

संख्या-304272/XX-3/2025-02(10)/2024

प्रेषक,

शैलेश बगौली,

सचिव,

उत्तराखण्ड शासन।

सेवा में,

पुलिस महानिदेशक,

उत्तराखण्ड, देहरादून।

गृह (अधिष्ठान) अनुभाग-3

देहरादून : दिनांक 06 मई, 2025

विषय— राज्य में उद्योगों एवं अन्य प्रतिष्ठानों हेतु 12 मीटर से कम ऊँचाई, परंतु 500 वर्ग मीटर से अधिक आच्छादित क्षेत्रफल एवं 12 मीटर से कम ऊँचाई, परंतु 500 वर्ग मीटर से कम आच्छादित क्षेत्रफल वाले लो-राइज एवं मिक्स ऑक्यूपेन्सी भवनों की अग्निसुरक्षा व्यवस्था हेतु सामान्य ढांचागत व्यवस्था तथा नेशनल बिल्डिंग कोड (एनबीसी-2016, भाग-4 (अग्नि एवं जीवन सुरक्षा) में संशोधन किये जाने के सम्बन्ध में।

महोदय,

कृपया उपर्युक्त पुलिस महानिरीक्षक, अग्निशमन एवं आपात सेवा उत्तराखण्ड, देहरादून के पत्र संख्या-डीजी-आठ-153/2023(1), दिनांक 05-12-2024 का संदर्भ ग्रहण करने का कष्ट करें, जिसके द्वारा राज्य में उद्योगों एवं अन्य प्रतिष्ठानों हेतु 12 मीटर से कम ऊँचाई परंतु 500 वर्ग मीटर से अधिक आच्छादित क्षेत्रफल एवं 12 मीटर से कम ऊँचाई एवं 500 वर्ग मीटर से कम आच्छादित क्षेत्रफल वाले लो-राइज एवं मिक्स ऑक्यूपेन्सी भवनों की अग्नि सुरक्षा व्यवस्था हेतु सामान्य ढांचागत व्यवस्था तथा नेशनल बिल्डिंग कोड (एनबीसी-2016, भाग-4, टेबल-7 (अग्नि एवं जीवन सुरक्षा) में प्रावधानित अग्निसुरक्षा के मानकों में संशोधन किये जाने का प्रस्ताव शासन को उपलब्ध कराया गया है।

2— अतः अग्निशमन एवं आपात सेवा मुख्यालय द्वारा उपलब्ध कराये गये प्रस्ताव के क्रम में सम्यक् विचारोपरान्त मुझे यह कहने का निदेश हुआ है कि लो-राइज भवनों एवं मिक्स ऑक्यूपेन्सी (12 मीटर से कम ऊँचाई वाले भवनों) की अग्नि सुरक्षा व्यवस्था अनापत्ति प्रमाण पत्र निर्गमन में आने वाली कठिनाईयों को दूर करने हेतु सामान्य ढांचागत व्यवस्था तथा नेशनल बिल्डिंग कोड (एनबीसी-2016, भाग-4, टेबल-7 (अग्नि एवं जीवन सुरक्षा) में प्रावधानित अग्निसुरक्षा के मानकों में उत्तराखण्ड राज्य के परिप्रेक्ष्य में निम्नानुसार संशोधन किये जाने का निर्णय लिया गया है :-

(A): सामान्य.

(क) पहुँच मार्ग— न्यूनतम 6 मीटर अथवा इतना चौड़ा जिससे मोटर फायर इंजन आसानी से आ जा सके।

(ख) स्मोक मैनेजमेंट— भवनों में अधिकतर धुएँ से दम घुटने के कारण ही मृत्यु होती है अतः नेचुरल वेंटिलेशन अथवा स्मोक एग्जास्ट सिस्टम लगाया जाएगा।

(B): एनबीसी-2016 में दी गई अग्निशमन व्यवस्थाओं में संशोधन—

1. फायर एक्सटिंग्यूशर की व्यवस्था— भूमिगत अथवा टेरेस पर उपलब्धता संलग्न परिशिष्ट A से G तक संशोधनों के अनुसार।

2. होजरील की स्थापना—भूमिगत अथवा टेरेस पर उपलब्धता संलग्न परिशिष्ट A से G तक संशोधनों के अनुसार।
3. डाउन कमर/वेट राइजर की स्थापना—भूमिगत अथवा टेरेस पर उपलब्धता संलग्न परिशिष्ट A से G तक संशोधनों के अनुसार।
4. फायर वाटर टैंक की स्थापना—भूमिगत अथवा टेरेस पर उपलब्धता संलग्न परिशिष्ट A से G तक संशोधनों के अनुसार।
5. फायर पम्प की स्थापना—भूमिगत अथवा टेरेस पर उपलब्धता संलग्न परिशिष्ट A से G तक संशोधनों के अनुसार।
6. फायर/स्मोक/ऑटोमैटिक डिटेक्शन एवं अलार्म सिस्टम की स्थापना संलग्न परिशिष्ट A से G तक संशोधनों के अनुसार।
7. फायर/स्मोक/ऑटोमैटिक डिटेक्शन एवं अलार्म सिस्टम की स्थापना एवं अनुरक्षण संलग्न परिशिष्ट A से G तक संशोधनों के अनुसार।
8. स्प्रिंकलर सिस्टम की स्थापना एवं अनुरक्षण संलग्न परिशिष्ट A से G तक संशोधनों के अनुसार।
9. मैनुअल कॉल प्वाइंट (MOEFAS) की स्थापना एवं अनुरक्षण संलग्न परिशिष्ट A से G तक संशोधनों के अनुसार।
10. सैट बैंक— उपलब्धता के सम्बन्ध में निर्णय सम्बंधित सत्ता प्राधिकारी द्वारा प्रभावी भवन निर्माण एवं विकास उपविधि (बिल्डिंग बायलॉज) के अनुसार।

(C): लो—राइज भवनों एवं मिक्स ऑक्यूपेन्सी (12 मीटर से कम ऊँचाई वाले भवनों) की अग्नि सुरक्षा व्यवस्था अनापत्ति प्रमाण पत्र प्राप्त करने हेतु कठिनाईयों को दूर करने के लिए उद्योगों एवं प्रतिष्ठानों के लिए एनबीसी, 2016 में दी गयी न्यूनतम अग्निशमन व्यवस्थाओं में निम्नलिखित श्रेणियों के भवनों हेतु संशोधन (संलग्न परिशिष्ट के अनुसार) किया जाता है :—

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|---|---------------|
| 1. संस्थागत भवन (हॉस्पिटल) Group C - Institutional Occupancy- | परिशिष्ट—(A) |
| 2. औद्योगिक भवन Group G - Industrial Building- | परिशिष्ट— (B) |
| 3. शैक्षणिक भवन Group B- Educational Building- | परिशिष्ट— (C) |
| 4. आवासीय (होटल) भवन Group A – Residential Building- | परिशिष्ट— (D) |
| 5. व्यवसायिक भवन (हॉस्पिटल) Group E - Business Occupancy- | परिशिष्ट— (E) |
| 6. मिक्स ऑक्यूपेन्सी Group F - Mix Occupancy- | परिशिष्ट— (F) |
| 7. स्टोरेज एवं वेयर हाउस Group H – Storage Building- | परिशिष्ट— (G) |

3— यदि अग्निसुरक्षा एवं जीव रक्षा उपायों के दृष्टिगत कोई वाद—विवाद की स्थिति उत्पन्न होती है, तो ऐसी परिस्थिति में तत्समय प्रवृत्त राष्ट्रीय भवन निर्माण संहिता (एन0बी0सी0) के प्रावधान प्रभावी होंगे।

संलग्नक: यथोक्त।

Digitally signed by
Shailesh Bagauli
Date: 06-06-2025
11:07:05

भवदीय,
(शैलेश बगौली)
सचिव।

संख्या-304272/XX-3/2025-02(10)/2024, तददिनांक।

प्रतिलिपि, निम्नलिखित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित :-

1. प्रमुख सचिव, मा0 मुख्यमंत्री, उत्तराखण्ड शासन।
2. सचिव, श्री राज्यपाल, उत्तराखण्ड, देहरादून।
3. सचिव, आवास विभाग, उत्तराखण्ड शासन।
4. सचिव, उद्योग विभाग, उत्तराखण्ड शासन।
5. सचिव, शहरी विकास विभाग, उत्तराखण्ड शासन।
6. पुलिस महानिरीक्षक, अग्निशमन एवं आपात सेवा उत्तराखण्ड, देहरादून।
7. मण्डलायुक्त गढ़वाल/कुमाँऊ, उत्तराखण्ड।
8. समस्त जिलाधिकारी, उत्तराखण्ड।
9. समस्त वरिष्ठ पुलिस अधीक्षक/पुलिस अधीक्षक, उत्तराखण्ड।
10. गार्ड फाईल।

आज्ञा से,

Digitally signed by
Apurva Pandey
Date: 06-06-2025
17:43:57

(अपूर्वा पाण्डेय)
अपर सचिव।

परिशिष्ट— (A)

Group C – Institutional Occupancy (less than 12 m in height) Subdivision C-1 (Hospital, sanatorium and Nursing Homes) (1)

Minimum Requirements for Fire Fighting Installations (as per NBC 2016)		Uttarakhand	
Building Details as per NBC Table-7	Existing Norms	Amended Building Detail	Amended Norms
Less than 15 m in height with plot area up to 1000 sqm (A) Up to ground plus one storey with beds	1. Extinguishers 2. Hose reel 3. Sprinkler if basement area exceeds 200 sqm 4. Manual call point 5. Terrace tank - 5000L (add 5000L if basement area exceeds 200 sqm) 6. Pump - 450 LPM (Add 450 LPM if basement area exceeds 200 sqm)	(A1) Floor area not exceeding 250 sqm of any floor up to two floors less than 12 mtrs.	1. Extinguishers 2. Hose reel 3. Sprinkler (if basement more than 200 sqm) 4. Manual call point 5. Terrace tank - 5000L (add 5000L if basement more than 200 sqm) 6. Pump - 450 LPM (Add 450 LPM if basement area exceeds 200 sqm)
		(A2) Floor area not exceeding 250 sqm of any floor & more than two floors less than 12 mtrs.	1. Extinguishers 2. Hose reel 3. Down comer 4. Automatic detection system 5. Automatic Sprinkler system 6. Manual call point 7. Terrace tank - 20000L 8. Pump - 900 LPM.

Subdivision C-1 (Hospital, Sanatoria and Nursing Homes) (2)(less than 12 m in height)

Minimum Requirements for Fire Fighting Installations (as per NBC 2016)		Uttarakhand	
Building Details as per NBC Table-7	Existing Norms	Amended Building Detail	Amended Norms
Less than 15 m in height with plot area up to 1000 sqm (B) ground plus two or more storey, with beds	1. Extinguishers 2. Hose reel 3. Wet riser 4. Automatic Sprinkler system 5. Manual call point 6. Automatic detection system 7. Underground tank 75000 L 8. Terrace tank - 10000L 9. Diesel & electric each 1620 LPM & one jockey 180 LPM	(B1) Floor area exceeding 250 sqm but not more than 1000 sqm on any floor up to two floors	1. Extinguishers 2. Hose reel 3. Wet riser 4. Automatic Sprinkler system - (added 900 LPM separate pump) 5. Manual call point 6. Automatic detection&Alarm system 7. Terrace tank - 25000L 8. Terrace Pump- 900 LPM. 9. Provision of alternate power supply for pumps.
		(B2) Floor area exceeding 250 sqm but not more than 1000 sqm on any floor for more than two floors, less than 12 mtrs	1. Extinguishers 2. Hose reel 3. Wet riser 4. Automatic Sprinkler system 5. Manual call point 6. Automatic detection & alarm system 7. Underground tank 50000 L. 8. Two Pump of 900 LPM capacity& one jockey 180 LPM 9. Terrace tank - 10000L with pump 450 LPM. 10. Provision of alternate source of power supply for pumps.

Subdivision C-1 (Hospital, Sanatoria and Nursing Homes) (3)(less than 12 m in height)

Minimum Requirements for Fire Fighting Installations (as per NBC 2016)		Uttarakhand	
Building Details as per NBC Table-7	Existing Norms	Amended Building Detail	Amended Norms
Less than 15 m in height with plot area more than 1000 sqm	1. Extinguishers 2. Hose reel 3. Wet riser 4. Automatic Sprinkler system 5. Manual call point 6. Automatic detection system 7. Underground tank 75000 L 8. Terrace tank - 10000L 9. Diesel & electric each 1620 LPM & one jockey 180 LPM 10. Terrace pump 450 lpm.	(C1-A) Floor area exceeding 1000 sqm – upto 5000 sqm on any of the floor up to two floors less than 12 mtr.	1. Extinguishers 2. Hose reel 3. Wet riser 4. Automatic Sprinkler system (with 900 LPM separate pump) 5. Manual call point 6. Automatic detection system 7. Terrace tank - 25000L 8. Terrace Pump- 900 LPM 9. Provision of alternate source of power supply for pumps.
		(C1-B) Floor area exceeding 5000 sqm on any of the floor up to two floors	1. Extinguishers 2. Hose reel 3. Wet riser 4. Automatic Sprinkler system 5. Manual call point 6. Automatic detection system 7. Terrace tank - 10000L 8. Terrace Pump- 450 LPM 9. Underground tank 50000 L 10. Diesel & electric each 1620 LPM & one jockey 180 LPM only in case of beds)
		(C2-A) Floor area exceeding 1000 sqm – upto 5000 sqm on any of the floor for more than two floors, less than 12 mtrs.	1. Extinguishers 2. Hose reel 3. Wet riser 4. Automatic Sprinkler system 5. Manual call point 6. Automatic detection system 7. Underground tank 75000 L 8. Terrace tank - 10000L 9. Two Pump of 1620 LPM capacity & one jockey 180 LPM. 10. Terrace pump 450 lpm.

		(C2-B) Floor area exceeding 5000 sqm on any of the floor for more than two floors, less than 12 mtrs	<p>11. Provision of alternate source of power supply for pumps.</p> <ol style="list-style-type: none">1. Extinguishers2. Hose reel3. Wet riser4. Automatic Sprinkler system5. Manual call point6. Automatic detection system7. Underground tank 100000 L8. Terrace tank - 10000L,9. Terrace Pump- 450 LPM10. Diesel & electric each 1620 LPM & one jockey 180 LPM.
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परिशिष्ट- (B)

Group G – Industrial Building Subdivision G-1 Low Hazard (Less than 12 m in height)

Minimum Requirements for Fire Fighting Installations (as per NBC 2016)		Uttarakhand	
Building Details as per NBC Table-7	Existing Norms	Amended Building Detail	Amended Norms
(A) Covered area up to 100 sqm	1. Extinguishers 2. Sprinkler if basement area exceeds 200 sqm 3. Terrace tank - 5000L (add 5000 L if basement area exceeds 200 sqm) 4. Pump - 450 LPM (add 450 LPM if basement area exceeds 200 sqm)	(A) Covered area up to 100 sqm	1. Extinguishers 2. Hose Reel 3. Sprinkler (if basement more than 200 sqm) 4. Terrace tank - 2500L (add 5000 L if basement) 5. Pump - 450 LPM (add 450 LPM if basement)
(B) Covered area more than 100 sqm and up to 500 sqm	1. Extinguishers 2. Hose Reel 3. Sprinkler if basement area exceeds 200 sqm 4. Terrace tank - 20000L (add 5000 L if basement area exceeds 200 sqm) 5. Pump - 450 LPM (add 450 LPM if basement area exceeds 200 sqm)	(B) Covered area more than 100 sqm and up to 500 sqm	1. Extinguishers 2. Hose Reel 3. Sprinkler (if basement more than 200 sqm) 4. Terrace tank - 10000L (add 5000 L if basement exceeds 200 sqm) 5. Pump - 450 LPM (add 450 LPM if basement exceeds 200 sqm)
(C) Covered area more than 500 sqm	1. Extinguishers 2. Hose Reel 3. Down Comer 4. Manually Operated Electronic Fire Alarm System 5. Sprinkler (if basement area exceeds 200 sqm) 6. Terrace tank - 20000L (add 5000L if basement area exceeds 200 sqm) 7. Pump - 450 LPM (Add 450 LPM if basement area exceeds 200 sqm)	(C) Covered area more than 500 sqm	1. Extinguishers 2. Hose Reel 3. Down Comer 4. Manually Operated Electronic Fire Alarm System 5. Sprinkler if basement more than 200 sqm 6. Terrace tank - 15000L (add 5000L if basement) 7. Terrace Pump - 900 LPM

Subdivision G-2 Moderate Hazard (Less than 12 m in height)

Minimum Requirements for Fire Fighting Installations (as per NBC 2016)		Uttarakhand	
Building Details as per NBC Table-7	Existing Norms	Amended Building Detail	Amended Norms
(A) Covered area up to 100 sqm	1. Extinguishers 2. Hose Reel 3. Sprinkler System 4. Terrace tank- 10000L 5. Pump - 450 LPM	(A1) Covered area up to 100 sqm (G+1 Floor)	1. Extinguishers 2. Hose Reel 3. Terrace tank - 5000L 4. Terrace Pump - 450 LPM
		(A2) Covered area up to 100 sqm (More than G+1 floor, less than 12m in height)	1. Extinguishers 2. Hose Reel 3. Terrace tank - 5000L 4. Terrace Pump - 450 LPM
(B) Covered area more than 100 sqm and up to 500 sqm	1. Extinguishers 2. Hose Reel 3. Sprinkler System 4. Terrace tank- 20000L 5. Pump - 900 LPM	(B1) Covered area more than 100 sqm and up to 500 sqm (G+1 Floor)	1. Extinguishers 2. Hose Reel 3. Terrace tank - 15000L 4. Terrace Pump - 900 LPM 5. Sprinkler (if basement exceeds 200 sqm).
		(B2) Covered area more than 100 sqm and up to 500 sqm (More than G+1 floor, less than 12m in height)	1. Extinguishers 2. Hose Reel 3. Down Comer 4. Terrace tank - 20000L 5. Terrace Pump - 900 LPM 6. Sprinkler(if basement more than 200 sqm).
(C) Covered area more than 500 sqm and up to 1000 sqm (less than 15m in height)	1. Extinguishers 2. Hose Reel 3. Down Comer 4. Manually Operated Electronic Fire Alarm System 5. Sprinkler system 6. Automatic Detection & Alarm system,	(C1) Covered area more than 500 sqm and up to 1000 sqm (G+1) floor, less than 12m in height)	1. Extinguishers 2. Hose Reel 3. Down Comer 4. Manually Operated Electronic Fire Alarm System 5. Sprinkler if basement more than 200 sqm 6. Terrace tank - 15000L (add 5000L if basement) 7. Terrace Pump - 900 LPM

	7. Terrace tank - 50000L 8. Terrace Pump - 900 LPM		8. Automatic Detection & alarm.
(C) Covered area more than 500 sqm and up to 1000 sqm (less than 15m in height)	1. Extinguishers 2. Hose Reel 3. Down Comer 4. Manually Operated Electronic Fire Alarm System 5. Sprinkler system 6. Automatic Detection & Alarm system, 7. Terrace tank - 50000L 8. Terrace Pump - 900 LPM	(C2) Covered area more than 500 sqm and up to 1000 sqm (More than G+1) floor, less than 12m in height)	1. Extinguishers 2. Hose Reel 3. Down Comer 4. Manually Operated Electronic Fire Alarm System 5. Sprinkler if basement more than 200 sqm 6. Terrace tank - 20000L (add 5000L if basement) 7. Terrace Pump - 900 LPM 8. Automatic Detection & alarm.
<p>(C) Covered area more than 1000 sqm and up to 5000 sqm (less than 15m in height)</p> <p>Category exists in table 7 of NBC-IV: 2016 under the category Industrial Buildings: Moderate hazards (v) as Covered area more than 1000 sqm irrespective of height.</p>		<p>(C3) Covered area more than 1000 sqm upto 5000, less than 12m in height)</p>	<p>1. Extinguishers 2. Hose Reel 3. Wet riser 4. Manually Operated Electronic Fire Alarm System 5. Sprinkler System 6. Automatic Detection & alarm system 7. Terrace tank - 20000L 8. UG static water tank 50000 Ltr, 9. 01 electric & one diesel pump 2280 lpm capacity each & 01 jockey pump of 180 lpm. 10. Yard hydrants: with Fire service Inlet connections of 63 mm size. 11. Terrace Pump 900 LPM</p>
<p>Covered area more than 5000 sqm upto 10000, less than 12m in height).</p> <p>Category exists in table 7 of NBC-IV: 2016 under the category Industrial Buildings: Moderate hazards (v) as Covered area more than 1000 sqm irrespective of height.</p>	<p>1. Extinguishers 2. Hose Reel 3. Wet riser 4. Manually Operated Electronic Fire Alarm System</p>	<p>(C4) Covered area more than 5000 sqm upto 10000, less than 12m in height).</p>	<p>1. Extinguishers 2. Hose Reel 3. Wet riser 4. Manually Operated Electronic Fire Alarm System 5. Sprinkler System 6. Automatic Detection & alarm system 7. Terrace tank - 20000L 8. UG static water tank 75000 Ltr, 9. 01 electric & one diesel pump 2280 lpm capacity each & 01 jockey pump of 180 lpm. 10. Yard hydrants: with Fire service Inlet connections of 63 mm size. 11. Terrace Pump 900 LPM</p>

<p>Covered area more than 10000 sqm, less than 12m in height).</p> <p>Category exists in table7 of NBC-IV: 2016 under the category Industrial Buildings: Moderate hazards (v) as Covered area more than 1000 sqm irrespective of height.</p>	<p>5. Sprinkler System 6. Automatic Detection & alarm system 7. Terrace tank - 20000L 8. UG static water tank 150000 Ltr, 9. 02 electric & one diesel pump 2280 lpm capacity each & 02 jockey pumps of 180 lpm each. 10. Yard hydrants</p> <p>1. Extinguishers 2. Hose Reel 3. Wet riser 4. Manually Operated Electronic Fire Alarm System 5. Sprinkler System 6. Automatic Detection & alarm system 7. Terrace tank - 20000L 8. UG static water tank 150000 Ltr, 9. 02 electric & one diesel pump 2280 lpm capacity each & 02 jockey pumps of 180 lpm each. 10. Yard hydrants</p>	<p>(C5) Covered area more than 10000 sqm, less than 12m in height).</p>	<p>1. Extinguishers 2. Hose Reel 3. Wet riser 4. Manually Operated Electronic Fire Alarm System 5. Sprinkler System 6. Automatic Detection & alarm system 7. Terrace tank - 20000L 8. UG static water tank 100000 Ltr, 9. 02 electric & one diesel pump 2280 lpm capacity each & 02 jockey pump of 180 lpm. 10. Yard hydrants: with Fire service Inlet connections of 63mm size. 11. Terrace Pump 900 LPM</p>
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Subdivision G-3 High Hazard (Less than 12 m in height)

Minimum Requirements for Fire Fighting Installations (as per NBC 2016)		Uttarakhand	
Building Details as per NBC Table-7	Existing Norms	Amended Building Detail	Amended Norms
(A) Covered area up to 50 sqm	1. Extinguishers 2. Hose Reel 3. Sprinkler System 4. Terrace tank - 10000L 5. Pump - 450 LPM	(A1) Covered area up to 50 sqm (G+1 Floor)	1. Extinguishers 2. Hose Reel 3. Terrace tank- 5000L 4. Terrace Pump- 450 LPM
		(A2) Covered area up to 50 sqm (More than G+1 floor)	1. Extinguishers 2. Hose Reel 3. Terrace tank - 10000L 4. Terrace Pump - 900 LPM
(B) Covered area more than 50 sqm and up to 150 sqm	1. Extinguishers 2. Hose Reel 3. Sprinkler System 4. Manually Operated Electronic Fire Alarm System 5. Automatic detection system 6. Terrace tank - 25000L 7. Terrace Pump - 900 LPM	(B1) Covered area up to 150 sqm (G+1 Floor)	1. Extinguishers 2. Hose Reel 3. Down Comer 4. Manually Operated Electronic Fire Alarm System 5. Automatic detection system 6. Terrace tank - 15000L (add 5000L if basement) 7. Terrace Pump - 900 LPM
		(B2) Covered area up to 150 sqm (More than G+1 floor)	1. Extinguishers 2. Hose Reel 3. Down Comer 4. Sprinkler System 5. Manually Operated Electronic Fire Alarm System 6. Automatic detection system 7. Terrace tank - 20000L 8. Terrace Pump - 900 LPM

परिशिष्ट- (C)

Group B – Educational Building (less than 12 m in height) Subdivision B1 (School up to Senior Secondary level)

Minimum Requirements for Fire Fighting Installations (as per NBC 2016)		Uttarakhand	
Building Details as per NBC Table-7	Existing Norms	Amended Building Detail	Amended Norms
Less than 15 m in height (A) Ground plus one or more storeys	1. Extinguishers 2. Hose reel 3. Sprinkler if basement area exceeds 200 sqm 4. Terrace tank - 10000L (add 5000L if basement area exceeds 200 sqm) 5. Pump - 450 LPM (Add 450 LPM if basement area exceeds 200 sqm)	(A1-A). Ground floor only with floor area upto 500 sqm (A1-B). Ground floor only with floor area more than 500 sqm .	1. Extinguishers 1. Extinguishers 2. Hose reel 3. Sprinkler system (if basement area exceeds 200 sqm) 4. Terrace tank - 5000L (add 5000L if basement area exceeds 200 sqm) 5. Pump - 450 LPM (Add 450 LPM if basement area exceeds 200 sqm)
		(B1). Ground plus one floor only with floor area upto 500 sqm (B2). Ground plus one floor only with floor area more than 500 sqm.	1. Extinguishers 2. Hose reel 3. Sprinkler system (if basement area exceeds 200 sqm) 4. Terrace tank - 5000L (add 5000L if basement area exceeds 200 sqm) 5. Pump - 450 LPM (Add 450 LPM if basement area exceeds 200 sqm) 1. Extinguishers 2. Hose reel 3. Sprinkler system (if basement area exceeds 200 sqm) 4. Terrace tank - 10000L (add 5000L if basement area exceeds 200 sqm) 5. Pump - 450 LPM (Add 450 LPM if basement area exceeds 200 sqm)
		(C1). Three or more floor with floor area upto 500 sqm and less than 12 mtrs.	1. Extinguishers 2. Hose reel

		(C2). Three or more floor with floor area more than 500 sqm and less than 12 mtrs.	<p>3. Sprinkler system (if basement area exceeds 200 sqm)</p> <p>4. Terrace tank - 10000L (add 5000L if basement area exceeds 200 sqm)</p> <p>5. Pump - 450 LPM (Add 450 LPM if basement area exceeds 200 sqm)</p> <p>1. Extinguishers</p> <p>2. Hose reel</p> <p>3. Down comer</p> <p>3. MCP</p> <p>4. Sprinkler system (if basement area exceeds 200 sqm)</p> <p>5. Terrace tank - 10000L (add 5000L if basement area exceeds 200 sqm)</p> <p>6. Pump - 900 LPM (Add 450 LPM if basement area exceeds 200 sqm)</p>
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परिशिष्ट- (D)

Group A – Residential Occupancy(less than 12 m in height) Subdivision A-5 Hotel Building (1)

Minimum Requirements for Fire Fighting Installations (as per NBC 2016)		Uttarakhand	
Building Details as per NBC Table-7	Existing Norms	Amended Building Detail	Amended Norms
(A) Floor area not exceeding 300 sqm on any of the floor	1. Extinguishers 2. Hose reel 3. Sprinkler if basement area exceeds 200 sqm 4. Manual call point 5. Terrace tank - 5000L (add 5000L if basement area exceeds 200 sqm) 6. Pump - 450 LPM (Add 450 LPM if basement area exceeds 200 sqm)	(A1) Floor area not exceeding 300 sqm of any floor up to two floors	1. Extinguishers 2. Hose reel 3. Sprinkler if basement more than 200 sqm 4. Manual call point 5. Terrace tank - 5000L (add 5000L if basement) 6. Pump - 450 LPM (Add 450 LPM if basement)
		(A2) Floor area not exceeding 300 sqm of any floor & more than two floors up to 12 mtrs.	1. Extinguishers 2. Hose reel 3. Down comer 4. Automatic detection& Alarm system. 5. Sprinkler if basement area exceeds 200 sqm. 6. Manual call point. 7. Terrace tank - 20000L (add 5000L if basement area exceeds 200 sqm) 8. Pump - 900 LPM (Add 450 LPM if basement area exceeds 200 sqm).

Subdivision A-5 Hotel Building (2) (less than 12 m in height)

Minimum Requirements for Fire Fighting Installations (as per NBC 2016)		Uttarakhand	
Building Details as per NBC Table-7	Existing Norms	Amended Building Detail	Amended Norms
(B) Floor area exceeding 300 sqm but not more than 1000 sqm on any of the floor	1. Extinguishers 2. Hose reel 3. Wet riser if building more than two floors 4. Sprinkler if basement area exceeds 200 sqm 5. Manual call point 6. Automatic detection system 7. Underground tank 50000 L (10000 L additional for every 500 sqm floor area) if building more than two floors) 8. Terrace tank - 10000L(add 5000L if basement area exceeds 200 sqm) 9. Diesel & electric Pumps each 1620 LPM & one jockey 180 LPM 10. Terrace pump- 450 LPM (add 450 LPM if basement area exceeds 200 sqm)	(B1) Floor area exceeding 300 sqm but not more than 1000 sqm on any floor up to two floors	1. Extinguishers 2. Hose reel 3. Down comer 4. Sprinkler if basement more than 200 sqm 5. Manual call point 6. Automatic detection & Alarm system. 7. Terrace tank - 15000L(add 5000L if basement) 8. Terrace pump- 900 LPM (add 450 LPM if basement area exceeds 200 sqm). 9. Provision of alternate source of power supply for pumps.
		(B2) Floor area exceeding 300 sqm but not more than 1000 sqm on any of the floor for more than two floors, less than 12 mtrs.	1. Extinguishers 2. Hose reel 3. Down comer 4. Automatic detection& Alarm system 5. Automatic Sprinkler system 6. Manual call point 7. Terrace tank - 10000L (add 5000L if basement area exceeds 200 sqm) 8. Terrace pump- 450 LPM (add 450 LPM if basement area exceeds 200 sqm) 9. Underground tank 50000 L (10000 L additional for every 500 sqm floor area if building is of more than two floors) 10. Diesel & electric Pumps each 1620 LPM & one jockey 180 LPM.

Subdivision A-5 Hotel Building (3) (less than 12 m in height)

Minimum Requirements for Fire Fighting Installations (as per NBC 2016)		Uttarakhand	
Building Details as per NBC Table-7	Existing Norms	Amended Building Detail	Amended Norms
(C) Floor area exceeding 1000 sqm on any of the floor	1. Extinguishers 2. Hose reel 3. Wet riser if building more than one storey 4. Yard Hydrant 5. Automatic Sprinkler system 6. Manual call point 7. Automatic detection system 8. Underground tank 100000 L for more than one storey 9. Diesel & electric pumps each 1620 LPM & one jockey 180 LPM 10. Terrace tank- 10000L(add 5000L if basement area exceeds 200 sqm)	(C1-A) Floor area exceeding 1000-5000 sqm on any of the floor up to two floors	1. Extinguishers 2. Hose reel 3. Wet Riser 4. Yard Hydrant 5. Automatic Sprinkler system 6. Manual call point 7. Automatic detection& Alarm system 8. Underground tank 50000 L for more than one storey 9. Diesel & electric pumps each 1620 LPM & one jockey 180 LPM 10. Terrace tank - 10000L(add 5000L if basement area exceeds 200 sqm)
		(C1-B) Floor area exceeding 5000 sqm on any of the floor up to two floors less than 12 mtr	1. Extinguishers 2. Hose reel 3. Wet Riser 4. Yard Hydrant 5. Automatic Sprinkler system 6. Manual call point 7. Automatic detection & Alarm system 8. Underground tank 100000 L 9. Diesel & electric pumps each 1620 LPM & one jockey 180 LPM 10. Terrace tank - 10000L(add 5000L if basement area exceeds 200 sqm)
		(C2-A) Floor area exceeding 1000-5000 sqm on any of the floor for more than two floors and less than 12 mtrs.	1. Extinguishers 2. Hose reel 3. Wet Riser 4. Yard Hydrant 5. Automatic Sprinkler system 6. Manual call point 7. Automatic detection & Alarm system 8. Underground tank 50000 L

		(C2-B) Floor area exceeding 5000 sqm on any of the floor for more than two floors and less than 12 mtrs.	<p>9. Diesel & electric pumps each 1620 LPM & one jockey 180 LPM</p> <p>10. Terrace tank - 10000L (add 5000L if basement area exceeds 200 sqm)</p> <p>1. Extinguishers</p> <p>2. Hose reel</p> <p>3. Wet Riser</p> <p>4. Yard Hydrant</p> <p>5. Automatic Sprinkler system</p> <p>6. Manual call point</p> <p>7. Automatic detection & Alarm system</p> <p>8. Underground tank 100000 L</p> <p>9. Diesel & electric pumps each 1620 LPM & one jockey 180 LPM</p> <p>10. Terrace tank - 10000L (add 5000L if basement area exceeds 200 sqm)</p>
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परिशिष्ट- (E)

Group E – Business Building (Less than 12 m in height)

Minimum Requirements for Fire Fighting Installations (as per NBC 2016)		Uttarakhand	
Building Details as per NBC Table-7	Existing Norms	Amended Building Detail	Amended Norms
Less than 10 m in height	1. Extinguishers 2. Hose reel 3. MCP 4. Down comer 5. Sprinkler if basement area exceeds 200 sqm 6. Terrace tank - 10000L (add 5000L if basement area exceeds 200 sqm) 7. Pump - 450 LPM (Add 450 LPM if basement area exceeds 200 sqm)	(A) Less than 12 m in height and covered area less than 200 sqm.	1. Extinguishers 2. Hose reel 3. Down comer 4. Terrace tank - 5000L 5. Terrace Pump - 450 LPM
		(B) Less than 12 m in height and covered area more than 200 sqm and up to 500 sqm	1. Extinguishers 2. Hose reel 3. Down comer 4. Sprinkler (if basement exceeds 200 sqm). 5. Terrace tank - 5000L (add 5000L if basement exceeds 200 sqm) 6. Pump - 450 LPM (Add 450 LPM if basement).
		(C1) Less than 12 m in height and covered area more than 500 and upto 2000 sqm.	1. Extinguishers 2. Hose reel 3. MCP 4. Down comer 5. Sprinkler (if basement area exceeds 200 sqm) 6. Terrace tank - 10000L (add 5000L if basement) 7. Pump - 450 LPM (Add 450 LPM if basement). 8. Provision of alternate source of power supply for pumps.

		(C2) Less than 12 m in height and covered area more than 2000 and upto 5000 sqm.	<ol style="list-style-type: none"> 1. Extinguishers 2. Hose reel 3. MCP 4. Down comer 5. Sprinkler (if basement area exceeds 200 sqm) 6. Automatic detection & Alarm system 7. Terrace tank - 20000L (add 5000L if basement) 8. Pump - 900 LPM (Add 450 LPM if basement). 9. Provision of alternate source of power supply for pumps.
		(C3) Less than 12 m in height and covered area more than 5000 sqm.	<ol style="list-style-type: none"> 1. Extinguishers 2. Hose reel 3. Wet riser 4. Automatic Sprinkler system 5. Manual call point 6. Automatic detection & Alarm system 7. Underground tank 50000 Ltr. 8. Terrace tank - 10000L(add 5000L if basement area exceeds 200 sqm) 9. Terrace Pump- 450 LPM Add 450 LPM if basement area exceeds 200 sqm) 10. Diesel & electric each 1620 LPM & one jockey 180 LPM.

परिशिष्ट- (F)**मिक्स ऑक्यूपेन्सी भवन (लो-राईज)
(less than 12 m in height)**

लो-राईज भवन की मिक्स ऑक्यूपेन्सी में आवेदक द्वारा किसी एक भाग यथा-क्लीनिक, बार, रेस्टोरेन्ट, कोचिंग सेन्टर, शॉप्स इत्यादि की एन०ओ०सी० अग्निशमन व्यवस्था सुझावित करते हुये दी जा सकेगी। अग्निशमन उपकरणों का परीक्षण अलग-अलग ऑक्यूपेंसी के लिये एन०बी०सी० में वर्णित अग्निशमन व्यवस्थाओं के अनुसार पृथक-पृथक किया जा सकेगा। अग्निशमन व्यवस्थाओं का विवरण निम्नवत है :-

Fire protection arrangement for special occupancy

S.N.	Occupancy Name	Fire protection arrangement
1.1	Restaurants and Bars (Single floor less than 500 sqm)	1. Fire extinguishers, Automatic detection system. 2. Automatic fire extinguishers to be installed for electrical panel, UPS, Diesel generator set.
1.2	Coaching centre, Doctor clinic, Dental Clinic (Only OPD), shop (Situated on single floor less than 500 sqm)	1. Fire extinguishers. 2. Automatic fire extinguishers to be installed for electrical panel, UPS, Diesel generator set.

Note: 1: The requirements given in this document for group G industrial buildings (G-1, G-2 & G-3) are for small scale industry units for other industries the requirements will have to be worked out on the basis of relevant Indian codes & standards. And also, in consultation with the local fire authority.

2. For clauses not mentioned in this document the fire & life safety norms mentioned in NBC: 2016 (or latest version of the code) is to be referred.

परिशिष्ट- (G)

Group H – Storage Occupancy(Less than 12 m in height)

Minimum Requirements for Fire Fighting Installations (as per NBC 2016)		Uttarakhand	
Building Details as per NBC Table-7	Existing Norms	Amended Building Detail	Amended Norms
(1) Covered Area less than 250 sqm below 15 m in height	1. Extinguishers 2. Hose reel 3. Sprinkler system 4. Terrace tank - 25000L 5. Terrace Pump - 900 LPM	(1) Covered Area less than 250 sqm less than 12m in height	1. Extinguishers 2. Hose reel 3. Sprinkler system (only in case of basement exceeds 200 sqm) 4. Terrace tank - 10000L (add 5000 L in case of basement exceeds 200 sqm) 5. Terrace Pump - 900 LPM
(2) Covered Area more than 250 sqm (i) Ground Floor Only	1. Extinguishers 2. Hose reel 3. Wet Riser 4. Yard Hydrant 5. Automatic Sprinkler 6. Manual call point 7. Automatic detection & Alarm system. 8. Underground water tank – 50000L 9. Terrace tank - 10000L 10. Diesel & electric Pumps each 1620 LPM & one jockey 180 LPM. 11. Terrace Pump - 450 LPM	(2) Covered Area more than 250 sqm and less than 500 sqm less than 12m in height (i) Ground Floor Only	1. Extinguishers 2. Hose reel 3. Yard Hydrant 4. Automatic Sprinkler (in case of basement exceeds 200 sqm area) 5. Manual call point 6. Automatic detection & Alarm system. 7. Terrace tank - 10000L (add 5000 L if basement exceeds 200 sqm) 8. Terrace Pump - 900 LPM 9. Provision of alternate source of power supply for pumps.
(1) Covered Area more than 250 sqm (ii) Ground Plus one Floor	1. Extinguishers 2. Hose reel 3. Wet Riser 4. Yard Hydrant 5. Automatic Sprinkler 6. Manual call point 7. Automatic detection & Alarm system. 8. Underground water tank – 75000L 9. Terrace tank - 10000L 10. Diesel & electric Pumps each 2280 LPM & one jockey 180 LPM.	(2) Covered Area more than 250 sqm and less than 500 sqm (ii) Ground floor +1 floor less than 12m in height	1. Extinguishers 2. Hose reel 3. Down comer 4. Automatic Sprinkler (if basement exceeds 200 sqm area) 5. Manual call point 6. Automatic detection & Alarm system. 7. Terrace tank - 15000L (add 5000 L if basement exceeds 200 sqm) 8. Terrace Pump - 900 LPM 9. Provision of alternate source of power supply for pumps.

	11. Terrace Pump - 450 LPM		
(1) Covered Area more than 250 sqm (iii) More than Ground plus one Floor	1. Extinguishers 2. Hose reel 3. Wet Riser 4. Yard Hydrant 5. Automatic Sprinkler 6. Manual call point 7. Automatic detection & Alarm system. 8. Underground water tank - 100000L 9. Terrace tank - 10000L 10. Diesel & electric Pumps each 2280 LPM & one jockey 180 LPM. 11. Terrace Pump - 450 LPM	(2) Covered Area more than 250 sqm and less than 500 sqm less than 12m in height (iii) More than Ground plus one Floor	1. Extinguishers 2. Hose reel 3. Down comer 4. Automatic Sprinkler (if basement exceeds 200sqm) 5. Manual call point 6. Automatic detection & Alarm system. 7. Terrace tank - 20000L (add 5000 if basement exceeds 200 sqm) 8. Terrace Pump - 900 LPM 9. Provision of alternate source of power supply for pumps.
(3) Covered area more than 500 sqm (to be added)	-	(3) Covered area more than 500 sqm and less than 12m in height	1. Extinguishers 2. Hose reel 3. Wet Riser 4. Yard Hydrant 5. Automatic Sprinkler 6. Manual call point 7. Automatic detection & Alarm system. 8. Underground water tank - 100000L 9. Terrace tank - 10000L 10. Diesel & electric Pumps each 2280 LPM & one jockey 180 LPM. 11. Terrace Pump - 450 LPM