# Govt. of West Bengal
## Fire Services
## e-Challan

GRN: 19-201920-003161325-2
GRN Date: 26/06/2019 13:14:06
BRN : 26062019040

Payment Mode : Counter Payment
Bank : HDFC Bank
BRN Date: 26/06/2019 00:00:00

### DEPOSITOR'S DETAILS

Name : Binod kumar Saraf
Contact No.
Id No. : IND/WB/FES/20192020/5
(PAN No)
E-mail : bksaraf@encap.on
Address : Regional Language
Mobile No. +91 8145700676
User Type :
Name Director General

From Date : 26/06/2019
To Date : 26/06/2019

Address

Remarks : Fees under West Bengal Fire Services Act

PAID

### PAYMENT DETAILS

| Sl. No. | Identification No. | Head of A/C Description | Head of A/C | Amount[ ₹] |
|---|---|---|---|---|
| 1 | IND/WB/FES/20192020/57657 | Fees Under West Bengal Fire Services Act- Service Fees | 0070-60-109-001-14 | 523341 |
| | | | Total Amount | 523341 |

In Words : Rupees Five Lakh Twenty Three Thousand Three Hundred Forty One Only

# GOVERNMENT OF WEST BENGAL
# OFFICE OF THE DIVISIONAL FIRE OFFICER
# WEST BENGAL FIRE & EMERGENCY SERVICES
## Raiganj, College Para, Pin - 733134

Memo No : IND/WB/FES/20192020/57657

DATE: 28/06/2019

From :
The Divisional Fire Officer
Fire Prevention Wing,
West Bengal Fire & Emergency Services.

To :
Binode kumar Saraf
JL no 152,Holding no 287/262,287A/262,286A/261,286/261,534/NEW, KH no2477,3186,3187,3188,3189,Word no 22,Mouza-Barua
Dalkhola F.S., Raiganj,
North Dinajpur - 733134 .

Sub :Fire Safety Recommendation for a proposed construction of G + 4 storied building under group Business Name style Binode Kumar Saraf & Others at the premises no.- JL no 152,Holding no 287/262,287A/262, 286/261,534/New,KH no 2477, 3186, 3187, 3188,3189,Word no 22,Mouza-Barua, Raiganj, North Dinajpur - 733134

This is in reference to your Application No. IND/WB/FES/20192020/57657,dated 28/06/2019, regarding the Fire Safety Measure for a proposed construction of G + 4 storied building under group Business Name style Binode Kumar Saraf & Others at the premises no.- JL no 152,Holding no 287/262,287A/262,286A/261,286/261,534/New,KH no 2477, 3186, 3187, 3188,3189,Word no 22,Mouza- Barua, Raiganj, North Dinajpur - 733134.

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. RECOMMENDATIONS:

A)CONSTRUCTION

1.The whole construction of the proposed building shall be carried out as per approved plan drawing conforming relevant building rules of local Municipal body.
2.The floor area exceeds 750 m2 shall be suitably compartmented by separation walls up to ceiling level having at least two hours resisting capacity.
3.The interior finish decoration of the building shall be made low flame spread materials conforming I.S. specification
4.Provision of ventilation at the crown of the central core-duct of the building shall be provided.
5.Arrangement shall have to be made for sealing all the vertical ducts by the materials of adequate fire resisting capacity.

B) OPEN SPACE & APPROACH

1.The open space surrounding the buildings shall conform the relevant building rules as well as permit the accessibility and maneuverability of fire appliances with turning facility.
2.The approach roads shall be sufficiently strong to withstand load of fire engine weighing upto 20 M.T.
3.The width and height of the access gates into the premises shall not be less than 4M respectively abutting the road.

C) STAIRCASE

1)The staircase of the building shall be enclosed type. Entire construction shall be made of bricks/R.C.C. type having fire resisting capacity not less than 4 hours.

2)The staircase of the building shall have permanent vents at the top and openable sashes at each floor level in the external wall of the building.

3)The width of the staircase shall be made as marked in the plan. Corridors and the exit doors shall conforming the relevant building rules which upto date amendment.

4)All the staircases shall be extended upto terrace of the building and shall be negotiable to each other without entering into any room.

5)Fire and smoke doors at the entrances of all the staircase enclosure as marked in the plan at each floor level shall be provided. The F.C.D. shall be of at least one hour fire resisting

wire glass window fitted with self-closing type openable in the direction of escape.

6)The staircase of basement shall be of enclosed type having fire resistance of not less than two hours and shall be situated at the periphery of the basement to be entered at the ground level only from the open air and in such positions that smoke from any fire shall not obstruct any exit serving the lower ground and upper mall of the building.

D) 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 tire resisting type, the door of the lifts should be I hour fire resisting type, the landing door should be '/2 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.

E) AIR-CONDITIONING SYSTEM

Escape routes like staircases, common corridors, lift lobbies etc shall not be used as return air passage.

The air-handling units shall be separated for each floor and air ducts for every floor shall be separated and in no way inter-connected with the ducting of any other floor. Proper arrangements shall have to be made by way of automatic fire dampers working on smoke detector/ or fusible link for isolation all ducting at every floor from the main riser shall be made and the air-handling units shall be automatically switched off when the automatic fire alarm operates. The material used for insulating the duct system shall be of non-combustible materials.

The vertical shaft for treated fresh air shall be of masonry construction. The air filters of the

air handling units shall be of non-combustible materials.

Fire Dampers shall be located in conditioned air ducts and return air ducts at the following

points:-

a)At the fire separation wall,
b)Where ducts enter the central vertical shaft,
c)Where the ducts pass through floors,
d)At the inlet of supply air duct and the return air duct of each compartment on every floor. Automatic fire dampers shall be so arranged as to close by gravity in the direction of air movement and remain tightly closed in operation of a fusible link / Smoke Detector.

Electrical installation & Distribution as per I.S.1946.

The Electrical Installation including transformer, switch, gears, main and meters etc. and Distribution system of the premises shall be made satisfying the code of practice for fire ,Safety of the general building as laid down in I.S. specification, the vertical ducts shall be sealed at alternative floor level.. The electrical installation shall be adequately protected with CO2/DCP extinguisher. The indoor Transformer shall be protected with High-velocity water spray projector system.

F) FIRE FIGHTING WATER

As the automatic fire sprinkler system serves the primary defense against fire through out the complex, the center shall have to be equipped with 1,00,000 lts. of underground stored water & 10000 lts of Terrace tank having replenishing arrangement @ 1000 lts./min preferably from two different sources of water supply and the terrace tank level pump pressure shall not be less than 2.0 kg/cm.sq.

The design objectives shall be in such a manner that the total flow calculation will be on the basis of fire engulfing completely two stories below the top floor level

G) HYDRANT SYSTEM

The complex shall be provided with Ring Main of 100mm internal diameter pipeline with provision of landing valves at a specific interval conforming I.S.-13039-1991. The systems shall be so designed that shall be kept charged with water on the time under pressure and capable to discharge 2250 lts./min. at the ground floor level outlet for exposure & other protection.(567.7 Lpm/jet) 4 Jets.

H) WET RISER SYSTEM

Wet Riser system shall have to be installed providing landing valves in each floor level along with Hose-Reel as per I.S.-3844-1989. (4 Jets)

I) AUTOMATIC SPRINKLER SYSTEM

In order to limit maximum fire size to 1 MW or less within the Offices, and service corridors, and assembly areas fast response sprinklers with a RTI of 50 or less may be used.

J) DETECTION, ALARM SYSTEM

Manually operated electrical fire alarm system with at least 10 nos. of break glass type case box, fitted with hooters along public address system, talk back system at each floor of the complex and block connecting with Audio-Visual Panel board shall be made in the Control room. The Control room shall be located at the entrances of ground floor of the building. Other requirements of the system shall be made Conforming I.S. 2189-1988.

K) ALTERNATE POWER SUPPLY

Arrangement shall have to be made to supply of power with the help of generator to operate at least fire pump, illumination of staircase, corridors etc. and other places of assembly area in case of normal power failure

L) FIRST AID FIRE FIGHTING SYSTEM

First Aid Fire Fighting arrangement in the style of placing suitable type of portable fire extinguishers, fire buckets, etc. in all floors and vulnerable locations of the premises shall be made in accordance with I.S. 2190-1992

M) GENERAL RECOMMENDATION

1.Fire notice for fire fighting and evacuation from the building shall be prepared and be displayed at all vulnerable place of the building as per clause 5.5 of N.B. Code.
2.Floor number and direction sign of escape shall be displayed prominently as per clause 5.5 of N.B. Code.
3.The employees and security staff shall be conversant with installed fire fighting equipments of the building on to operate in the event of fire and testing as per clause 5.5 of N.B. Code.
4.Arrangement shall be made for regular checking, testing and proper maintenance of all the fire safety installation and equipments installed in the building to keep them in perfectly good working conditions at all times.

5.A crew of trained firemen under one experienced Fire officer shall be maintained round the clock for safety of the building.

6.Mock fire practice and evacuation drill shall be performed periodically with participation of all employees of building. Each year a certificate is to be obtained from the Director General, West Bengal Fire & Emergency Services certifying about the satisfactory services performing of all the life and fire safety arrangements and installation of the building.

. The planning and designing of the safety system shall be approved by the undersigned

before construction of the safety installation

After compliance of Recommendations final N.O.C. / F.S. Certificate will be issued.

**Divisional Fire Officer**
**West Bengal Fire & Emergency Services**

Signature valid
Digitally signed by PRABIR KUMAR RAY
Date: 2019.06.28 12:11:23 IST