

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

Date of inspection:-09.06.2021

Name and address of the building:- G+2 Floors Kendriya Vidyalaya, over Plot No-2206/3561, 2207/3562, Khata No-966/01, Mouza-Karakara, Dist-Bhadrak.

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	Not applicable as per Rule-9(9) of OFP & FS Rule-2017	AC 10.00 Dec	AC 10.00 Dec	No Shortfall
2.	Total covered /constructed area (at ground level)	-do-	1869.282 m ²	1869.282 m ²	No Deviation
3.	No. of buildings, towers, blocks etc (occupancy wise)	-do-	01 No	01 No	No Deviation
4.	Height of each building, tower or block etc from ground level	-do-	10.50 mtrs	10.50 mtrs	No Deviation
5.	Total number (including all underground, basement, stilt, mezzanine and ground) of floors in each building, tower or blocks etc	-do-	G+2 Floors	G+2 Floors	No Deviation
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-	Stilt Floor-1869.282 m ² 1 st Floor-1799.215 m ² 2 nd Floor-1766.01 m ²	Stilt Floor-1869.282 m ² 1 st Floor-1799.215 m ² 2 nd Floor-1766.01 m ²	No Deviation
7.	Total built up area of all floors (including all underground, basement, stilt, mezzanine and ground) of all buildings, towers, blocks etc.	-do-	5434.507 m ²	5434.507 m ²	No Deviation
8.	No. of underground or basement floors (indicate the level below the ground of each floor).	-do-	Not mentioned in the plan.	N/A	No Shortfall
9.	Area of each underground or basement floor	-do-	N/A	N/A	No Shortfall
10	Occupancy (usage) (mention separately for each underground, basement, stilt, mezzanine, ground and other floors).	-do-	<p style="text-align: center;">Educational Building Ground Floor Principal chamber-01 No, office-01 No, library-01 No, examination hall-01 No, class room-10 Nos, General store-01 No & chemistry lab-01 No</p> <p style="text-align: center;">1st Floor- Physics lab-01 No, computer lab-01 No, research room-01 No, class room-10 Nos,</p> <p style="text-align: center;">2nd Floor- Computer lab-01 No, Math lab-01 No, Language lab-01 No, art lab-01 No, scout room-01 No, Biology lab-01 No, Activity room-01 No, class room-09 Nos & store-01 No</p>	<p style="text-align: center;">Educational Building Ground Floor Principal chamber-01 No, office-01 No, library-01 No, examination hall-01 No, class room-10 Nos, General store-01 No & chemistry lab-01 No</p> <p style="text-align: center;">1st Floor- Physics lab-01 No, computer lab-01 No, research room-01 No, class room-10 Nos,</p> <p style="text-align: center;">2nd Floor- Computer lab-01 No, Math lab-01 No, Language lab-01 No, art lab-01 No, scout room-01 No, Biology lab-01 No, Activity room-01 No, class room-09 Nos & store-01 No</p>	No Deviation
11	Details of parking areas (mention separately underground, roof-top, covered and open parking areas)	-do-	Not mentioned in the plan.	Open Parking more than 1000 m ²	No Shortfall
12	Width and height of all boundary gates provided for entry and exit.	-do-	-do-	Provided 01 No Boundary gate 1 st Gate-Width-4.87 mtrs. Height- 4.26 mtrs.	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 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	No Shortfall

	Front	Not applicable as per Rule-9(9) of OFP & FS Rule-2017	Not mentioned in the plan	05 mtrs	No Shortfall
	Rear	-do-	-do-	50 mtrs	No Shortfall
	Left	-do-	-do-	12 mtrs	No Shortfall
	Right	-do-	-do-	03.90 mtrs	No Shortfall
14	Has drive way been provided around each building or tower or block? If so, indicate its width, turning radius and load bearing capacity.	-do-	-do-	Provided Right side- 03.9 mtrs Rear- Nil Left – Nil Front- Nil	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.	-do-	-do-	N/A	No Shortfall
16	No. of Exits and their width	-do-	-do-	provided-04 Nos exit in ground floor Width-1.90 mtrs, H-2.40 mtrs Width-4.50 mtrs, H-2.10 mtrs Width-02 mtrs, H-2.10 mtrs Width-02 mtrs, H-2.10 mtrs Besides 02 No stairways having of width 01.90 mtrs each treated as exit from G. Floor to Top.	No Shortfall
17	How many staircases have been provided in the building? Please indicate in each case.	-do-	Mentioned 02 Nos	Provided 02 Nos	No Shortfall
	a) Width of stairway	-do-	Not mentioned in the plan.	1.90 mtrs each	No Shortfall
	b) Width of treads	-do-	-do-	300 mm each	No Shortfall
	c) Height of riser	-do-	-do-	150 mm each	No Shortfall
18	Has "Fire tower" been provided in all buildings or towers or blocks?	As per NBCI Not required	-do-	N/A	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	-do-	1358 persons	No Shortfall
20	Number and details of all lifts? Please indicate in respect of each lift:	Not required	-do-	N/A	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?	Not required	--do--	N/A	No Shortfall
22	Have lift wells/ducts, lift lobby and stair wells been pressurized?	Staircase required to be naturally ventilated or pressurization	--do--	Provided staircase is naturally ventilated	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	--do--	N/A	No Shortfall
24	Have all the "Exits" and "Way to Exits" been signposted with self-illuminated signages?	Required	--do--	Not Provided	Shortfall
25	No. of Wet Riser(s) and Dry Riser(s) and internal diameter of each riser.	Not required	--do--	N/A	No Shortfall
26	No. and details of Down Comer(s)	Not required	--do--	N/A	No Shortfall

27	No. of single and twin outlet internal hydrants in each floor including basement(s).	Not required	--do--	N/A	No Shortfall
28	No. and details of first-aid hose reels in each floor including basement(s).	To provide adequately so that available within 30 mtrs from any point at each floor level and the horizontal distance between any two Hose Reel points shall not exceed 50 mtrs.	Not mentioned in the plan.	Provided Hose reel replace immediately	Shortfall
	b) Bore and length of hose reel tubing on each reel drum.	19mm 30mtrs	-do-	-do-	-do-
	c) Size (Bore) and type of nozzle fitted to each hose reel.	4.5 mm shutoff Valve	-do-	-do-	-do-
	d) Is the hose reel connected directly to the riser or to the hydrant outlet?	Connected to the main pipe of the Hose reel	--do--	-do-	-do-
29	Has fire hose been provided near each hydrant in hose box? If so, please indicate:	Not required	--do--	N/A	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	-do-	N/A	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	--do--	N/A	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	--do--	N/A	No Shortfall
33	Has public address system been installed in all floors including basement(s) of all buildings, towers or blocks?	Required	-do-	Not Provided	Shortfall
34	No. and details of yard hydrants?	Not required	--do--	N/A	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	--do--	N/A	No Shortfall
36	Have stationary fire pumps been installed? If so, please indicate:	Required Terrace pump	--do--	Not Provided	Shortfall
	a) The number of pumps	01 No	--do--	--do--	--do--
	b) Sizes of suction diameter (mm) and delivery diameter (mm) of each pump.	50 mm 50 mm	--do--	--do--	--do--
	c) The output of each pump in LPM	450 LPM	--do--	--do--	--do--
	d) The maximum head against which the pump can operate at the output mentioned at (c) above.	Required	--do--	--do--	--do--
	e) Is the pump automatic in action?	Automatic	-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	--do--	N/A	No Shortfall
38	Capacity and size of the terrace tank and it's connectivity to the wet riser/down comer/hose reel.	Required 10,000 ltrs	--do--	Provided (tank must dedicated for fire fighting)	No 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 09 ltrs water expelling extinguishers or ABC 05/06 kg fire extinguisher for every 600 m ² area or part	--do--	Provided ABC – 06 kg-18 Nos Co2 4.5 kg -02 Nos Co2 02 kg-02 Nos DCP 06 kg-04 Nos	Shortfall 25 Nos ABC extinguisher 06 kg to be provided

		there of with minimum of 04 extinguishers per compartment/floor. The extinguisher should be so located as to be available within 15 mtrs radius.		DCP extinguishers most replace as during inspection it is found in crack conduction	
40	Details of stand-by source of power .provided? If so, please indicate:	Required	Not mentioned in the plan.	Provided 01 No DG set	No Shortfall
	a)The capacity (output)	-do-	-do-	65 KVA	--do--
	b)The functions that can be maintained simultaneously such as operating lifts, fire pumps, emergency lighting etc.	-do-	-do-	Only emergency lighting	Shortfall
	c) Is the standby source automatic in action or has to be started manually?	Automatic	-do-	Automatic	No Shortfall
41	Details of fire control room and its location.	Not required		N/A	No Shortfall
42	Is the building centrally air conditioned? If .so, please indicate.	Not required	-do-	N/A	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--
	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:	Not required	--do--	N/A	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.	Transformer outside the building and Switch gear outside/inside in separate room	--do--	One transformer capacity 250 KVA to 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?	Transformer outside the building and Switch gear outside/inside in separate room	--do--	Panel board and switch are installed in the ground floor side wall the staircase	No Shortfall
	b) What precautions have been taken to prevent a possible fire in transformers from spreading?	Required 01 No ABC 06 kg cap & 01 No Co ₂ 4.5 kg cap extinguisher for transformer and 01 No ABC 06 kg cap & 01 No Co ₂ 4.5 kg cap extinguisher for panel board	--do--	Not Provided	Shortfall
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	Required	-do-	Not Sealed	Shortfall

	sealed/ plugged with non combustible, fire resistive materials?				
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	--do--	Not trained	To be trained
47	Whether, emergency drills / rehearsals conducted regularly? If so, how often and whether local Fire Station is involved? If not, why ?	Required	Not mentioned in the plan.	Not Conducted	To be conducted twice in a year with involvement of local fire station
48	Has a qualified fire safety supervisor been appointed for the premises? If so, his full details. If not, why?	Not required	--do--	N/A	No Shortfall
49	Has the building been protected against lightning? If so, indicate its details including its periodical testing If not, why?	Required	--do--	Not Provided	Shortfall
50	Any other information.	<p>The Fire and life safety arrangement in respect of G+2 Floors Kendriya Vidyalaya, over Plot No-2206/3561, 2207/3562, Khata No-966/01, Mouza-Karakara, Dist-Bhadrak has been inspected by DFO Balasore Circle, Balasore and AFO Bhadrak Fire station in presence of Mrs Sujata Mishra Principal and other staffs. The Fire safety measures have been prepared as per NBCI 2016.</p> <p><u>View:-</u></p> <p>The Fire Safety Certificate will be issued in favour of G+2 Floors Kendriya Vidyalaya, over Plot No-2206/3561, 2207/3562, Khata No-966/01, Mouza-Karakara, Dist-Bhadrak after compliance of shortfalls mentioned in column no 06.</p>			

(S.P Behera)
Deputy Fire Officer
Balasore Circle, Balasore