

CHECK LIST FOR ISSUANCE OF NO OBJECTION CERTIFICATE FOR HIGH RISE BUILDINGS

➤ **Instructions for filling the Check List**

- 1) Read explanatory notes carefully, before filling the form.
- 2) The requirements listed need to be fulfilled to comply with rules and Regulations. If an item is complied with mark 'Yes' and if an item is not complied with, Mark 'No'. If an item is not applicable to the particular building, mark 'Not Applicable' (NA).
- 3) In the pre construction stage, the marking may be Yes/No/NA. In the post Construction stage full details in all columns should be filled in and relevant Vendor literature should be provided for fire safety systems/items.
- 4) Portable fire extinguishers and miscellaneous fire safety measures will be checked, before issuing of final NOC for enabling the Municipal Authority issue occupancy certificate and hence the same should be envisaged in the planning stage.
- 5) The Checklist is not all-inclusive. The architect should make sure that all Applicable rules and regulations are fully complied with AP fire service Act 1999/NBC, All applicable Building Laws.
- 6) The items with '*' mark are mandatory.
- 7) The design and plan of the building shall be made and countersigned by a Qualified civil or structural Engineer, an Architect (NBC-part 2) and the Owner/Builder.
- 8) If more than one block is proposed, you should attach separate checklist for each block.
- 9) Submit proposed construction plan -5 sets (site and Location plan, Basement Floor Plans, Stilt Floor Plans, floor wise plan, terrace plan, Section and Elevation duly marking fire safety systems location of transformer etc., along with General information Performa and 5 sets of checklist dully filled in, Estimates towards the provision of fire safety systems, 15% of the estimates of Fire Safety system as Bank Guarantee, Undertaking on Rs 100/- Stamp-paper and original Challan towards the payment of Fire precaution Fee @ Rs 10/- per Sq mtr of total built-up area including basements and stilts areas).

10) Checklist should be neatly typed without any corrections. Checklists with overwriting, Corrections and interpolations shall be summarily rejected.

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| I | *1.1 | Name and Address of the Applicant | |
| | *1.2 | Address of the Premises | |
| | *1.3 | Address for Correspondence (provide phone number, Fax and email id if any) | |

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| *1.4 | Designation and Address of Licensing Authority issuing building permit to whom NOC has to be sent (Tick the appropriate authority) | GHMC/HUDA/APIIC/VUDA/VGTUDA/KUDA/TUDA/Others |
| *1.5 | Name of the Block | a) No. of Blocks proposed in the premises _____ b) Block _____ c) Shape of the Building Normal / Special (for special buildings pl.refer Rule No. 8, 9.7 and 9.8 of Revised building Rules 2006) _____ |
| 1.6 | Height of the Block | Enter the Height of the Building _____ mtrs (Building above 30 mtrs height not permissible for (i) Group-B, Educational, (ii) Group-C Institutional, (iii) Group-D Assembly and (IV) Group-F Mercantile occupancies. In case if mixed occupancy, the permissible height is subject to scrutiny by the department as per Clause 3.4.5.1 of part 4 NBC of India 2005. Note for the buildings above 60 m height, the builder shall submit Additional emergency plan of action, including provision and maintenance of hydraulic platform with capacity to have an access upto the terrace of the building, round the clock with officer and crew, helipad, firefighting shaft as per B.S.5588 of 1986) Note: pl. refer section No. 2 (1) of A.P Fire Service Act 1999. |
| *1.7 | Type of building occupancy (refer NBC-4,3.1;3.4.7, Table 23) | _____ |
| *1.8 | Sub Occupancy Type | _____ |
| *1.9 | Area of the site in sq metres (minimum 2000 sqm) | _____ sq mtrs. |
| *1.10 | (i) Total Built-up area of all floors including basements & stilts (in sqm) (ii) Fire precaution fee remittance particulars | _____ sq mtrs. Fire Precaution Fee Payment should be made in the form of Challan Only @ Rs 10/- per Sq mtr for the total buildup area including basement and stilt areas. ESeva User charges should be paid in the form of cash. Challan No. _____, Amount _____ and Date _____ Name of the Bank _____ Name of the Branch _____ Treasury challan under the following head of account SM: 0070 – Other Administrative Services. MH:109 – Fire Protection and Control SH: (02) Fees on Fire |

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| | | | DH: 001- Other Receipts DDO Code - 25001005001 |
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| | *1.11 | Surrounding of the Premises | North _____ South _____ East _____ West _____ |
| | *1.12 | Open space front & other 3 sides of the Block | Open space front & other 3 sides (NBC-iii-4.6; 8.2.3.1,9.4.1(a); part 4-3.4.6 & Table III & IV of Revised Building Rules 2006) Note- Access space vide a) NBC- iii-4.6, "additional" to open spaces, reqd. vide iii-8.2/3,as per NBC-part 4-3.4.6.1.,) additional to parking space per part 4-7.4.1.c. If ht. exceeds 15 mtrs. refer NBC-iii-8.2.3.1 for minimum open space, around the bldg and 9.4.1(a) for front open space. (pl. refer table IV of Revised common Building Rules 2006) |
| | *1.12.1 | | Open space on North side _____ mtrs |
| | *1.12.2 | | Open space on South side _____ mtrs |
| | *1.12.3 | | Open space on East side _____ mtrs |
| | *1.12.4 | | Open space on West side _____ mtrs Note: (1) The front and remaining sides set backs shall confirm to table III and Table IV of Revised Common Building Rules 2006. <u>The open spaces on all sides of the Multi-stored Building are subject to scrutiny by the A.P. Fire & Emergency Services Department.</u> (2) For buildings up to 18 m height - minimum of 6m open space, and above 18m height minimum 7m open space subject to claiming relaxations if any by the competent authority. (3) The open space to be left between two blocks shall equivalent to the open space mentioned in column (3) of Table IV of Revised Building Rules 2006. (4)Transformer location must be marked in the site/Ground floor plans. |
| | *1.12.5 | | Front side _____ Direction(East/West/North/South) |
| | 1.13 | Projections into open spaces | |
| | 1.13.1 | | Front _____ mtrs _____ direction |
| | 1.13.2 | | Side1 _____ mtrs _____ direction |
| | 1.13.3 | | Side2 _____ mtrs _____ direction |
| | 1.13.4 | | Rear _____ mtrs _____ direction |
| | | Note: | For upper floors from 2 nd floor onwards, the balcony projection of up to 2m may be allowed projecting into the open spaces. Pl. refer rule 9.6 (iii) and rule 12 of revised building rules 2006. |

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| *1.14 | Block Details | | | | | | |
| | *1.14.1 | Number of floors _____ Number of Basements _____ Number of Stilts /Ground floor _____ | | | | | |
| | *1.14.2.1 | Capacity (aggregate width) of exits shall be based on occupant load (in the affected floor(s) and occupants that can be safely evacuated per 50 cms of exit, which is: 25/50/75 for stairs/ramp /doors, respectively, for residential educational or institutional bldgs. Corresponding figures are 50/ 60/ 75 for business& mercantile bldgs., for assembly occupancy 40/50/60, stairs/doors/ramps respectively (NBC- part 4- 4.3/ 4.4) (Aggregate stairs width) _____ | | | | | |
| | 1.14.2.2 | Whether horizontal exits are provided _____(Provided/Not Provided) Note:- When horizontal exit is provided in buildings of mercantile, storage, industrial, business and assembly occupancies, the capacity per storey per unit width of exit of stair ways in table 21 may be increased by 50 percent and in buildings of institutional occupancy it may be increased by 100 percent.(4.4.3 Part 4 NBC) | | | | | |
| | 1.14.3 | Floor | Area in Sq mtrs | Classification of Occupancy | No. Of Occupants as declared by the builder | No. Of occupants based on Table 20 i.e floor area divided by occupant load | Total Aggregate width of stair-case in mtrs(as declared by the builder) |
| | | Basement 1 | | | | | |
| | | Basement 2 | | | | | |
| | | Stilt/Ground Floor | | | | | |
| | | Stilt 2 | | | | | |
| | | Floor1 | | | | | |
| | | Floor2 | | | | | |
| | | Floor3 | | | | | |
| | | Floor4 | | | | | |
| | | Floor5 | | | | | |
| | | Floor6 | | | | | |
| | | Floor7 | | | | | |
| | | Floor8 | | | | | |
| | | Floor9 | | | | | |
| | | Floor10 | | | | | |

Note: The Satisfactory compliance of Means of escape ie., Aggregate width of staircase, No.of staircase & their locations, requirements of ramps is subject to the scrutiny by the A.P Fire services dept.

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| | 1.15 | Refuge area | Refuge area (NBC-part 4-4.12.3 & appendix D-1.11) ____ sq mtrs |
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|---------------------------------|--|---|------------------------|-------------------------------|--------|-------------------|--------|-------|-------------------|--|--|---------------------------------|--|--|
| *1.16 | Width of the road to which the building abuts and whether it is hard surfaced and motorable | <p>The premises is abutting ____ no of Roads. For Minimum width of abutting street refer (NBC-iii-4.6.a; 4.8; part 4-7.4.1.a). (Note: The Abutting Road width should be minimum 12 mtrs) Specify Abutting Street Details:</p> <table border="0" style="width: 100%; text-align: center;"> <tr> <td>Abutting Street Name</td> <td>Abutting Street Width in mtrs</td> <td>Side</td> </tr> <tr> <td colspan="3">Abutting Street 1</td> </tr> <tr> <td colspan="3">Abutting Street 2</td> </tr> </table> | Abutting Street Name | Abutting Street Width in mtrs | Side | Abutting Street 1 | | | Abutting Street 2 | | | | | |
| Abutting Street Name | Abutting Street Width in mtrs | Side | | | | | | | | | | | | |
| Abutting Street 1 | | | | | | | | | | | | | | |
| Abutting Street 2 | | | | | | | | | | | | | | |
| *1.17 | Entrances (Minimum width should be 4.5 mtrs and head room clearance should be minimum 5.0 mtrs) | <p>Proposed to provide ____ number of entrance/exit. Specify: Entrance/Exit Details</p> <table border="0" style="width: 100%; text-align: center;"> <tr> <td>Entrance width in mtrs</td> <td>Abutting Road Width</td> <td>Side</td> </tr> <tr> <td colspan="3">Entrance 1</td> </tr> <tr> <td colspan="3">Entrance 2</td> </tr> <tr> <td colspan="3">Head room clearance _____ mtrs.</td> </tr> </table> | Entrance width in mtrs | Abutting Road Width | Side | Entrance 1 | | | Entrance 2 | | | Head room clearance _____ mtrs. | | |
| Entrance width in mtrs | Abutting Road Width | Side | | | | | | | | | | | | |
| Entrance 1 | | | | | | | | | | | | | | |
| Entrance 2 | | | | | | | | | | | | | | |
| Head room clearance _____ mtrs. | | | | | | | | | | | | | | |
| *1.18 | Car parking | <p>Car Parking Details Basement/Stilt/Ground Floor No Of Cars</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 60%;">Basement</td> <td style="text-align: center;">_____</td> </tr> <tr> <td>Stilt</td> <td style="text-align: center;">_____</td> </tr> <tr> <td>Ground</td> <td style="text-align: center;">_____</td> </tr> </table> | Basement | _____ | Stilt | _____ | Ground | _____ | | | | | | |
| Basement | _____ | | | | | | | | | | | | | |
| Stilt | _____ | | | | | | | | | | | | | |
| Ground | _____ | | | | | | | | | | | | | |
| 1.19 | Ramps | <p>Proposed to provide ___ramps (If no basement is there for the building, please enter 'NA'.) Specify Ramp Details</p> <table border="0" style="width: 100%; text-align: center;"> <tr> <td>Width of Ramp in mtrs</td> <td>Side</td> </tr> <tr> <td colspan="2">Ramp 1</td> </tr> <tr> <td colspan="2">Ramp 2</td> </tr> </table> <p>Note:- As per cl 12.9.3 f open ramps shall be permitted if they are constructed within the building line.</p> | Width of Ramp in mtrs | Side | Ramp 1 | | Ramp 2 | | | | | | | |
| Width of Ramp in mtrs | Side | | | | | | | | | | | | | |
| Ramp 1 | | | | | | | | | | | | | | |
| Ramp 2 | | | | | | | | | | | | | | |
| *1.20 | Staircases | | | | | | | | | | | | | |
| | *1.20.1 | <p>No. of Internal staircase _____(Minimum 1) No. of External staircase _____(Minimum 1) All the external staircases shall be designed to abut one of its sides to the external wall.</p> | | | | | | | | | | | | |

| | *1.20.3.3 | Height of the riser | ____ cm |

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| | *1.20.3.4 | Number of riser _____ per flight |
| | *1.20.3.5 | Height of the hand rails _____ mtr (should be 1 mtr). |
| | *1.20.3.6 | The gap between two verticals _____ cm (should not exceed 15 cm) |
| | *1.20.3.7 | Head room clearance _____ mtr |
| 1.21 | Lifts | |
| | 1.21.1 | _____ Number of Passenger lifts Passenger Lift Details: Capacity(kgs) Passenger Lift 1 Passenger Lift 2 |
| | 1.21.2 | _____ Number of Service lifts Service Lift Details: Capacity(kgs) Service Lift 1 Service Lift 2 |
| 1.22 | Generator | _____ Number of Electrical Generators Generator Details: Capacity(kva) Generator 1 Generator 2 Note: Electrical generator with auto start and auto changeover from normal to emergency source to supply power to staircase and corridor lighting circuits, fire lifts, the standby fire pump, pressurization fans and blowers, smoke extraction and damper systems in case of failure of normal electric supply. |
| *1.23 | Minimum fixed fire fighting installations | Whether minimum fixed fire fighting installations as prescribed in table 23 of NBC-part 4 are provided(NBC –part 4 appdx –d is also applicable) Note: The requirement of minimum firefighting installation in respect of mixed occupancies of height hazard as per clause 3.4.7 of part 4 NBC of India. |
| | 1.23.1 | Proposed to provide _____ number of Manual Call Points in the entire building. |
| | 1.23.2 | Proposed to provide _____ number of Smoke Detectors, _____ number Of Heat detectors, _____ number of Beam Detectors in the entire building. (Please refer IS 2189:1999) |
| | 1.23.3 | Proposed to provide Detection Control Panel in _____ floor. |
| | 1.23.4 | Proposed to provide _____ number of automatic sprinklers in the entire building. (Please refer IS 15105:2002) |
| | 1.23.5 | Proposed to provide _____ number of Hose Reels in the entire building. |

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| | 1.23.6 | Proposed to provide ___number of Wet Risers/Wet Riser cum Down comers. |
| | 1.23.7 | Proposed to provide ____number of Yard Hydrants. |

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| | *1.23.8(a) | Proposed to provide ____ number of underground static Water tank/tanks, totally _____ltrs capacity. Underground Static water Tank Details Ltrs Underground Static water Tank 1 Underground Static water Tank 2 |
| | 1.23.8(b) | Mention Nearest Water source _____(River/Lake/Pond/Well/ Muncial Water Works) |
| | *1.23.9 | Proposed to provide ____number of Terrace tank/tanks, totally ____ltrs Capacity. Terrace Tank Details Ltrs Terrace Tank 1 Terrace Tank 2 |
| | 1.23.10 | Proposed to provide the following pumps |
| | *1.23.10.1 | Jockey Pump Details: ltrs/min capacity. Jockey Pump 1 Jockey Pump 2 |
| | *1.23.10.2 | Electrical Main pump Details: ltrs/min capacity. Electrical Main pump 1 Electrical Main pump 2 |
| | *1.23.10.3 | Standby Diesel pump Details: ltrs/min capacity. Standby Diesel pump 1 Standby Diesel pump 2 |
| | 1.23.10.4 | Booster pump Details: ltrs/min capacity. Booster pump 1 Booster pump 2 |
| | *1.23.11 | _____ Number of Fire lifts Fire Lift Details: Capacity Fire Lift 1 Fire Lift 2 (Note minimum one Fire Lift with capacity Not less than 545 kgs / 8 persons lift for every 1200 sq mtrs area as per NBC part 4 – Annexure C 1.5) |
| | *1.24 | Bank Guarantee 15% of the estimates of Fire Safety System Rs _____ as Bank Guarantee. |
| | *1.25 | Nearest Fire Station _____ and Telephone Number _____ |

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| 1.26 | Public Address System | _____ (Provided/Not Provided) |
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| II | S. No | Description | | | |
|----|----------|---|-----|----|----|
| | *2.1 | Whether Building Owner/Occupier Name and his address is filled in and signed | YES | NO | |
| | *2.2 | Whether Location and Address of the Building/Site is filled in | YES | NO | |
| | *2.3 | Whether Buildings plans include the following (for filling 2.3.1 to 2.3.34, please refer NBC-ii-12.2.5.1) Note: The plans should be to scale. All plans shall be not less than 1:100 scale | | | |
| | *2.3.1.1 | Whether 5 sets of Checklist duly filled in all columns and signed are submitted? | YES | NO | |
| | *2.3.1.2 | Whether 5 sets of site plan duly marking open places on all sides is submitted. | YES | NO | |
| | *2.3.1.3 | Whether 5 sets of Floor wise plans including Basements/Stilts duly marking fire safety systems are submitted. | YES | NO | |
| | *2.3.1.4 | Whether 5 sets of Terrace plans are submitted. | YES | NO | |
| | *2.3.1.5 | Whether 5 sets of Section plans are submitted. | YES | NO | |
| | *2.3.1.6 | Whether 5 sets of Elevation plans are submitted. | YES | NO | |
| | *2.3.2.1 | Width of the abutting street (to be not less than 12 mtrs.) (NBC iii-4.6) | YES | NO | |
| | 2.3.2.2 | Show if it is terminating in dead end(NBC-iii-4.7;part 4-3.4.6) | | | |
| | *2.3.3 | Area of the plot | YES | NO | |
| | *2.3.4 | Plan of all floors with staircases, corridors | YES | NO | |
| | *2.3.5 | Lift well, ramps,(if provided) | YES | NO | |
| | *2.3.6 | Two section dwgs, through stairs(NBC-ii-12.2.5.1.b/c) | YES | NO | |
| | *2.3.7 | Occupancy of all parts/ floors of bldg, (NBC- ii-12.2.5b; 13.2.f; part 4-3.1.12/3.1.14 & 4.3) | YES | NO | |
| | 2.3.8 | For filling item 2.3.8.1-2.3.8.4, please refer to (NBC-ii-12.2.5.1.j/n;-part 4-3.4.11/12;-C1.6/7; 1.17) | | | |
| | 2.3.8.1 | Details of : air-conditioning & dampers | YES | NO | NA |
| | 2.3.8.2 | Details of : mechanical ventilation & smoke exhaust Systems | YES | NO | NA |
| | 2.3.8.3 | Details of : vents for smoke to minimize their spread | YES | NO | NA |
| | 2.3.8.4 | Details of : Vents which should be minimum 2.5% of floor area of Basement | YES | NO | NA |

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| | 2.3.9 | For filling item 2.3.9.1-2.3.9.2, please refer to (NBC- ii-12.2.5.1.d/e/m;part 4-3.4/4; C-1.5/16; IS-1646;I.E.R.) | | | |
| | *2.3.9.1 | Location of elec. sub-station, transformer , generator, fire-lift | YES | NO | |
| | *2.3.9.2 | Location of smoke-stops in lobby/ floors | YES | NO | |
| | 2.3.10 | For filling item 2.3.10.1-2.3.10.4, please refer to (NBC-II-12.2.5.p/q/r/s;-part 4.5.1.2) | | | |
| | *2.3.10.1 | Underground static water storage tank, terrace tank and fire pumps | YES | NO | |
| | *2.3.10.2 | Detection and fire alarm systems | YES | NO | |
| | *2.3.10.3 | hose-reels, wet-riser/wet riser cum Down comer (minimum one wet riser for every 1000 sqm covered area) | YES | NO | |
| | *2.3.10.4 | Automatic Sprinklers (basement area >200 sqm automatic sprinklers should be provided) | YES | NO | |
| | *2.3.11 | Details of motorable access to & around bldg. and turning radius at bldg.corners. (NBC- ii-12.2.5.1.a;-iii-4.6/7) | YES | NO | |
| | *2.3.12 | Vehicular parking spaces (NBC-ii-12.2.51.g ,iii-.10/appdx.B) | YES | NO | |
| | 2.3.13 | For filling item 2.3.13.1-2.3.13.3, please refer to (NBC-ii-12.2.5.1.b/k;iii-12.9.3.f; ii-8.3 to 13) (Note NBC-part 4-4.2.9; 4.2.10.m; C.6.2; for stairs from upper floors to basement. For corresponding rules for lifts, see NBC-part 4-appdx-C1.5.h/j) | | | |
| | *2.3.13.1 | Size(widths) of exit staircases | YES | NO | |
| | *2.3.13.2 | Size(widths) of balcony approach, corridors | YES | NO | |
| | *2.3.13.3 | Size(widths) of ventilated lobby approach | YES | NO | |
| | 2.3.14 | Compartmentation (if any), show typical detail of fire- resistant doors/stops(NBC-part 4-3.4.7,3.4.8,3.4.9;C-9;) | YES | NO | NA |
| | 2.3.15 | Site plan duly marking open spaces on all sides from the building line to boundary of the premises | YES | NO | NA |
| | 2.4 | Type of Construction (NBC-part 4-3.3) | | | |
| | *2.4.1 | Construction to be type 1, including for ,external walls, load bearing elements, roof, stairs, lifts ,exit routes corridors.(NBC-part 4-3.3,3.4.7;IS- 1642) | YES | NO | |
| | *2.4.2 | Specifications for all fire safety items like fire resistant doors used as "fire Cut-offs" or " fire-breaks", or for stairs/lifts, to be furnished (NBC-part 4-3.4.8.1/3/9) | YES | NO | |
| | *2.4.3 | Finishing material used for interior surfaces and décor not to generate toxic smoke/fumes (NBC- 3.4.15; IS 12777 &1642) | YES | NO | |

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| 2.5 | Access/Open space | | | | |
| | 2.5.1 | Dead end in abutting street allowed only in residential bldg. below 30 mtrs. ht,in which case,81 sq. mtrs turning space reqd. (NBC-iii-4.7;) | YES | NO | NA |
| | *2.5.2 | Entrance gate minimum width & head room, 4.5&5 mtrs. resp.(NBC-part 4-3.4.6.1;) | YES | NO | |
| | 2.5.3 | Approach to bldg. and access space on all sides up to 6 mtrs. width shall (refer to NBC-iii-4.4.2, / 4.6,/8.4, 1.d, /part 4-3.4.6,3.4.6.1.c/d,5.1.6) | | | |
| | *2.5.3.1 | be hard surfaced for 45 ton fire vehicles and be motorable | YES | NO | |
| | 2.5.3.2 | if have roof on water tank or bridge, if any in access route, should withstand a load of 45 ton fire vehicle. (NBC-part 4-5.1.6) | YES | NO | NA |
| | *2.5.3.3 | This space of 7 mtrs, for access, shall be maintained free of parking, and kept free of any obstructions, structures or fixtures up to first floor, above which 2 mtrs. unenclosed balconies are allowed | YES | NO | |
| 2.6 | Exit Requirements | | | | |
| | 2.6.1 | General Exit Requirements (B-20/21; NBC-part 4-4, appdx. C) (Note-Lift and escalators shall not be considered as exits.(NBC-part 4-4.2.2)) | | | |
| | *2.6.1.1 | Every public place to have sufficient safe exits-without passing through another occupied unit.(NBC-part 4-4.2.4/4.2.11) | YES | NO | |
| | *2.6.1.2 | All escape Exit routes to have clearly visible & illuminated signs with battery backup emergency alternate power supply ,(NBC-part 4-4.2.7;4.16.3/4/10,C1.14b) | YES | NO | |
| | *2.6.1.3 | Fire-check doors for fire resistance of two hour to prevent spread of fire/ smoke, in escape routes, particularly at entrance to lifts and stairs which are prone to funnel/ flue effect (NBC-part 4-4.2.9) | YES | NO | |
| | 2.6.1.4 | Exits to suffice simultaneously for assembly and other occupancy, if any, unless Fire department determines that, condition are such that simultaneous occupancy will not occur -(NBC-part 4- 6.4.4.8/9) | YES | NO | NA |

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| 2.6.2 | | | | | |
| | *2.6.2.1 | Number of persons within any floor area or occupant load shall be based on actuals, but not less than that given in (NBC- part 4-4.3;Table 21) | YES | NO | |
| | *2.6.2.2 | Locate exit stairs, so that travel distance does not exceed 22.5 mtrs for residential, educational, institutional and hazardous occupancies and 30 mtrs for assembly, business and storage and 45m for Industrial buildings. These should be remote to one another and should provide exit in different directions. For basements travel distance should not exceed 15 meters(NBC- part 4- 4.5) | YES | NO | |
| | *2.6.2.3 | Doorways to be min. 100 cms (200 cm. for assembly areas) | YES | NO | |
| | *2.6.2.4 | open into corridors or through landings into enclosed staircases for continuous protected egress (NBC-part 4- 4.7) | YES | NO | |
| | *2.6.2.5 | staircases shall be of enclosed type (NBC-part 4-4.6) | YES | NO | |
| | *2.6.2.6 | No. and sizes of exit staircases to depend on 6b(1 to 3) above and 7A5 (NBC-part 4-4.3/4/5&6) | YES | NO | |
| | *2.6.2.7 | Exit doors to be open able from served side, without keys.(NBC-part 4-4.7.5) | YES | NO | |
| | 2.6.3 | Corridors and Passageways | | | |
| | *2.6.3.1 | The width of the above shall not be less than the aggregate required width of exit doors leading in direction of egress .(NBC- part 4-4.8.1) | YES | NO | |
| | *2.6.3.2 | The above (& stairs/lifts) shall have fire/smoke resistant doors | YES | NO | |
| | *2.6.3.3 | Have adequate ventilation(NBC-part 4-4.8.3) | YES | NO | |
| | *2.6.3.4 | Illumination required to ensure safe travel | YES | NO | |
| 2.7 | 2.7a | Internal Staircase | | | |
| | 2.7a.1 | For (2.7.a.1.1-2.7.a.1.4) (Refer NBC- part 4-4.9.6/7/8) | | | |
| | *2.7a.1.1 | Minimum width 1.5 mts.. for other than Assembly buildings(For Assembly and Hospital buildings minimum width is 2.0 meters)(Net width of stairs, available between hand rails important) | YES | NO | |
| | *2.7a.1.2 | Tread 25/30 cms. for residential/other than assembly | YES | NO | |
| | *2.7.a.1.3 | Riser max 15 cms ht | YES | NO | |

| | | | | | |
|------------|---------------------------------|---|-----|----|--|
| | *2.7a.1.4 | No. of risers not more than 15 nos. per flight | YES | NO | |
| | *2.7a.1.5 | Construction should be with non-combustibles material.(NBC- part 4-4.9.1) | YES | NO | |
| | *2.7a.2 | To be a self contained unit with at least one external wall and be completely enclosed. (NBC- part 4- 4.9.2) | YES | NO | |
| | *2.7a.3 | Shall not be around lift(NBC-part 4-4.9.3) | YES | NO | |
| | *2.7a.4 | Hand rails to be at at 100 cms. height (NBC- part 4- 4.9.9) | YES | NO | |
| | *2.7a.5 | To be designed such that the no. of people in between floor landings, is not less than those on each floor. (NBC- part 4-4.9.10) | YES | NO | |
| | *2.7a.6 | To contain no electrical shafts/AC ducts or gas pipes.(NBC- part 4-4.9.4/10f) | YES | NO | |
| | *2.7a.7 | Access to stairs shall be through two hr. rated fire/smoke door (NBC-part 4-4.9.10.b) | YES | NO | |
| | 2.7b | External Stairs | | | |
| | *2.7b.1 | Shall be directly connected to ground.(NBC- part 4-4.11.2) | YES | NO | |
| | *2.7b.2 | Minimum width 1.25 meters | YES | NO | |
| | *2.7b.3 | Entrance to be separate and remote from internal stairs. (NBC-part 4-4.11.3) | YES | NO | |
| | *2.7b.4 | To have no wall/window opening , close to it (NBC-part 4-4.11.4) | YES | NO | |
| | *2.7b.5 | Open able vents/ducts to outer air be provided at landings to facilitate venting of smoke, if any, and for rescue/fire fighting (NBC-part 4 C.1.4). | YES | NO | |
| | *2.7b.6 | Route to be Always free of any obstructions /doors shall be open able from the served side without use of a key(NBC-part 4-4.11.6) | YES | NO | |
| | *2.7b.7 | Shall be of noncombustible materials and doors leading to it shall have the reqd. fire resistance. (NBC- part 4-4.11.6) | YES | NO | |
| | *2.7b.8 | Fire escapes not to be taken into account in calculating evacuation time.(NBC-part 4.11.10) | YES | NO | |
| | *2.7b.9 | Width/tread, to be not less than 1.25 meters/ .25. resp.; riser not more than 19 cm. and flights/angle not more 15/45 degrees, resp. (NBC-part 4, 4.11.7/8).(However, the corresponding dimensions for internal stairs ie: width/tread/riser at 150/25/15 cm. resp. are much preferred to ensure safer evacuation.) | YES | NO | |
| 2.8 | Miscellaneous Exit Items | | | | |
| | 2.8.1 | Fire Tower | | | |

| | | | | | |
|--|---------|--|-----|----|----|
| | 2.8.1.1 | Fire Tower is the preferred escape route, being an enclosed staircase, approached from floors, thru. landings separated from floors and stairs by fire-resistant doors and open to outer air (NBC-part 4-3 & 4.13) | YES | NO | NA |
|--|---------|--|-----|----|----|

| | | | | | |
|-------------------------------|-----------|---|-----|----|----|
| | 2.8.1.2 | For business, mercantile, institutional, theaters , if >8 stories or >24 mtr ., in height, at least one fire tower is reqd. | YES | NO | NA |
| | 2.8.2 | Horizontal Exits | | | |
| | 2.8.2.1 | To have with the same width at least one fire door of self-closing type(NBC-part 4-4.12.1/2) | YES | NO | NA |
| | 2.8.2.2 | Doors to be openable at all times .from served side(s) (NBC- part 4-4.12.5) | YES | NO | NA |
| | 2.8.2.3 | Refuge area of 15 m ² or an area equivalent to 0.3 m ² per person to accommodate the occupants of two consecutive floors, whichever is higher, shall be provided as under. (a) For Floors above 24 m and upto 39 m – one refuge area immediately above 24 m (b) For Floors above 39 m – one refuge area on the floor immediately above 39 m and soon after every 15 m | YES | NO | NA |
| | 2.8.3 | Ramps | | | |
| | 2.8.3.1 | To be not steeper than 1 in 10 and Never steeper than 1 in 8. Surface to be skid proof NBC-part 4-4.14) | YES | NO | NA |
| | *2.8.3.2 | To never abut the street without level space, so as to provide safe sighting, before driving into the street. (NBC-iii-10). | YES | NO | |
| | 2.8.3.3 | In plots over 2000 sq. mtrs. Ramps shall be within bldg, line, for safety reasons | YES | NO | |
| 2.9. Electrical Safety | | | | | |
| | *2.9.1 | To comply with Indian Electrical Rules, including related Indian standards/Codes stipulated therein ; NBC viii-2 ; N.E.C.-iii-3; and IS-4878-14 ; IS- 1646 &732. | YES | NO | |
| | *2.9.2 | Elec. Installations shall be by licensed electrical contractor & supervised by holder of competency-certificate/permit issued by government. Appropriate certificates reqd.(IS-732-3.5) | YES | NO | |
| | *2.9.3 | Completion drawings showing all circuits to enable functional checks to verify compliance with applicable rules(NBC-viii-3-9.1.5/9.2; IS 732.-3.1/.4.1/.5/.9) | YES | NO | |
| | *2.9.4 | Specific Requirements | | | |
| | *2.9.4a.1 | Emergency and escape lighting powered by source independent of normal power, for stairs/ exit routes & fire alarm | YES | NO | |
| | *2.9.4a.2 | with One and half hrs. battery backup (NBC-part 4-4.16 ; appendix-D1.14) | YES | NO | NA |
| | *2.9.4b | Alternate/Emergency generator fed, separate, direct power circuits for For Item 2 (refer NBC-part 4-C.1.5.p ;1.6.4.3 ; 1.12,14,15) | | | NA |

| | | | | | |
|------|--|---|-----|----|----|
| | *2.9.4b.1 | Fire pumps, lifts | YES | NO | |
| | *2.9.4b.2 | Smoke Exhausters | YES | NO | |
| | *2.9.4b.3 | Emergency Lighting | YES | NO | |
| | *2.9.4b.4 | Fire Alarm /P.A. Systems (Note: Auto start and auto switch over from normal to emergency source should be ensured) | YES | NO | |
| | 2.9.4c | Transformers ,if in basement to have enclosure of 4hr. rating (NBC-part 4-C.1.16.c) | YES | NO | NA |
| | 2.9.4d | Transformers room/enclosure, location and ventilation / exhaust to be such that no smoke or fumes there from can ingress into exit/escape routes or parking or other parts of the bldg(NBC-part 4-6.4.6.5) | YES | NO | NA |
| | 2.9.4e | Transformer plinth should be at least 15 cm. above grade and if oil filled should have curbs to prevent egress of leaking oil into any parking area.(NBC-viii-2-4.2.2.c/g.) | YES | NO | |
| | 2.9.4f | Periodical verification of efficacy of emergency/alternate power supplies and related escape and fire safety equipment.(IS-1646-3.6&11.6) | YES | NO | NA |
| | *2.9.4g | Compliance with I.S.1646;732; 10028,regarding fire safety of bldg. , electrical wiring & transformers resp | | | |
| | 2.9.4h | Indoor transformers to have auto. High velocity water spray or Emulsifying system.(is-15.10.3) | YES | NO | NA |
| | 2.9.4i | Transformer shall have soak pit, fencing and provided with 45 ltr foam trolley. | YES | NO | NA |
| | 2.9.5 | Power circuits | YES | NO | NA |
| | *2.9.5.1 | The lighting in, passageways, stairways, exits, and parts of bldg. open to public, should be divided into two halves, each half being fed by separate circuit ,controlled by switches , located remote from each other.(IS-1646) | YES | NO | |
| | *2.9.5.2 | Electrical fires being common cause of fires, strict compliance I.E.R 30 (ISI, compliant electrical material) and IS-732 & NBC- viii-2,(for electrical wiring) , is essential | YES | NO | |
| | *2.9.6 | Lightning protection per IS- 2309. (NBC-iii-19) | YES | NO | |
| 2.10 | Fire Protection (The following aspects should be taken care of.) | | | | |
| | 2.10a | Building Design | | | |
| | *2.10a.1 | Type of construction to comply with item 4, above, to prevent rapid spread of fire, smoke or fumes which may otherwise contribute to loss of lives and property. Fire resistance ratings to comply with NBC-part 4 cl-3.3 Table 1. (Any deviations to be specifically, noted) | YES | NO | |

| | | | | | |
|--|--------------|--|-----|----|----|
| | 2.10a.2 | If a bldg. has more than one occupancy it shall comply with requirements of the most hazardous one, unless 4 hr. rated separating wall is provided (NBC- part 4-3.4.7) | YES | NO | NA |
| | *2.10a.3 | Fire resistant doors, 1 hr. rated, in escape routes, particularly at entrance to lifts, staircases , per 7.a-7, above.(NBC-part 4-4.2.4& IS-361 | YES | NO | |
| | *2.10a.4 | Doorway or opening in separating walls/floors to limit spread of fire, smoke by use of 2 hr. rated fire resistance doors/steel rolling shutters (NBC- part 4-3.4.8 & 3.4.8.1; IS-12458) | YES | NO | |
| | *2.10a.5 | Openings in walls/ floors for cables, plumbing etc. to be in ducts/shafts enclosure of 2hr.fire-resistance, with 1 hr. rated inspection doors.(NBC-part 4-3.4.8.2/3 & C.1.9) | YES | NO | |
| | *2.10a.6 | Seal space between cables etc. and shaft ,with fillers, to stop fire at every floor level.(NBC-part 4-3.4.8.3) | YES | NO | |
| | *2.10a.7 | Surface finishes on walls/ ceilings/façade shall minimize the spread of fire or toxic fumes (NBC- part 4-3.4.15.1;C.11) | YES | NO | |
| | *2.10a.8 | Use" class 1 flame-spread", surfacing material, and fabric materials used for décor, carpets, curtains etc. per IS 2777. (NBC-part 4-3.4.15.2,6.4.6.1,C1.2 & 11.1) | YES | NO | |
| | *2.10a.9 | Walls, partitions or floors lined with combustible material, to have surfaces conforming to IS 1642, to prevent rapid fire spread, hampering escape of occupants. (NBC-part 4-3.4.15.5) | YES | NO | |
| | *2.10a.10 | Openable windows, on external walls or on fully glazed facades, to have locks which can be opened by fire-man's axe to enable quick access for rescue of inmates, and for fire-fighting. (NBC-part 4-3.4.16,C.1.7). (Note – Accessibility of fire men into higher floors is important) | YES | NO | |
| | 2.10b | Air Conditioning/ Ventilation | | | |
| | 2.10b.1 | To be designed to minimize spreading of fire smoke & fumes from one fire area/floor to another or to escape/exit path ,staircases, etc. (NBC- part 4-3.4.11 & C1.17;viii-sec.-1/3) | YES | NO | NA |
| | *2.10b.2 | In case of fire, or smoke at A.C's outlet, Automatic dampers to close, to stop spreading of smoke | YES | NO | |
| | *2.10b.3 | In case of fire, stop fans, unless these are arranged to remove smoke from fire area.(NBC-part 4-3.4.11,2) | YES | NO | |
| | *2.10b.4 | From safety point of view, separate air handling systems for various floors are preferred, to minimize hazard of smoke spreading. Refer (NBC-part 4-3.4.11.4) | YES | NO | |

| | | | | | |
|--|--------------|---|-----|----|----|
| | 2.10c | Smoke Venting Note -It is well established that far greater lives are lost due to smoke (more so, if exits are deficient), than due to fire-burns refer (NBC-part 4-3.4.1/12,4.2.9,C1.6) | | | |
| | *2.10c.1 | Automatic smoke vents, with area min.3.3% of floor area, in assembly areas and balconies, shall be installed. Refer (NBC- part 4-3.4.6.4.2/6,4.4,6.4.6.11) | YES | NO | |
| | *2.10c.2 | The above, is natural draft smoke venting, opened by smoke sensitive device, automatically. To substitute this with powered exhausters, dept.'s permission is reqd. Refer (NBC-part 4-3.4,6.4.4/6.4.5) | YES | NO | |
| | 2.10d | Basements(Please refer 12.9.3 of Part 3 NBC and C 1.6 of Part 4 NBC) | | | |
| | 2.10d.1 | Basements, to be separately ventilated with grills etc.having2.5% area of floor. Alternately, air inlet& smoke outlet ducts at floor & ceiling level resp. be provided refer (NBC-part 4-C.1.6.1) | YES | NO | NA |
| | 2.10d.2 | Mechanical extractors with 30 change/hr. in case of fire fed by alternate power also reqd. for lower basement, if any. Refer (NBC-part 4-C.1.6.4) | YES | NO | NA |
| | 2.10d.3 | Smoke from basement fire shall in no case ingress into any exit path/stairs serving upper floors. refer (NBC-part 4-C1.6.6) | YES | NO | NA |
| | 2.10d.4 | Use of LPG/Pressure. stove in basements is prohibited, while allowed in other areas 4 hr, fire- resistant enclosures. refer (NBC-iii-12.9;part 4-C1.6.5) | YES | NO | NA |
| | 2.10.d.5 | Every basement shall be in every part at least 2.4 m in height from the floor to the underside of the roof slab or ceiling. | YES | NO | NA |
| | 2.10.d.6 | Adequate ventilation shall be provided for the basement. The ventilation requirements shall be the same as required by the particular occupancy according to byelaws. Any deficiency may be met by providing adequate mechanical ventilation in the form of blowers, exhaust fans, air-conditioning systems etc.; | YES | NO | NA |
| | 2.10.d.7 | The minimum height of the ceiling of any basement shall be 0.9 m and the maximum 1.2 m above the average surrounding ground level | YES | NO | NA |
| | 2.10.d.8 | Adequate arrangements shall be made such that surface drainage does not enter the basement | YES | NO | NA |
| | 2.10.d.9 | The walls and floors of the basement shall be watertight and be so designed that the effects of the surrounding soil and moisture, if any, are taken into account in design and adequate damp proofing treatment is given | YES | NO | NA |

| | | | | | |
|--|-----------|--|-----|----|----|
| | 2.10.d.10 | The access to the basement shall be separate from the main and alternative staircase providing access and exit from higher floors. Where the staircase is continuous in the case of buildings served by more than one staircase, the same shall be of enclosed type serving as a fire separation from the basement floor and higher floors. Open ramps shall be permitted if they are constructed within the building line subject to the provision of 2.10.d.8. Note: - The exit requirements in basements shall comply with the provisions of part 4 Fire and Life Safety. | YES | NO | NA |
| | 2.10.d.11 | Each Basement shall be separately ventilated. Vents with cross sectional area (Aggregate) not less than 2.5% of the floor area spread evenly round the perimeter of the basement shall be provided in the form of grills, or breakable stall board lights or pavement lights or by way of shafts. Alternatively, a system of air inlets shall be provided at basement floor level and smoke outlets at basement ceiling level. Inlets and extracts may be terminated at ground level with stall board or pavement lights as before, but ducts to convey fresh air to the basement floor level have to be laid. Stall board and pavement lights should be in positions easily accessible to the fire brigade and clearly marked 'Smoke outlet' or air inlet with an indication of area served at or near the opening. | YES | NO | NA |
| | 2.10.d.12 | The staircase of basements, shall be of enclosed type having fire resistance of not less than 2h and shall be situated at the periphery of the basement to be entered at ground level only from the open air and in such positions that smoke from any fire in the basement shall not obstruct any exit serving the ground and upper stores of the building and shall communicate with basement through a lobby provided with fire resisting self closing doors of 1h resistance. For travel distance see 4.5 part 4 NBC. If the travel distance exceeds as given in table 21, Part 4, Additional staircases shall be provided at proper places. | YES | NO | NA |
| | 2.10.d.13 | In Multi-storey basements, intake ducts may serve all basement levels, but each basement level and basement compartment shall have separate smoke outlet duct or ducts. Ducts so provided shall have the same fire resistance rating as the compartment itself. Fire rating may be taken as the required smoke extraction time from smoke extraction ducts. | YES | NO | NA |
| | 2.10.d.14 | Mechanical extractors for smoke venting system from lower basement levels shall also be provided. The System shall be of such design as to operate on actuation of heat/smoke sensitive detectors or sprinklers, if installed, and shall have a considerably superior performance compared to the standard units. It shall also have an arrangement to start it manually. | YES | NO | NA |

| | | | | | |
|--|-----------|---|-----|----|----|
| | 2.10.d.15 | Mechanical extractors shall have an internal locking arrangement, so that extractors shall continue to operate and supply fans shall stop automatically with the actuation of fire detectors. | YES | NO | NA |
| | 2.10.d.16 | Mechanical extractors shall have an alternative source of supply | YES | NO | NA |
| | 2.10.d.17 | Ventilating ducts shall be integrated with the structure and made out of brick masonry or reinforced cement concrete as far as possible and when this duct crosses the transformer area or electrical switch board, fire dampers shall be provided. | YES | NO | NA |
| | 2.10.d.18 | If cutouts are provided from basements to the upper floors or to the atmosphere, all sides cutout openings in the basements shall be protected by sprinkler head at close spacing so as to form a water curtain in the event of fire. | YES | NO | NA |
| | *2.10e | <p>First aid fire extinguishers should be provided as per IS-2190:1992 & NBC-part 4-5.1</p> <p>Note:- The following minimum number of fire extinguishers should be provided.</p> <p>i) One ABC powder extinguishers of 5kgs capacity and 2 number of fire buckets filled with clean, dry, fine sand should be provided for every 8 cars.</p> <p>ii) One extinguishers of 2kgs capacity should be provided near the entrance to each main switch board room.</p> <p>iii) 2 ABC powder extinguishers of 5kgs capacity should be provided near transformer, if installed.</p> <p>iv) 2 ABC powder extinguishers of 5 kgs capacity should be provided inside each lift room.</p> <p>v) 1 water pipe gas cartridge extinguisher of 9 ltrs capacity should be kept near each staircase landing on every floor.</p> <p>vi) Scale of suitable extinguishers for other areas shall be collected before approaching the department for final clearance, after finalizing utility of each area.</p> <p>vii) All the extinguishers suggested above should be with BIS Mark and should be located at an easily accessible position without obstructing the normal passage.</p> | YES | NO | |
| | *2.10f | Fire service inlet(4 way) refer(NBC-part 4- 5.1.6.b) | YES | NO | |
| | *2.10g | Fire lift(546 Kg capacity)@1 for every 1200sq m floor area Refer (NBC-part 4-appdx-C.1.5) | YES | NO | |

| | | | | | |
|------|--|--|-------------------|----------------|----|
| 2.11 | Special Hazards | | | | |
| | *2.11.1 | Rooms with refrigeration equipment/transformer not to be adjacent to each other and should be vented separately to outer air.(NBC-part 4-6.4.6.5) | YES | NO | |
| | *2.11.2 | All rooms/areas storing combustible material/equipment/etc. be effectively cut off from exits/assembly areas.(NBC-part 46.4.6.6) | YES | NO | |
| | *2.11.3 | Whether minimum fixed fire fighting installations as prescribed in table 23 of NBC-part 4 are provided(NBC –part 4 appdx –d is also applicable) 1) Proposed to provide emergency lighting with minimum 2 hrs battery backup in the escape route. 2) Proposed to provide Auto glow signages in all floors. 3) Proposed to provide Public Address System . | YES YES YES | NO NO NO | |
| 2.12 | Miscellaneous | | | | |
| | *2.12.1 | For building 15m and above, NBC-part 4, appdx-C is applicable | YES | NO | |
| | *2.12.2 | One Fire lift with capacity of not less than 545kg (8 persons lift)for every 1200 sq mtrs of floor area shall be provided(NBC-part 4-C.1.5) | YES | NO | |
| | *2.12.3 | All floors to be compartmented into 750sq mtrs area and incase of sprinklered building 1125 sq. mtrs area through 2hr rated fire separation walls(NBC- Part 4 -C.1.8) | YES | NO | |
| | *2.12.4 | Basement ventilation and staircases shall be such that smoke cannot travel to upper floors | YES | NO | |
| | 2.12.5.(a) | For Buildings above 60 mtrs height, Whether helipad arrangement is made(Cl C.10 of annexure C Part 4 NBC, 2005) | YES | NO | NA |
| | 2.12.5.(b) | For Buildings above 60 mtrs height, Whether the additional Emergency plan of action including provision and maintenance of Hydraulic platform with capacity to have an access up to the terrace of the building round the clock with officer and crew duly signed by a qualified fire Engineer is enclosed? | YES | NO | NA |
| | 2.12.5.(c) | For Buildings above 60 mtrs height, Whether Fire fighting shafts as per BS 5588 of 1986 are proposed and earmarked in the plans. | YES | NO | NA |
| | *2.12.6 | Whether compartmentation of upper floors i.e. one compartment for maximum of 1125 sq. mtrs floor area is proposed to be done to confine the fire/smoke to the area where fire incident has occurred(Cl C.9 Annexure C , Part 4,NBC, 2005 | YES | NO | |
| | *2.12.7 | Whether smoke management is strictly ensured, so that exit route is free from smoke logging in case of fire.(Cl 3.4.8, 3.4.9, 3.4.12,4.2.9,4.10 Part 4 NBC,2005 | YES | NO | |
| 2.13 | Fire pumps (Refer Table 23 of Part 4 of NBC, 2005) | | | | |
| | *2.13.1 | Whether estimates for Fire Safety System (certified by the architect) submitted? | YES | NO | |

| | | | | | | | | |
|--|---------|--|------|--------------------------------|------------|-----------|-----|----|
| | *2.13.2 | Whether 15% of the estimates of Fire Safety System as Bank Guarantee is submitted? | | | | YES | NO | |
| | *2.13.3 | Whether challan copy submitted ? | | | | YES | NO | |
| | *2.13.4 | Whether Undertaking on Rs 100/- Stamp paper submitted ? | | | | YES | NO | |
| | *2.14 | Provide name, address, licensed no.signature of technical staff | | | | | | |
| | | | Name | Phone number(Land line/Mobile) | License no | signature | | |
| | | Builder | | | | | YES | NO |
| | | Architect | | | | | YES | NO |
| | | Structural Engineer | | | | | YES | NO |
| | | Electrical Contractor | | | | | YES | NO |
| | | Fire Safety Systems Contractor | | | | | YES | NO |

Explanatory Notes

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|-----|------|--|--|--|--|--|--|--|--|
| III | | | | | | | | | |
| | 3a.1 | "NBC"---National Building Code of India (as amended in 2005 and) . "III"/"IV","VII" etc. refer to parts of NBC. | | | | | | | |
| | 3a.2 | I.E.R. refers to Indian electrical rules. | | | | | | | |
| | 3a.3 | S.P.30-1984 is the National Electrical Code. | | | | | | | |
| | 3a.4 | I.S. refers to Indian Standards | | | | | | | |
| | 3b | NBC-part 4-appdx-D, is mandatory for bldgs. 15 mts and above. However, may be referred to for other buildings. Also, depending on the degree of compliance with applicable rules or local conditions, as determined by the fire department | | | | | | | |
| | 3c | Each of the rules is sufficient provided all others are followed. Hence, inadequate compliance with one rule may warrant enhanced stress on others, as consented to by fire department | | | | | | | |
| | 3d | Brief descriptions are given for each item The referred rules give details | | | | | | | |

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|--|----|---|--|--|--|
| | 3e | <p>Considering the safety scenario in most high-rise bldgs, the un-reliability of power supply, and the high incidence of elec. shorts circuits, etc., resulting in fires, the manual and automatic fire-alarm are preferred for all high-rise bldgs.</p> <p>For the same reasons and because delays in fire reporting/ quenching is often causing avoidable loss of lives and property. Hence automatic sprinklers, which have proven cost effective, are preferred for such bldgs.</p> | | | |
| | 3f | In the pre construction design provisions and commitments can be evaluated but all columns cannot be filled in detail. In this case brief description with applicable I.S. can be given. However, in the post construction stage, specific details of installations, corrections in approved drawings to reflect "as-built" situations, and certificates etc, duly signed by technical persons, should be submitted and all columns filled up, to facilitate inspection, functional checks and issuance of final NOC required for occupancy certificate from Municipal authorities. | | | |
| | 3g | NOC is valid for the particulars provided in the application. For any change of class of occupancy, fresh NOC for occupancy will be required (NBC-part 4-3.1.12 & 3.1.14 & NBC-ii cl -13.2.f & B-4.2.iii-b). | | | |
| | 3h | <p>Most of the fatalities, in fire incidents are due to</p> <p>a) Unrestrained and avoidable spreading of Smoke / fumes due to insufficient smoke Sealing/exhaust arrangements</p> <p>b) Smoke in escape route and in stairs make them Difficult to use.</p> <p>c) Inadequate aggregate width of stairs with Insufficient ventilations.</p> <p>If smoke exclusion from exit stair case is not ensured, then larger aggregate width of stairs would be required to ensure evacuation of inmates of affected floors within two and half minutes stipulated in NBC part 4-cl-8.4</p> | | | |
| | 3i | Any critical delay in rescue by fire fighters because of insufficient access to the mandatory 6m-width access path compounds the problem due to obstructions (upto 4.5m height) like low balconies, support structures and fixtures and parking of vehicles. Therefore the rules related to 8 and 9 above call for strict compliance for preventing | | | |
| | 3j | In each specific case, the fire department may stipulate additional measures, as being necessary for ensuring fire safety of building inmates and public | | | |
| | 3k | The architect and the owner of the building shall sign the checklist and plans. | | | |
| | 3l | This checklist does not cover cinema occupancy (sub occupancy type 01 & 02) | | | |

FIRE SAFETY MEASURES

| Fire Safety measures | No.of Units | Total Estimated cost in Rupees |
|---|-------------|--------------------------------|
| Fire Extinguisher | | |
| Hose Reel | | |
| Dry Riser | | |
| Wet Riser | | |
| Down Comer | | |
| Yard Hydrant | | |
| Automatic Sprinkler System | | |
| Manually operated Electric Fire Alarm System | | |
| Automatic Detection and Alarm System | | |
| Under Ground Static Water Storage Tank | | |
| Terrace Tank | | |
| Pump near Underground Static Water Storage Tank (Fire pump) with minimum pressure of 3.5kg/cm ² at terrace Level | | |
| At the terrace tank level with minimum pressure of 2.0 kg/cm ² | | |