

3

**OFFICE OF THE  
MATIGARA PANCHAYAT SAMITY  
P.O. KADAMTALA, DIST-DARJEELING**

Order No.- 59/Atha / MPS /Planning.

Date: 12.07.2018

From:  
The Executive Officer  
Matigara Panchayat Samity


To,  
**Smart Vanijya Pvt. Ltd Represented by Mr. Vineet Banjal**  
**Pusp Niwas**  
**Biswakarma Mandir Road, Siliguri**  
**, Dist. Darjeeling**

**ORDER**

Reference his / her application dated 07.03.2018 for grant of permission for the construction of a <sup>4+3</sup> ~~4~~ (Garrage plus <sup>Three</sup> ~~ten~~) storied Residential building on Plot no.1487(p), 1497(P), 1498, 1499(P), 1500(P), 1501,1502, 1502, 1503, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1504, 1506, 1514, 1515, 1516(P), 1517(P). (L.R), Sheet no \_\_\_ x \_\_\_ Mouza-Baramohansingh, J.L NO - 71, in Atharakhai Gram Panchayat , Matigara Police Station.

**Matigara Panchayat Samity hereby grants permission as proposed /grants permission subject to the conditions stated below:-**

**Revalidated upto:** 11.07.2020


  
Executive Officer  
MatigaraPanchayatSamity

Memo. No. 633 MPS/Planning

Copy forwarded for information to:

1. The Sabhapati ,Matigara Panchayat Samity
- 2.ThePradhan-Atharakhai G.P

Date : 12.07.18

  
Executive Officer  
MatigaraPanchayatSamity

**NOTE:**

1. The above sanction is subject to the condition that the Application shall adhere to the General terms and conditions of building Rules and Regulations as per the provisions under West Bengal PanchayatSamity administrative Rules, 2008 & West Bengal Panchayat act.
2. The Applicant shall produce a copy of the approved building plan whenever demanded by any Officer of Authorized representative of the Matigara Panchayat Samity.

**OFFICE OF THE  
MATIGARA PANCHAYAT SAMITY  
P.O. KADAMTALA, DIST. DARJEELING.**


Memo. No. 1129 / MP\$/planning

Dated: 05.11.18

To  
**Smart Vaniya Pvt. Ltd.**  
**Represented by Mr. Vineet Bantal**  
**Pusp Niwas**  
**Biswaharma Mandir Road**  
**Siliguri**  
**Dist. -Darjeeling**

**Sub: Land use Certificate.**

In reference to his/ her application dated 18.07.2018 on the subject quoted above, the proposed change of use of land from **Vacant to Residential** development for an area of 659.815 square metres (Site Plan enclosed) at **Atharakhai Gram Panchayat, Plot No 1487(P), 1497(P), 1498, 1499, 1500(P), 1501, 1502, 1503, 1504, 1506, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1514, 1515, 1516(P), 1517(P), L.R. Khatian No- 3881(N) , Mouza - Baramonhan Singh , J.L. No- 71 ..** under Matigara Police Station, he/she is hereby informed that the development /institution / change of use of land as proposed is hereby approved for land use as required under Sub-section12 of Section 114A of West Bengal Panchayat(Amendment) Act, 1992. The development charge as leviable under the said Act for the proposed development / institution/ change of use of land has been paid vide money receipt No.. NIL.....Dated- 01.11.2018. The applicant is allowed to use a floor area not exceeding the area as per the use table mentioned in the site plan/ enclosed .....X..... Square metres as out of total land area permissible under Regulation.

  
Executive Officer  
Matigara Panchayat Samiti

OFFICE OF THE  
MATIGARA PANCHAYAT SAMITI  
P.O. KADAMTALA, DIST. DARJEELING

Memo. No. 2324 /MPS/PI.

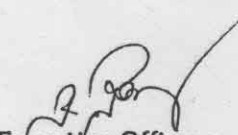
Dated:- 14/11/2017

To,

Smart Vanijya Pvt. Ltd Represented by Mr. Vineet Bansal,  
Pusp Niwas,  
Biswakarma Mandir Road,  
Siliguri,  
Dist. Darjeeling.

**Sub.: Land use Certificate**

In reference to his / her application dated 21.09.2017 on the subject quoted above, the proposed change of use of land from vacant to Residential development for an area of 20464.68 square metres (Site Plan enclosed) at Atharakhai Gram Panchayat, Plot No- 1487(p), 1497(P), 1498, 1499(P), 1500(P), 1501,1502, 1502, 1503, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1514, 1515, 1516(P), 1517(P),, Mouza – Baramohansingh, J.L. No. 71 under Matigara Police Station, he/she is hereby informed that the development /institution / change of use of land as proposed is hereby approved for land use as required under sub-Section 12 of Section 114A of West Bengal Panchayat Act, 1973 as amended up to 2009. The development charge as leviable under the said Act for the proposed development / institution/ change of use of land has been paid vide money receipt No..... NIL..... Dated 08.11.2017 The applicant is allowed to use a floor area not exceeding the area as per the use table mentioned in the site plan/ enclosed .....X..... Square metres as out of total land area permissible under Regulation.

  
Executive Officer

Matigara Panchayat Samity

OFFICE OF THE  
ATHARAKHAI GRAM PANCHAYAT

P.O. KADAMTALA, DIST. DARJEELING.

Email: [atharakhai.gp@gmail.com](mailto:atharakhai.gp@gmail.com)

Memo No. : 68/Atha/2018

Dated: 01/02/2018.

From:

The Pradhan,  
Atharakhai Gram Panchayat,  
P.O. Kadamtala, Dist. Darjeeling.



To

The Director,  
Smart Vanijya Pvt. Ltd.,  
6, Lyons Range,  
Unit - 2, 5<sup>th</sup> Floor,  
Kolkata - 700 001.

Sub: Consent for Water Supply, Stormwater & Wastewater discharge and Solid Waste Disposal for your Proposed residential Complex Project "EMBEE DELIGHT" on plot Nos. 1487, 1497, 1498, 1499, 1500, 1501, 1502, 1503, 1504, 1506, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1514, 1515, 1516, 1517 at Kadamtala, Asian Highway - 20, Mouza Baramohan Singhjote, Parghana Patharghata, P.S. Matigara, Dist. Darjeeling, West Bengal.

Ref. Letter No - Nil of date 29.12.2017.

Sir,

With reference to the above, this is to inform you that the Atharakhai Gram Panchayat has considered your application and hereby grants you consent to avail the potable water connection from their water mains during both Construction and Operational phases.

The Atharakhai Gram Panchayat also grants you consent to discharge Treated Wastewater and Stormwater into the roadside drain.

Also the panchayat has no objection in providing Solid Waste collection and disposal facility for the above mentioned Residential Complex.

Thanking you.

Yours truly,

Pradhan  
Atharakhai Gram Panchayat  
Atharakhai Gram Panchayat  
Kadamtala, Darjeeling.



# FORM 4

[See Rules 9(3) and 10(5)]

(EMBLEM OR HOLOGRAM OF THE CONCERNED AUTHORITY)

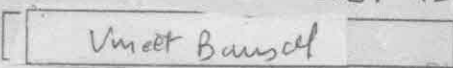
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DP-347

## PERMIT FOR SINKING OF NEW WELL

[U/S 7(3)(b) / 7(4)(b) / 7(5)(a) of the West Bengal Ground Water Resources (Management, Control and Regulation) Act 2005.]

PERMIT NO. P0508071009440000001 TLE

1. (a) Name of the applicant (user) : Shri/Smt. M/S SMART VANIJYA PRIVATE LIMITED
- (b) Son / Daughter of : N.A.
- (c) Address of the applicant : 6 LYONS RANGE, UNIT NO-2, 5<sup>TH</sup> FLOOR, KOLKATA-700001
- (d) Category of farmer (Please tick) (in case of irrigation well) : Small Farmer / Marginal Farmer / Others
- (e) Serial No. of application Form and date of submission : BP/A 0393, SL NO-18, DT-12.02.18
- (f) Specimen signature of the user : 
2. Location particulars---
  - (a) District : DARJEELING
  - (b) Block, Mouza, J. L. No., Plot No. : MATI GARA, BARAMOHAN SINGH, J.L NO-71, PLOT-RS 944
  - (c) Municipality / Corporation Ward No. / Borough No., Holding No. : N.A.
3. Particulars of the proposed well and pumping device---
  - (a) Type of the well : T.W
  - (b) Approx. depth of the well (m) : 100 m
  - (c) Purpose of the well : DOMESTIC (OWNERSHIP FLAT)
  - (d) Assembly size (for tube well) : 200 mm. X 150 mm.
  - (e) Approx. strainer length (for tube well) : 15.0 m.
  - (f) Diameter (for dug well) : N.A. m.
  - (g) Type of pump to be used : SUBMERSIBLE
  - (h) H. P. of the pump : 7.5 HP
  - (i) Operational device : ELECTRIC MOTOR
  - (j) Rate of withdrawal (m<sup>3</sup> / hr.) : 4.5 m<sup>3</sup> / hr.
  - (k) Maximum allowable running hours per day : 5 HRS / DAY

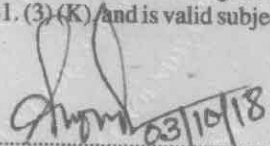
This permit authorizes the owner applicant (user) to sink a well in the location specified at S1. (2) for extraction of ground water at a rate not exceeding that as shown at S1. (3) (j) and for running hours / day as shown at S1. (3) (k) and is valid subject to the observance of the conditions stated overleaf.

Place : SILIGURI

Date : 03/10/2018



Signature of the Issuing Authority

  
03/10/18

&

Member Secretary

District Level Ground Water

Development Authority

Darjeeling

### Conditions :

- (1) In case of any change of ownership of the proposed well, fresh registration must be obtained.
- (2) No change of location, design, rate of withdrawal and pumping device in respect of the proposed well as indicated at S1. (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this permit.
- (3) In case, any of the particulars / information furnished by the applicant in his application for issuance of this permit is found to be incorrect during verification at any subsequent stage, this permit is liable for cancellation.
- (4) Any other condition imposed by the concerned Authority.



FORM 4

[See Rules 9(3) and 10(5)]

(EMBLEM OR HOLOGRAM OF THE CONCERNED AUTHORITY)

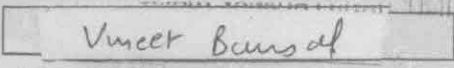
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PERMIT FOR SINKING OF NEW WELL

[U/S 7(3)(b) / 7(4)(b) / 7(5)(a) of the West Bengal Ground Water Resources (Management, Control and Regulation) Act 2005.]

DD-346

PERMIT NO. POS08071009140000001 TLE

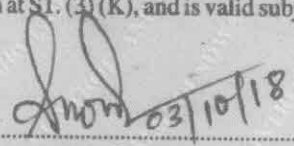
- 1. (a) Name of the applicant (user) : Shri/Smt. M/S SMART VANIJYA PRIVATE LIMITED
- (b) Son / Daughter of : N.A.
- (c) Address of the applicant : 6 LYONS RANGE, UNIT No-II, 5<sup>th</sup> FLOOR, KOLKATA-700001
- (d) Category of farmer (Please tick) (in case of irrigation well) : Small Farmer / Marginal Farmer / Others
- (e) Serial No. of application Form and date of submission : BP/A-0393, SL No-19, DATED-12.02.18
- (f) Specimen signature of the user : 
- 2. Location particulars---
  - (a) District : DARJEELING, Director
  - (b) Block, Mouza, J. L. No., Plot No. : MATIGARA, BARAMOHAN SINAH, JLNO-71 PLOT-RS 914
  - (c) Municipality / Corporation Ward No. / Borough No., Holding No. : N.A.
- 3. Particulars of the proposed well and pumping device---
  - (a) Type of the well : TUBE WELL (STAND BY)
  - (b) Approx. depth of the well (m) : 100 M.
  - (c) Purpose of the well : DOMESTIC (OWNERSHIP FLAT)
  - (d) Assembly size (for tube well) : 200 mm. X 150 mm.
  - (e) Approx. strainer length (for tube well) : 15.0 m.
  - (f) Diameter (for dug well) : N.A. m.
  - (g) Type of pump to be used : SUBMERSIBLE
  - (h) H. P. of the pump : 7.5 HP
  - (i) Operational device : ELECTRIC MOTOR
  - (j) Rate of withdrawal (m<sup>3</sup>/hr.) : 45 m<sup>3</sup>/hr.
  - (k) Maximum allowable running hours per day : 5 HRS / DAY

This permit authorizes the owner applicant (user) to sink a well in the location specified at S1. (2) for extraction of ground water at a rate not exceeding that as shown at S1. (3) (j) and for running hours / day as shown at S1. (3) (K), and is valid subject to the observance of the conditions stated overleaf.

Place : SILIGURI

Date : 03/10/2018



  
03/10/18

Signature of the Issuing Authority and Designation.

Member Secretary  
District Level Ground Water Resources Development Authority

Conditions :

- (1) In case of any change of ownership of the proposed well, fresh permit has to be obtained.
- (2) No change of location, design, rate of withdrawal and pumping device in respect of the proposed well as indicated at S1. (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this permit.
- (3) In case, any of the particulars / information furnished by the applicant in his application for issuance of this permit is found to be incorrect during verification at any subsequent stage, this permit is liable for cancellation.
- (4) Any other condition imposed by the concerned Authority.



CONDITIONALTIES:

1. Provisions of Water Meters in the Tube well should be made for obtaining information about 'per day withdrawal.' A log book for discharges per day should be maintained by the applicant.
2. Drawing of Water should be restricted to 05 hours per day (2.5 hrs + 2.5 hrs Morning and Evening).
3. Third layer or deeper water level aquifer should be tapped by the applicant to meet up the needs.
4. The project will be monitored by SWID's Officers in particular to 'Water Quality Reports' and the 'Abstraction of ground water per day' reports in every 6 months.
5. The permit for new tube wells will be reviewed in each year following the month of issue of permits based on local hydro geological conditions that may prevail afterwards.
6. Water Conservations by means of roof top rain water harvesting System should be adopted for storing and utilizing the water for various needs, (Cleaning, Washing, and Sanitation. Plantations etc.) & Waste Water Management, Recycling processes are also to be done by the applicant.

  
Geologist, SWID 03/10/2018

&  
Member Secretary  
District Level Ground Water  
Resources Development Authority  
Darjeeling

Tele/FAX: 0364-2560168

CATCO Section  
HQ EAC, IAF  
Nonglyer PO,  
Upper Shillong  
Meghalaya  
PIN-793009

EAC/6381/11/1/ATC( 04/2018)

02 Jul 18

✓ Sri Vineet Bansal,  
C/o Pusp Niwas,  
Viswakarma Mandir Road,  
Khalpara, Siliguri Bazar (PO),  
West Bengal- 734005

**NOC FOR CONSTRUCTION OF RESIDENTIAL BUILDING PROJECT BY  
SRI VINEET BANSAL (SMART VANIJAYA PVT LTD) , SILIGURI  
WEST BENGAL**

Sir/Madam,

1. Please refer your application on the subject.
2. The application has been examined under Gazette of India GSR 751 (E), Works of Defence Act 1903 and other relevant orders on the subject. This Head Quarters has no objection for construction of **43 M high Residential Building** at Baramohan Singh, JLNo 71, Khatian No-: 1839, 1840, 1841, 1842, 1843, 1920, 1921, 1922, 1923, 1924, Pargana-Pathargata, P.S- Matigara, Derjeeling, West Bengal, **subject to following conditions:-**
  - (a) The NOC is being issued as per provisions mentioned under Section 5(2) of GSR 751(E) read in conjunction with Sub Section (1) and Clause (O) & Clause (R) of Sub Section 2 of Section 5 read with Section 9 A of Indian Aircraft Act 1934 and cannot be used as document for any other purpose / claim whatsoever, including ownership of land where proposed building is planned to be constructed.
  - (b) The applicant is responsible to obtain NOC/all statutory clearances from the concerned authorities including approval of building plans. Clearance shall also be obtained separately from any other Defence establishment in the vicinity of proposed construction.
  - (c) The site elevation and site coordinates provided by the applicant are taken for calculation of the permissible top elevation of the proposed structure. If, however, at any stage it is established that the actual site elevation and site coordinates are different from those provided by the applicant, the NOC will be invalid.



(d) The issue of the NOC is further subject to the provisions of Sec 9A of the Indian Aircraft Act 1934 and those of any notifications issued there-under from time to time including the Aircraft (Demolition of obstruction caused by buildings and trees etc) Rules, 1994.

(e) Vertical extent (highest point) of the proposed building at under mentioned coordinates **shall not exceed 43 M AGL or 165.83 M AMSL whichever is lower**. No extension or structure permanent or temporary (e.g. Cranes, Antennas, Mumtee, Lightning Arresters, Lift machine room, Overhead water tank, Cooling towers, Sign boards, any attachment or fixtures of any kind) shall be permitted above the cleared height.

Latitude	Longitude	Site Elevation
26° 41' 49.40" N	88° 22' 10.03" E	122.83 M AMSL

(f) Standard obstruction lightings as per IS 5613 notification and International Civil Aviation Organization (ICAO) standards as stipulated in ICAO Annex-14 is to be provided by the applicant. The lights shall be kept 'ON' at all times. Provision shall be made for standby power supply to keep the lights 'ON' during power failure. Applicant shall ensure periodic maintenance of the lights to keep them in serviceable and visible condition.

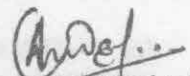
(g) A garbage treatment plant shall be installed prior to the construction of the proposed building for the purpose of avoiding bird activity. The plant shall be shown to the AOC or his nominated representative of Air Force Station Bagdogra.

(h) No light or a combination of lights which by reason of its intensity, configuration or colour may cause confusion with the aeronautical ground lights of the Airport shall be installed at the site at any time during or after the construction of the building.

(j) The commencement and completion of construction including installation of obstruction lights shall be intimated to AOC, AF Station Bagdogra and CATCO, HQ Eastern Air Command, Nonglyer PO, Upper Shillong, Meghalaya, PIN-793009. Failure to render these certificates within the stipulated time shall lead to cancellation of NOC.

(k) The NOC is valid for **five years** from the date of its issue. If the building is not constructed and completed within this period, the applicant shall be required to obtain a fresh/extension of NOC from Indian Air Force. Request for revalidation of NOC will not be entertained after the expiry of validity period.

Yours sincerely,

  
(Ankur Mudgal)  
Group Captain  
Command ATC Officer

**Copy to:** Air Force Station Bagdogra (SATCO)  
**Internal:** C Nav O

**GOVERNMENT OF WEST BENGAL  
OFFICE OF THE DIRECTOR GENERAL  
WEST BENGAL FIRE & EMERGENCY SERVICES  
13-D Mirza Ghalib Street, Kolkata- 700 016**

Memo No : IND/WB/FES/20172018/3585

DATE: 07/02/2018

**From :**

**The Director**

**Fire Prevention Wing,**

**West Bengal Fire & Emergency Services.**

**To :**

**Smart Vanijya Private Limited**

**Kadamtala; Mouza-Bara Mohan Sing;**

**J.L. No.-71; Khatian No.- 3881;**

**Plot No.- 1487, 1497, 1498, 1499, 1500, 1501, 1502, 1503, 1504, 1506, 1507, 1508, 1509,  
1510, 1511, 1512, 1513, 1514, 1515, 1516, 1517; Pargana-Patharghata;**

**P.S. - Matigara**

**Matigara F.S., Matigara,**

**Darjeeling - 734011 .**

**Sub : Fire Safety Recommendation for a proposed construction of: G + 10 storied  
building under group Residential at the Premises No.- Kadamtala; Mouza-Bara Mohan  
Sing;**

**J.L. No.-71; Khatian No.- 3881;**

**Plot No.- 1487, 1497, 1498, 1499, 1500, 1501, 1502, 1503, 1504, 1506, 1507, 1508, 1509,  
1510, 1511, 1512, 1513, 1514, 1515, 1516, 1517; Pargana-Patharghata;**

**P.S. - Matigara**

This is in reference to your Application No. IND/WB/FES/20172018/3585, dated 07/02/2018,  
regarding the Fire Safety Measure for a proposed construction of G + 10 storied building  
under group Residential at the premises no.- Kadamtala; Mouza-Bara Mohan Sing;

J.L. No.-71; Khatian No.- 3881;

Plot No.- 1487, 1497, 1498, 1499, 1500, 1501, 1502, 1503, 1504, 1506, 1507, 1508, 1509,  
1510, 1511, 1512, 1513, 1514, 1515, 1516, 1517; Pargana-Patharghata;

P.S. - Matigara, Matigara,

Darjeeling - 734011.

The plan submitted by you was scrutinized and marked as found necessary from Fire Safety point of view. In returning one set of plan with recommendation, this is issuing Fire Safety Recommendation in favour of the aforesaid building subject to the compliance of the following fire safety measure.

Recommendation:

1. In case of Air Condition (IS - 659:1991):- It shall conform to the following:- i) Escape routes like staircases, common corridors, lift lobbies etc. shall not be used as return air passages. ii) Regular checkup of all split type window machine to prevent dust, foreign materials in the air inlet should maintained to prevent spontaneous combustion. iii) In case of central A.C. system, the same shall be incorporated with automatic dampers with fusible link with a view to shut down the system automatically in case of any fire in A.C system. iv) Regular checking, testing, cleaning the Air inlet is must. v) Arrangements shall be made for isolation at the strategic locations by incorporating auto dampers in the Air Conditioning system. vi) Wherever the ducts pass through fire walls of floors, the opening around the ducts shall be sealed with fire resisting materials such as asbestos rope, vermiculite concrete etc. vii) As far as possible metallic ducts shall be used even for the return air instead of space above the false ceiling. viii) The materials used for insulating the ducts system (inside or outside) shall be of non-combustible materials glass wool shall not be wrapped or secured by any materials of combustible nature. ix) Area more than 750 square meter on individual floor shall be segregated by a fire wall and automatic fire dampers for isolation shall be provided. x) Air ducts serving main floor area, corridors etc. shall not pass through the staircase enclosure. xi) The vertical shaft for treated fresh air shall be of masonry construction. xii) The Air Handling Unit room shall not be used for storage of any combustible materials. xiii) The Air Handling Units shall be separated for each floor with the system of air ducts for every individual floors shall be separate and in no way interconnected with the ducting of any other floor. xiv) The air filters for Air Handling Units shall be of non-combustible materials. xv) If the Air Handling Units serve more than one floor, the recommendation given above shall be complied with in addition to the conditions given below: -

A) Proper arrangements by way of automatic fire dampers working on fusible links for isolating all ducting at every floor from the main riser shall be made. B) When the automatic fire alarm operates the respective Air Handling Units of the air conditioning system shall automatically be switched off.

xvi) The system of auto shut down of Air Handling Units shall be incorporated with the auto detection and alarm system. xvii) Inspection panel shall be provided in the main trucking to facilitate the cleaning of ducts of accumulated dust and to obtain access for maintenance of fire dampers. xviii) No combustible materials shall be fixed nearer than 15 cm. to any duct unless such duct is properly enclosed and protected with non-combustible material (glass

wool or spun wool with neoprene facing enclosed and wrapped with aluminum sheeting) at least 3.2 mm. thick and which would not readily conduct heat.

2. Fire Dampers: - i) There shall be located in conditioned air ducts and return air ducts / passages at the following points – 1) At the Fire separation wall. 2) Where ducts / passages enter the central vertical shaft. 3) Where the ducts pass through floors. 4) At the inlet of supply air duct and the return air duct of each compartment on every floor.

ii) The dampers shall operate automatically and shall simultaneously switch off the air handling fans. Manual operation facilities shall also be provided. iii) Automatic Fire dampers shall be so arranged so as to close by gravity in the direction of air movement and to remain rightly closed open operation of a fusible link.

3. Electrical Installation (IS – 694:1946-1982):- i) All electrical installation should be done in accordance with National Electrical Code & Part –VIII “Building Service” Section -2 “Electrical installation” good practice. [4(10)]. ii) The electrical installation including transformers, switch gears, main and miter etc. and the distribution system of the premises shall be made satisfying the code of practice for Fire Safety in general building as laid down in I.S. specification. iii) The vertical and horizontal electrical ducts shall be sealed at each floor level by fire resisting material and the electrical installation shall be adequately protected with ABC & CO2 type extinguisher. iv) All cable should be of FRLS type & all wiring should be done by the copper wire along with appropriate gauge such as 1.2 mm. for light, fan, bulbs etc., 2.5 mm. for television, freeze & washing machine etc., 4 mm. for geezer, air condition machine etc.

4. Alternate power supply:- Arrangement shall be made to supply power with the help of a Generator to operate at least the fire pump, pump for deep tube-well, Fire alarm system, Fire Lift, illumination of stairs, corridors, means of escape etc. in case of normal power failure.

5. Fire Fighting Water: - i) A satisfactory supply of water for the purpose of firefighting shall always be available in the form of underground reservoirs with 1,50,000 liters capacity of stored water with replenishing arrangement @ 1000 liters of water per minutes preferably from two different sources. When this is not practicable, the capacity of the static storage tank shall be increased proportionately. The height of the reservoir should not be exceeding 30 cm from the ground level. Static fire water reservoir shall have overflow and connected with the domestic water reservoir as well as to avoid stagnancy of water. The water reservoir shall be kept full at all times. ii) Suitable number of manholes shall be made available in the static tanks for inspection, repair, cleaning and insertion of suction hose, etc. iii) The covering slab shall be strong enough to withstand the total vehicular load of 45 T. equally divided as a four point load when the slab forms a part of pathway / driveway. iv) The location of the underground reservoir should be such so that the Fire Service vehicle may get access to the site of the reservoir with a view to drawn the water from said reservoir. v) If the static water storage tank is in the basement or in a location not approachable for fire engines, provision of

fire brigade collecting head with Four number 63mm. diameter (Two number 63mm. diameter for pump with capacity 1400 liters per minute) instantaneous male inlets arranged in a valve box at a suitable point at street level connected to the tank by suitable fixed pipe not less than 150 mm in diameter shall be made to discharge water into the tank when required at the rate of 2250 liters per minute from fire engines.

6. Terrace Tank:- One Terrace Tank of capacity Minimum 25,000 liter should be installed in the buildings along with suitable terrace pump & Wet Riser cum Down comer system. Proper replenishing arrangement shall have to be made to keep the Over Head Water Reservoir full at all time.

7. Pumps for firefighting Installation (IS – 12469:1988):- i) The standard code of practice recommended that all water based fixed firefighting installations should be fed by two separate automatic pumps, one of which should act as stand by. Each pump should be designed to deliver water at required pressure and discharge, taking into accounts the height and volume of the building. ii) The Fire pumps should be provided near the underground static water storage tank with minimum pressure of 3.5 kg. / sq. cm. at terrace level or farthest point. iii) One electric and one diesel pump of capacity 2280 LPM and One electric pump of capacity 180 LPM should be install. iv) The pumps should be installed and arranged in such manner so that it will start automatically due to fall in pressure as prefixed in the installation by installing a Jockey pump. Provision of Jockey pump shall also be made to keep the water-based system under pressurized condition at all times. v) All the pumps shall be so designed as to supply water at the designed pressure and discharge into the water-based system which shall be installed in the buildings. vi) An independent identical pump for the purpose of sprinkler installation shall be made available. All such arrangement shall be done as per above code of practice. vii) All the pumps shall be incorporated with both manual and auto starting facilities, the suction of the pump shall preferably of positive type or in case of negative suction the system shall be wet riser- cum- down comers with suitable terrace pump fitted with overhead tank.

8. External Hydrant System (IS – 13039:1991):- The surrounding of the buildings should be protected by adequate no. of pillar type yard hydrants system as per the IS code of practice. i.e. @ one pillar hydrant per 1000 sq. meters of floor area or as per the vulnerability of the area.

9. Internal Hydrant System (IS – 3844:1989):- The building should be provided with pressurized wet risers of 100 mm. internal diameter pipe line at each staircase with provision of single outlet landing and half landing valves @ one such riser for each 1000 sq. miter of floor area or as per the vulnerability of the area. This system shall be designed in such a manner that it should be kept charged with water at all times and capable of discharge 2850 liters of water per minute at the ground level and 900 liters per minutes at the top mist outlets of the building. In both the cases, the running pressure at the ground level shall be 3.5 kg. / sq. cm. and 2.5 kg. / sq. cm. at the top most landing valves should be ensured.

10. Hose Reel System (IS - 884:1985):- i) Provision for Hose Reel in conjunction with wet

riser shall be made at each floor of the building level from the overhead or underground reservoir through Booster pump conforming the relevant I.S. specification, ii) The Hose reel hose system should be provided at each floor of the buildings. The internal dia. of the said hose reel shall be 19 mm to 32 mm and the discharge capacity not less than 22.5 LPM. While the length of the hose reel not more than 36.50 meters. The distance of such installation should be in such a way that no part of the floor is more than 6 meters distance from a hose nozzle when fully extended.

11. Sprinkler Installation (IS - 9972:2002):- The automatic sprinkler installation shall be provided in the corridors, parking zone, means of escape and all strategic location of the building as per the I.S Code of practice. Alarm gang to be incorporated along with the sprinkler system.

12. First aid firefighting system (IS – 2190:1992):- Sufficient Nos. of Portable fire extinguishers of ABC type, CO2 type and Sand and water bucket should be provided at different places of the buildings and it should be within the reach of all concern as stated in the IS Code i.e. one no. @ 1000 sq. meters floor area or as per the vulnerability of the area.

13. Small gears (IS – 903:1993):- Hose box, 15 meters permoline delivery hose & gun metal short branch half inch dia. @ one set each at or near the entire pillar hydrant, landing valve on all floors of the building should be installed.

14. Detection & Alarm System, Suppression system & Public address system (IS – 2189:1988):- i) Sufficient nos. of manually operated electrical fire alarm system of break glass type call boxes and fitted with alarm like Hooters with public address system, talk back system at different places of the buildings should be installed & connecting with audio visual panel board shall be made in Control Room as per the IS Code of practice. ii) Automatic fire detection system with the help of smoke & heat detectors shall be installed at all places of below and preferably above false ceiling of the buildings. This system shall also be made available in places of rooms where valuables have been kept. Other requirements shall be made in accordance with the IS code of practice. iii) Public address system linked between all floors and control room shall have to establish.

15. Lighting Protection of the Building: - This protection for buildings shall be provided as given in Part-VIII Building Services, Section-2 Electrical installation.

16. Gas Bank (IS – 6044:2000):- In case of any cooking gas bank, the same should be installed conforming serial no. 4.1.5 and 4.1.6 of the aforesaid IS code of practice.

17. General recommendations: - i) A resister for the recording of mock fire drill, evacuation drill, testing and checking of whole firefighting installation, electrical installation should be maintained & shall be liable to produce the same to the authorized Officer of this department on demand. ii) Fire notice for firefighting and evacuation from the building should be provided and shall be displayed at all places of the building as per clause 5.5 of N.B C. iii) Floor No. and Directional Sign of escape route should be displayed prominently as per clause 5.5 of the N.B Code. (Auto glow type). iv) All the occupants and other peoples shall be conversant with the installed firefighting equipment of the building so that they can operate the same in

case of exigency. v) Arrangement shall be made for regular checking, testing and proper maintenance of all firefighting equipment and keep them in good working condition at all time it should be written in the Register. vi) In case there are any Balcony and also Terrace both should be used as refuge area. vii) To eliminate the risk of Fire Hazards, good housekeeping for both insides and outsides of the premises will be strictly maintaining. viii) Mock fire drill and evacuation drill should be done periodically with participation of all occupants. ix) After issuing the work orders of the above mentioned recommendations to any authorized agency from your side for the installations of the same, and on compliance of the same up to the satisfactions of this department & as per the scale as advised from this end, Final Fire Safety Certificate (NOC) shall be issued. x) Fire license to be obtained from The Collector, North Zone, West Bengal Fire & Emergency Services, Siliguri for the hazardous articles in the premises (If Any) which attracts Sec-12 of Fire Service Act.1950 (subsequently amendment) after getting the Final Fire safety certificate. xi) The Fire Service recommendations are issue subject to the free from any Court Case or legal re-encumbrances.

18. Construction Part: - i) The whole construction of the proposed building shall be carried out as per approved plan drawings and conforming all the relevant building rules of local authority. ii) No addition / alteration of the building shall be allowed without the concurrence of this department except the construction works of the means of escape. iii) The interior finish decoration of the building shall be made of low flame spread materials conforming I.S. specification. iv) No hazardous articles/Inflammable articles shall be allowed in the building other than official goods. v) All floors area not exceeding 750 sq. meters shall be suitably compartmented by separation walls up to ceiling level having at least two hours Fire resisting capacity. Where this is not possible the spacing of sprinklers shall be suitably reduced. vi) All opening of vertical and horizontal service ducts, void gap, and joints should be sealed with Fire resting materials.

19. Ventilation:- i) Sufficient ventilation will be provided at every place of the building. It should be designed as auto opening system in case of emergency. ii) Provision of ventilation at the crown of the central core-duct of the building shall be provided. iii) Smoke venting facilities for safe use of escape routes shall be automatic in action with manual control in addition in the windowless (sealed box type) buildings. iv) It is recommended that smoke exhaust equipment should have a minimum capacity of 12 air changes per hour. v) Roof vents and vents in walls at or near the ceiling level work satisfactorily as natural draft smoke venting which shall be open normally. If closed, system shall be designed for automatic opening in case of fire, by release of smoke sensitive devices. vi) The discharge aperatures (opening) of all natural draft smoke vents shall be so arranged as to be readily accessible for opening by fire service people. vii) Natural draft smoke venting can only be substituted by power operated smoke exhausting systems subject to specific permission from fire authority. viii) Ventilation in the staircases at each landing and at the top shall be provided at the rate of minimum 0.5 sq. meters per vent opening. The pressurizing mechanism shall operate automatically with the fire alarm.

20. Open Space & approach: - i) The open space surrounding the building shall be conforming the relevant building rules as well as to permit the accessibility and maneuverability of fire appliance to turning facility. The minimum open space surrounded the building should be at least 5 meters and it should be free from any obstruction at all times. ii) The approach roads shall be sufficiently strong to withstand the load of fire engine weighting up to 45 Metric Ton. iii) The width and height of the access gates into the premises shall not be less than 4.5 meters and 5 meters respectively abutting the roads. iv) The open space surrounding the building should be kept free from any obstruction.

21. Means of escape: - i) All the staircases should be from the terrace to the ground floor of the building and shall be negotiable to each other entering into any floor and in no way the travel distance from any point of the building exceeds the limit of 22.5 meters. The distance to an exit from the dead end of a corridor shall not exceed half of the aforesaid distance. If the corridors are covered with sprinklers the distance of the travel distance may be increased by fifty per cent. Time of evacuation should be as per IS 1644:1988 (i.e. 1 minute). ii) The staircases of the building will be enclosed type & construction to be made of bricked or RCC type and the head of stairs shall be ventilated to prevent mushrooming. iii) The staircases of the building shall have permanent vent at the top and open able sashes at each floor level in the external wall of the building and the treads, flights and risers of the staircases shall be made as per W. B. Municipal (Building) Rules, 2007. Corridors of the building and the exit doors should be conform the relevant building rules. iv) There should be a separate entrance and escape routes from the every floor of the building. Horizontal exits should be given priority. All the staircases shall be extended up to terrace of the building and shall be negotiable to each floor. v) The staircases, corridors & all the means of escape should be free from any obstruction. vi) Fire and smoke doors at the entrances of all the staircase enclosures as marked in the plan at each floor level shall be provided. The F.C.D. shall be of at least two hour Fire resisting wire glass window fitted with self-closing type open able in the direction of escape.

22. In case of Lift:- i) The walls of the lifts enclosures shall be at least two hour fire resisting type and collapsible gate shall not be permitted. The lifts materials should be 4 hours fire resisting type, the door of the lifts should be 1hour fire resisting type, the landing door should be ½ an hour fire resisting type & Area of the lift car should be minimum 1.4 sq. meters. ii) The load bearing capacity of the lifts should be minimum 554 kg each. iii) In case of failure of normal power supply it shall automatically trip over to alternate power supply. This change over of supply could be done through auto-change over switch alternatively; the lift shall be so designed that in case of any power failure, it comes down at the ground level and comes to stand still with door open. iv) A sign shall be posted and maintained on every floor at or near the lifts indicating that incase of fire, occupants shall use the stairs unless instructed otherwise. The sign shall also contain a plan for each floor showing the locations of the stairways. v) One of the lift shall be designed for Fire Lift. The word 'FIRE LIFT' shall



conspicuously write at ground floor.

23. Refuge Area:- National building Code and Standard Specifications recommended the creation of refuge area for buildings more than 24 meters in height at the rate of 15 sq. meters or an area equivalent to 0.3 sq. meters per person to accommodate the occupants of two consecutive floors, whichever is higher, shall be provided as below :- For floors above 24 meter and up to 35 meter – i) One refuge area on the floor immediately above 24 meter. ii) The Refuge area shall be provided on the periphery of the floor or periphery on a cantilever projection and open to air and at least one side projected with suitable railings. It should be constructed by fire resisting materials and protected with self – closing F.C.D. at the entrance from the corridors at staircase lobbies. iii) The position of Refuge areas shall be such so that they are negotiable by the fire services ladder from the ground.

24. Fire Tower:- At least one required means of egress shall preferably be a fire tower if the height of the building will be above 24 meters. The fire towers shall be constructed of walls with a 2 hours fire resistance rating without openings other than the exit doorways, with planforms, landings and balconies having the same fire-resistance rating.

**Director**  
**West Bengal Fire & Emergency Services**

Signature valid  
Digitally signed by ABHIJIT  
PANDEY  
Date: 2018.02.07 15:03:03 IST