vulnerability and their capacity. As a starting point, the Assam State Disaster Management Authority therefore undertook the task of sensitizing the residents of these apartment societies on Earthquake and Fire Safety and in a unique move reached the people at their doorstep taking the campaign apartment to apartment.

Objective of the Sensitization programme:

- I To involve the community in the Disaster Preparedness activities

- II To make the residents aware of the hazard and related risk they are prone to
- III To educate the residents of the Apartment societies on the measures to be taken before, during and after an Earthquake / Fire
- IV To assess the fire safety of the Apartments
- V To involve all stakeholders i.e. Civil Society, Fire Service Department, Civil Defence and Home Guards for an integrated approach towards disaster preparedness



The process:

Since the objective of the exercise itself is to sensitise and build the capacity of the community, ASDMA adopted a participative approach in conducting the whole exercise.

- I Advertisement was given in the print media about the exercise inviting Apartment Societies to register with ASDMA if they wanted the sensitization programme to be conducted in their apartments
- II Advertisement was given in the print media about the exercise inviting NGOs/Volunteers to register for facilitating the exercise
- III A database was developed for the registration received from Apartment Societies, NGOs, Volunteers and they were subsequently involved in conducting the exercise.
- IV The following NGOs were selected for carrying out the programme:

Sl No	Organisation	Name of contact person
1.	Jagriti Cultural Centre, Guwahati	Md. Isfaqur Rahman
2.	Saraighat Human Worship Association, Guwahati	Shri Hemanta Kalita
3.	Uttaran NGO Society ,Guwahati	Shri Bikash sharma
4.	NEST NGO, Guwahati	Mrs. Parimita Mahanta
5.	Jyoti Darpan, Guwahati	Shri Pranjal Oja
6.	Guwahati Ganaseva Society, Guwahati	Shri Dilip Nath
7.	Impression NGO, Guwahati	Mrs. Geetali Hazarika
8.	Disaster Mitigation Society, Guwahati	Shri Dipu Sarma

- V Identification of Apartments: Following the advertisement, only 12 apartment societies registered with ASDMA for the exercise. Hence, ASDMA involved the NGOs in identification of 188 apartments based on the following criteria:
 - i. Apartments having more than 30 families
 - ii. Apartment with G+4 and above
 - iii. Apartments having two or more than two blocks
- VI The selected NGOs were given earmarked areas and localities and all apartments falling in that area/locality were their responsibility



- VII** Building the database: The selected NGO were given a format for collecting information regarding the number of residents in the apartments, disaggregated data based on sex, old and elderly, children below 12 years etc. They went from apartment to apartment and collected information which was then compiled to form the database for all the 200 odd apartments undertaken under this programme.
- VIII** Mapping of the information: The officers of ASDMA took a survey of all the selected apartments and collected the co-ordinates for mapping the apartments on GIS Platform. Subsequently, the data pertaining to these apartments was linked with the mapped apartments for a comprehensive overview of the same.
- IX** The NGOs then coordinated with the Apartment societies for finalising dates and facilitating conduct of the programme by ASDMA
- X** Six teams comprising of officials from ASDMA, Fire Service, Civil Defence and the concerned NGO were constituted for undertaking the sensitization programme
- XI** The Programme was carried out from 1st -23rd February 2013.
- XII** A conscious decision was taken to conduct the programme after office hours (6 PM to 9PM) so that maximum number of people could be reached.
- XIII** Each team covered two apartments every day and a total of 12 apartments were covered in a day
- XIV** The programme included a 10-15 minute power point presentation on Earthquake safety by the ASDMA official followed by a demo on Emergency evacuation by Civil Defence and a fire safety audit by the Fire Services. This was followed by an Interactive session where residents clarified their doubts and raised issues of concern.
- XV** The Fire Services also shared their assessment report on Fire Safety measures with the President/Secretary of the Apartments and requested them for taking up corrective measures if required

General Observations:

- * The residents of these apartments who participated in the exercise showed sincere involvement and keen interest in family and individual preparedness and sought for more information
- * However, in most of the apartments , 30%-40% residents still showed indifferent attitude towards disaster preparedness
- * There was a general lack of awareness regarding earthquakes and their probability amongst the residents
- * Most of them did not know what they should do or not do during such an event
- * Most of the apartments did not have any emergency exits
- * No evacuation routes were marked
- * The apartments did not have an Emergency Plan



Sensitization programme being conducted at various Apartment Societies



Discussions with the NGOs, Civil Defence, AFSO on the execution of the Programme

Feedback from State Fire Service Organisation which conducted Fire Safety Assessment in the apartment buildings

1. Most of the Apartments have not obtained NOC on Fire Safety
2. Occupants are unaware of Fire NOC requirement
3. Some apartments have not renewed their Fire NOC
4. Occupants of the apartments do not know how to operate the fire fighting equipment nor have they taken steps for maintenance of the fire fighting systems.

Annexure I

**OFFICE OF THE ADDL. DIRECTOR GENERAL OF POLICE CUM-
DIRECTOR, FIRE AND EMERGENCY SERVICES, ASSAM GUWAHATI**

No. F&E.S/FPW/GG-527/ 178/13

Dated Guwahati the 02-04-13

To,

The Deputy Secretary & SPO,
Assam State Disaster Management Authority,
Dispur, Assam.

SUB: DOCUMENTATION ON THE APARTMENT BASED SENSITIZATION PROGRAMME.

Ref: Your letter NO. ASDMA 43/2012/Pt./32 Dated 21st March, 2013.

Sir,

With reference to the above, I am sending herewith the findings along with check list and summary of check list of Rapid Assessment of inbuilt Fire Safety Measures in Apartments submitted by concerned Fire & Emergency Services Officers, Assam carried out during Earthquake Preparedness Programme & Fire Safety Assessment w.e.f. 01.02.2013 to 22.02.2013.

Encl: 1. Findings Report.
2. Photo copy of check list -195 apartments.
3. Summary of Apartment Wise Findings.

Yours faithfully,

Deputy Director,
Fire & Emergency Services,
Assam, Panbazar, Guwahati.

No. F&E.S/FPW/GG-527/

Dated Guwahati the _____

Copy along with findings and summary of check list to:

1. The Deputy Commissioner, Kamrup(Metro) cum Chairman District Disaster Management Authority, Kamrup for favour of kind information and necessary action from your end.
2. The Chief Executive Officer, Guwahati Metropolitan Development Authority, Guwahati for favour of kind information and necessary action from your end.
3. The Commissioner, Guwahati Municipal Corporation for favour of kind information and necessary action from your end.

Deputy Director,
Fire & Emergency Services,
Assam, Panbazar, Guwahati.

GUWHATI FIRE & EMERGENCY SERVICES STATION

No.F &E.S/Ghty/276/13

Dated Guwahati the 01.04.2013

To,

The Addl. Director General of Police cum-
Director, Fire and Emergency Services,
Assam, Panbazar, Guwahati-1.

Through the proper channel

SUB:- **SUBMISSION OF FINDINGS ON APARTMENT BASED
SENSITIZATION PROGRAMME W.E.F. 01.02.2013 TO 22.02.2013
AS PER WORK PLAN OF ASDMA**

Sir,

With reference to the above, I have the honour to report that a rapid assessment of inbuilt fire safety measures in the apartments was carried out as per check list during the Earthquake Preparedness Programme & Fire Safety Assessment of Apartments and 195 apartments was covered in this program. Following common findings of the above programme are submitted for favour of your kind perusal.

1. Most of the apartments have not obtained Fire Safety No-Objection Certificate(NOC) from this Department before occupying the building/apartment. Occupants/society of the building/apartments are not aware of Fire NOC which is issued from this Department.
2. Some Buildings/Apartments have taken Fire Prevention and Fire Safety Suggestions from this Department but neither these suggestions implemented nor submitted compliance reports.
3. Some buildings or apartments in which inbuilt fire safety measures are provided and NOCs are granted have not been renewed from time to time and fire safety measures which are provided in those buildings are found be not in working condition due to lack of care and maintenance.
4. Occupants/Societies are not familiar with functioning/care and maintenance of inbuilt fire safety measures provided there.
5. An apartment wise rapid assessment which is carried out as per check list is enclosed herewith for favour of your kind perusal.

During Earthquake Preparedness Programme & Fire Safety Assessment of Apartments the owners/occupants/ societies were explained the necessity of fire safety measures to be taken in the building and requested :-

- i) To get their buildings/apartments inspected by the Fire & Emergency Department in respect of fire safety measures.
- ii) To collect fire safety measures suggestions from this Department after getting fire safety measures inspection. In this regard standard form was distributed to the building authorities.
- iii) To implement the fire safety measures as per suggestions and thereafter obtain NOC.

contd.

Annexure I

(2)

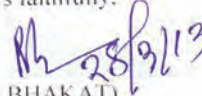
- iv) to prepare disaster management/fire safety plan and explain the same to all the occupants of the apartments and act accordingly.
- v) to organize mock drill in the apartment/buildings after a suitable interval with the help of Fire & Emergency Service, Disaster Management Authority, Civil Defence & NGO's and other stake holders.

Leaflets containing fire safety tips was distributed among the occupants and fire safety tips was explained with demonstration. Also necessity of family counseling and displaying of emergency telephone numbers in the apartments was explained to the occupants.

During this programme, the occupants of the apartment buildings expressed their high appreciation for organizing such programmes and also showed their interest to continue such type of programme to create awareness among the general public.

Submitted for favour of your kind perusal

Yours faithfully,



(R.C. BHAKAT)

Sr. Station Officer,

Supervisor of the Awareness Programme,
Fire & Emergency Services Station,
Guwahati, Panbazar, Assam.

Annexure II

CHECKLIST FOR THE APARTMENT BUILDING IN RESPECT OF SENSITIZATION PROGRAMME- 2013 AS PER WORK PLAN PREPARED BY ASDMA

1	Name & Address of the Apartment Building	:							
2	Number of Floors in the Apartment	:	Basement/ Ground/ Mezzanine/ +						
3	Name and Contact No. of the President/ Secy./ Builder/ Stake Holders	:							
4	No. of Inhabitants participated	:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 2px;">Less than 50</td> <td style="padding: 2px;">50 and above</td> <td style="padding: 2px;">100 and above</td> <td style="padding: 2px;">150 and above</td> <td style="padding: 2px;">200 and above</td> <td style="padding: 2px;">250 and above</td> </tr> </table>	Less than 50	50 and above	100 and above	150 and above	200 and above	250 and above
Less than 50	50 and above	100 and above	150 and above	200 and above	250 and above				
5	Display of Emergency No's	:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 2px;">Yes</td> <td style="padding: 2px;">No</td> </tr> </table>	Yes	No				
Yes	No								
6	Identify Emergency Exits/ Escape Routes	:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 2px;">Yes</td> <td style="padding: 2px;">No</td> </tr> </table>	Yes	No				
Yes	No								
7	Exits/ Corridors free of obstruction	:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 2px;">Yes</td> <td style="padding: 2px;">No</td> </tr> </table>	Yes	No				
Yes	No								
8	Fire Safety Measures Suggestion obtained if yes, mention its Office Memo No.	:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 2px;">Yes</td> <td style="padding: 2px;">No</td> </tr> </table>	Yes	No				
Yes	No								

9	If NOC from Fire Service obtained and updated	:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 2px;">Yes</td> <td style="padding: 2px;">No</td> </tr> </table>	Yes	No				
Yes	No								
10	Fixed fire fighting installation provided	:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 2px;">Yes</td> <td style="padding: 2px;">No</td> </tr> </table>	Yes	No				
Yes	No								
11	Are the installations functional	:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 2px;">Yes</td> <td style="padding: 2px;">No</td> <td style="padding: 2px;">Partial</td> </tr> </table>	Yes	No	Partial			
Yes	No	Partial							
12	Occupants/ security personnel are familiar in handling of fire Extinguishers/ Installation	:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 2px;">Yes</td> <td style="padding: 2px;">No</td> </tr> </table>	Yes	No				
Yes	No								
13	Response Plan/ Strategy in case of fire, earthquake, flood(disaster) prepared for the Apartment	:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 2px;">Yes</td> <td style="padding: 2px;">No</td> </tr> </table>	Yes	No				
Yes	No								
14	Team Constituted for Any Disaster	:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 2px;">Yes</td> <td style="padding: 2px;">No</td> </tr> </table>	Yes	No				
Yes	No								
15	Open Spaces/ Assembly available	:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 2px;">Yes</td> <td style="padding: 2px;">No</td> </tr> </table>	Yes	No				
Yes	No								
16	Whether Power Distribution is Balanced as per need/ requirement of the Apartment	:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 2px;">Yes</td> <td style="padding: 2px;">No</td> </tr> </table>	Yes	No				
Yes	No								
17	Periodical inspection of electrification	:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 2px;">Yes</td> <td style="padding: 2px;">No</td> </tr> </table>	Yes	No				
Yes	No								
18	Storage of flammable products if any	:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 2px;">Yes</td> <td style="padding: 2px;">No</td> </tr> </table>	Yes	No				
Yes	No								
19	Improvised electrification if any	:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 2px;">Yes</td> <td style="padding: 2px;">No</td> </tr> </table>	Yes	No				
Yes	No								
20	Any outbreak of Fire in the last 5 (five) years	:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 2px;">Yes</td> <td style="padding: 2px;">No</td> </tr> </table>	Yes	No				
Yes	No								
21	Fire Alarm provided in the premises. If yes. Mention the mode of operation	:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 2px;">Automatic</td> <td style="padding: 2px;">Manually</td> </tr> </table>	Automatic	Manually				
Automatic	Manually								
22	Width/ Height of the Main Gate/ Arch	:	Width : 3/4/5m Height : 3/4/5m						
23	Parking Place for 2 wheelers and cars	:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 2px;">Yes</td> <td style="padding: 2px;">No</td> </tr> </table>	Yes	No				
Yes	No								
24	Signature of President/ Secretary/ Builder	:							
25	Signature of the Stake Holder	:	<ol style="list-style-type: none"> 1. ASDMA : 2. S.F.S.O : 3. NGO : 4. Civil Defence : 						



THE TIMES OF INDIA

Lessons on how to tackle disasters

A STAFF REPORTER

Feb. 1: The Assam State Disaster Management Authority (ASDMA) today began a sensitisation programme in the city to educate residents of apartment societies on techniques of disaster management.

About 200 apartment societies will be covered under the programme that will continue till February 20.

The sensitisation programme will also include mock drills by civil defence personnel who will show different techniques that people should adopt to escape from harm when a natural or man-made disaster strikes.

Officials from the Assam Fire Service Organisation, homeguards and local NGOs will also lend their support. Fire officials will inspect the apartment blocks for fire exits and other safety features to ensure that residents can escape safely if disaster strikes.

Six different teams, each comprising officials from the ASDMA, fire department, homeguards, civil defence and NGOs, will be visiting different apartment blocks to sensitise the residents on various aspects of disaster management every day. The people will also be given a chance to put forward their queries and seek solutions from the experts present on the spot.

"We will be carrying out the 20-day sensitisation programme to educate the residents on ways to manage a disaster. During the mock drills, civil defence personnel will exhibit the ways people should adopt to shield them from harm when a disaster of any kind or any magnitude occurs. This programme has been especially designed for the city as it falls on the seismic zone and is very prone to earthquakes. In the initial phase, we will be targeting 200 apartment societies and will be gradually expanding the programme to cover more such apartments in the Kamrup (metropolitan) district," said an ASDMA official.

"The fire officials will also inspect the apartment blocks to see that all safety measures like fire extinguishers and fire exits are in place. If any faulty construction is detected, it will be brought to the notice of the residents and the builder will be given a specific time to rectify it. These officials may again visit to check whether the safety measures have been put in place as instructed," said the official.

Disaster mgmnt tips for flat dwellers

TIMES NEWS NETWORK

Guwahati: The Assam State Disaster Management Authority (ASDMA) has urged the residential complex societies of Guwahati to join hands with them to train apartment dwellers in disaster management techniques.

During the ongoing sensitization programme, disaster management lessons have been imparted to residents of 45 apartments in the city till Tuesday. The ASDMA has appealed to all apartment dwellers in the city to take part in the sensitization programme.

"We appeal to every person who lives in an apartment to participate in the sensitization programme. Considering the geographical location of Guwahati, it is imperative for apartment dwellers to learn techniques to combat disasters as apartment residents are vulnerable to disasters like earthquakes and fires. We have seen that on an average, only 50 per cent of the residents are participating in the training programme," said Nandita Hazarika, state project officer of ASDMA.

She urged all apartments dwellers to register with the ASDMA to

DISASTER PREPAREDNESS

learn disaster management techniques in view of the frequent earthquakes occurring in the northeast. The senior ASDMA official stated that the region experienced as many as 64 earthquakes in 2012. In January alone this year, nine earthquakes have hit the northeast.

Residents participating in the sensitization programmes have been shown video clippings of earthquakes wreaking havoc in parts of China and Japan in the past. "Our main objective behind showing the clippings from China and Japan is to make the city residents realize the horrific situation earthquakes can give rise to," said Hazarika. ASDMA has also been teaching rescue techniques to apartment dwellers with the help of State Disaster Response Force, State Fire Service Organisation, civil defence and NGOs.

By February 22, ASDMA will complete sensitization programmes at 200 apartment complexes in the city. ASDMA is keen to conduct similar programmes at the hospitals as well.



Experts rue ignorance on disaster control

RAJESH CHANDRER
FOR 11: A fire city residents have no real knowledge about disaster management. The city is a disaster-prone area and the people are ignorant about disaster management.

Since the disaster management act was passed by the Assam State Disaster Management Authority, the city has not seen any disaster. The people are ignorant about disaster management.

The people are ignorant about disaster management. The city is a disaster-prone area and the people are ignorant about disaster management.

The people are ignorant about disaster management. The city is a disaster-prone area and the people are ignorant about disaster management.

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Annexure IV

Sl.No.	Name Of The Apartment Building (Landmark) Address
1	Prasanti Niketan, Opp- Sankardev ,Netralay, Beltola Ghy- 781028
2	Amar Enclave Nr-Cid Bus Stop, Beltola, Ghy-781028
3	Magnus Apartment, Opp Kali Mandir Beltola-781028
4	Heritage Home, N.R Puberun Club, Sani Mandir Beltola -781028
5	Dichang Apartment, N.R Beltola Bazar, Beltola-781028
6	Brahmaputra Apartment, A.G.Bus Stop Nr. Lakhi Manidr, Beltola -781028
7	Praphat Apartment, Kundli Nagar Beltola -781029
8	Jewtara Apartment, Nr Megha Plaza Beltola Chariali, Ghy-780129
9	Marilyan Apartment , Nr. A.G.Office Beltola-781028
10	Sashi Kunjya Apartment, Opp- Federal Bank Beltola, Ghy-781028 Nilachal Path
11	Nilachal Enclave, Opp- Federal Bank Nilachal Path Beltola Survey Beltola -781028
12	Uttaragar Enclave, Opp- Federal Bank Nilachal Path Beltola Survey Beltola -781028
13	Royal Enclave, Opp- Federal Bank Nilachal Path Beltola Survey Beltola -781028
14	Nilachal Apartment, Opp- Federal Bank Nilachal Path Beltola Survey Beltola -781028
15	Vastav Complex, Joyanagar Chariali Tripura Road Behind Of SBI Beltola -781028
16	Hrisikesh Apartment, Nr Lakhi Mandir Beltola-28
17	Aldrin Apartment, Nr San Martion Beltola -781028
18	Pragati Apartment, Lakhmi Path Beltola Tinali Beltola-28
19	Bijoya Complex, CID Bus Stop Nr. Hero Showroom Beltola -28
20	Diha Apartment, Beltola Tinali Opp Ridhi-Sidhi Miigt Beltola-28
21	Gaurav Apartment, Beltola Tinali Opp Beltola Majid Beltola-28
22	Samnay Housing Complex, Ist Rishiend Bye Lane K.B Rabha Path

Annexure IV

23	Nisha Court, Opp Beltola Majhid Kalaguru Bhisnu Rabha Path, Beltola Tinali Ghy-28
24	Manoranjan Apartment, Nr. Beltola Masjid Beltola Tinali Ghy-28
25	Ranibagan Housing Complex, Nr Sankordeb Netraloy Beltola -28
26	Gouri Apartment, Vip Road, Six Mile, Ghy-22
27	Palacia Livin, VIP Road, Six Mile, Ghy-22
28	Srijanaa Apartment, Vip Road, Borabari Chariali, Ghy-36
29	Arya Apartment, Madhuban Bamunimaidam, Govt Press Road, Ghy-21
30	Ashroy Enclave, Vip Road, Hengrabari, Ghy-36
31	Jeet Apartment, Narengi Tinali, Gh-26
32	Hrishikesh Apartment, New Guwahati, Noonmati, Ghy-20
33	Classic Enclave, Mrd Road, New Guwahati, Noonmati, Ghy-20
34	Hemgiri Enclave, Parag Das Path, Ghy-21
35	Maya Apartment, New Guwahati Tinali P.O- Noonmati, Ghy-20
36	Konika Apartment, Shankar Nagar, Noonmati, Ghy-20
37	Ashirwad Apartment, Chandmari Colony, Ghy-3
38	Seujee Enclave, MRD Road, Chandmari, Ghy-3
39	Prestige Elite, Gitali Path, Zoo Narangi Road, Gitanagar , Ghy-20
40	Belledale Enclave, Zoo Narangi Road, Gitanagar , Bye Lane- Amoyapur Path, Ghy-20
41	Alok Enclave Zoo, Narangi Road Narikal Bari, Bye Lane -1, Ghy -24
42	Nabakiram Apartment, Zoo Narangi Road, H. No-46, Ghy -21
43	Abode Enclave, Zoo Narangi Road, Ghy-21
44	Toosti Niloy, Pub Sarania Chandmari, Ghy-3
45	Zeba Apartment , Zoo Narangi Road Hatigarh Chariali, Ghy -21
46	Shaila Apartment, Narikal Basti Zoo Narangi Road, Ghy -24
47	Jonaki Apartment, Zoo Narangi Road, Ghy -21
48	Ashwini Anjali Apartment, Bapuji Nagar 2nd Madgharia, Ghy-20
49	Sarojini Apartment, Zoo Narangi Road, Gita Nagar, Ghy-20
50	Magnolia Apartment, Zoo Narengi Road, Hatigarh Chariali, Ghy-21

Annexure IV

51	Radhakunj Apartment
52	Shyamkunj Apartment
53	Apurva Residency
54	Amritkunj Apartment
55	Luv-Kush Apartment
56	Trance Enclave
57	Gagotri Apartment
58	Upada Apartment & Upada li
59	Prathana Apartment
60	Meghamallar Sparkle
61	Prasanti Apartment
62	Paradise & Parama Apartment
63	Shakti Enclave
64	Murali Apartment
65	Landmark Apartment
66	Protech Residency
67	Swapnalaya Apartment
68	Anandkunj Apartment
69	Rodalee Apartment
70	Rajani Enclave
71	Barua Enclave
72	Manikya Apartment
73	Punya Enclave
74	Apurba Apartment
75	20 Manoranjan Apartment
76	Green Enclave, M.D. Shah Road, Paltan Bazar, G.S. Rd. (Near Assam Financial Corp.)
77	Basant Kunj Apartment
78	Ashray Apartment, Borthakur Mill Road
79	Central Apartment, Borthakur Mill Apartment, Ulubari
80	Vijaya Apartment, Housing Association, B.M.Road, Ulubari
81	Sony Apartment, B.M.Road, Ulubari
82	Minashi Housing Complex, Kasturba Ashram Road, Ulubari
83	Mahalaxmi Apartment, By Lane-1, Tarun Nagar, Abc
84	Purbanchal Housing City, Heart Apartment, Sani Ram Bora Road, Lachit Nagar, Ghy-7
85	Purbasa Apartment, Sani Ram Bora Road, Lachit Nagar
86	Amarawati Apartment, Amarawati Path, Christian Basti, Ghy-6
87	Rajdhani Apartment, Amarawati Path, Christian Basti, Ghy-6

Annexure IV

88	Prime Apartment, Amarawati Path, Christian Basti
89	Parijat Mansion, M.G.Path, Christian Basti
90	Ananda Mansion, Ananada Nagar, By Lane-1, Post Office (Old), Ghy-5
91	Shan Apartment, Ananda Nagar, By Lane-1, Post Office (Old), Guwahati-5
92	Pragjyotish Apartment , Ananda Nagar, Byelane-3 Abc, G.S. Rd. Opp. Adarsh Pri-School
93	Krishna Cauvery Enclave, Abc Behind Dona Planet, G.S. Rd, Ghy-5
94	Shakti Apartment , Bhangagarh, G.S. Rd., Ghy-5
95	Nalini Plaza, Lachit Nagar Bus Stop
96	Pink Enclave Apartment, M.D.Shah Road, Paltan Bazar
97	Pink Arcade, Solapar, Paltan Bazar, Guwahati-1
98	Prasanti Prime Housing, A.M.Road, Society Phase-1, Paltan Bazar, Ghy-7
99	Prasanti Prime, Phase -2, A.M.Road, Paltan Bazar, Guwahati-7
100	Housefed Housing Complex, Rupnagar
101	Rupalipaam Apartment, B-5, H-7 Rupali Path, Jonali, R.G.B Road, Ghy-24
102	Prabhat Padmabala Apartment Society, House No-16, Bilpar Rehabari, Ghy-08
103	Pragjyotika Apartment, Vetapara, Ghy-28
104	Brahmaputra Apartment, Vetapara Road, Vetapara, Ghy-28
105	Kakati Howli Rajgarh Road, House No -71 Dinesh Ch.Kakati
106	Mangalom Apartment, East India By Lane Athgaon, Guwahati
107	Royal Enclave, Athgaon, Ghy
108	Shree Sadan , Athagaon, Ghy
109	G.K Tower, Ma Road Old Iti Road , Ghy-8
110	Sukholata Apartment,30 P.B. Road,Rehabari ,Ghy-08
111	Sidha Point, Opposite Of Marwari Hospital, Athgaon
112	Mohini Sadan, S.C.Road Athgaon,Ghy
113	Sanmilot Sammittee Vetapara, Ghoramara Road
114	Nilachal Apartment, Nandan Path, Vetapara, Ghy
115	Saraighat Apartment, Vetapara, Ghy Housing Colony
116	Prahlad Enclave, East India By Lane, Athgaon, Ghy
117	Amika Apartment, Bijuli Mill Lane, Manipur Basti (East) Opp Ratna Kuber Ulubari , Paltan Bazar, Ghy-7

Annexure IV

118	Neha Apartment, Behind Athgaon Masjid Sati Joymati Road, Athgaon , Ghy-1
119	Manjushree Apartment, Six Mile ,Ghy-22
120	Prestige Tower, F.A Nagar Path, Puranbasti, Six Mile, Ghy-37
121	Tipam Enclave, Gandhi Basti (Near Pratidin), Ghy
122	Sivam Complex, Bharalamukh, Opp Sbi , A.T. Road, Ghy-09
123	Hemlata Housing, Opposite Of Barowary Nam Ghar
124	Krishna Apartment, Opposite To St. Mary's School, Chenikuthi
125	Hill View Apartment, Opposite Of BSNL Staff Quarter
126	Karunamoyee Apartment, Near Jyoti Gas Agency, Uzanbazar
127	Iswar Heritage Housing Society, Near Technico Gas Agency, Lataasil
128	Subham Residency
129	Meghmaller, Nrjt, Near Kharghuli Post Office
130	City View Apartment, Near ASEB Sub Station, Kharghuli
131	Sitala Enclave, Near Malibagan
132	Kuwolee Apartment, Opposite Of River Brahmaputra, Kharguli
133	Oberon Apartment, House No - 6
134	Chandralaya Apartment, Lamb Road
135	Amity Apartment
136	Anita Bhawan, Behind Agp Head Office, Ambari
137	Kanak Apartment, Jor Pukhri South
138	Sneha Niwas, Behind Regional Office Punjab Sind Bank
139	Surya Apartment, Dighali Pukhri
140	Gyan Ashram Apartment
141	Niharika Apartment
142	Ritu Raj Enclave
143	R.R.S. Palace, Near Silpukhri Market
144	Rohini Apartment, Opposite Of Thana Road, Chandmari
145	Tsangpo Apartment
146	Subansiri Apartment
147	Vijant Enclave
148	Radhakrishna Apartment, Ananda Nagar, Pandu Port Road, Adabari Tinali , A.T. Road Opp Sbi

Annexure IV

149	Kaziranga Apartment Housing Society, Ananda Nagar Bye Lane 4, Adabari Tinali,A.T ROAD
150	Gokul Niwas Pandab Nagar, Pandu Port Road, Adabari Tinali, A. T Road Near SBI
151	Madhab Sankar, Housing Co-Society Ltd Pandab Nagar , Near Maligaon Rly Overbridge A.T.Road
152	Nilgiri Apartment, Near Adabari Tinali A.T.Road
153	Loknath Apartment , Ananda Nagar, Pandu Port Road, Bye Lane -2 Adabari Tinali
154	H.P Housing Society, Ananda Nagar Adabari Tinali Pandu Port Road Near Loknath Apartment
155	Ananda Niketan, Ananda Nagar, Pandu Port Road, Bye Lane -3 Sonam Marriage Hall
156	Gokul Dham, Ananda Nagar, Pandu Port Road, Adabari Tinali Near Sbi & Near Radha Krishna Apartment
157	Triveni Housing Co Society Ltd, Pandab Nagar, Pandu Port Road
158	Akash Housing Society, Maligaon Chariali Near Maligaon Railway Overbridge
159	Vishal Housing Complex, Maligaon Chariali Reebok Building Near Maligaon Rly Bridge
160	Nihar Apartment, Maligaon Chariali Near Vishal Housing Complex
161	Abhijit Housing Co. Society Ltd, Pandab Nagar Bye Lane-1 Near Capital Public School
162	Sagar Housing Complex, Kamakhya Nagar, Adabari Tinali Inf Front Of GRP QUARTER
163	Dishani Apartment, Kamakhya Nagar Adabari Tinali, Near Sagar Housing Complex
164	Kiron Housing Complex, Kamakhya Nagar, Adabari Tinali, Near Sagar Housing Complex
165	Silver Heights, Basisthapur, Bye Lane-3 Beltola Road(Opposite Passport Office)
166	Bealifort Apartment , Basisthapur, Bye Lane -3 Beltola Road Near Passport Office
167	Ashirbad Apartment, Basisthapur, Bye Lane-3 Beltola Road Near Passport Office
168	Arunodaoy Apartment, Basisthapur Bye Lane-3 Beltola Road Near Passport Office
169	Anubhab Apartment, Basisthapur, Bye Lane -3 Beltola Road Near Passport Office
170	Namrata Apartment, Basisthapur , Bye Lane 3 Beltola Road Near Passport Office
171	Nirvana Enclave, Basisthapur Bye Lane-3 Beltola Road Near Passport Office

Annexure IV

172	Udayan Apartment Basisthapur Bye Lane -4 Pragati Path Near R.J. Junior College Beltola Road
173	Nrilaya Castle, Landmark Near Nagaland House
174	Pakeeman Residency, Near Nagaland House
175	Purbasa Apartment, Near Nagaland House
176	Citizen Apartment, Near Nagaland House
177	Protect Park Hengrabari, Guwahati -36
178	Neeha Enclave Hengrabari, Guwahati -36
179	Syndicate Orchid
180	N.R. Housing Complex, Mathura Nagar (Behind Downtown Hospital , Dispur, Ghy-6
181	Aashina Apartment, Vip Road Chachal ,Ghy-22
182	Protect View Hengrabari, Guwahati -6
183	Dolphin Enclave, Supermarket Kalpataru Path, Ghy -6 Near Gnrc Hospital
184	Surya Enclave , Dispur Wireless Road Near Indian Petrol Pump
185	Jayanta Enclave, VIP Sosol Path Near Petrol Pump , Ghy -22
186	Avinav Apartment' VIP, Sosol Path, Ghy -22
187	Akankhya Mension, Shiv Mandir Path G.S Road Khanapara, Ghy -22
188	Vinayak Apartment , Firm Gate, G.S Road , Khanapara , Ghy -22
189	Kaveri Apartment, Panjabari, Six Mile, Juripar Path Near Purabi Company, Ghy -37
190	Manjushree Apartment, Dwarandha, Panjabari, Ghy -37
191	Royal Heritage, Radha Nagar Path, Ghy-38
192	K.B..Enclave, Fakaruddin Ali Ahmed Nagar Panjabari Road, Guwahati -37
193	Prestige Tower , Fakaruddin Ali Ahmed Nagar Panjabari Road, Guwahati -37
194	Nirmada Enclave, Six Mile Near NRL Petrol Pump ,Jaya Nagar, Ghy -22
195	Manisha Apartment , Ward No -51, Ghy -22
196	Hemalata Heritage, Near Catholic Church
197	Ivy Enclave, Near Gokul Path, Bye Lane No -9

Annexure V Photo Gallery



Annexure V
Photo Gallery



Annexure V
Photo Gallery



ARE YOU EARTHQUAKE

READY ?

WHEN AN EARTHQUAKE STRIKES ... KNOW WHAT TO DO

Drop



Cover



Hold



DROP to the Floor, Take **COVER** under a sturdy desk/table. **HOLD** on to it so that it doesn't move away. Wait there until shaking stops.



Do Not use lift or elevators.



Do not panic



Move away from the power lines, posts, walls, false ceiling, and other elements that may fall or collapse



Keep away from glass door and windows. if they break during the shake, they may hurt



If you are in a hilly area watch out for falling rocks or landslides



Do not drive over/under the flyovers and bridges.



If driving, park your car at the side of the road, away from power lines. Stay in with the safety belts on.