

नगरसेना, अग्निशमन एवं आपातकालीन सेवाएँ तथा एसडीआरएफ,
मुख्यालय छत्तीसगढ़
सेक्टर-19, नवा रायपुर अटल नगर
—ज्ञापन—

क्रमांक/ 144 / फायरसर्विस/नियम 2021/2023 नवा रायपुर, दिनांक-12-04-2023
प्रति,

1- सचिव,
छ0ग0 शासन,
लोक स्वास्थ्य, परिवार कल्याण एवं चिकित्सा शिक्षा विभाग
मंत्रालय नवा रायपुर ।

2- संचालक,
स्वास्थ्य एवं परिवार कल्याण विभाग
नवा रायपुर छ.ग.।

विषय:- छत्तीसगढ़ अग्निशमन एवं आपातकालीन सेवा अधिनियम 2018 की धारा 14 (1) एवं 14(2) द्वारा जारी अधिसूचना अनुसार जानकारी ग्रहण करने एवं अधीनस्थ कार्यालयों को सूचित करने के संबंध में ।

सन्दर्भ:- छत्तीसगढ़ राजपत्र (असाधारण) क्रमांक 714 दिनांक 13 दिसम्बर 2022

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कृपया संदर्भित संलग्न अधिसूचना का अवलोकन हो। उक्त अधिसूचना में परिसरों, भवनों, अधिवासों एवं पंडालों को विभिन्न वर्गों में वर्गीकृत किया गया है। उक्त वर्गीकरण इन संस्थानों में आग लगने के जोखिम के स्तर के आधार पर किया गया है। इस प्रकार धारा 14 (1) के अंतर्गत वर्गीकृत संस्थानों को आग लगने की संभावना के सर्वोच्च स्तर पर होने के कारण छत्तीसगढ़ अग्निशमन एवं आपातकालीन सेवाएँ 2021 के नियम 35 के अंतर्गत अग्निसुरक्षा प्रमाण-पत्र (एनओसी) लेना अनिवार्य किया गया है। आग लगने के जोखिम से निचले स्तर पर वर्गीकृत होने के कारण अन्य भवनों, परिसरों को अग्निसुरक्षा प्रमाण-पत्र या फायर अनापत्ति प्रमाण-पत्र लेने की बाध्यता से मुक्त रखा गया है। इसी संदर्भ में भारत के राष्ट्रीय भवन संहिता-2016 भाग-4 (NBC) की टेबल 07 का अवलोकन हों, जिसके अनुसार स्वास्थ्य विभाग के अंतर्गत आने वाले विभिन्न परिसर, भवन, संस्थान यथा क्लीनिक, पैथालॉजी, प्रयोगशाला एवं कलेक्शन सेन्टर इत्यादि, बिजनेस बिल्डिंग एवं नर्सिंग होम, अस्पताल आदि संस्थागत भवन (इंस्टीट्यूशनल बिल्डिंग) के अंतर्गत वर्गीकृत किया गया है।

कृपया प्रदेश में उपरोक्त अधिसूचना एवं भारत के राष्ट्रीय भवन संहिता-2016 भाग-4 (NBC) की टेबल-7 (छायाप्रति संलग्न) में सुसंगत प्रावधानों के तहत कार्यवाही हेतु सभी संस्थानों को अवगत कराने हेतु अनुरोध है।

संलग्न:- अधिसूचना एवं भारत के राष्ट्रीय भवन संहिता-2016 भाग-4 की छायाप्रति

[Signature]
अति. महानिदेशक

नगरसेना, अग्निशमन एवं आपातकालीन सेवाएँ
तथा एसडीआरएफ, छत्तीसगढ़
नवा रायपुर, दिनांक- 04-2023

पृ0 क्रमांक/ / फायरसर्विस/नियम 2021/2023
प्रतिलिपि :-

प्रमुख सचिव, छ0ग0 शासन, गृह विभाग, मंत्रालय नवा रायपुर की ओर सूचनार्थ।

अति. महानिदेशक

नगरसेना, अग्निशमन एवं आपातकालीन सेवाएँ
तथा एसडीआरएफ, छत्तीसगढ़



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17-4-23

“बिजनेस पोस्ट के अन्तर्गत डाक शुल्क के नगद भुगतान (बिना डाक टिकट) के प्रेषण हेतु अनुमत. क्रमांक जी.2-22-छत्तीसगढ़ गजट / 38 सि. से. भिलाई. दिनांक 30-05-2001.”



पंजीयन क्रमांक
“छत्तीसगढ़/दुर्ग/09/2013-2015.”

छत्तीसगढ़ राजपत्र

(असाधारण)
प्राधिकार से प्रकाशित

क्रमांक 714]

रायपुर, मंगलवार, दिनांक 13 दिसम्बर 2022 — अग्रहायण 22, शक 1944

गृह विभाग

मंत्रालय, महानदी भवन, नवा रायपुर अटल नगर

अटल नगर, दिनांक 29 नवम्बर 2022

अधिसूचना

क्रमांक एफ 13-24/दो-गृह/न.से./2017.— छत्तीसगढ़ अग्निशमन एवं आपातकालीन सेवा अधिनियम, 2018(क्र. 19 सन् 2018) की धारा 14 की उप-धारा (1) द्वारा प्रदत्त शक्तियों को प्रयोग में लाते हुए, छत्तीसगढ़ के राज्यपाल, एतद्वारा, निम्नलिखित श्रेणी के परिसरों या भवनों या अधिवासों और पंडालों को आग लगने के जोखिम की संभावना होने की घोषणा करते हैं, अर्थात्:-

1. 50 व्यक्तियों से अधिक बैठने की क्षमता वाला या 50 वर्ग मीटर से अधिक का आच्छादित क्षेत्रफल वाला पंडाल।
2. आवासीय भवन (होटल और गेस्ट हाउस के अलावा) जिनकी ऊंचाई 15 मीटर से अधिक हो या जो भूतल एवं चार ऊपरी मंजिल वाला हो, जिनमें मेजनाइन फ्लोर भी शामिल है।
3. होटल, लॉजिंग और गेस्ट हाउस, —
(एक) जिसकी ऊंचाई 12 मीटर या उससे अधिक हो; या
(दो) जिसका 500 वर्ग मीटर या उससे अधिक का निर्मित क्षेत्रफल हो; या
(तीन) तीन सितारा या उससे ऊपर की श्रेणियों वाले हो; या
(चार) जिनमें सभा स्थल हो, जैसे सभागार, कन्वेंशन हॉल, असेंबली हॉल, मनोरंजन हॉल आदि, जिनकी किसी भी एक या अधिक मंजिलों पर 500 वर्गमीटर या अधिक का निर्मित क्षेत्रफल हो और जहां लोग मनोरंजन, मनोविनोद, क्रीडा, सामाजिक, धार्मिक और इसी तरह के अन्य उद्देश्य के लिए इकट्ठा या एकत्र होते हो।
4. शैक्षणिक भवन, जिनकी ऊंचाई 9 मीटर से अधिक या भूतल एवं दो ऊपरी मंजिल वाले हों जिसमें मेजनाइन फ्लोर भी शामिल है या 1000 वर्गमीटर या उससे अधिक के निर्मित क्षेत्र वाले हों।
5. संस्थागत भवन, जिनकी ऊंचाई 9 मीटर से अधिक हो या जिनमें भूतल एवं दो ऊपरी मंजिलें हों या 30 से अधिक बिस्तर वाले; या जिनमें कोई किटिकल केयर यूनिट हो।
6. भारत की राष्ट्रीय भवन संहिता, 2016 भाग-4 में परिभाषित सभी सभा भवन (मैरेज हॉल सहित)।

7. व्यवसाय या कार्यालय भवन,—
(एक) जिनकी ऊंचाई बारह मीटर या उससे अधिक है; या
(दो) जिनका 500 वर्गमीटर या उससे अधिक निर्मित क्षेत्रफल है।
8. व्यापारिक भवन, जिनकी ऊंचाई 9 मीटर से अधिक या 500 वर्गमीटर और उससे अधिक का निर्मित क्षेत्रफल हो और सभी भूमिगत संरचनाएं।
9. समस्त औद्योगिक भवन।
10. भण्डारण भवन, जिनकी सभी मंजिलों पर 250 वर्गमीटर से अधिक आच्छादित क्षेत्रफल हो।
11. स्वास्थ्य/सुरक्षा की दृष्टि से सभी खतरनाक (हैजर्डस) भवन।
12. समस्त भूमिगत संरचनाएं।

छत्तीसगढ़ के राज्यपाल के नाम से तथा आदेशानुसार,
एफ.केरकेट्टा, उप-सचिव.

Atal Nagar, the 29th November 2022

NOTIFICATION

No. F-13-24/Two-Home/HomeGard/2017.— In exercise of the powers conferred by sub-section (1) of Section 14 of the Chhattisgarh Fire and Emergency Service Act, 2018 (No. 19 of 2018), the Government of Chhattisgarh, hereby, declares, the following class of premises or buildings or occupancies and pandals, likely to cause risk of fire, namely:-

1. Pandal having seating capacity more than 50 persons or covered area more than 50 square meters.
2. Residential buildings (other than hotels and guest houses) having height more than 15 meters or having ground plus four upper stories including mezzanine floor.
3. Hotels, Lodgings and Guest Houses,-
(i) having height of 12 meters or above; or
(ii) having a built-up area of 500 square meters or above; or
(iii) three star or above categories; or
(iv) having places of assembly like Auditoria, Convention Halls, Assembly Halls, Recreation Halls etc. of built-up area of 500 square meters and above on any one or more floors, where people gather or congregate for amusement, recreation, sports, social, religious and similar other purposes.
4. Educational buildings having height more than 9 meters or having ground plus two upper stories including mezzanine floor or having built-up area of 1000 square meters, or more.
5. Institutional buildings having height more than 9 meters or having ground plus two upper stories; or having more than 30 beds; or having any critical care unit.
6. All Assembly buildings as defined in Part-IV of the National Building Code of India, 2016 (including marriage halls).
7. Business or office buildings,-
(i) having height of 12 meters or above; or
(ii) having a built-up area of 500 square meters or above;
8. Mercantile buildings having height more than 9 meters or having a built-up area of 500 square meters and above and all underground structures.
9. All Industrial buildings.

10. Storage buildings having covered area on all floors more than 250 square meters.
11. In view of Health/Security all Hazardous buildings.
12. All underground structures.

By order and in the name of the Governor of Chhattisgarh,
F. KERKETTA, Deputy Secretary.

अटल नगर, दिनांक 29 नवम्बर 2022

अधिसूचना

क्रमांक एफ 13-24/दो-गृह/न.से./2017.— छत्तीसगढ़ अग्निशमन एवं आपातकालीन सेवा अधिनियम, 2018 (क्र. 19 सन् 2018) की धारा 14 की उप-धारा (2) द्वारा प्रदत्त शक्तियों को प्रयोग में लाते हुए, छत्तीसगढ़ के राज्यपाल, एतद्वारा, अधोलिखित तालिका के कॉलम (2) में वर्णित निम्नलिखित परिसरों या भवनों या अधिवासों के मालिकों या कब्जाधारियों या दोनों या पण्डालों को स्थापित करने वाले से, कॉलम संख्या (3) में उल्लिखित अग्नि रोकथाम और अग्निसुरक्षा उपायों के लिए अपेक्षित करते हैं, अर्थात्—

स.क्र.	परिसर या भवनों या अधिभोगियों की श्रेणी	अग्नि रोकथाम और अग्निसुरक्षा उपायों के लिए निर्धारित पूर्वापाय
1	50 व्यक्तियों से अधिक बैठने की क्षमता वाला या 50 वर्ग मीटर से अधिक का आच्छादित क्षेत्रफल वाला पंडाल।	संबंधित वर्ग के लिए, जैसा कि भारत के राष्ट्रीय भवन संहिता, 2016 के भाग-4 में उल्लेख किया गया है के साथ-साथ छत्तीसगढ़ अग्निशमन एवं आपातकालीन सेवा नियम, 2021 के नियम 32 के उप-नियम (1) में वर्णित तत्वों के संदर्भ अनुसार और नियम 35 के अनुरूप।
2	आवासीय भवन (होटल और गेस्ट हाउस के अलावा) जिनकी ऊंचाई 15 मीटर से अधिक हो या जो भू-तल एवं चार ऊपरी मंजिल वाले हो, जिनमें मेजनाइन भी शामिल है।	संबंधित वर्ग के लिए, जैसा कि भारत के राष्ट्रीय भवन संहिता, 2016 के भाग-4 में उल्लेख किया गया है के साथ-साथ छत्तीसगढ़ अग्निशमन एवं आपातकालीन सेवा नियम, 2021 के नियम 32 के उप-नियम (1) में वर्णित तत्वों के संदर्भ अनुसार और नियम 35 के अनुरूप।
3	होटल, लॉजिंग और गेस्ट हाउस—जिनकी 12 मीटर या उससे अधिक की ऊंचाई या 500 वर्गमीटर या उससे अधिक का निर्मित क्षेत्रफल हो या तीन सितारा या उससे ऊपर की श्रेणियों वाले या 500 वर्गमीटर या उससे अधिक के तल क्षेत्रफल वाले सभा स्थान हो।	संबंधित वर्ग के लिए, जैसा कि भारत के राष्ट्रीय भवन संहिता, 2016 के भाग-4 में उल्लेख किया गया है के साथ-साथ छत्तीसगढ़ अग्निशमन एवं आपातकालीन सेवा नियम, 2021 के नियम 32 के उप-नियम (1) में वर्णित तत्वों के संदर्भ अनुसार और नियम 35 के अनुरूप।
4	शैक्षणिक भवन, जिनकी ऊंचाई 9 मीटर से अधिक या भू-तल एवं दो ऊपरी मंजिलें वाले हों या 1000 वर्गमीटर या उससे अधिक का निर्मित क्षेत्र वाले हों।	संबंधित वर्ग के लिए, जैसा कि भारत के राष्ट्रीय भवन संहिता, 2016 के भाग-4 में उल्लेख किया गया है के साथ-साथ छत्तीसगढ़ अग्निशमन एवं आपातकालीन सेवा नियम, 2021 के नियम 32 के उप-नियम (1) में वर्णित तत्वों के संदर्भ अनुसार और नियम 35 के अनुरूप। परन्तु जनवरी, 2017 से पूर्व निर्मित इकाईयों को भूमिगत टैंक और पंप हाउस से छूट रहेगी, यदि वे अग्निशमन हेतु जल संसाधन को बढ़ाने के लिए कुछ और व्यवस्था स्थापित कर लें।
5	संस्थागत भवन, जिनकी ऊंचाई 9 मीटर से अधिक हो या जिनमें भू-तल एवं दो ऊपरी मंजिलें हों, या 30 से अधिक बिस्तर वाले, या जिनमें कोई किटिकल केयर यूनिट हो।	संबंधित वर्ग के लिए, जैसा कि भारत के राष्ट्रीय भवन संहिता, 2016 के भाग-4 में उल्लेख किया गया है के साथ-साथ छत्तीसगढ़ अग्निशमन एवं आपातकालीन सेवा नियम, 2021 के नियम 32 के उप-नियम (1) में वर्णित तत्वों के संदर्भ अनुसार और नियम 35 के अनुरूप।
6	भारत की राष्ट्रीय भवन संहिता, 2016 द्वारा यथापरिभाषित सभी सभा भवन (मैरेज हॉल सहित)।	संबंधित वर्ग के लिए, जैसा कि भारत के राष्ट्रीय भवन संहिता, 2016 के भाग-4 में उल्लेख किया गया है के साथ-साथ छत्तीसगढ़ अग्निशमन एवं आपातकालीन सेवा

		नियम, 2021 के नियम 32 के उप-नियम (1) में वर्णित तत्वों के संदर्भ अनुसार और नियम 35 के अनुरूप।
7	व्यवसाय या कार्यालय भवन,— (एक) जिनकी ऊंचाई 12 मीटर और उससे अधिक है; या निर्मित क्षेत्रफल है; (दो) जिनका 500 वर्गमीटर या उससे अधिक का निर्मित क्षेत्रफल है।	संबंधित वर्ग के लिए, जैसा कि भारत के राष्ट्रीय भवन संहिता, 2016 के भाग-4 में उल्लेख किया गया है के साथ-साथ छत्तीसगढ़ अग्निशमन एवं आपातकालीन सेवा नियम, 2021 के नियम 32 के उप-नियम (1) में वर्णित तत्वों के संदर्भ अनुसार और नियम 35 के अनुरूप।
8	व्यापारिक भवन, जिनकी ऊंचाई 9 मीटर से अधिक या 500 वर्गमीटर और उससे अधिक का निर्मित क्षेत्रफल हो	संबंधित वर्ग के लिए, जैसा कि भारत के राष्ट्रीय भवन संहिता, 2016 के भाग-4 में उल्लेख किया गया है के साथ-साथ छत्तीसगढ़ अग्निशमन एवं आपातकालीन सेवा नियम, 2021 के नियम 32 के उप-नियम (1) में वर्णित तत्वों के संदर्भ अनुसार और नियम 35 के अनुरूप।
9	समस्त औद्योगिक भवन।	संबंधित वर्ग के लिए, जैसा कि भारत के राष्ट्रीय भवन संहिता, 2016 के भाग-4 में उल्लेख किया गया है के साथ-साथ छत्तीसगढ़ अग्निशमन एवं आपातकालीन सेवा नियम, 2021 के नियम 32 के उप-नियम (1) में वर्णित तत्वों के संदर्भ अनुसार और नियम 35 के अनुरूप।
10	सभी मंजिलों पर 250 वर्गमीटर से अधिक आच्छादित क्षेत्रफल वाले भण्डारण भवन।	संबंधित वर्ग के लिए, जैसा कि भारत के राष्ट्रीय भवन संहिता, 2016 के भाग-4 में उल्लेख किया गया है के साथ-साथ छत्तीसगढ़ अग्निशमन एवं आपातकालीन सेवा नियम, 2021 के नियम 32 के उप-नियम (1) में वर्णित तत्वों के संदर्भ अनुसार और नियम 35 के अनुरूप।
11	स्वास्थ्य/सुरक्षा की दृष्टि से सभी खतरनाक (हैजर्डस) भवन।	संबंधित वर्ग के लिए, जैसा कि भारत के राष्ट्रीय भवन संहिता, 2016 के भाग-4 में उल्लेख किया गया है के साथ-साथ छत्तीसगढ़ अग्निशमन एवं आपातकालीन सेवा नियम, 2021 के नियम 32 के उप-नियम (1) में वर्णित तत्वों के संदर्भ अनुसार और नियम 35 के अनुरूप।
12	समस्त भूमिगत संरचनाएं।	संबंधित वर्ग के लिए, जैसा कि भारत के राष्ट्रीय भवन संहिता, 2016 के भाग-4 में उल्लेख किया गया है के साथ-साथ छत्तीसगढ़ अग्निशमन एवं आपातकालीन सेवा नियम, 2021 के नियम 32 के उप-नियम (1) में वर्णित तत्वों के संदर्भ अनुसार और नियम 35 के अनुरूप।

छत्तीसगढ़ के राज्यपाल के नाम से तथा आदेशानुसार,
एफ.केरकेट्टा, उप-सचिव.

अटल नगर, दिनांक 29 नवम्बर 2022

क्रमांक एफ 13-24/दो-गृह/न.से./2017.— भारत के संविधान के अनुच्छेद 348 के खण्ड (3) के अनुसरण में इस विभाग की समसंख्यक अधिसूचना दिनांक 29-11-2022 का अंग्रेजी अनुवाद छत्तीसगढ़ के राज्यपाल के प्राधिकार से एतद्वारा प्रकाशित किया जाता है।

छत्तीसगढ़ के राज्यपाल के नाम से तथा आदेशानुसार,
एफ.केरकेट्टा, उप-सचिव.

Atal Nagar, the 29th November 2022

NOTIFICATION

No. F-13-24/Two-Home/HomeGard/2021.—In exercise of the powers conferred by sub-section (2) of Section 14 of the Chhattisgarh Fire and Emergency Service Act, 2018 (No. 19 of 2018), the Government of Chhattisgarh, hereby, requires the owners or occupiers or both or erector of Pandals of the following premises or buildings or occupancies, mentioned in column (2) to take precautions for fire prevention and fire safety measures mentioned in column (3) of the Table below, namely:-

TABLE

S. No.	Class of premises or buildings or occupancies	Precautions for fire prevention and fire safety measures to be taken
(1)	(2)	(3)
1.	Pandal having seating capacity more than 50 persons or covered area more than 50 square meters.	As mentioned in Part 4 of the National Building Code of India, 2016, for the class concerned, with reference to elements mentioned in sub-rule (1) of rule 32 and conforming to rule 35 in the rules for the Chhattisgarh Fire and Emergency Service Rules, 2021.
2.	Residential buildings (other than hotels and guest houses) having height more than 15 meters or having ground plus four upper stories including mezzanine floor.	As mentioned in Part 4 of the National Building Code of India, 2016, for the class concerned, with reference to elements mentioned in sub-rule (1) of rule 32 and conforming to rule 35 in the rules for the Chhattisgarh Fire and Emergency Service Rules, 2021.
3.	Hotels, lodgings and guest houses having height of 12 meters or above or having a built-up area of 500 square meters or above; or of three star or above categories; or having a place of assembly of floor area 500 square meter or above.	As mentioned in Part 4 of the National Building Code of India, 2016, for the class concerned, with reference to elements mentioned in sub-rule (1) of rule 32 and conforming to rule 35 in the rules for the Chhattisgarh Fire and Emergency Service Rules, 2021.
4.	Educational buildings having height more than 9 meters or having ground plus two upper stories or having built up area of 1000 square meter or more.	As mentioned in Part 4 of the National Building Code of India, 2016, for the class concerned, with reference to elements mentioned in sub-rule (1) of rule 32 and conforming to rule 35 in the rules for the Chhattisgarh Fire and Emergency Service Rules, 2021. But units made before 1st January, 2017 be exempted from underground tank and pump house, if they make some more arrangements to increase the water resource for fire prevention.
5.	Institutional buildings having height more than 9 meters or having ground plus two upper stories; or having more than 30 beds; or having any critical care unit,	As mentioned in Part 4 of the National Building Code of India, 2016, for the class concerned, with reference to elements mentioned in sub-rule (1) of rule 32 and conforming to rule 35 in the rules for the Chhattisgarh Fire and Emergency Service Rules, 2021.
6.	All Assembly buildings as defined by the National Building Code of India, 2016 (including marriage halls)	As mentioned in Part 4 of the National Building Code of India, 2016, for the class concerned, with reference to elements mentioned in sub-rule (1) of rule 32 and conforming to rule 35 in the rules for the Chhattisgarh Fire and Emergency Service Rules, 2021.
7.	Business or office buildings,- (i) having a height of 12 meters and above; or built-up area; (ii) having a built-up area of 500 square meters or above.	As mentioned in Part 4 of the National Building Code of India, 2016, for the class concerned, with reference to elements mentioned in sub-rule (1) of rule 32 and conforming to rule 35 in the rules for the Chhattisgarh Fire and Emergency Service Rules, 2021.
8.	Mercantile buildings having height more	As mentioned in Part 4 of the National Building

	than 9 meters or having a built-up area of 500 square meters and above and All underground structures.	Code of India, 2016, for the class concerned, with reference to elements mentioned in sub-rule (1) of rule 32 and conforming to rule 35 in the rules for the Chhattisgarh Fire and Emergency Service Rules, 2021.
9.	All Industrial buildings	As mentioned in Part 4 of the National Building Code of India, 2016, for the class concerned, with reference to elements mentioned in sub-rule (1) of rule 32 and conforming to rule 35 in the rules for the Chhattisgarh Fire and Emergency Service Rules, 2021.
10.	Storage buildings having covered area on all floors more than 250 square meters.	As mentioned in Part 4 of the National Building Code of India, 2016, for the class concerned, with reference to elements mentioned in sub-rule (1) of rule 32 and conforming to rule 35 in the rules for the Chhattisgarh Fire and Emergency Service Rules, 2021.
11.	In view of Health/Security all Hazardous buildings.	As mentioned in Part 4 of the National Building Code of India, 2016, for the class concerned, with reference to elements mentioned in sub-rule (1) of rule 32 and conforming to rule 35 in the rules for the Chhattisgarh Fire and Emergency Service Rules, 2021.
12.	All Underground Structures.	As mentioned in Part 4 of the National Building Code of India, 2016, for the class concerned, with reference to elements mentioned in sub-rule (1) of rule 32 and conforming to rule 35 in the rules for the Chhattisgarh Fire and Emergency Service Rules, 2021.

By order and in the name of the Governor of Chhattisgarh,
F. KERKETTA, Deputy Secretary.

occupancy in one of the following groups:

Group A	Residential
Group B	Educational
Group C	Institutional
Group D	Assembly
Group E	Business
Group F	Mercantile
Group G	Industrial
Group H	Storage
Group J	Hazardous

The details of each occupancy and example of buildings in each group are given in 3.1.2 to 3.1.10.

3.1.1.1 Minor occupancy

This is purely incidental to operations in a main occupancy, which shall be considered as part of the main occupancy and shall be classified under the relevant group for the main occupancy.

3.1.1.2 Mixed occupancy

Where two or more types of occupancies intermingle in the same building, the entire building shall be treated as mixed occupancy and the same shall comply with 3.1.12.

3.1.2 Group A Residential Buildings

These shall include any building in which sleeping accommodation is provided for normal residential purposes with or without cooking or dining or both facilities, except any building classified under Group C.

Buildings and structures under Group A shall be further subdivided as follows:

Subdivision A-1	Lodging and rooming houses
Subdivision A-2	One or two family private dwellings
Subdivision A-3	Dormitories
Subdivision A-4	Apartment houses
Subdivision A-5	Hotels
Subdivision A-6	Starred hotels

- a) *Subdivision A-1 Lodging and rooming houses* — These shall include any building or group of buildings under the same management, in which separate sleeping accommodation on transient or permanent basis, with or without dining facilities but without cooking facilities for individuals is provided. This includes inns, clubs, motels and guest houses.

NOTE — A lodging or rooming house shall be classified as a dwelling in Subdivision A-2, if no room in any of its private dwelling units is rented to more than three persons.

- b) *Subdivision A-2 One or two family private dwellings* — These shall include any private dwelling, which is occupied by members of one or two families and has a total sleeping accommodation for not more than 20 persons.

If rooms in a private dwelling are rented to outsiders, these shall be for accommodating not more than three persons per room.

If sleeping accommodation for more than 20 persons is provided in any one residential building, it shall be classified as a building in Subdivision A-1 or Subdivision A-4 as the case may be.

- c) *Subdivision A-3 Dormitories* — These shall include any building in which group sleeping accommodation is provided, with or without dining facilities for persons who are not members of the same family, in one room or a series of closely associated rooms under joint occupancy and single management, for example, school and college dormitories, students, and other hostels and military barracks.
- d) *Subdivision A-4 Apartment houses* — These shall include any building or structure in which living quarters are provided for three or more families, living independently of each other and with independent cooking facilities, for example, apartment houses, mansions and *Chawls*.
- e) *Subdivision A-5 Hotels* — These shall include any building or group of buildings under single management, in which sleeping accommodation is provided, with or without dining facilities for hotels classified up to Four Star Category.
- f) *Subdivision A-6 Starred hotels* — These shall include the hotels duly approved by the concerned authorities as Five Star and above hotels.

3.1.3 Group B Educational Buildings

These shall include any building used for school, college, other training institutions involving assembly for instruction, education or recreation for not less than 20 students.

Buildings and structures under Group B shall be further subdivided as follows:

- | | |
|-----------------|--------------------------------------|
| Subdivision B-1 | Schools up to senior secondary level |
| Subdivision B-2 | All others/training institutions |
- a) *Subdivision B-1 Schools up to senior secondary level* — This subdivision shall

include any building or a group of buildings under single management which is used for students not less than 20 in number.

- b) *Subdivision B-2 All others/training institutions* — This subdivision shall include any building or a group of buildings under single management which is used for students not less than 100 in number.

In the case of temporary buildings/structures which are utilized for educational purposes, the provisions of 3.2.5.3 shall apply.

If residential accommodation is provided in the schools/institutions that portion of occupancy shall be classified as a building in Subdivision A-3.

3.1.4 Group C Institutional Buildings

These shall include any building or part thereof, which is used for purposes, such as medical or other treatment or care of persons suffering from physical or mental illness, disease or infirmity; care of infants, convalescents or aged persons and for penal or correctional detention in which the liberty of the inmates is restricted. Institutional buildings ordinarily provide sleeping accommodation for the occupants.

Buildings and structures under Group C shall be further subdivided as follows:

- Subdivision C-1 Hospitals and sanatoria
- Subdivision C-2 Custodial institutions
- Subdivision C-3 Penal and mental institutions

- a) *Subdivision C-1 Hospitals and sanatoria* — This subdivision shall include any building or a group of buildings under single management, which is used for housing persons suffering from physical limitations because of health or age and those incapable of self-preservation, for example, hospitals, infirmaries, sanatoria and nursing homes.
- b) *Subdivision C-2 Custodial institutions* — This subdivision shall include any building or a group of buildings under single management, which is used for the custody and care of persons, such as children, convalescents and the aged who are incapable of self-preservation, for example, homes for the aged and infirm, convalescent homes and orphanages.
- c) *Subdivision C-3 Penal and mental institutions* — This subdivision shall include any building or a group of buildings under single management, which is used for housing persons under restraint, or who are detained for penal or corrective purposes, in which the liberty of the inmates is restricted, for

example, jails, prisons, mental hospitals, mental sanatoria and reformatories.

3.1.5 Group D Assembly Buildings

These shall include any building or part of a building, where not less than 50 persons congregate or gather for amusement, recreation, social, religious, patriotic, civil, travel and similar purposes, for example, theatres; motion picture houses; assembly halls; auditoria; exhibition halls; museums; skating rinks; gymnasiums; restaurants; places of worship; dance halls; club rooms; passenger stations and terminals of air, surface and marine public transportation services; and stadia.

Buildings under Group D shall be further subdivided as follows:

- Subdivision D-1 Buildings having a theatrical or motion picture or any other stage and fixed seats for over 1 000 persons
 - Subdivision D-2 Buildings having a theatrical or motion picture or any other stage and fixed seats up to 1 000 persons
 - Subdivision D-3 Buildings without a permanent stage having accommodation for 300 or more persons but no permanent seating arrangement
 - Subdivision D-4 Buildings without a permanent stage having accommodation for less than 300 persons with no permanent seating arrangement
 - Subdivision D-5 All other structures including temporary structures designed for assembly of people not covered by Subdivisions D-1 to D-4, at ground level
 - Subdivision D-6 Buildings having mixed occupancies of assembly and mercantile (for example, shopping malls providing facilities such as shopping, cinema theatres, multiplexes and restaurants/food courts)
 - Subdivision D-7 Underground and elevated mass rapid transit system
- a) *Subdivision D-1* — This subdivision shall include any building primarily meant for theatrical or operatic performances and which has a stage, proscenium curtain, fixed or portable scenery or scenery loft, lights, mechanical appliances or other theatrical

accessories and equipment for example, theatres, motion picture houses, auditoria, concert halls, television and radio studios admitting an audience and which are provided with fixed seats for over 1 000 persons.

- b) *Subdivision D-2* — This subdivision shall include any building primarily meant for use as described for Subdivision D-1, but with fixed seats up to 1 000 persons.
- c) *Subdivision D-3* — This subdivision shall include any building, its lobbies, rooms and other spaces connected thereto, primarily intended for assembly of people, but which has no theatrical stage or permanent theatrical and/or cinematographic accessories and has accommodation for 300 persons or more, for example, dance halls, night clubs, halls for incidental picture shows, dramatic, theatrical or educational presentation, lectures or other similar purposes having no theatrical stage except a raised platform and used without permanent seating arrangement; art galleries, community halls, marriage halls, places of worship, museums, lecture halls, passenger terminals and heritage and archaeological monuments, pool and billiard parlours, bowling alleys, community halls, courtrooms, gymnasiums (without spectator seating), indoor swimming pools (without spectator seating), indoor tennis courts (without spectator seating).
- d) *Subdivision D-4* — This subdivision shall include any building primarily intended for use as described in Subdivision D-3, but with accommodation for less than 300 persons with no permanent seating arrangements.
- e) *Subdivision D-5* — This subdivision shall include any building or structure, permanent or temporary meant for assembly of people not covered by Subdivisions D-1 to D-4, for example, grandstands, stadia, amusement park structures, reviewing stands and circus tents, arenas, external swimming pools, tennis and similar type of courts.
- f) *Subdivision D-6* — This subdivision shall include any building for assembly of people provided with multiple services/facilities like shopping, cinema theatres, multiplexes, restaurants/food court.
- g) *Subdivision D-7* — This subdivision shall include any building or structure like example, underground or elevated railways.

3.1.6 Group E Business Buildings

These shall include any building or part thereof which is used for transaction of business for keeping of accounts and records and similar purposes, professional establishments, service facilities, etc. City halls, town halls, courthouses and libraries shall be classified in this group so far as the principal function of these is transaction of public business and keeping of books and records.

Buildings under Group E shall be further subdivided as follows:

- Subdivision E-1 Offices, banks, professional establishments, like offices of architects, engineers, doctors, lawyers, post offices and police stations
- Subdivision E-2 Laboratories, outpatient clinics, research establishments, libraries and test houses
- Subdivision E-3 Electronic data processing centres, computer installations, information technology parks and call centres
- Subdivision E-4 Telephone exchanges
- Subdivision E-5 Broadcasting stations, T.V. stations and air traffic control towers

3.1.7 Group F Mercantile Buildings

These shall include any building or part thereof, which is used as shops, stores, market, for display and sale of merchandise, either wholesale or retail.

Mercantile buildings shall be further subdivided as follows:

- Subdivision F-1 Shops, stores, departmental stores, markets (any with covered area up to 500 m²)
- Subdivision F-2 Shops, stores, departmental stores, markets (any with covered area more than 500 m²)
- Subdivision F-3 Underground shopping centres

Storage and service facilities incidental to the sale of merchandise and located in the same building shall also be included under this group.

3.1.8 Group G Industrial Buildings

These shall include any building or part of a building or structure, in which products or materials of all kinds and properties are fabricated, assembled, manufactured or processed, for example, assembly plants, industrial laboratories, dry cleaning plants, power plants,

generating units, pumping stations, fumigation chambers, laundries, buildings or structures in gas plants, refineries, dairies and saw-mills, etc.

Buildings under Group G shall be further subdivided as follows:

- Subdivision G-1 Buildings used for low hazard industries
- Subdivision G-2 Buildings used for moderate hazard industries
- Subdivision G-3 Buildings used for high hazard industries

The hazard of occupancy, for the purpose of the Code, shall be the relative danger of the start and spread of fire, the danger of smoke or gases generated, the danger of explosion or other occurrences potentially endangering the lives and safety of the occupants of the buildings.

Hazard of occupancy shall be determined by the Authority on the basis of the fire loads of the contents, and the processes or operations conducted in the building, provided, however, that where the combustibility of the material, the flame spread rating of the interior finish or other features of the building or structure are such as to involve a hazard greater than the occupancy hazard, the greater degree of hazard shall govern the classification.

For determination of fire loads and fire load density for arriving at the classification of occupancy hazard, guidance on calorific values of some common materials is given at Annex A.

A broad classification of industrial occupancies into low, moderate and high hazard classes is given at Annex B, for guidance. Any occupancy not covered in Annex B, shall be classified in the most appropriate class depending on the degree of hazard.

Where different degrees of hazard of occupancy exist in different parts of a building, the most hazardous of those shall govern the classification for the purpose of this Code, except in cases where hazardous areas are segregated or protected as specified in the Code.

- a) *Subdivision G-1* — This subdivision shall include any building in which the contents are of such comparative low combustibility and the industrial processes or operations conducted therein are of such a nature that there is hardly any possibility for any self-propagating fire to occur and the only consequent danger to life and property may arise from panic, fumes or smoke, or fire from some external source.

- b) *Subdivision G-2* — This subdivision shall include any building in which the contents or industrial processes or operations conducted therein are liable to give rise to a fire which will burn with moderate rapidity or result in other hazardous situation and may give off a considerable volume of smoke, but from which neither toxic fumes nor explosions are to be feared in the event of fire.

- c) *Subdivision G-3* — This subdivision shall include any building in which the contents or industrial processes or operations conducted therein are liable to give rise to a fire which will burn with extreme rapidity or result in other hazardous situation or from which poisonous fumes or explosions are to be feared in the event of a fire.

3.1.9 Group H Storage Buildings

These shall include any building or part of a building used primarily for the storage or sheltering (including servicing, processing or repairs incidental to storage) of goods, ware or merchandise (except those that involve highly combustible or explosive products or materials), vehicles or animals, for example, warehouses, cold storages, freight depots, transit sheds, storehouses, truck and marine terminals, garages, hangars, grain elevators, barns and stables. Storage properties are characterized by the presence of relatively small number of persons in proportion to the area. Any new use which increases the number of occupants to a figure comparable with other classes of occupancy shall change the classification of the building to that of the new use, for example, hangars used for assembly purposes, warehouses used for office purposes, garage buildings used for manufacturing.

3.1.10 Group J Hazardous Buildings

These shall include any building or part thereof which is used for the storage, handling, manufacture or processing of highly combustible or explosive materials or products which are liable to burn with extreme rapidity and/or which may produce poisonous fumes or explosions for storage, handling, manufacturing or processing which involve highly corrosive, toxic or noxious alkalis, acids or other liquids or chemicals producing flame, fumes and explosive, poisonous, irritant or corrosive gases; and for the storage, handling or processing of any material producing explosive mixtures of dust which result in the division of matter into fine particles subject to spontaneous ignition. Examples of buildings in this class are those buildings which are used for,

- a) storage, under pressure of more than 0.1 N/mm² and in quantities exceeding 70 m³,

PART 4 FIRE AND LIFE SAFETY

Table 7 Minimum Requirements for Fire Fighting Installations
[Clauses 4.9(a), 4.9(c), 4.9(d), 5.1.1(a), 5.1.1(d), 5.1.2.1, 5.1.3(a), E-7, H-2(f) and Table 2]

Sl No.	Type of Building Occupancy	Type of Installation								Water Supply (litre)		Pump Capacity (litre/min)	
		Fire Extinguisher	First Aid Hose Reel	Wet Riser	Down Corner	Yard Hydrant	Automatic Sprinkler System	Manually Operated Electronic Fire Alarm Systems (see Note 1)	Automatic Detection and Alarm System (see Note 2)	Underground Static Water Storage Tank Combined Capacity for Wet Riser, Yard Hydrant and Sprinklers per Set of Pumps	Terrace Tank over Respective Tower Terrace	Pump Near Underground Static Water Storage Tank (Fire Pump) with Minimum Pressure of 3.5 kg/cm ² at Remote Location	At the Terrace Tank Level with Minimum Pressure of 3.5 kg/cm ²
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
RESIDENTIAL BUILDINGS (A)													
a) Lodging and Boarding Houses (A-1) (see Note 3)													
i) Less than 15 m in height													
ii) Up to 15 rooms	R	NR	NR	NR	NR	NR	R (see Note 4)	NR	NR	NR	5 000 (see Note 5)	NR	NR
iii) More than 15 and up to 30 rooms	R	R	NR	NR	NR	NR	R (see Note 4)	NR	NR	NR	5 000 (5 000) (see Note 6)	NR	450 (450) (see Note 6)
iv) More than 30 rooms	R	R	NR	NR	NR	NR	R (see Note 4)	R (see Note 7)	NR	NR	10 000 (5 000) (see Note 6)	NR	450 (450) (see Note 6)
b) One or two Family Private Dwellings (A-2) (see Note 3)	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR (see Note 6)	NR	NR (see Note 6)
c) Dormitories (A-3) and Apartment Houses (A-4)													
i) Less than 15 m in height	R	R	NR	NR	NR	NR	R (see Note 4)	NR	NR	NR	5 000 (5 000) (see Note 6)	NR	450 (450) (see Note 6)

Table 7 — (Continued)

Sl No.	Type of Building Occupancy	Type of Installation								Water Supply (litre)		Pump Capacity (litre/min)	
		Fire Extinguisher	First Aid Hose Reel	Wet Riser	Down Corner	Yard Hydrant	Automatic Sprinkler System	Manually Operated Electronic Fire Alarm Systems (see Note 1)	Automatic Detection and Alarm System (see Note 2)	Under-ground Static Water Storage Tank Combined Capacity for Wet Riser, Yard Hydrant and Sprinklers per Set of Pumps	Terrace Tank over Respective Tower Terrace	Pump Near Underground Static Water Storage Tank (Fire Pump) with Minimum Pressure of 3.5 Kg/cm ² at Remotest Location	At the Terrace Tank Level with Minimum Pressure of 3.5 Kg/cm ²
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
2)	15 m and above but not exceeding 35 m in height	R	R	NR	R	NR	R (see Note 4)	R (see Note 8)	NR	NR	25 000	NR	900
3)	Above 35 m but not exceeding 45 m in height	R	R	R	NR	NR	R (see Note 4 and Note 9)	R	NR	75 000	5 000	(see Note 10)	NR
4)	Above 45 m in height but not exceeding 60 m in height	R	R	R	NR	R	R	R	NR	150 000	10 000	(see Note 11)	NR
5)	Above 60 m in height	R	R	R	NR	R	R	R	R	200 000	10 000	(see Note 12 & Note 13)	NR
d)	Hotels (A-5)												
i)	Less than 15 m in height												
	i) Floor area not exceeding 300 m ² on any of the floor	R	R	NR	NR	NR	R (see Note 4)	R	NR	NR	5 000 (5000) (see Note 6)	NR	450 (450) (see Note 6)
	ii) Floor area exceeding 300 m ² but not more 1 000 m ² on any of the floor	R	R	R (see Note 7)	NR	NR	R (see Note 4)	R	R	10 000 for every 500 m ² floor area subject to minimum of 50 000 (see Note 7)	10 000 (5000) (see Note 6)	(see Note 14 in case of provision of wet riser)	450 (450) (see Note 6)
	iii) Floor area exceeding 1 000 m ² on any of the floor	R	R	R (see Note 15)	NR	R	R (see Note 1)	R	R	100 000 (see Note 15)	10 000 (see Note 4)	(see Note 15 and Note 14)	NR

Table 7 — (Continued)

Sl No.	Type of Building Occupancy	Type of Installation								Water Supply (litre)		Pump Capacity (litre/min)	
		Fire Exting- uisher	First Aid Hose Reel	Wet Riser	Down Comer	Yard Hydrant	Automatic Sprinkler System	Manually Operated Electronic Fire Alarm Systems (see Note 1)	Automatic Detection and Alarm System (see Note 2)	Under-ground Static Water Storage Tank Combined Capacity for Wet Riser, Yard Hydrant and Sprinklers per Set of Pumps	Terrace Tank over Respective Tower Terrace	Pump Near Underground Static Water Storage Tank (Fire Pump) with Minimum Pressure of 3.5 kg/cm ² at Remote Location	At the Terrace Tank Level with Minimum Pressure of 3.5 kg/cm ²
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
2)	15 m and above but not exceeding 30 m	R	R	R	NR	R	R	R	R	150 000	20 000	(see Note 11)	NR
3)	Above 30 m in height	R	R	R	NR	R	R	R	R	200 000	20 000	(see Note 11)	NR
e)	Hotels (A-6)	R	R	R	NR	R	R	R	R	250 000	20 000	(see Note 12)	NR
EDUCATIONAL BUILDINGS (B) (see Note 16)													
1)	Less than 15 m in height												
	i) Ground plus one or more storeys	R	R	NR	NR	NR	R (see Note 4)	NR	NR	NR	10 000 (5 000) (see Note 6)	NR	450 (450) (see Note 6)
2)	15 m and above but not exceeding 24 m in height	R	R	NR	R	NR	R (see Note 4)	R	NR	NR	25 000	NR	900
3)	Above 24 m but not exceeding 30 m in height	R	R	R	NR	R	R (see Note 4)	R	NR	50 000	(5 000) (see Note 6)	(see Note 14)	NR
INSTITUTIONAL BUILDINGS (C) (see Note 16)													
a)	Hospitals, Sanatoria and Nursing Homes (C-1)												
1)	Less than 15 m in height with plot area up to 1 000 m ²												
	i) Up to ground plus one storey, with no beds	R	NR	NR	NR	NR	R (see Note 4)	R	NR	NR	(5 000) (see Note 6)	NR	(450) (see Note 6)

Table 7 — (Continued)

Sl No.	Type of Building Occupancy	Type of Installation								Water Supply (litre)		Pump Capacity (litre/min)	
		Fire Fighting Back- usker	Fire Aid Hose Reel	Wet Riser	Down Corner	Yard Hydrant	Automatic Sprinkler System	Manually Operated Electronic Fire Alarm Systems (see Note 1)	Automatic Detection and Alarm System (see Note 2)	Under-ground Static Water Storage Tank Combined Capacity for Wet Riser, Yard Hydrant and Sprinklers per Set of Pumps	Terrace Tank over Respective Tower Terrace	Pump Near Underground Static Water Storage Tank (Fire Pump) with Minimum Pressure of 3.5 kg/cm ² at Remote Location	At the Terrace Tank Level with Minimum Pressure of 3.5 kg/cm ²
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	ii) Up to ground plus one storey with beds	R	R	NR	NR	NR	R (see Note 4)	R	NR	NR	5 000 (5 000) (see Note 6)	NR	450 (450) (see Note 6)
	iii) Ground plus two or more storeys, with no beds	R	R	NR	R	NR	R (see Note 4)	R	R	NR	10 000 (5 000) (see Note 6)	NR	900 (450) (see Note 6)
	iv) Ground plus two or more storeys, with beds	R	R	R	NR	NR	R (see Note 1)	R (see Note 1)	R	75 000	10 000	(see Note 14)	NR
2)	Less than 15 m in height with plot area more than 1 000 m ²	R	R	R	NR	R	R (see Note 1)	R (see Note 1)	R	1 00 000	10 000	(see Note 14)	NR
3)	15 m and above but not exceeding 24 m in height	R	R	R	NR	R	R	R	R	150 000	20 000	(see Note 10)	NR
4)	Above 24 m and not exceeding 45 m in height	R	R	R	NR	R	R	R	R	200 000	20 000	(see Note 11)	NR
b)	Custodial (C-2), and Penal and Mental (C-3)												
1)	Less than 10 m in height												
	i) Up to 300 persons	R	R	NR	NR	NR	R (see Note 4)	R	NR	NR	10 000 (5 000) (see Note 6)	NR	450 (450) (see Note 6)
	ii) More than 300 persons	R	R	NR	R	NR	R (see Note 4)	R	NR	NR	15 000 (5 000) (see Note 6)	NR	900 (450) (see Note 6)

PART 4 FIRE AND LIFE SAFETY

Table 7 — (Continued)

Sl No.	Type of Building Occupancy	Type of Installation										Water Supply (litre)		Pump Capacity (litre/min)	
		Fire Extinguisher	First Aid Hose Reel	Wet Riser	Down Corner	Yard Hydrant	Automatic Sprinkler System	Manually Operated Electronic Fire Alarm Systems (see Note 1)	Automatic Detection and Alarm System (see Note 2)	Under-ground Static Water Storage Tank Combined Capacity for Wet Riser, Yard Hydrant and Sprinklers per Set of Pumps	Terrace Tank over Respective Tower Terrace	Pump Near Underground Static Water Storage Tank (Fire Pump) with Minimum Pressure of 3.5 kg/cm ² at Remote Location	At the Terrace Tank Level with Minimum Pressure of 3.5 kg/cm ²		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)		
2)	10 m and above but not exceeding 15 m in height	R	R	R	NR	R	R (see Note 4)	R	R	100 000	5 000 (5 000) (see Note 6)	(see Note 10)	NR		
3)	15 m and above but not exceeding 24 m in height	R	R	R	NR	R	R	R	R	150 000	10 000	(see Note 11)	NR		
4)	24 m and above but not exceeding 30 m in height	R	R	R	NR	R	R	R	R	200 000	20 000	(see Note 11)	NR		
ASSEMBLY BUILDINGS (D) (see Note 16)															
a)	Buildings (D-1 to D-5)														
1)	Less than 10 m in height														
	i) Up to 300 persons	R	R	NR	R	NR	R (see Note 4)	R	NR	NR	20 000 (5 000) (see Note 6)	NR	450 (450) (see Note 6)		
	ii) More than 300 persons	R	R	NR	R	NR	R (see Note 4)	R	NR	NR	25 000 (5 000) (see Note 6)	NR	900 (450) (see Note 6)		
2)	Above 10 m but not exceeding 15 m in height	R	R	R	NR	NR	R (see Note 4)	R (see Note 1)	R	100 000	5 000 (5 000) (see Note 6)	(see Note 10)	450 (450) (see Note 6)		
3)	Above 15 m but not exceeding 24 m in height	R	R	R	NR	R	R	R	R	150 000	10 000	(see Note 10)	NR		
4)	Above 24 m but not exceeding 30 m in height	R	R	R	NR	R	R	R	R	200 000	20 000	(see Note 11)	NR		
b)	D-6	R	R	R	NR	R	R	R	R	200 000	20 000	(see Note 12)	NR		
c)	D-7	For details see 6.4.4													

Table 7 — (Continued)

Sl No.	Type of Building Occupancy	Type of Installation								Water Supply (litre)		Pump Capacity (litre/min)	
		Fire Extinguisher	First Aid Hose Reel	Wet Riser	Down Corner	Yard Hydrant	Automatic Sprinkler System	Manually Operated Electronic Fire Alarm Systems (see Note 1)	Automatic Detection and Alarm System (see Note 2)	Under-ground Static Water Storage Tank Combined Capacity for Wet Riser, Yard Hydrant and Sprinklers per Set of Pumps	Terrace Tank over Respective Tower Terrace	Pump Near Underground Static Water Storage Tank (Fire Pump) with Minimum Pressure of 3.5 kg/cm ² at Remote Location	At the Terrace Tank Level with Minimum Pressure of 3.5 kg/cm ²
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
BUSINESS BUILDINGS (E)													
1)	Less than 10 m in height	R	R	NR	R	NR	R (see Note 4)	R	NR	NR	10 000 (5 000) (see Note 6)	NR	450 (450) (see Note 6)
2)	Above 10 m but not exceeding 15 m in height	R	R	R	NR	NR	R (see Note 4)	R	R	50 000	5 000 (5 000) (see Note 6)	(see Note 14)	450 (450) (see Note 6)
3)	Above 15 m and up to 24 m in height	R	R	R	NR	R	R	R	R	100 000	10 000	(see Note 10)	NR
4)	Above 24 m and up to 30 m in height	R	R	R	NR	R	R	R	R	150 000	20 000	(see Note 11)	NR
5)	Above 30 m in height	R	R	R	NR	R	R	R	R	200 000	20 000	(see Note 12)	NR
MERCANTILE BUILDINGS (F)													
a)	F-1 and F-2 (see Note 16)												
1)	Less than 15 m in height												
	i) Ground plus one storey, with total of all floor area not exceeding 500 m ²	R	R	NR	NR	NR	R (see Note 4)	NR	NR	NR	5 000 (5 000) (see Note 6)	NR	450 (450) (see Note 6)

PART 4 FIRE AND LIFE SAFETY

Table 7 — (Continued)

Sl No.	Type of Building Occupancy	Type of Installation										Water Supply (litre)		Pump Capacity (litre/min)	
		Fire Extinguisher	First Aid Hose Reel	Wet Riser	Down Corner	Yard Hydrant	Automatic Sprinkler System	Manually Operated Electronic Fire Alarm Systems (see Note 1)	Automatic Detection and Alarm System (see Note 2)	Under-ground Static Water Storage Tank Combined Capacity for Wet Riser, Yard Hydrant and Sprinklers per Set of Pumps	Terrace Tank over Respective Tower Terrace	Pump Near Underground Static Water Storage Tank (Fire Pump) with Minimum Pressure of 3.5 kg/cm ² at Remotest Location	At the Terrace Tank Level with Minimum Pressure of 3.5 kg/cm ²		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)		
	ii) Ground plus one storey and total of all floor area exceeding 500 m ²	R	R	NR	R	NR	R (see Note 4)	R	NR	NR	20 000 (5 000) (see Note 6)	NR	900 (450) (see Note 6)		
	iii) More than ground plus one storey	R	R	NR	R	NR	R (see Note 4)	R	NR	NR	25 000 (5 000) (see Note 6)	NR	900 (450) (see Note 6)		
	2) Above 15 m but not exceeding 24 m in height	R	R	R	NR	R	R	R	R	100 000	10 000	(see Note 10)	NR		
3)	Above 24 m but not exceeding 30 m in height	R	R	R	NR	R	R	R	R	200 000	20 000	(see Note 11)	NR		
b)	Underground shopping complex (F-3)	R	R	R	NR	R	R	R	R	150 000	10 000	(see Note 11)	NR		
INDUSTRIAL BUILDINGS (G) (see Note 17)															
a)	Low Hazard (G-1) (see Note 18)														
	i) Covered area up to 100 m ²	R	NR	NR	NR	NR	R (see Note 4)	NR	NR	NR	5 000 (see Note 5)	NR	450 (see Note 5)		
	ii) Covered area more than 100 m ² and up to 500 m ²	R	R	NR	R (see Note 6)	NR	R (see Note 4)	NR	NR	NR	20 000 (5 000) (see Note 6)	NR	450 (450) (see Note 6)		

Table 7 — (Continued)

Sl No.	Type of Building Occupancy	Type of Installation							Water Supply (litre)		Pump Capacity (litre/min)		
		Fire Exting- uisher	First Aid Hose Reel	Wet Riser	Down Comer	Yard Hydrant	Automatic Sprinkler System	Manually Operated Electronic Fire Alarm Systems (see Note 1)	Automatic Detection and Alarm System (see Note 2)	Under-ground Static Water Storage Tank Combined Capacity for Wet Riser, Yard Hydrant and Sprinklers per Set of Pumps	Terrace Tank over Respective Tower Terrace	Pump Near Underground Static Water Storage Tank (Fire Pump) with Minimum Pressure of 3.5 kg/cm ² at Remote Location	At the Terrace Tank Level with Minimum Pressure of 3.5 kg/cm ²
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	iii) Covered area more than 500 m ² (for building height up to 15 m)	R	R	NR	R	NR	R (see Note 4)	R	NR	NR	20 000 (5000) (see Note 6)	NR	450 (450) (see Note 6)
	iv) Covered area more than 500 m ² (for building height above 15 m)	R	R	R	NR	R	R (see Note 4)	R	R	75 000	5 000 (see Note 6)	(see Note 14)	NR
b)	Moderate Hazard (G-2) (see Note 18)												
	i) Covered area up to 100 m ²	R	R	NR	NR	NR	R	NR	NR	NR	10 000	NR	450
	ii) Covered area more than 100 m ² and up to 500 m ²	R	R	NR	NR	NR	R	NR	NR	NR	20 000	NR	900
	iii) Covered area more than 500 m ² and up to 1000 m ² (for height up to 15 m)	R	R	NR	R	NR	R	R	R	NR	50 000	NR	900
	iv) Covered area more than 500 m ² and up to 1000 m ² (for height above 15 m)	R	R	R	NR	R	R	R	R	100 000	10 000	(see Note 14)	NR
v)	Covered area more than 1000 m ²	R	R	R	NR	R	R	R	R	150 000	20 000	(see Note 11)	NR

Table 7 — (Continued)

Sl No.	Type of Building Occupancy	Type of Installation								Water Supply (litre)		Pump Capacity (litre/min)	
		Fire Extinguishers	First Aid Hose Reel	Wet Riser	Down Corner	Yard Hydrant	Automatic Sprinkler System	Manually Operated Electronic Fire Alarm Systems (see Note 1)	Automatic Detection and Alarm System (see Note 2)	Under-ground Static Water Storage Tank Combined Capacity for Wet Riser, Yard Hydrant and Sprinklers per Set of Pumps	Terrace Tank over Respective Tower Terrace	Pump Near Underground Static Water Storage Tank (Fire Pump) with Minimum Pressure of 3.5 kg/cm ² at Remote Location	At the Terrace Tank Level with Minimum Pressure of 3.5 kg/cm ²
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
c)	High Hazard (G-3)												
	i) Covered area up to 50 m ²	R	R	NR	NR	NR	R	NR	NR	NR	10 000	NR	900
	ii) Covered area more than 50 m ² and up to 150 m ²	R	R	NR	NR	NR	R	R	R	NR	25 000	NR	900
	iii) Covered area more than 150 m ² and up to 300 m ²	R	R	R	NR	NR	R	R	R	50 000	10 000	(see Note 14)	NR
	iv) Covered area more than 300 m ² and up to 500 m ²	R	R	R	NR	R	R	R	R	100 000	20 000	(see Note 10)	NR
	v) Covered area more than 500 m ²	R	R	R	NR	R	R	R	R	150 000	20 000	(see Note 11)	NR
STORAGE BUILDINGS (H) (see Note 20)													
1)	Below 15 m in height and covered area less than 250 m ²	R	R	NR	NR	NR	R	NR	NR	NR	25 000	NR	900
2)	Below 15 m in height and covered area more than 250 m ²												
	i) Ground floor only	R	R	R	NR	R	R	R	R	50 000	10 000	(see Note 14)	450
	ii) Ground plus one floor	R	R	R	NR	R	R	R	R	75 000	10 000	(see Note 10)	450

Table 7 — (Continued)

Sl No.	Type of Building Occupancy	Type of Installation								Water Supply (litre)		Pump Capacity (litre/min)	
		Fire Exting-uisher	First Aid Hose Reel	Wet Riser	Down Corner	Yard Hydrant	Automatic Sprinkler System	Manually Operated Electronic Fire Alarm Systems (see Note 1)	Automatic Detection and Alarm System (see Note 2)	Under-ground Static Water Storage Tank Combined Capacity for Wet Riser, Yard Hydrant and Sprinklers per Set of Pumps	Terrace Tank over Respective Tower Terrace	Pump Near Underground Static Water Storage Tank (Fire Pump) with Minimum Pressure of 3.5 kg/cm ² at Remote Location	At the Terrace Tank Level with Minimum Pressure of 3.5 kg/cm ²
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	iii) More than ground plus one floor	R	R	R	NR	R	R	R	R	100 000	10 000	(see Note 10)	450
3)	Multi-Level Car Parking (MLCP)	R	R	R	NR	R	R	R	NR	150 000	10 000	(see Note 11)	900
HAZARDOUS BUILDINGS (I) (see Note 20)													
1)	Up to 15 m in height												
	i) Single Storey Building	R	R	R	NR	R	R	R	R	Minimum 240 min fire-fighting requirements	NR	(see Note 21)	NR
	ii) More than one floor building but not exceeding 15 m	R	R	R	R	R	R	R	R	Minimum 240 min fire-fighting requirements	50 000	(see Note 21)	900

R - Required
NR - Not Required

NOTES

- MOEFA System shall also include talk-back system and public address system for the occupancies given in the table for (d) (1) (iii) under A-5, (a) (1) (iv) and (a) (2) under C-1, and (a) (2) under D-1 to D-5, in all buildings 15 m and above in height, except for A-3 and A-4 occupancies where these shall be provided for buildings of height 24 m and above. These shall also be provided in car parking areas more than 300 m² and in multi-level car parking irrespective of their areas.
- Automatic detection and alarm system is not required to be provided in car parking area. Such detection system shall however be required in other areas of car parking such as electrical rooms, cabins and other areas.
- Buildings above 15 m in height are not to be permitted for occupancies A-1 and A-2.
- Required to be installed in basement, if area of basement exceeds 200 m².
- Required to be provided if basement area exceeds 200 m².

Table 7 — (Concluded)

- 6 Additional value given in parenthesis shall be added if basement area exceeds 200 m².
- 7 Required to be provided for buildings with more than two storeys (Ground + One).
- 8 Required to be provided for buildings with height above 15 m and above.
- 9 Sprinklers shall be fed water from both underground static water storage tank and terrace tank.
- 10 Provide required number of sets of pumps each consisting of one electric and one diesel pump (stand by) of capacity 2 280 litre/min and one electric pump of capacity 180 litre/min (see Fig. 12) (see also notes 22 and 23).
- 11 Provide required number of sets of pumps each consisting of two electric and one diesel pump (stand by) of capacity 2 850 litre/min and two electric pump of capacity 180 litre/min (see Fig. 12) (see also Notes 22 and 23).
- 12 Provide required number of sets of pumps each consisting of two electric and one diesel pump (stand by) of capacity 2 850 litre/min and two electric pump of capacity 180 litre/min (see Fig. 12) (see also Notes 22 and 23).
- 13 Lower levels in high rise buildings 60 m or above in height are likely to experience high pressure and therefore, it is recommended to consider multi-stage, multi-outlet pumps (creating pressure zones) or variable frequency drive pumps or any other equivalent arrangement.
- 14 Provide required number of sets of pumps each consisting of one electric and one diesel pump (stand by) of capacity 1 620 litre/min and one electric pump of capacity 180 litre/min (see Fig. 11) (see also Notes 22 and 23).
- 15 Required to be provided for buildings with more than one storey.
- 16 Buildings above 30 m in height not to be permitted for Group B, Group C, Group D and Group F occupancies.
- 17 The requirements given in this table for Group G Industrial Buildings are for small scale industry units. For other industries the requirements will have to be worked out on the basis of relevant Indian Standards and also in consultation with the local fire authorities.
- 18 Buildings above 18 m in height not to be permitted for G-1 and G-2 occupancies.
- 19 Buildings above 15 m in height not to be permitted for G-3 occupancies.
- 20 Buildings above 15 m in height not to be permitted for Group H and Group J occupancies. However, buildings above 45 m in height shall not be permitted for multi-level car parking (MLCP) occupancy.
- 21 Pump capacity shall be based on the covered area of the building.
- 22 One set of pumps shall be provided for each 100 hydrants or part thereof, with a maximum of two sets. In case of more than one pump set installation, both pump sets shall be interconnected at their delivery headers.
- 23 Alternative to provisions of additional set of pumps, the objective can be met by providing additional diesel pump of the same capacity and doubling the water tank capacity as required for one set of pumps.
- 24 As per the requirement of local authority dry riser may be used in hilly areas, industrial areas or as required.