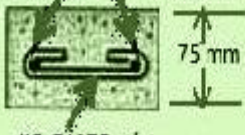
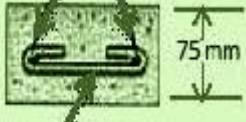

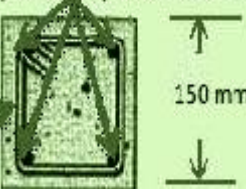






ZONE V

| | MAXIMUM HEIGHT | MORTAR MIX | BANDS | VERTICAL REINFORCEMENT | DIAMETER OF VERTICAL REINFORCEMENT | MORTAR MIX FOR BAND / VERTICAL REINFORCEMENT | BRACING OF PITCHED ROOF |
|---|------------------------------|---|--|---|---|--|-------------------------|
| Building with Strip Foundation on Rock/ Hard Soil/Medium soil | Four Storey (Less than 15 m) | 1:4 Cement-Sand or 1:1:6 Cement-Lime-Sand | 1. Lintel Band 2. Roof Band/ Gable Band 3. Plinth Band | 1. At Joints and Corners 2. At Jambs of Openings | Single Bar of 20mm (TMT/TOR) or 25mm (MS) | 1:3 Cement-Sand or M 15 Concrete | Bracing at Tie Level |
| Building with Strip Foundation on Soft soil | Four Storey (Less than 15 m) | 1:4 Cement-Sand or 1:1:6 Cement-Lime-Sand | 1. Lintel Band 2. Roof Band/ Gable Band 3. Plinth Band | 1. At Joints and corners 2. At Jambs of Openings | Single Bar of 20mm (TMT/TOR) or 25mm (MS) | 1:3 Cement-Sand or M 15 Concrete | Bracing at Tie Level |

Details of Horizontal Bands in Masonry Building (Buildings with Strip foundation on Rock/Hard Soil/Medium Soil)

| Zone | Span of Wall | | | |
|------|---|--|---|--|
| | 5 m or less | 6m | 7m | 8m |
| | <p>2#8 (TMT/TOR) or 2 Ø 10 MS</p>  <p>#6 @ 150 c/c</p> | <p>2#10 (TMT/TOR) or 2 Ø 12 MS</p>  <p>#6 @ 150 c/c</p> | <p>2#12 (TMT/TOR) or 2 Ø 16 MS</p>  <p>#6 @ 150 c/c</p> | <p>4#10 (TMT/TOR) or 4 Ø 12 MS</p>  <p>#6 @ 150 c/c</p> |

Details of Horizontal Bands in Masonry Building (Buildings with Strip foundation on Soft Soil)

| Zone | Span of Wall | | | |
|------|---|---|---|--|
| | 5 m or less | 6m | 7m | 8m |
| | <p>2#8 (TMT/TOR) or 2 Ø 12 MS</p>  <p>#6 @ 150 c/c</p> | <p>2#8 (TMT/TOR) or 2 Ø 16 MS</p>  <p>#6 @ 150 c/c</p> | <p>1#10 (TMT/TOR) or 1 Ø 12 MS</p>  <p>#6 @ 150 c/c</p> | <p>4#10 (TMT/TOR) or 4 Ø 12 MS</p>  <p>#6 @ 150 c/c</p> |

Z factor : 0.36

DISTRICTS LYING IN EARTHQUAKE HAZARD ZONE V
(based on the Vulnerability Atlas of India – 2nd Edition, BMTPC)

| | |
|--------------------------------------|--|
| ANDAMAN & NICOBAR ISLANDS | Andamans, Nicobars (2) |
| ANDHRA PRADESH | |
| ARUNACHAL PRADESH | Lower-Subansiri, Tawang, Tirap, Upper-Siang, Upper-Subansiri, Changlang, Dibang-Valley, East-Kameng, East-Siang, Lohit, Papum-Pare, West-Kameng, West-Siang (13) |
| ASSAM | Dhubri, Cachar, Hailakandi, Karimganj, North-Cachar-Hills, Barpeta, Bongaigaon, Darrang, Upper-Dhemaji, Dibrugarh, Goalpara, Golaghat, Jorhat, Kamrup, Karbi-Anglong, Kokrajhar, Lakhimpur, Marigaon, Nagaon, Nalbari, Sibsagar, Sonitpur, Tinsukia (23) |
| BIHAR | Araria, Darbhanga, Kishanganj, Madhepura, Madhubani, Purnia, Saharsa, Sitamarhi, Supaul, Muzaffarpur (10) |
| CHANDIGARH | |
| CHATTISGARH | |
| DADRA AND NAGAR HAVELI | |
| DAMAN & DIU | |
| DELHI | |
| GOA | |
| GUJARAT | Kachchh (1) |

| | |
|----------------------------|--|
| HARYANA | |
| HIMACHAL PRADESH | Solan, Una, Bilaspur, Chamba, Hamirpur, Kangra, Kullu, Mandi (8) |
| JAMMU & KASHMIR | Anantanag, Baramula, Pulwama, Srinagar; Badgam, Kathua, Kupwara, (7) |
| JHARKHAND | |
| KARNATAKA | |
| KERALA | |
| LAKSHADWEEP | |
| MADHYA PRADESH | |
| MAHARASHTRA | |
| MANIPUR | Bishnupur, Chandel, Imphal-East, Thoubal, Ukhrul, Churachandpur, Imphal-West, Tamenglong, Senapati (9) |
| MEGHALAYA | Jaintia-Hills, East-Garo-Hills, East-Khasi-Hills, Ri- Bhoi, South-Garo-Hills, West-Garo-Hills, West-Khasi-Hills (7) |
| MIZORAM | Aizawl, Champai, Kolasib, Lawngtlai, Lunglei, Mamit, Saiha, Serchhip (8) |
| NAGALAND | Phek, Zunheboto, Dimapur, Kohima, Mokokchung, Mon, Tuensang, Wokha (8) |
| ORISSA | |
| PONDICHERRY | |
| PUNJAB | |
| RAJASTHAN | |
| SIKKIM | |
| TAMILNADU | |
| TRIPURA | Dhalai, North-Tripura, South-Tripura, West-Tripura (4) |
| UTTAR PRADESH | |
| UTTARANCHAL | Almora, Bageshwar, Chamoli, Pithoragarh, Rudraprayag, Tehri-Garhwal Uttarkashi, Garhwal (8) |
| WEST BENGAL | Jalpaiguri, Koch-Bihar (2) |
| Total | 108 |