



OFFICE OF THE DEPUTY FIRE OFFICER,
CENTRAL RANGE,
BUXI BAZAR, CUTTACK, 753001.

No. X-2-B-49-2021/ 1206 /CR. CTC.

Date. 11-06-2021

To

The Principal,
Kendriya Vidyalaya, Barimul,
Dist-Kendrapara

Ref- Online Application no. FSC1101040022021000595.

Sub: - Fire Safety inspection report in respect of Kendriya Vidyalaya Academic Block (Block-A+ Block-B+ Block-C), situated over plot no.939/1842, Jail Road, Barimul, Dist-Kendrapara is inspected by DFO Cuttack Circle.

Sir,

With reference to the above subject this is to intimate that the aforementioned buildings were inspected by a team of Officers of Odisha Fire Service on 10.06.2021 in your presence. In this connection different shortfalls have been noticed and the same are reflected in column No.6 from Sl. No.1 to 50 of the inspection report. The extract of the same is enclosed for your reference please.

You are, therefore, requested to please comply the shortfalls on each point as mentioned in the said inspection report and furnish the compliance report to this office **within 45 days**. During inspection, it is observed that the application fees you deposited is inadequate as per Rules. So an outstanding amount of Rs.323/- is required to be deposited under Head "0070-OAS-60-Other Receipts-109-Fire Protection & Control-0097-Misc. Receipts-02082-Miscellaneous other Receipts".

On receipt of satisfactory compliance and outstanding fees (in online or otherwise), we may proceed further for re-inspection of your premises and issuance of Fire Safety Certificate.

Encl:- As above

Page- 1 to 8

Yours faithfully

(B.K.Panda)

Deputy Fire Officer,
Cuttack Circle, Cuttack

FORM-IV
[See rule-13(2)]
FIRE PREVENTION AND SAFETY INSPECTION REPORT

Date of inspection: -10.06.2021

Name and address of the building: Kendriya Vidyalaya Academic Block (Block-A+ Block-B+ Block-C),
situated over plot no.939/1842, Jail Road, Barimul, Dist-Kendrapara
under KRIT

Sl. No	Details of premises etc.	Requirement as per National Building Code of India	Requirement as per the approved plan	Provision made in the building	Deviation/ Shortfall/ deficiency if any
(1)	(2)	(3)	(4)	(5)	(6)
1.	Plot area with dimensions	Requirement of open space means of access, entrance, exit and staircase of the occupancy shall be as per respective regulations or Bye-laws. (This is applicable as per rule-(9) 9 of OFP & FS Rules-2017)	20234.28 m ² (5.0 Acre)	20234.28 m ² (5.0 Acre)	No deviation
2.	Total covered /constructed area (at ground level)	-do-	2655.43 m ²	2655.43 m ²	-do-
3.	No. of buildings, towers, blocks etc. (occupancy wise)	-do-	01 No. Building (Containing 03 blocks i.e. Block-A, B & C)	01 No. Building (Containing 03 blocks i.e. Block-A, B & C)	-do-
4.	Height of each building, tower or block etc. from ground level	-do-	7.50 mtr	7.50 mtr	-do-
5.	Total number (including all underground, basement, stilt, mezzanine and ground) of floors in each building, tower or blocks etc.	-do-	G+1 Floor	G+1 Floor	-do-
6.	Total built up area of all floors (including all underground, basement, stilt, mezzanine and ground) of each building or tower or block etc.	-do-	G. floor- 2655.43 m ² 1 st floor-2200.335m ²	G. floor- 2655.43 m ² 1 st floor-2200.335m ²	-do-
7.	Total built up area of all floors (including all underground, basement, stilt, mezzanine and ground) of all buildings, towers, blocks etc.	-do-	Total built up area:- 4855.765 m ²	Total built up area:- 4855.765 m ²	-do-
8.	No. of underground or basement floors (indicate the level below the ground of each floor).	-do-	N/A	N/A	-do-
9.	Area of each underground or basement floor	-do-	N/A	N/A	-do-
10.	Occupancy (usage) (mention separately for each underground, basement, stilt, mezzanine, ground and other floors).	-do-	Educational	Educational All floors are educational.	No shortfall

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Kendrapara Fire Station
(Member-II)

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Dy. Fire Officer,
Cuttack Circle, Cuttack
(Member-I)

11.	Details of parking areas (mention separately underground, roof-top, covered and open parking areas)	-do-	Open parking area= 1657.6m ²	Provided Open parking area= 1657.6m ²	No shortfall
12.	Width and height of all boundary gates provided for entry and exit.	-do-	Provided 02 nos. without dimension	Provided 02nos boundary gate having width 4.5 mtrs each and no overhead construction	No shortfall
13.	Open spaces and drive ways around each of the buildings or blocks or towers etc. within the premises. Notes:- 1. If there is no interconnection at every floor level between any two buildings or blocks or towers, then each of those buildings or blocks or towers then each of those buildings or blocks or towers are deemed to be separate buildings for the purpose of open spaces & drive ways. 2. The requirement of open spaces or setbacks for various classes of buildings, premises and occupancies shall be as prescribed in the respective regulations or bye-laws of the building plan approval authority concerned.	-do-	-do-	Provided	-do-
	Front	-do-	06 mtrs	06 mtrs	-do-
	Rear	-do-	84.62 mtrs	84.62 mtrs	-do-
	Left	-do-	7.40 mtrs	7.40 mtrs	-do-
	Right	-do-	17.35 mtrs	17.35 mtrs	-do-
14.	Has driveway been provided around each building or tower or block? If so, indicate its width, turning radius and load bearing capacity.	N/A	N/A	Provided	No shortfall
15.	If underground or basement extends beyond the plinth line in to the drive way, please indicate whether the roof of basement has the capacity to bear minimum forty-five ton load of fire service vehicles/appliances.	N/A	N/A	N/A	N/A
16.	No. of Exits and their width	-do-	Not mentioned	G floor-09nos. W- 1.5/2.0/2.0/ 1.70mtr 1.2/ 2.1/ 2.1/ 1.7/1.7mtr 1 st floor-1.1/1.1/1.1/1.4/1.9 mtrs	No deviation
17.	How many staircases have been provided in the building? Please indicate in each case.	-do-	04 nos. are running from ground to Terrace floor. All are with external wall. 01 no. Ramp is running from ground to Terrace floor	04 nos. are running from ground to Terrace floor. All are with external wall. 01 no. Ramp having width 1.90 mtrs is running from ground to Terrace floor.	No deviation

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	a) Width of stairway	-do-	-do-	04 nos. having width 1.1/1.1/1.1/1.4 mtrs Ramp- 1.90 mtrs	-do-
	b) Width of treads	-do-	-do-	300 mm each	-do-
	c) Height of riser	-do-	-do-	150 mm each	-do-
18.	Has "Fire tower" been provided in all buildings or towers or blocks?	Not Required	Not mentioned	Not provided	No shortfall
	a) Fire rating of the walls of fire tower.	-do-	-do-	-do-	-do-
	b) Fire rating of Exit doors at each floor of fire tower.	-do-	-do-	-do-	-do-
19.	Average peak occupant load per floor in all buildings or towers or blocks.	Required	Not mentioned	890 including staff	-do-
20.	Number and details of all lifts? Please indicate in respect of each lift:	Not required	-do-	Not provided	No Shortfall
	a) Floors between which the lift runs.	-do-	-do-	-do-	-do-
	b) Type of doors fitted to the lift car and each landing.	-do-	-do-	-do-	-do-
	c) Fire resistance rating of lift car landing doors.	-do-	-do-	-do-	-do-
	d) Floor area of the lift car	-do-	-do-	-do-	-do-
	e) Load capacity of the lift car.	-do-	-do-	-do-	-do-
	f) Type of communication system installed in the lift car.	-do-	-do-	-do-	-do-
	g) Has "Fireman" switch been installed in the lift for grounding it in the event of fire?	-do-	-do-	-do-	-do-
21.	If more than one lift is installed adjacent to each other, whether or not adjacent lifts wells/ducts are separated by fire resistant walls?	N/A	Not mentioned	Not provided	No Shortfall
22.	Have lift wells/ducts, lift lobby and stair wells been pressurized?	Not required	Not mentioned	Provided. Natural ventilation in the staircase with external wall.	No shortfall
23.	Have lift lobby and stair cases been effectively enclosed to prevent fire/smoke entering them from outside at any floor including basement(s)?	Not required	Not mentioned	Not provided	No shortfall
24.	Have all the "Exits" and "Way to Exits" been signposted with self-illuminated sign ages?	Required	Not mentioned	Provided	No Shortfall
25.	No. of Wet Riser(s) and Dry Riser(s) and internal diameter of each riser.	Not required	Not mentioned	Not provided	No shortfall
26.	No. and details of Down Comer(s)	Not required	Not mentioned	Not provided	No shortfall
27.	No. of single and twin outlet internal hydrants in each floor including basement(s).	Not required	Not mentioned	Not provided	No shortfall

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28.	No. and details of first-aid hose reels in each floor including basement(s).	Required adequately so that be available within 30mtr from any point at each floor level and horizontal distance between any two points shall not exceed 50mtr.	Not mentioned	Not Provided	Shortfall
	a) Bore and length of hose reel tubing on each reel drum.	19mm, 30mtr	-do-	-do-	-do-
	b) Size (Bore) and type of nozzle fitted to each hose reel.	Shutoff valve. 5mm	-do-	-do-	-do-
	c) Is the hose reel connected directly to the riser or to the hydrant outlet?	Required	-do-	-do-	-do-
29.	Has fire hose been provided near each hydrant in hose box? If so, please indicate:	Not required	Not mentioned	Not provided	No shortfall
	a) The type of hose	-do-	-do-	-do-	-do-
	b) The size of (bore) of hose.	-do-	-do-	-do-	-do-
	c) The length of each hose	-do-	-do-	-do-	-do-
	d) Total no of hoses provided to each hydrant.	-do-	-do-	-do-	-do-
30.	Have branch pipes been provided? If so, please indicate:	Not required	Not mentioned	Not provided	No shortfall
	a) The type of branch pipe	-do-	-do-	-do-	-do-
	b) Size of nozzle of each branch	-do-	-do-	-do-	-do-
31.	Are all buildings, towers or blocks equipped with automatic fire detection and alarm system? If so, please indicate:	Not required	Not mentioned	Not provided	No shortfall
	a) No. and type of detectors (smoke or heat) installed.	-do-	-do-	-do-	-do-
	b) Whether detectors provided both above and below the false ceiling.	-do-	-do-	-do-	-do-
32.	Have manual fire alarm systems been installed in all floors including basement(s) of all buildings, towers or blocks? If so, give details.	Not required	Not mentioned	Not provided	No shortfall
33.	Has public address system been installed in all floors including basement(s) of all buildings, towers or blocks?	Not required	Not mentioned	Not provided	No shortfall
34.	No. and details of yard hydrants?	Not required	Not mentioned	Not provided	No shortfall
35.	Details of automatic sprinkler system installed both above and below the false ceiling in all floors including basement(s) of all buildings, towers or blocks.	Not required	Not mentioned	Not provided	No shortfall
36.	Have stationary fire pumps been installed? If so, please indicate:	Required terrace pump	Not mentioned	Not Provided	Shortfall
	a) The number of pumps	01no.	-do-	-do-	-do-
	b) Sizes of suction diameter (mm) and delivery diameter (mm) of each pump.	100mm 100mm	-do-	-do-	-do-
	c) The output of each pump in LPM	450LPM	-do-	-do-	-do-

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	d) The maximum head against which the pump can operate at the output mentioned at (c) above.	Required 3.5kg/cm ² pressure at terrace tank level	-do-	-do-	-do-
	e) Is the pump automatic in action?	Required	-do-	-do-	-do-
37.	Capacity and size of the underground static tank if any, exclusively for fire fighting purpose and provisions for replenishing the same.	Not required	Not mentioned	Not provided	No shortfall
38.	Capacity and size of the terrace tank and it's connectivity to the wet riser/down comer/hose reel.	10,000ltr	Not mentioned	Not Provided	Shortfall
39.	Number and type of fire extinguishers (bearing ISI certification) provided at various locations in each floor including basement(s) building/tower/ block-wise.	Required Two 9 ltr water type or 5/6 kg ABC fire extinguisher per each 200 sqmtr and minimum 04 nos. for each floor within 15mtrs radius	Not mentioned	Provided adequately	No Shortfall
40.	Details of stand-by source of power provided? If so, please indicate:	Required	Not mentioned	Provided	No shortfall
	a)The capacity (output)	-do-	-do-	25 KVA	-do-
	b)The functions that can be maintained simultaneously such as operating lifts, fire pumps, emergency lighting etc.	-do-	-do-	Yes	-do-
	c) Is the standby source automatic in action or has to be started manually?	-do-	-do-	Automatic	-do-
41.	Details of fire control room and its location.	Not Required	Not mentioned	Not provided	No shortfall
42.	Is the building centrally air conditioned? If so, please indicate.	N/A	Not mentioned	Not provided	No shortfall
	a) The material used for construction of ducts and its fittings.	-do-	-do-	-do-	-do-
	b) The type of lining used for ducts	-do-	-do-	-do-	-do-
	c) Type of legging used, if any for insulating any portion of ducts and indicate how the legging is secured.	-do-	-do-	-do-	-do-
	d) Fire resistance rating of false ceiling material.	-do-	-do-	-do-	-do-
	e) If plenum is used as returned air passage, has it been protected with fire detectors? Please give details.	-do-	-do-	-do-	-do-
	f) Has a separate air handling unit (AHU) been provided for each floor?	-do-	-do-	-do-	-do-
	g) Is the AHU having auto shut off system in case of actuation of detector?	-do-	-do-	-do-	-do-
	h) Have fire dampers been provided inside ducts? If so indicate the no. and type of dampers.	-do-	-do-	-do-	-do-

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	i) Is the ducting for each floor effectively isolated or is it continuous for more than one floor?	-do-	-do-	-do-	-do-
43.	Basement ventilation details:	N/A	Not mentioned	Not provided	No shortfall
	a) Whether natural ventilation is relied upon? If so, give details of vents with area for the stairwell, lift shafts.	-do-	-do-	-do-	-do-
	b) Whether mechanical ventilation has been provided? If so, give details of the system indicating the number of air changes for the basement and other floors.	-do-	-do-	-do-	-do-
	c) Whether mechanical ventilation is coupled with automatic detection system? Give details of the system.	-do-	-do-	-do-	-do-
44.	Location of the switch gear and transformers? If inside the building, please indicate.	Required	N-S corner	Transformer (100 KVA) is located outside the building.	No shortfall
	a) Are the switchgears and transformers housed in separate compartments effectively? If so, are they separated from each other and from portion of the building by four hrs. Fire resistive wall?	Required	Not mentioned	Switchgears are installed in separate compartment.	-do-
	b) What precautions have been taken to prevent a possible fire in transformers from spreading?	Required	-do-	Fire extinguisher	-do-
45.	Where electric cables, telephone cables, dry/wet risers/down comers pass through a floor or wall, have the spaces (apertures) round the cables/pipes been effectively sealed/ plugged with non-combustible, fire resistive materials?	Required	Not mentioned	Provided	No shortfall
46.	Are the occupants of the building periodically trained in use and operation of fire safety measures and emergency procedure? If so, give periodicity and details of training. If not, why?	Required	Not mentioned	To be trained	Shortfall
47.	Whether, emergency drills/rehearsals conducted regularly? If so, how often and whether local Fire Station is involved? If not, why?	Required	Not mentioned	To be conducted	Shortfall
48.	Has a qualified fire safety supervisor been appointed for the premises? If so, his full details. If not, why?	Not required	Not mentioned	Not provided	No shortfall
49.	Has the building been protected against lightning? If so, indicate its details including its periodical testing. If not, why?	Not required	Not mentioned	Not Provided	No shortfall

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50.	Any other information.	<p><u>Observation</u>- The life & fire safety measures of Kendriya Vidyalaya Academic Block (Block-A+ Block-B+ Block-C), situated over plot no.939/1842, Jail Road, Barimul, Dist-Kendrapara is inspected by DFO Cuttack Circle on 10.06.2021 being accompanied by I/C AFO Kendrapara FS in presence of the applicant. The area is coming under jurisdiction of Kendrapara Regional Improvement Trust, Kendrapara. The plan has been approved by Secretary KRIT, Kendrapara vide their L No.463/KRIT, Dt.18.11.2014. The inspection report is prepared as per requirement of OFP & FS (Amendment) Rules-2019, Odisha Special Planning Authority and RIT Common (P & BS) Rules-2017 and NBCI-2016.</p> <p><u>Specific views</u>: The building is abutted by 6mtr wide public Road. The applicant needs to comply the Shortfall as reflected in column no.6 of the report. The applicant may be requested to comply the shortfalls for issuance of Fire Safety Certificate.</p>
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