

OWNER'S SIGN.

For Gulshan Homes And Infrastructure Pvt. Ltd.

Authoriséd Signatory

ARCHITECTS SIGN

RAJIV GANDHI
ARCHITECT
LIC. No.-CAI 91/ 13852

STRUCTURAL CONSULTANT

PROPOSED PLAN FOR COMMERCIAL PLOT
NO.-C3-D,SECTOR - 129 NOIDA
FOR GULSHAN HOMES AND
INFRASTRUCTURES PVT LTD

DRAWING TITLE

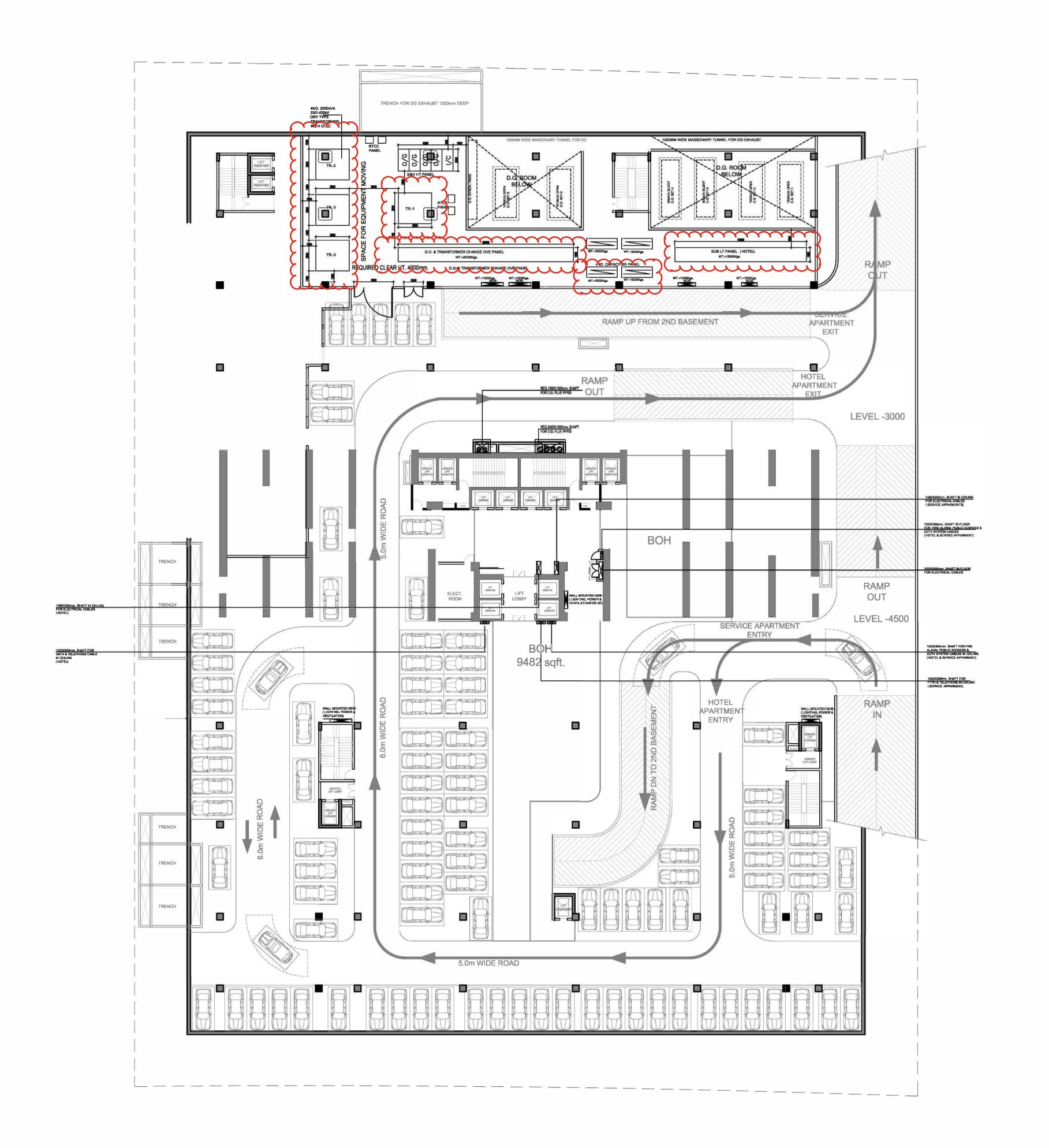
GROUND FLOOR

ELECTRICITY SUPPLY PLAN
Scale 1:200

Scale Date

JOB. NO

SHEET. NO. DRG. NO.



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PROJECT

PROPOSED PLAN FOR COMMERCIAL PLOT NO.-C3-D,SECTOR - 129 NOIDA FOR GULSHAN HOMES AND INFRASTRUCTURES PVT.LTD

DRAWING TITLE

FIRST BASEMENT

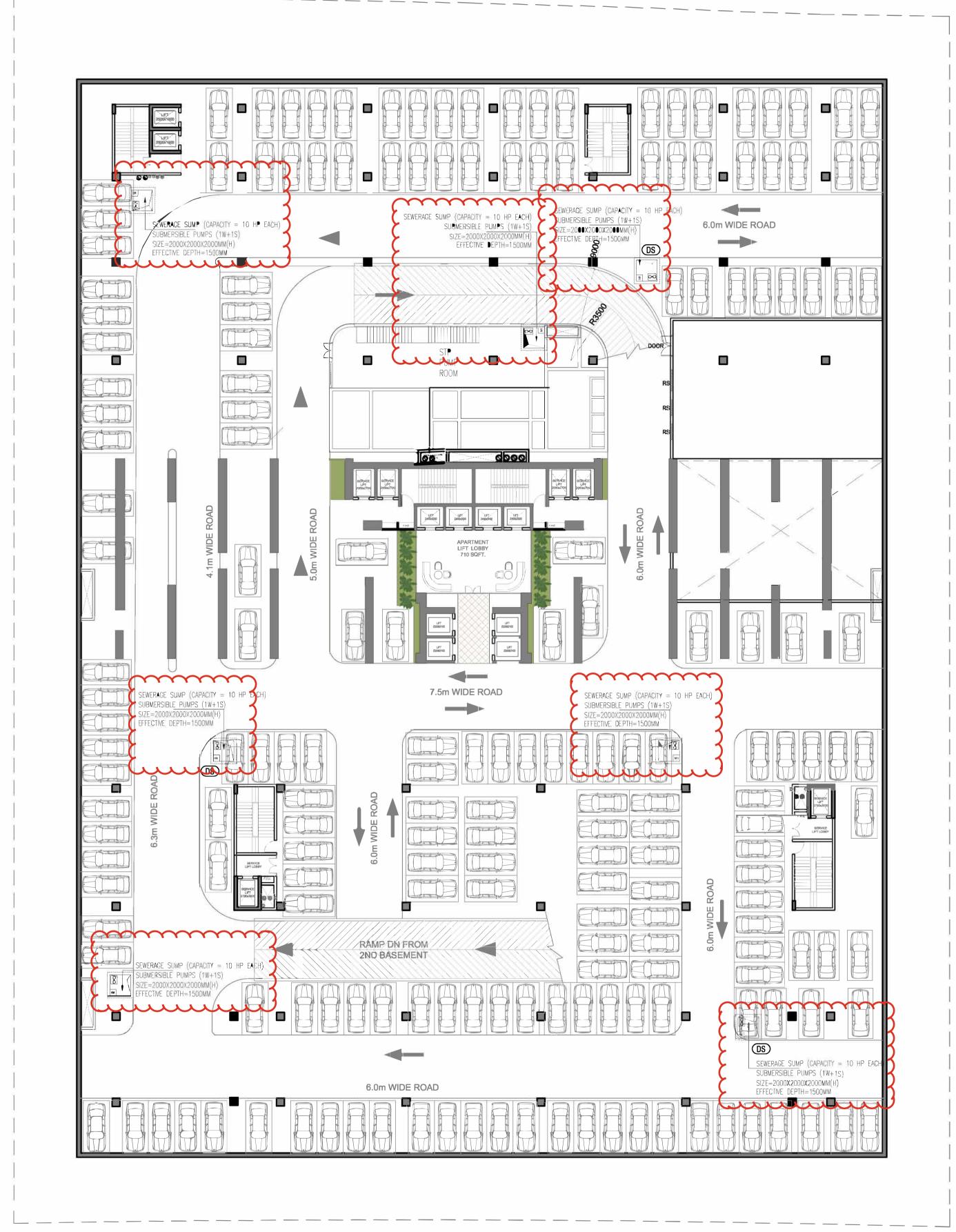
ELECTRICITY SUPPLY PLAN

Scale

Date

SHEET. NO. DRG. NO.

JOB. NO 001



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PROJECT

PROPOSED PLAN FOR COMMERCIAL PLOT NO.-C3-D, SECTOR - 129 NOIDA FOR GULSHAN HOMES AND INFRASTRUCTURES PVT.LTD

DRAWING TITLE

THIRD BASEMENT SUMP PUMP LOCATION

Scale Scale Scale Date

SHEET. NO. DRG. NO.

JOB. NO

004

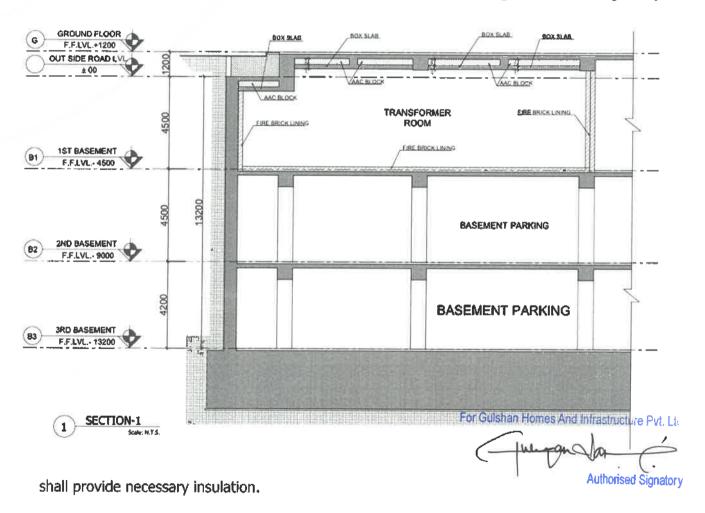


Explanation for electric system in basement with reference to the project named "The G", District Gautam Budh Nagar, Application ID No. 1174120 under U.P. Real Estate Regulatory Authority

The electrical system/sub-station for project "The G" is in basement and shall be in compliance with various Codes, Rules and Regulation as specified in National Building Code, 2016, Central Electrical Authority Rules 2023 and as elaborated below.

The electrical system/sub-station shall employ Dry-Type transformers as required by National Building Code 2016, Central Electrical Authority Rules 2023, in the first basement at periphery of the basement building. Furthermore the enclosed Transformer area shall comprise of 4 No.s 2MVA dry type transformers. However its safety specifications shall be exceed/equal in-terms of firefighting and civil and structural requirements of much larger 10MVA transformer such as :

1. The ceiling slab in/over the dry type transformers room shall be box type or shall comprise of two concrete slabs. This box slab shall give more than 4 hour fire rating. The intervening cavity



2. The walls shall be made using fire bricks so as to exceed 4 hour fire rating specified otherwise.

3. The transformer room shall have automatic fire fighting system as per Central Electricity Regulations 2023, Gazette Notification dated 8th June, 2023, Part III, Section 4, Chapter Vi, Clause 46 (2) (ix), as applicable incase of 10MVA transformers nce Excellence

As noted above, the sub-station at project "The G" shall comply with and is in accordance with following codes, rules and regulations as specified by National Building Code, Central Electricity Regulations 2023, Indian Electricity Rules 1956, U.P. Directorate of Electrical Safety and their stringent safety rules and regulations as noted under:

- 1. The electric system/sub-station at "The G" project shall comply with requirements specified in National Building Code 2016, Part 8, Section 2, Clause 4.2.1.13) at Page 20, which specifies:
 - "13) Dry-type installation In case electric substation has to be located within the main multi-storeyed building itself for unavoidable reasons, it shall be a dry-type installation with very little combustible material, such as, a dry type transformer with vacuum (or SF₆) breakers as HT switchgear and ACB or MCCB as medium voltage (MV) switchgear. Such substations shall be located on the ground level or on first basement, and shall have direct access from the outside of the building for operation and maintenance of the equipment,"
- 2. The electric system/sub-station at "The G" Project shall comply with requirements specified in Central Electricity Regulations 2023, Gazette Notification dated 8th June, 2023, Part III, Section 4, Chapter Vi, Clause 46 (2) (x) lays down following safety measures for **installation of sub-station in basement** where electricity voltage exceeds 650V is supplied. converted, transformed, or used: Ouote —

"Clause/Para 46 (2) (x) undertake the following measures, where it is necessary to locate the substation, or switching station in the basement, namely: -

- (a) the transformer room be in the first basement at the periphery;
- (b) the direct access to the transformer room be provided from outside and the surrounding walls of four hours fire withstand rating be provided as per relevant standards:
- (c) the entrances to the transformer room be provided with fire resistant doors of two hour fire rating and the door shall always be kept closed and a notice of this effect be affixed on outer side of the door;
- (d) a curb of a suitable height be provided at the entrance in order to prevent the flow of oil from a ruptured transformer into other parts of the basement:
- (e) the cables to primary side and secondary side have sealing at all floors and wall opening of atleast two hours fire withstand rating; and
- (f) Fire Retardant Low Smoke Low Halogen cable as per relevant standards be used;
- (xi) ensure that oil filled transformers installed indoors in other than residential or commercial buildings are placed on the ground floor or not below the first basement;
- (xii) ensure that only dry type transformer shall be used inside the residential and commercial buildings;
- (xiii) ensure that cable trenches inside the substations and switching stations containing cables are filled with sand, pebbles or similar non-inflammable materials or completely covered with non-inflammable slabs; and
- (xiv) ensure that unless the conditions are such that all the conductors and apparatus may be made dead at the same time for the purpose of cleaning or for other work, the said conductors and apparatus shall be so arranged that these may be made dead in sections, and that work on any such section may be carried on by the person designated or appointed or engaged or permited undenthese regulations without

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- 3. The sub-station shall be erected in compliance with rules and regulations of U.P. Directorate of Electrical Safety. The U.P. Directorate of Electrical Safety undertake and conducts:
 - 1. EARLY AND PERIODIC INSPECTION OF VARIOUS INSTALLATIONS UNDER CENTRAL ELECTRICITY AUTHORITY REGULATION/INDIAN ELECTRICAL RULES, 1956
 - 1. Regarding electrical installations, the following initial inspections are carried out under the Indian Electrical Rules, 1956 by the Directorate of Electrical Safety: -
 - 2. Early inspection of medium voltage electrical installation under rule-51
 - 3. Inspection of electrical installations of generators over 10 kilowatt capacity under rule-47-A
 - 4. Inspection of electrical installations of multi-storey buildings (height 15 meters) under rule-50 'A'.
 - Inspection of electrical installations of high voltage and extra high voltage under rule-632-Under the Rule-46 of the Indian Electricity Rules, 1956, all electrical acquisitions of low voltage (commercial), medium voltage and high voltage are inspected at the specified intervals.
 - Regular periodic inspection of electrical acquisitions under Uttar Pradesh Energy Section-3 Notification No. -1389 P-3 / 94-23-106 / P-93, dated May 06, 1994 is done at the following intervals: -
 - All high, very high and medium voltage installations will be inspected and tested once in three years.
 - 2. All low voltage installations will be inspected and tested once in five years.
 - Upon installation of the electric system/sub-station the necessary NOC from U.P. Directorate of Electrical Safety shall be obtained by the Gulshan Homes and Infrastructure Private limited being owned of the project.
- 4. The electric system/sub-station in basement shall conform to following compliances as noted above.

Statutory Norms	Compliance Note
within the main multistoried building itself for unavoidable reasons, it shall be a dry-type installation with very little combustible material, such as, a dry type transformer with	with class H insulation HT Breakers shall be SF6 based
and ACB or MCCB as medium voltage (MV) switchgear. Such substations shall be located	LT Breakers shall be ACB/MCCB.
shall have direct access from the outside of the building for operation and maintenance of the equipment.	minimum 3.75 m height is provided for
	Substation is proposed at the periphery of Basement -1
provided from outside and the surrounding walls of four hours fire withstand rating bei provided as per relevant standards	Access route from Ground level with minimum 3.75 m height is provided for transformer nstallation & maintenance. All surrounding walls are four hours fire rated.
	In case electric substation has to be located within the main multistoried building itself for unavoidable reasons, it shall be a dry-type installation with very little combustible material, such as, a dry type transformer with vacuum (or SF6) breakers as HT switchgear and ACB or MCCB as medium voltage (MV) switchgear. Such substations shall be located on the ground level or on first basement, and shall have direct access from the outside of the building for operation and maintenance of the equipment. The transformer room be in the first basement at the periphery Direct access to the transformer room be provided from outside and the surrounding walls of four hours fire withstand rating bei

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4	The entrances to the transformer room be Fire resistant doors of two hour fire rating are provided with fire resistant doors of two hour proposed for entrance to the transforme fire rating and the door shall always be keptroom. Experience Excellent closed and a notice of this effect be affixed on outer side of the door
5	The cables to primary side and secondary Two hour rated fire block sealant shall be side have sealing at all floors and wall provided on wall openings opening of at least two hours fire withstand rating
6	Fire Retardant Low Smoke Low Halogen All Cables shall be FRLSH (Flame Retardant cable as per relevant standards be used Low Smoke & Halogen)
7	Ensure that only dry type transformer shall Dry Type transformers are proposed of indoor be used inside the residential and duty, vacuum cast coil and Class H insulation. commercial buildings
8	Fire Suppression System Proposed with The main panels housing LT switchgear shall every LT Switchgear Enclosure to reduce have automatic gas based fire suppression vulnerability to fire

Therefore, the electrical system/sub-station shall be installed in full-compliance as noted above with requisite codes, rules and regulations as required under **National Building Code 2016**, **Central Electricity Authority Gazette Notification dated 8th June, 2023 and U.P. Directorate of Electrical Safety** and therefore Honourable Authority may kindly be pleased to consider the explanation favourably.

In view of the abovementioned submissions, it is most humbly prayed that this Honourable Authority may kindly be pleased to approve our application for project registration under UPRERA.

Thanking You,

For Gulshan Homes and Infrastructure Pvt. Ltd.

For Gulshan Homes And Infrastructure Pvt. Ltd.

Authorised Signatory

Authorized Signatory

Date: 12-09-2024

Place: Noida

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