

DEPARTMENT OF FIRE AND RESCUE SERVICES
GOVERNMENT OF KERALA

Application No: FRS/13/KNR/15185/2024/SITE

Site Clearance Certificate Issued

NO OBJECTION CERTIFICATE (FOR BUILDING PERMIT) RESIDENTIAL BUILDINGS

A1-Lodging or rooming houses

UP TO 15 MTRS IN HEIGHT

APPLICATION FORM / CHECKLIST
FORM “R-6”

A. General Section

1. Applicant Details

(The following details shall be submitted by the applicant)

Applicant Name :Reshma

Permanent Address with PIN Code :Puthiyaveetil
Kodiyeri
Kannur
Kerala
Pincode : 676602
India

Communication Address with PIN Code :Same as above

Mobile No :9562134261

Email :pranav221997@gmail.com

Company :

As per LMBR/ KPBR 2019
Name of Applicant: Reshma
Village and Panchayath:Kannur I And Kannur (C)

The Particulars furnished above are correct
Signature of the Applicant



DEPARTMENT OF FIRE AND RESCUE SERVICES GOVERNMENT OF KERALA

Applicant Signature :



2. Site Details

(Details of Land in which Building is to be Constructed / Location of Proposed Building)

Survey No :48957395

Village :Kannur I

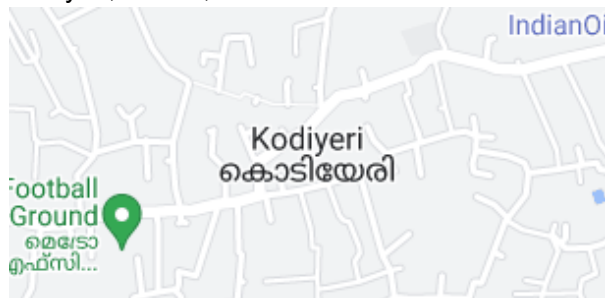
Taluk :Kannur

District :Kannur

Corporation/ Municipality/ Grama Panchayath :Kannur (C)

Fire Station :Kannur F&RS

Nearby Permanent Landmark :Kodiyeri, Kerala, India



3. Building Details

3.1 Details of the Proposed Building

Height (in meters) as per KMBR 32/KPBR 36 :12.21 m

As per LMBR/ KPBR 2019

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Total Built up Area (in sq m) :500.00 m²

No. of Floors :3

Total Floor Area (in sq m) :400.00 m²

Floor-wise area details of the Existing and Proposed Building

Floor No	Floor Description	Built up Area(in Sqm)			Floor Area(in Sqm)		
		Existing	Proposed	Total Built up	Existing	Proposed	Total Floor
-1	Basement Floor	Not applicable	166.67 m²	166.67	Not applicable	133.33 m²	133.33
0	Ground Floor	Not applicable	166.67 m²	166.67	Not applicable	133.33 m²	133.33
1	Upper Floor	Not applicable	166.67 m²	166.67	Not applicable	133.33 m²	133.33
		Not applicable	500.01	500.01m²	Not applicable	399.99	399.99 m²

4. Fee/Challan Amount Calculation

(Total Chalan Amount to be calculated based on given rate.)

Whether the challan fees amount is exempted :No

Rate/sqm for buildings :11.58 Rs/-

Actual Fee* = Total Built up Area (m2) x Rate/sqm :5,790.00 Rs/-

Amount to be remitted (50 %) of actual amount :2,895.00 Rs/-

Minimum Fee :18,200.00 Rs/-

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Total Payable :18,200.00 Rs/-

Total Payable After Adjustments ** :**18,200.00 Rs/-**

Total fees paid by the applicant ** :**18,200.00 Rs/-**

5. Building drawings and Fire drawings

Building drawing(*.dwg/*.pdf):

15185_CivilPlan

Fire Plan Drawing(*.pdf):

15185_FirePlan

NOC Covering Letter from Localbody (*.jpg/*.pdf)

(KMBR 39/ KPBR 44) :15185_NOC

B. Technical Section

1.Site Details

1.1 Clearance from Electric Lines (KMBR22/ KPBR22)

A) Low & Medium Voltage Line

Vertical Clearance (in mtr)

Required : Min 2.4 mtrs

No Vertical Line

As per LMBR/ KPBR 2019

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Horizontal Clearance (in mtr)

Required : Min 1.2 mtrs

No Horizontal Line

A) High Voltage Line

Total Line Capacity(in kV)

(Please specify total High Voltage line capacity here)

0 KV

Vertical Clearance (in mtr)

Required : Min 3.7 m up to 33KV (+ 0.3 m for every additional 33KV)

No Vertical Line

Horizontal Clearance (in mtr)

Required : Min 1.85 m up to 33KV (+0.3 for every additional 33KV)

No Horizontal Line

Note: Angular clearance from electrical lines should not be less than the vertical clearance of respective category.

1.2 Access ((KMBR / KPBR 28)

Minimum width of access road (in mtr) :

Width required based on Floor Area:

Up to 8000 sqm

Access road min width: m

Above 8000 to 18000 sqm

Access road min Width:: m

Above 18000 to 24000 sqm

Access road min Width: : m

As per LMBR/ KPBR 2019

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<u>Above 24000 sqm</u> Access road min Width :: m
0 mtr
Whether the Location plan of the proposed building mentions the following details:
a) Details of approach road : (Y/N) Required : Required value is Yes
b)Visible land mark on either sides and opposite to the plot : (Y/N) Required : Required value is Yes

1.3 Miscellaneous

Are there any adjacent Building/ Land of Nuclear Installation/ Nuclear Waste Dumping Site which may pose threat in respect of Fire Safety to the Proposed Building? (Y/N) Required : Required Value is No
If above answer is Yes, Whether the Location plan of the proposed building show the required details. (Y/N) Required : Required Value is Yes

1.4 Open Space for High-rise Building (If the building is having more than 5 floors other than basement or Height more than 16 mtr) (KMBR 81/KPBR 81)

Width of clear motorable open space of the building on the side contiguous to the street/Access (in Mtr): Required : Minimum 5 Required
mtr



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.Width of clear motorable open space in one of the sides contiguous to the side mentioned in (1) above (in Mtr) <i>Required :</i>
mtr
Width of the main Entrance Gate to the Building: <i>Required : Minimum 5 Required</i>
0
Whether an Arch /Covered Gate is constructed for the Main Entrance? (Y/N)
If the answer is Yes, Head Room clearance of Arch/Covered Gate <i>Required : Minimum 5 Required</i>
0

Note:

- (a) 1,2 are meant to provide clear motorable road on the front side and at one of the sides so that a fire tender can access the building from the front side and contiguously to one of the two sides of the plot/premises.
- (b) The open space should be kept free of vehicle parking or any other erections and it should be shown in the plan.
- (c) The projections of roof or weather shade or cornices of not more than 75cm width shall be admissible in the open space.
- (d) For open space around the building the Applicant should enter the **minimum** and **maximum** of the values (if it is not uniform)

2.Structural Details

2.1 Staircase

Total No: of staircases in the building: <i>Required : Any building having more than 3 floors including basement shall have at least 2 staircases</i>
0
No: of main staircases in the building : (KMBR 35/ KPBR 35) <i>Required : As per Occupant Load (Calculation statement to be attached)</i>

As per LMBR/ KPBR 2019

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0

No of Fire escape staircases in the building:(Refer Foot Note 1) (KMBR 35/ KPBR 35)

Required : Any residential building having more than 3 floors and any other building having more than 2 floors above ground level shall be provided with fire stair

0

Whether all staircases are continuous from ground floor to the terrace level? (Y/N) (NBC Part IV 4.4.2.4.3.2 and KMBR 35)

Required : Required value is Yes

Whether all staircases are constructed of non combustible materials?(Y/N)

Required : Required value is Yes

Whether any living Space, Store or other Fire Risk area is directly opened to staircases (Flights and Midlanding)? (Y/N)

Required : Required value is No

Whether any electrical shaft/ AC ducts/ gas pipes etc is passing through or opening at staircase (Flights and Midlanding)? (Y/N)

Required : Required value is No

Whether any staircase is constructed around a lift shaft?(Y/N)

Required : Required value is No

Whether any lift opens into any staircase (Flights and Midlanding)? (Y/N)

Required : Required value is No

Whether any staircase is of completely enclosed type? (Y/N)

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Required : Required value is Yes or No

If answer to above question is Yes, Whether the completely enclosed type staircase is a pressurized staircase? (Y/N)

Required : Required value is Yes

Whether all staircases are ventilated at each landing and at the top by a vent of 0.5 m²? (Y/N) (NBC Part IV Notes to table 6)

Required : Required value is Yes or No

Whether fire-escape stair is separated and as far as possible remote from the other staircases? (Y/N) (NBC Part IV 4.4.2.4.3.4, KMBR 35/KPBR35)

Required : Required value is Yes

Whether the Fire escape staircases are directly connected to the ground as well as to the public/common areas of all floors?(KMBR 35/ KPBR 35)

Required : Required value is Yes

How many sides of the Fire Escape/External stair cases have abutting with external wall?

Required : 1 or 2

0

Whether any Spiral Stairway is provided in the building as FireEscape Stair Way?(Y/N)See Note 5

Required : Required value is Yes or No

If answer is Yes, diameter of the spiral stair. (KMBR 35)

Required : Not less than 150cm

As per LMBR/ KPBR 2019

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- Note 1:** When the building is having more than one main staircase and one of them is provided as an external stair way conforming to the provision of fire escape staircase, a separate fire escape stair need not be provided. (KMBR 39/KPBR 44)
- Note 2:** When any staircase is of completely enclosed type, it should be pressurized. (NBC Part IV 4.10)
- Note 3:** Fire Escape Staircase shall always be kept in sound operable conditions. (NBC Part IV 4.11.1)
- Note 4:** The routes of fire escape staircases shall be kept free from obstructions at all times. (NBC Part IV 4.11.5)
- Note 5:** At least one side of the fire escape stairway shall be an external wall either with large openings or with break-open glass. (KMBR 114/ KPBR 109)
- Note 6:** In the event a door has been provided to access the staircase, that should be Fire Resistant (for 1hr) and open out. (It should not kept in locking conditions)
- Note 7:** All the occupants of each floor of the building should have access to minimum 2 staircases of which 1 should be the Fire escape staircase.
- Note 8:** Staircases should be properly ventilated. If natural ventilation is not possible, mechanical ventilation should be provided.
- Note 9:** Ideally the Internal Staircase should not have any obstruction so as to give a clear passage to escape.

2.1.1 Staircase Specifications

a. Main Staircase (KMBR 35/ KPBR 35)

Sl.No	Width of staircase	Tread	Riser	Height of Hand Rails	Gap of Baluster
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Width of Staircase:
Required : Not less than 120 cms

Width of Tread:
Required : Not less than 30 cms

Height of Riser:
Required : Not exceeding 15 cms

Height of Hand Rails:
Required : Not less than 90 cms

As per LMBR/ KPBR 2019

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Gap of Baluster:

Required : Not exceeding 15 cms

Egress Calculation :

b. Fire Escape staircase (KMBR 35,81/ KPBR 35, 81)

Sl.No	Width of staircase	Tread	Riser	Height of Hand Rails	No Of Flights
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Width of Staircase:

Required : Not less than 100cms

Width of Tread:

Required : Not less than 25 cms

Height of Riser:

Required : Not more than 19cms

Height of Hand Rails:

Required : Not less than 100cms & not more than 120cms

No of Steps per Flight:

Required : Not exceeding 16 Nos

**This is only the minimum width required. For high rise and heavily occupied buildings actual width and number of staircases are to be estimated by egress calculations by the Architect and the maximum travel distance permitted for each category of the building is to be strictly adhered.*

Note : *In a Building there may be a number of Staircases, Internal and External. So details shall be provided in respect of each of the Staircase.*

2.2 Exit requirements

NBC Part IV 4.4.2.5,4.4.1(d)

As per LMBR/ KPBR 2019

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What is the Number of exits from each floor of the building?:

Required : Minimum 2 required

0

Whether all means of exits towards staircases are adequately and naturally ventilated? (Y/N):

Required : Required value is Yes

Whether signages are installed to guide the occupants to reach all means of exits?:

Required : Required value is Yes

Whether all signs posted to guide the occupants are illuminated (24 X 7) with an alternate source of Power supply or made in such glowing/luminous material ? (Y/N):

Required : Required value is Yes

Note: All exit requirements should be adhered to as per KMBR 41 & 45/ KPBR 46 & 50.

All routes to exit should be clearly marked

All exits should be clearly visible

All exits should be reached without passing through another occupied unit

All exits should be removed from each other and arranged to provide direct access in separate directions from any point

The plan of each floor of the building, clearly showing the Emergency Exits, Staircases, Lifts, Fire Ducts etc should be kept in the respective Floor at strategic points.

2.3 Travel Distance

(KMBR / KPBR 36, NBC2016 Part IV 4.4.2.1, 4.4.2.2)

What is the maximum travel distance to an emergency exit?:

Required : Should not exceed 30 m

0

What is the minimum Dead end corridor length in exit access in all floors

As per LMBR/ KPBR 2019

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Required : Shall not Exceed 15 M

Note: Emergency exits maybe doorways, corridors or passages to an internal staircase or external staircase leading to the street or to the roof of a building. Emergency exit maybe a horizontal exit leading to an adjoining building at the same level.

Lift and Escalators shall not be considered as emergency exits.

2.4 Emergency and Escape Lighting

(NBC Part IV 3.4.7.1)

Whether adequate illumination with alternate power supply is provided for safe movement of persons towards and through the exits? (Y/N)

Required : Required value is Yes

Whether adequate illumination with alternate power supply is provided for locating fire alarm call points and fire fighting equipments? (Y/N)

Required : Required value is Yes

Whether emergency lighting is independently connected and can be operated by one switch on the ground floor which is easily accessible to Fire Fighters? (Y/N)

Required : Required value is Yes

Note:

Emergency and escape lighting should be capable of indicating the escape routes clearly and unambiguously

Emergency escape lighting should be activated within one second of the failure of main electric supply

Emergency lighting system should be capable of continuous operation for a minimum duration of 1Hr. and 30 Mins

2.5 Basements

(NBC Part IV 4.2.19&4.6.2)

Whether the building is provided with basement floor (Y/N)

Required : Required value is Yes or No

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If answer to above question is Yes, How many number of basement floors are proposed in the building?

Required : Number not restricted

0

Number of exits provided to basements

Required : Not less than 2

0

Whether each basement has total ventilation not less than 2.5 % of the floor area evenly distributed around the perimeter of the basement?

Required : Not less than 2

If the answer to the above (4) is 'N'.Whether Mechanical Ventilation is provided? (Y/N)

Required : Required Value is Yes

If no: of basement floor is more than 1,Whether Mechanical Smoke Extractors Whether Mechanical Smoke Extractors are provided with alternate source of power supply? (Y/N)

Required : Required Value is Yes

Whether any part of building lower than the ground has direct accessibility from outside? (Y/N)

Required : Required value is Yes

Whether any part of building lower than the ground has direct accessibility from outside? (Y/N)

Required : Required value is Yes

Note: Kitchen working in Gas fuel should not be allowed in basement, unless air conditioned.

2.6 Service Ducts and shafts

(NBC Part IV C-1.9)

As per LMBR/ KPBR 2019

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Whether all Internal Service Ducts or Shafts proposed/ provided in the building

Required : Required value is Yes or No

If the answer to the above question is 'Y'

(a)Whether all Internal Service Ducts and Shafts are properly enclosed by fire resistant masonry walls and doors?

Required : Required value is Yes

(b)Whether all Internal Service Ducts/Shafts are properly sealed and Fire Stopped at all Floor Levels?

Required : Required value is Yes

(c)Whether all Internal Service Ducts and Shafts have a vent opening at the top?

Required : Required value is Yes

2.7 Compartmentation of Large Areas

(NBC Part IV C-1.8)

Whether the area of single compartment exceeds 750 M²?(Y/N)

Required :

If the answer to the above question is 'Y', Whether such area of the building is fully sprinkled? (Y/N)

Required :

If the answer to the above question is 'Y', Whether compartmentation is provided as specified (2) below. (Y/N)

Required :

Note:*All floors should be compartmented with area not exceeding 750m² by a separation wall.

3.Portable fire fighting Equipments/ Fixed Installations

As per LMBR/ KPBR 2019

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3.1(A) Minimum Requirement for fire fighting installations

NBC Part IV (Table 7)

(Applicable for buildings with upto 15 rooms)

Whether fire safety installations proposed/installed conform to relevant Indian Standards? (Y/N)

Required : Required value is Yes

Whether Portable fire Extinguisher BIS-2190 installed(Y/N)

Required : Required value is Yes

Whether Automatic Sprinkler system-BIS-15105 is installed in entire building? (Y/N)

Required : Required value is Yes, if the basement area exceeds 200m²

What is the capacity of Terrace tank? (in ltr) :

ltr

Whether Fire Brigade Inlet is installed in the building? (Y/N)

Required : Required value is Yes

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3.1(B)Minimum Requirement for fire fighting installations

NBC Part IV (Table 7)

(Applicable for buildings with more than 15 but up to 30 rooms)

Whether fire safety installations proposed/installed conform to relevant Indian Standards? (Y/N)

Required : Required Value is Yes

Whether Portable fire Extinguisher BIS-2190 installed(Y/N)

Required : Required Value is Yes

Whether First Aid Hose reel-3844/1989 installed? (Y/N)

Required : Required Value is Yes

Whether Automatic Sprinkler system-BIS-15105 is installed in entire building? (Y/N)

Required : Yes , if basement area exceeds 200m²

What is the capacity of Terrace tank? (in ltr) :

ltr

Capacity of the Terrace level pump installed?(in ltr)

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Required : 450, +450 if base
ment area exceeds 200m2

Whether Fire Brigade Inlet is i
nstalled in the building? (Y/N)
Required : Required value is
Yes

3.1(C)Minimum Requirement for fire fighting installations

NBC Part IV (Table 7)

(Applicable for buildings with more than 30 rooms)

Whether fire safety installatio
ns proposed/installed confor
m to relevant Indian Standar
ds? (Y/N)
Required : Required value is
Yes

Whether Portable fire Exting
uisher BIS-2190 installed(Y/
N)
Required : Required value is
Yes

Whether First Aid Hose reel-
3844/1989 installed? (Y/N)
Required : Required value is
Yes

Whether Automatic Sprinkler
system-BIS-15105 is installe

As per LMBR/ KPBR 2019
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d in entire building? (Y/N)
Required : Required value is Yes, if basement area exceeds 200m2

Whether Manually Operated electric Fire alarm system – BIS-2189 installed? (Y/N)
Required : Required value is Yes

What is the capacity of Terrace tank? (in ltr) :

ltr

Capacity of the Terrace level pump installed?(in ltr)
Required : 450 litres (+450 if basement area exceeds 200 m2)

Whether Fire Brigade Inlet is installed in the building? (Y/N)
Required : Required value is Yes

Pump Calculation :

As per LMBR/ KPBR 2019
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Note: *The size (dia) of rising mains should be 100mm with single outlet landing valves

** Dia of the sprinkler pipes and their reduction at different levels shall be marked in the plan.

** The number of sprinklers arranged in the pipe line shall not exceed the limit specified for the diameter of the pipe. If for buildings 45 m and above, the entire quantity of water for fire fighting purpose is provided at the terrace level, the main pumps and Jockey Pump need not be provided. However, one Electric fire pump with 900LPM capacity and with automatic operation is required to be provided.

3.2 Automatic High Velocity Water Spray Emulsifying System (NBC Part IV 5.1.4)

Whether indoor oil-cooled transformers present in the building?(Y/N)

Required : Required value is No

If answer to above question is Y, Whether Automatic High Velocity Water Spray Emulsifying System is provided in accordance with IS 3034:1993? (Y/N)

Required : Required value is Yes

Note: *The size (dia) of rising mains should be 100mm with single outlet landing valves

** Dia of the sprinkler pipes and their reduction at different levels shall be marked in the plan.

** The number of sprinklers arranged in the pipe line shall not exceed the limit specified for the diameter of the pipe.

If for buildings 45 m and above, the entire quantity of water for fire fighting purpose is provided at the terrace level, the main pumps and Jockey Pump need not be provided. However, one Electric fire pump with 900LPM capacity and with automatic operation is required to be provided.

3.3 Fixed Foam Installation (NBC Part IV 5.1.5)

As per LMBR/ KPBR 2019

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Whether oil storage area of boilers are present in the basement? (Y/N)

Required : Required value is No

If answer to above question is Y, Whether Fixed foam Installation system is provided?(Y/N)

Required : Required value is Yes

Whether cable tunnels and confined areas are present in the building?(Y/N)

Required : Required value is No

If answer to above question is Y, Whether Fixed Foam Installation system is provided or not? (Y/N)

Required : Required value is Yes

3.4 Gas Based Suppression System

(NBC Part IV 5.1.6)

Whether there is an area in building where water or foam cannot be used, or areas of special fire risk/essential applications?(Y/N)

Required : Required value is No

if answer to above question is Y, Whether Gas Based Fixed system provided or not in accordance with IS 15528:2004?(Y/N)

Required : Required value is Yes

As per LMBR/ KPBR 2019

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Note: *All Fire Stations / Cabinets, for installing or keeping First Aid Fire Protection Equipment such as fire hose reel, hydrant valve, fire hose, branch pipe, etc should be provided in strategic locations of all floors, @ one station for every 1000M2 of Built up area.

*Fire Stations shall be preferably inside the building

*The location of Fire Stations / Cabinets should be easily accessible, visible and should be in such a way that any remote corner of the building/floor is within 30Mtrs radius of the nearest fire station.

3.5 Fire Station/Cabinet

No of Fire Station/Cabinet provided in the building:

Required : Read Notes

0

Whether all Fire Stations/ Cabinets are clearly marked 'FIRE' with luminous signs powered by UPS?(Y/N)

Required : Required value is Yes

Note: *All Fire Stations / Cabinets, for installing or keeping First Aid Fire Protection Equipment such as fire hose reel, hydrant valve, fire hose, branch pipe, etc should be provided in strategic locations of all floors, @ one station for every 1000M2 of Built up area.

*Fire Stations shall be preferably inside the building

*The location of Fire Stations / Cabinets should be easily accessible, visible and should be in such a way that any remote corner of the building/floor is within 30Mtrs radius of the nearest fire station.

3.6 Marking of equipments

(NBC Part IV 5.1.7)

Whether all the metal fittings of Down comer system and all the fire extinguishers have BIS Marking? (Y/N)

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As per LMBR/ KPBR 2019

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Note: All fire fighting equipments should be suitably located and clearly marked by luminous signs.

4. Affidavit / Confirmation from the Applicant, Architect and Licensed Contractor concerned.

<p>Certified that this plan is prepared strictly in compliance with KMBR/kpbr 2019 and other relevant rules.</p> <p>un</p>
<p>Certified that the materials used / proposed to be used or installed are as per the required fire resistant rating in NBC of India -2016, Part-IV</p> <p>un</p>
<p>Certified that all the proposed Electrical Installations and power supply for the proposed building is as per NBC of India -2016 Part 1V and necessary emergency power distribution system for fire and life safety systems also proposed in the building as per NBC 2016 Part IV 3.4.6.2</p> <p>un</p>
<p>Certified that all the proposed Air Conditioning, Smoke Management, Ventilation and Staircase Pressurisation Systems for the building are as per NBC of India -2016; Part-IV</p> <p>un</p>
<p>Certified that all the proposed lightning protection installations for building is as per NBC of India -2016; Part-IV? (Y/N)</p>

As per LMBR/ KPBR 2019
Name of Applicant: Reshma
Village and Panchayath: Kannur I And Kannur (C)

The Particulars furnished above are correct
Signature of the Applicant



DEPARTMENT OF FIRE AND RESCUE SERVICES
GOVERNMENT OF KERALA

un

Certified that gas bank, supply lines and other associated fittings proposed / installed in the Building are a s per NBC of India -2016, Part-IV.
un

Note:

- 1. The affidavit need to be signed by the applicant only, if it is for “No Objection Certificate (For Building Permit)”.
- 2. For “Certificate of Approval”, the affidavit should be filed as prescribed above after obtaining signature from the concerned.
- 3. The address with PIN Code and license details of the Licensed Technical Person signing the Affidavit along with the applicant shall be clearly written in the Affidavit for Certificate of Approval.
- 4. If any of the services listed for filling Affidavit is not proposed for the building, an affidavit to that effect shall be filled.

As per LMBR/ KPBR 2019
Name of Applicant: Reshma
Village and Panchayath:Kannur I And Kannur (C)

The Particulars furnished above are correct

Signature of the Applicant

