



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

FORM-II

[See rule-12 (5)]

Fire Safety Recommendation

File No. IX-3-B-238-2018/FPS

1. Address of the proposed building/premises

2. Name and Address of the applicant (s)

3. Date of receipt of application

4. Proposed Occupancy (type of building Mouza-Argul, Bhubaneswar Dist-Khurda

Sri M.S Rathee, DGM, (Engg)

Zonal Office, IIT Bhubaneswar, Argul, Jatani,

Dist-Khordha.

14th September 2018

G+1 floor Auditorium building

BDA P&BS Regulations, 2018 - Assembly (Incidental

to main occupancy i.e Educational)

NBCI-2016 - Assembly (Group-D, Sub-Division-D1)

Ground floor only Central Research &

Instrumentation Facility building

BDA P&BS Regulations, 2018 - Educational

NBCI-2016 - Educational (Group-E, Sub-Division-E2)

G+1 floor Dispensary building

BDA P&BS Regulations, 2018 - Institutional

(Incidental to main occupancy i.e Educational)

NBCI-2016 -Institutional (Group-C, Sub-Division-C1)

Ground floor only Central Workshop building

BDA P&BS Regulations, 2018 - Industrial (Incidental to main occupancy i.e Educational)

NBCI-2016 - Industrial (Group-G, Sub-Division-G1)

G+7 floor Housing Type-A staff quarter building (02 Tower)

BDA P&BS Regulations, 2018 - Residential

NBCI-2016 -Residential (Group-A, Sub-Division A4)

G+7 floor Housing Type-B staff quarter building (04 Tower)

BDA P&BS Regulations, 2018 - Residential

NBCI-2016 - Residential (Group-A, Sub-Division A4)

G+7 floor Housing Type-C staff quarter building

(04 Tower)

BDA P&BS Regulations, 2018 - Residential

NBCI-2016 - Residential (Group-A, Sub-Division A4)

G+7 floor Housing Type-D staff quarter building

(02 Tower)

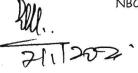
BDA P&BS Regulations, 2018 - Residential

NBCI-2016 - Residential (Group-A, Sub-Division A4)

Ground floor only Directors Bunglow

BDA P&BS Regulations, 2018 - Residential

NBCI-2016 - Residential (Group-A, Sub-Division A2)



G+1 floor Student Activity Centre building

BDA P&BS Regulations, 2018 - Assembly (Incidental to main occupancy i.e Educational).

NBCI-2016 - Assembly (Group-D, Sub-Division D3)

G+7 floor Boys Hostel Building

BDA P&BS Regulations, 2018 - Residential

NBCI-2016 - Residential (Group-A, Sub-Division A3)

G+6 floor Girls Hostel Building

BDA P&BS Regulations, 2018 - Residential

NBCI-2016 - Residential (Group-A, Sub-Division A3)

G+7 floor Boys Hostel Building

BDA P&BS Regulations, 2018 - Residential

NBCI-2016 - Residential (Group-A, Sub-Division A3)

6+1 floor School of Earth Ocean and Climatic

Sciences

BDA P&BS Regulations, 2018 - Educational

NBCI-2016 - Educational (Group-B, Sub-Division B2)

G+1 floor School of Mineral & Material Sciences

BDA P&BS Regulations, 2018 - Educational

NBCI-2016 -Educational (Group-B, Sub-Division B2)

G+1 floor School of Humanities, Social Science

and Management

BDA P&BS Regulations, 2018 - Educational

NBCI-2016 - Educational (Group-B, Sub-Division B2)

G+2 floor Lecture Theatre Block-1

BDA P&BS Regulations, 2018 – Educational

NBCI-2016 - Educational (Group-B, Sub-Division B2)

G+2 floor Lecture Theatre Block-2

BDA P&BS Regulations, 2018 - Educational

NBCI-2016 - Educational (Group-B, Sub-Division B2)

G+2 floor Lecture Theatre Block-3

BDA P&BS Regulations, 2018 - Educational

NBCI-2016 - Educational (Group-B, Sub-Division B2)

Plot Area - 2092044.5 sqm.

Over Plot No. 857, 916 & others

Khata Number - 405, 160 & others

11th April 2019

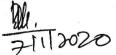
Area with plot number and khata number

6. Date of Inspection

7. Recommendation: -

The fire safety recommendation is as follows: -

Α.	Floor wise	G+1 floor Auditorium Building	2 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	occupancy with	> Ground - 3724.05 sqm.	* 5
	area	Usage - Assembly	
		> 1st floor - 1553.54 sqm.	
		Usage – Assembly	
		Total B.U.A-5277.59 sqm	J:
		Ground floor only Central Research & Instrumentation Facility Buil	aing
1,	0 NO AN	> Ground - 2506.85 sqm.	
1200	# ·	Usage - Research laboratories	
		> Terrace- 217.87 sqm	
		No usage.	
- "		Total B.U.A-2724.72 sqm	
7		G+1 floor Dispensary Building	
- 0		> Ground - 953.504 sqm.	
		DV.	



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Usage - X-Ray room, Ultrasound room, Delivery room, physiotherapy room, electrical room, Minor O.T, Emergency room, Pharmacy, O.P.D 1st floor - 885,306 sqm. Usage - Rooms having 23 bedded facility, I.C.U, Electrical Room, Nurses Room, Doctors Room. Terrace- 62.261 sqm No usage Total B.U.A-1901.072 sqm Ground floor only Central Workshop Building Ground - 2505.36 sqm Usage - Workshop, Raw material storage room, Faculty room, Technician room Terrace- 39.64 sqm No usage Total B.U.A-2545 sqm G+7 floor Housing Type-A Building (02 Towers typical building) Ground floor - 680.181 sqm. Usage - Parking, Services & Residential 1st floor - 716.087 sqm. Usage - Residential 2nd floor - 716.087 sqm. Usage - Residential 3rd floor - 716.087 sqm. Usage - Residential 4th floor - 716.087 sqm. Usage - Residential 5th floor - 716.087 sqm. Usage - Residential 6th floor - 716.087 sqm. Usage - Residential 7th floor - 716.087 sqm. Usage - Residential Total B.U.A-5692.79 sqm Total B.U.A of 02 towers= 11385.58 sqm G+7 floor Housing Type-B Building (04 Towers typical building) Ground floor - 623.762 sqm. Usage - Parking, Services & Residential 1st floor - 670.704 sqm. Usage - Residential 2nd floor - 670.704 sqm. Usage - Residential 3rd floor - 670.704 sqm. Usage - Residential 4th floor - 670.704 sqm. Usage - Residential 5th floor - 670.704 sqm. Usage - Residential 6th floor - 670.704 sqm. Usage - Residential 7th floor - 670.704 sqm. Usage - Residential Total B.U.A- 5318.69 sqm Total B.U.A of 04 towers= 21274.76 sqm G+7 floor Housing Type-C Building (04 Towers typical building) Ground floor - 562.44 sqm. Usage - Parking, Services & Residential

1st floor - 571.183 sqm. Usage - Residential 2nd floor - 571.183 sqm.

- Page 4 of 17 Usage - Residential 3rd floor - 571.183 sqm. Usage - Residential 4th floor - 571.183 sqm. Usage - Residential 5th floor - 571.183 sqm. Usage - Residential 6th floor - 571.183 sqm. Usage - Residential 7th floor - 571.183 sqm. Usage - Residential Total B.U.A-4560.721 sqm Total B.U.A of 04 Towers=18242.884 sqm G+7 floor Housing Type-D Building (02 Towers typical building) Ground floor - 419.068 sqm. Usage - Parking, Services & Residential 1st floor - 416.052 sqm. Usage - Residential 2nd floor - 416.052 sqm. Usage - Residential 3rd floor - 416.052 sqm. Usage - Residential 4th floor - 416.052 sqm. Usage - Residential 5th floor - 416.052 sqm. Usage - Residential 6th floor - 416.052 sqm. Usage - Residential 7th floor - 416.052 sqm. Usage - Residential Total B.U.A-3331.432 sqm Total B.U.A of 02 Towers= 6662.864 sqm Ground floor only Director's Bunglow Ground - 500.10 sqm. Usage - Residential G+1 floor SAC Building Ground - 3849.03 sqm. Usage-Gym, Sports hall, Lounge, Presidents office, Sport officers' room, Electrical 1st floor-603.63 Usage - Equipment store, rooms, squash court F Terrace- 56.32 sqm No usage Total B.U.A-4508.98 sqm G+7 floor Boy's Hostel Building Ground - 4960.5993 sqm. Usage - Services, Kitchen, dining hall, Gas bank, store rooms, staff rooms, Utensil and Pot wash rooms, multipurpose hall, lobby, warden office, conference room, guest rooms, Manager rooms, Supervisor room, Server room, Laundry, Isolation rooms and Hostel rooms. 1st floor - 2823.772 sqm. Usage - Hostel rooms and Server room 2nd floor - 2762.878 sqm.
 - Usage Hostel rooms and Server room

Usage - Hostel rooms and Server room

Usage - Hostel rooms and Server room

3rd floor - 2854.722 sqm.

4th floor - 2762.878 sqm.

> 5th floor - 2854.722 sqm.

Usage - Hostel rooms and Server room

> 6th floor - 2762.878 sqm.

Usage - Hostel rooms and Server room

7th floor - 2854.722 sqm.
 Usage - Hostel rooms and Server room

> Terrace- 182.963 sqm No usage

Total B.U.A- 24820.1343 sqm

G+7 floor Girls Hostel Building

Ground - 3390.97 sqm.

Usage - Services, Kitchen, dining hall, Gas bank, store rooms, staff rooms, Utensil and Pot wash rooms, multipurpose hall, lobby, warden office, conference room, guest rooms, Manager rooms, Supervisor room, Server room, Laundry, Isolation rooms and Hostel rooms.

> 1st floor - 1971.59 sqm.

Usage - Hostel rooms, Store, Utility and Server room

> 2nd floor - 1896.281 sqm.

Usage - Hostel rooms, Store, Utility and Server room

> 3rd floor - 1328.393 sqm.

Usage - Hostel rooms, Store, Utility and Server room

> 4th floor - 1896.281 sqm.

Usage - Hostel rooms, Store, Utility and Server room

> 5th floor - 1328.393 sqm.

Usage - Hostel rooms, Store, Utility and Server room

> 6th floor - 1896.281 sqm.

Usage - Hostel rooms, Store, Utility and Server room

> Terrace- 1328,393 sqm

No usage

Mumty-175.7 sqm

No usage

Total B.U.A- 15212.282 sgm

G+7 floor Boy's Hostel Building

Ground - 4960.5993 sqm.

Usage – Services, Kitchen, dining hall, Gas bank, store rooms, staff rooms, Utensil and Pot wash rooms, multipurpose hall, lobby, warden office, conference room, guest rooms, Manager rooms, Supervisor room, Server room, Laundry, Isolation rooms and Hostel rooms.

> 1st floor - 2823.772 sqm.

Usage - Hostel rooms and Server room

> 2nd floor - 2762.878 sqm.

Usage - Hostel rooms and Server room

> 3rd floor - 2854.722 sqm.

Usage - Hostel rooms and Server room

4th floor - 2762.878 sqm.

Usage - Hostel rooms and Server room

> 5th floor - 2854,722 sqm.

Usage - Hostel rooms and Server room

> 6th floor - 2762,878 sqm.

Usage - Hostel rooms and Server room

> 7th floor - 2854,722 sqm.

Usage - Hostel rooms and Server room

> Terrace- 182.963 sqm

No Usage

Total B.U.A- 24820.1343 sqm

21/2020

G+1 floor School of Earth Ocean and Climatic Sciences Building Ground - 2995.86 sam. Usage - Laboratories, class rooms, Seminar room, Students lounge, Services, Faculty rooms, Faculty lounge, Record room, Visitors Lounge, HOD's room, Meeting room, Cluster Server room, Pantry, Office room. 1st floor - 2846.50 sqm. Usage - Laboratory, class rooms, Seminar room, Faculty rooms, Pantry, Services. Terrace-159.08 sqm No usage Total B.U.A-6001.44 sqm G+1 floor School of Mineral and Material Sciences Building Ground - 2995.86 sqm. Usage - Laboratories, class rooms, Seminar room, Students lounge, Services, Faculty rooms, Faculty lounge, Record room, Visitors Lounge, HOD's room, Meeting room, Cluster Server room, Pantry, Office room. 1st floor - 2929.90 sqm. Usage - Laboratory, class rooms, Faculty rooms, Pantry, Services Terrace- 159.08 No usage Total B.U.A-6084.84 sqm G+1 floor School of Humanities, Social Sciences and Management Building Ground - 865.69 sqm. Usage - Laboratories, Library, Faculty lounge, Meeting room, HODs room, Visitor's lounge, Pantry, Record room, Office, Faculty room, Services, 1st floor - 769.18 sqm. Usage - Laboratory, class rooms, Faculty rooms, Services > Terrace- 80.16 sqm No usage Total B.U.A-1715.03 sqm G+2 floors Lecture Theatre Block -1 Building Ground - 2599.01 sam. Usage - Class rooms, 04 Nos. AHU, Teachers' lounge, Kitchen, Pantry 1st floor - 2529,595 sqm. Usage - Class rooms, 04 Nos. AHU 2nd floor - 2529.595 sqm. Usage - Class rooms, 04 Nos. AHU Total B.U.A-7658.2 sqm G+2 floors Lecture Theatre Block -2 Building Ground - 3711.10 sqm. Usage - Class rooms, 04 Nos. AHU, Supervisor room 1st floor - 3535.24 sqm. Usage - Class rooms, 04 Nos. AHU, Supervisor room 2nd floor - 1961.80 sqm. Usage - Class rooms, 04 Nos. AHU > Mumty-107.17 sqm No usage Total B.U.A-9315.31 sqm G+2 floors Lecture Theatre Block -3 Building Ground - 2599.01 sqm. Usage - Class rooms, 04 Nos. AHU, Teachers' lounge, Kitchen, Pantry 1st floor - 2529,595 sqm. Usage - Class rooms, 04 Nos. AHU 2nd floor - 2529.595 sqm. Usage - Class rooms, 04 Nos. AHU Total B.U.A-7658.20 sqm 15 mtrs. G+1 floor Auditorium Building Ground floor only Central Research & Instrumentation Facility 5.9 mtrs. Building

Height

В.

		2.4.Cl. Dianaya-my Duilding			9.15 mtrs	
)		G+1 floor Dispensary Building	2		5.10 mtrs	
		Ground floor only Central Workshop Building	er)		24.45 mtr	
		G+7 floor Housing Type-A Building (02 Towe	r)		24.45 mt	
		G+7 floor Housing Type-B Building (04 Towe	r)		24.45 mt	
	9	G+7 floor Housing Type-C Building (04 Towe	er)		24.45 mt	rs. each
	4)	G+7 floor Housing Type-D Building (02 Towe			3.95 mtr	s.
		Ground floor only Director's Bunglow			11.75 mtr	rs.
		G+1 floor SAC Building			27 mtrs.	
		G+7 floor Boy's Hostel Building			24 mtrs.	
		G+6 floor Girls Hostel Building			27 mtrs.	
	1 2	st D /- Heatal Building		Duilding	8.80 mtr	
1		Calcal of Earth Ocean and Clima	fic Sciences	Jina	8.80 mtr	
		a l I of Minanal and Material S	CIENCES DUNG	Jilly	8.80 mtr	
	*	G+1 floor School of Mineral and Mars. Social Scientific G+1 floor School of Humanities, Social Scientific G+1 floor School of Humanities G+1 floor of Humanities G+1	ences and Ma	anagement	0.00 1111	
		Ruilding			14.60 m	trs
		C.2 floors Lecture Theatre Block -1 Buildi	ng		15.50 m	
		C+2 floors Lecture Theatre Block -2 Build	ing			
		G+2 floors Lecture Theatre Block -3 Build	ing		14.60 m	11'5.
				proposed in I	Housing Typ	e-A, B, C
	Parking	 Provision of part ground floor parking & D buildings & open parking (in the co 	ampus) have	been propos	sed in the pl	an.
		l a line shall be made in	accordance	to Regulation	on-37 of Bl	JA(Pabs)
1	, <u>*</u> .	Regulations, 2018.				
		. I may ided the	all be in addi	tion to the	minimum se	tbacks as
1						
		required under regulation Means of A	Access propo	sed - 13.2 n	ntrs.	
- T		Wiath of abuilting Road of Man	alot has not	been menti	ioned in the	e plan.
).	required under Regulation-32 at 33 of 25. Access to the buildings Midth of abutting Road or Means of Access proposed - 13.2 mtrs. Dimension of main entrance to the plot has not been mentioned in the premises.					
).	buildings	Dimension of main entrance to the p				shall not
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		Boy's Hostel Build		138,777	207.084	93.034	60.28
		School of Earth O	legen and Climati	113.400	106.365	101.825	325.480
		Sciences Building	rceun and climatic	98.624	86.835	41.391	58.965
		School of Mineral	and Matarial	20.000			
		Sciences Building	and material	38.899	41.114	19.379	135.956
	2	School of Humanit	ing Cont.	-			
		Sciences and Mana	ies, social	149.753	65.046	69.481	97.842
	` -	Lecture Theetre D	Jenent Building				
a		Lecture Theatre B	lock -1 Building	61.993	31.652	136.752	45.946
*		Lecture Theatre B	lock -2 Building	61.993	31.652	136.752	45.946
	×	Lecture Theatre B	lock -3 Building	61.993	31.652	136.752	45.946
		Ine atorement	ioned setback has	been intim	ated by th	e G.M (En	99.), NB
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	a 52	Danaing has hot	Deeri mentioned				
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		erc, if any which	are proposed to b	e positioned	in the comp	ulsory open	Space or
		musi nave appro	priate load bearing	capacity.			
		> The space set ap	part for providing a	ccess within	the premie	og aball ba	
		sky and not to b	e used as parking s	naca and ah	-III- C	es shall be (open to th
	:	the time.	a accorded but King S	pace and sn	all be tree t	rom obstru	iction at a
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		besides, the ent	ire specified comp	ulsory open	space area	and drivewa	y 7.5 mt
		shall be kept unbi	ullt and the drivewo	ly shall be co	instructed of	f hard sunfa	aco conch
	e - 8	of taking load of	Tire engine weighir	ig up to 45 t	ons for easy	neress of	fina anair
*:		as per Regulatio	ns-33 of BDA(P&B	S) Regulati	ons 2018 I	and bearin	o canacit
1		certificate from	.1	, ,	,	Loud Deal III	u cabacii
		Joi III I Care II OIII	the competent auti	pority shall b	a obtained	4- 41- 4 CC	J
	*	> The space set and	the competent auth	nority shall b	e obtained	to that affa	204
	9	The space set apo	art for providing a	nority shall b	oe obtained	to that effe	204
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	Number, Dimension &	As shown in the and connectivity be and connectivity be Name of the Building Auditorium Building Central Research & Instrumentation Facility Building Dispensary Building Central Workshop	art for providing acts paces for other an plan provision of type tween floor are an art floor. Width-2.40 mtrs. Tread-319 mm Riser-150 mm O3 Nos. staircas Width-1.2 mtrs. Tread-300 mm Riser-150 mm O2 Nos. Staircas Width-1.5 mtrs. Tread-300 mm Riser-150 mm O1 No. staircase Width-1.8 mtrs. Tread-300 mm Riser-150 mm O2 Nos. Staircase Width-1.8 mtrs. Tread-300 mm Riser-150 mm	nority shall becess within menities require of exit cas follows. Number, Director of the connected of the connected for	the premise aired for the premise of each build be seen build bu	to that effects shall not be building. ding, their commander and to mezzal and to loft. d to top flood to loft.	ect be used a dimensions nine

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		C and to ton floor
Housing Type-B	02 Nos. Staircase connected from	n Ground to top thou.
Building (04 Tower)	Width-1.25 mtrs.	
Bulluing (5 1 1 2 1 7	Tread-300 mm	* .
*	Riser-150 mm	a laster floor
Housing Type-C	02 Nos. Staircase connected fro	m Ground to top floor.
Building (04 Tower)	Width-1.25 mtrs.	
Building (04 Tower)	Tread-300 mm	
-	.=0	
	02 Nos. Staircase connected fro	m Ground to top floor.
Housing Type-D	Width-1.25 mtrs.	
Building (02 Tower)	Tread-300 mm	
	450	
	Riser-150 mm O1 No. Staircase connected from	n Ground to top floor.
SAC Building	Width-1.80 mtrs.	
	Tread-300 mm	
	450	
	Riser-150 mm 04 Nos. Staircase connected fr	om Ground to top floor.
Boy's Hostel Building	04 Nos. Staircase connected to	
	Ground to 1st floor	
	Width-1.80 mtrs.	
	Tread-300 mm	
2	Riser-151.7 mm	
	1st floor to top floor	
	Width-1.80 mtrs.	
4.	Tread-300 mm	•
	Riser-150 mm	Ground to ton floor.
Girls Hostel Building	04 Nos. Staircase connected f	Staircase-3 & 4 from ground
611 13 1 103 101 5 2 2 2 2	Staircase-1 & 2 from ground	Staircase-3 a + 11 on 3.
,	up to 2 nd floor.	up to 1st floor.
0	Width-1.80 mtrs.	Width-1.80 mtrs.
	Tread-300 mm	Tread-300 mm
**	Riser-151.7 mm approx	Riser-152 mm
-	Staircase-1 & 2 from 2nd	Staircase-3 & 4 from 1st
* **	floor to top floor.	floor to top floor.
	Width-1.80 mtrs.	Width-1.80 mtrs.
	Tread-300 mm	Tread-300 mm
II .	450	Riser-150 mm
12 111		from Ground to top floor.
Boy's Hostel Buildin	Ground to 1st floor	
	Width-1.80 mtrs.	
	Tread-300 mm	
	Riser-151.7 mm	
e		
	1 st floor to top floor Width-1.80 mtrs.	
	Tread-300 mm	
-	Riser-150 mm	ed from Ground to top floor
School of Earth	03 Nos. Staircases connect	ed I om or other
Ocean and Climation	Staircase-1 & 2	
Sciences Building	Width-1.85 mtrs.	
50,011000 5 2 2 2 2 2 2	Tread-300 mm	
	Riser-150 mm	e e e e e e e e e e e e e e e e e e e
	Staircase-3	e se in in a se
, ,	Width-2.4 mtrs.	
-	Tread-300 mm	
		l
1 (1)		ted from Ground to top floor
School of Minera	102	
1 2 1 2 1 1 1 1 1 1	a Staircase Luc	
Material Science Building	Width-1.85 mtrs.	

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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Tread-300 mm	
	Riser-150 mm	
	Staircase-3	
	Ground to 1st floor	
* *	Width-2.40 mtrs.	
	Tread-300 mm	
	Riser-150 mm	
	1st to top floor	
	Width-2.49 mtrs.	
я 9	Tread-300 mm	
	Dicer-150 mm	
School of Humanities,	01 No. Staircase connected from	n Ground to top floor
Social Sciences and	Ground floor to 1st floor	
Management Building	Width-2.49 mtrs.	
Management building	Tread-300 mm	
	Riser-150 mm	
	1st floor to top floor	w ,
	Width-2.40 mtrs.	
	Tread-300 mm	
	Dican-150 mm	
Lecture Theatre	03 No. Staircases connected fr	om Ground to top floor
Block -1 Building	Staircase 1 & 2	Staircase 3
Block -1 Bulland	Width-2.70 mtrs.	Width-1.80 mtrs.
*	Tread-300 mm	Tread-300 mm
	Dican-150 mm	Riser-150 mm
Lecture Theatre	02 No Staincases connected f	rom ground to top floor
	02 Nos. Staircases connected	from ground to 1st floor
Block -2 Building	Width-1.80 mtrs.	
7	Tread-300 mm	
	Riser-150 mm	
		nom Ground to top floor
Lecture Theatre	03 No. Staircases connected f	Staircase 3
Block -3 Building	Staircase 1 & 2	Width-1.80 mtrs.
	Width-2.70 mtrs.	Tread-300 mm
	Tread-300 mm	Riser-150 mm
	Riser-150 mm	CDTF and Dispensary building

Provision of exits proposed in the buildings except C.R.I.F and Dispensary building satisfies the requirement as per BDA(P&BS) Regulations, 2018.

Width of staircases proposed for C.R.I.F and Dispensary building shall be provided as per Regulation-71 and Annexure-XI of BDA(P&B5) Regulations,

Width of staircases shall not be less than 1.5 mtrs. for Educational building and 02 mtrs. for Assembly, Institutional (Dispensary) building as per BDA (P&BS) Regulations, 2018.

Travel distance shall be maintained in each building as per BDA (P&BS) Regulations-

No exit doorways shall be less than 01 mtr. in width and height less than 02 mtrs.

The staircases are required to be pressurized or provision of natural ventilation be made at each floor landing. The natural ventilation requirement of the staircases shall be achieved through opening at each landing of an area 0.5 m² in the external wall.

Mechanism for pressurizing the staircase shall operate automatically with the fire

Access to the main staircases be gained through automatic closing fire check doors of 02 hrs. rating with panic bar.

External exit door of staircase enclosure at ground level shall open directly to the open spaces or can be reached without passing through any door other than a door provided to drought lobby.

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	4) // // // // // // // // // // // // //	> Every doorway shall open into and enclose	ed stairway, a horizontal exit, on a corridor
		or passageway providing continuous and	protected means of egress.
		The exit sign with arrow indicating the	way to the escape route shall be provided
		at all conspicuous places and shall be i	Illuminated by electric light connected to
		corridor circuits. Provision of escape lig	hting and exit signage needs to be made in
		accordance to Clause 3,4,7,1 to 3,4,7,4	of Part-4, NBCI-2016 & IS 9457:1980, IS
	*	12349:1988, IS 12407:1988.	
	_	> All landings of floor shall have floor in	ndication boards indicating the number of
		floor.	-
		Tradition to show all other provision	ns for exits/doorways/stairways shall be
	a	made as per Clause 4.2 to 4.6.2 of NBCI-201	6 and as per BDA(P&BS) Regulations, 2018
		and the state of t	one are as follows:-
€.	Lifts		01 lift running from ground floor to
		G+1 floor Auditorium Building	mezzanine floor.
	1 e		
	= -	Ground floor only CRIF Building	01 No. lift running from ground floor
	4" 2 2		to top floor.
	* -	G+1 floor Dispensary Building	01 No. lift running from ground floor
	1 2 2 2		to top floor.
	0 pr	Ground floor only Central Workshop	01 No. lift running from ground floor
		Building	to top floor.
		G+7 floor Housing Type-A Building (02	02 Nos. lift for each tower running
	2.9	Tower)	from ground floor to top floor.
		G+7 floor Housing Type-B Building (04	02 Nos. lift for each tower running
	н 2 , к		from ground floor to top floor.
	, , , , , , , , , , , , , , , , , , ,	Tower)	O2 Nos. lift for each tower running
		G+7 floor Housing Type-C Building (04	from ground floor to top floor.
		Tower)	O2 Nos. lift for each tower running
	-	G+7 floor Housing Type-D Building (02	
		Tower)	from ground floor to top floor.
	x 6	G+1 floor SAC Building	01 No. lift running from ground floor
	Tr = 20		to top floor.
		G+7 floor Boy's Hostel Building	06 Nos. lift running from ground floor
			to top floor.
		G+6 floor Girl's Hostel Building	04 Nos. lift running from ground floor
			to top floor.
	t + , + , - + , ,	G+7 floor Boy's Hostel Building	06 Nos. lift running from ground floor
	,	Ory floor boy a rice versually	to top floor.
		G+1 floor School of Earth Ocean and	02 Nos. lift running from ground floor
		Climatic Sciences Building	to top floor.
		G+1 floor School of Mineral and Material	02 Nos. lift running from ground floor
			to top floor.
		Sciences Building	No lift
	3 3 3	G+1 floor School of Humanities, Social	INO III I
		Sciences and Management Building	O2 No lift remains from anound floor
		G+2 floors Lecture Theatre Block -1	02 Nos. lift running from ground floor
5. o	3 J	Building	to top floor.
		G+2 floors Lecture Theatre Block -2	02 Nos. lift running from ground floor
	."	Building	to top floor.
		G+2 floors Lecture Theatre Block -3	02 Nos. lift running from ground floor
	æ	Ruilding	to top floor.
		ti il latarand floor lava	
		Grounding switch at ground 1001 level	ace rating of 01 Hr
		> Lift car door shall have a fire resistar	Let for lifte and shall have solid doors w
1		Collapsible gates shall not be permit	ted for lifts and shall have solid doors w
		fire resistance of at least 01 Hr.	
á		> A sign shall be posted and maintained	I on every floor at or near the lift indicat
Ε,		floor plan of each floor showing the lo	ocations of the stairways.
		tioor plan of each tioor showing the ic	as of the building a negitive pressure between
3%	É a la l	> If the lift shaft and lobby is in the cor	re of the building, a positive pressure between
1		25 and 30 pa shall be maintained in th	e lobby and a positive pressure of 50 pasi
	A		D 9 11/
			2112020

V 1		Page 12 of 17
		be maintained in the lift shaft. The marketing
	8	be maintained in the lift shaft. The mechanism for pressurization shall automatically with the fire alarm; it shall be a solution of the pressurization shall be a solution.
		automatically with the fire alarm; it shall be possible to operate this mechanically.
		A CONTRACTOR OF THE PROPERTY O
		Tom the lift lobby, it located in the core of the builting
- 1		James 310p door of right an notice time recistance
	, ,	The required tire safety measures in fireman lift shall be
1		of Part-8, Section-5 of NBCI-2016 and as per Annexure- XI & IV of Bhubanesw
1	£ 31	Development Authority (Planning and Buildings)
		Development Authority (Planning and Building Standards) Regulations-2018.
		shall be conspicuously displayed in fluence
	20 00 00	J and a cach Hook level
1		The speed of the fire lift shall be such that it can reach to the top floor fro
		S within one minute.
		The lift lobbies shall be pressurized or cross-ventilated as per Table-6 and clause
		4.4.2.5 & E-2 of Part-IV of NBCI-2016.
	e e	Provision and province of Chicago
-	* * * * * * * * * * * * * * * * * * *	Provision and requirement of lift shall be made as per BDA (P&BS) Regulations
1:		In addition to above, other provisions of lift shall comply to the requirements a
		and the services, Section of Lifts Fall and the services of Li
1 2 2 3	8 " " " "	The section of A Lift's of Part-8 of National Building Code of The Lift 2014
	200	per of BDA(P&BS) Regulations, 2018.
Н.	Firefighting	> Provision of at least one finational finations at the state of the s
	Shaft	Provision of at least one firefighting shaft shall be made in Auditorium building.
- 5.	(Fire Tower)	Housing Type-A (2-10Wer), Housing Type-B (4-Tower) Housing Type
1.0	*	- sweet, flowing type-D (2-lower), 02 Nos Boy's Hostal O1 No. C: 11 11
		BIOCK-2.
		Provision of firefighting shaft shall comply to the requirements as specified in Clause-2.24 Part-4 of NRCT-2016
	4 E	Clause-2.24 Part-4 of NBCI-2016.
I.		
1.	Construction	During construction of the proposed high rise buildings the following fire
		protection measures shall be provided: -
	E	i. Dry riser of minimum 100 mm diameter
~ ~ ~		 Dry riser of minimum 100 mm diameter pipe with hydrant outlets on the floors.
×" ×		110013,
		and of 2000 in her capacity filled with water with 02 fire buckets on acch
1		11661.
•		iii. A water storage tank of minimum 20,000-liter capacity
		The minimum fire resistance ratings of structural and
	**	The state of the s
		All floors shall be compartmented/zoned with area of each
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		> The provision of fire safety measures and other requirements ()
y		of LPG in the building shall comply to the provisions given in Annexure-G of Part-
		1 1 1001 L010 Und 13.0044
		Refuse chutes if any provided in the building shall complied with Clayuse-3.4.5.5 of
		Part-IV of NBCI-2016.
	6	The false ceiling, including all fixtures used for its suspension shall be of non-
		combustible material and shall provide adequate fire resistant to the ceiling in
- -		order to prevent spread of fire across ceiling.
		The structural safety design and construction of the building shall be done as per
		Clause-3.3 & 3.4 of NBCI-2016 and Deculation 73 - 6 pp 4 200 - 12
		Clause-3.3 & 3.4 of NBCI-2016 and Regulation-73 of BDA(P&BS) Regulations, 2018.
	Refuse Area	ois a 5.7 of MBC1-2016 and Regulation-/3 of BDA(P&BS) Regulations, 2018.
	Refuse Area	Refuse area shall be provided in buildings of height more than 24 mars.
	Refuse Area	Refuse area shall be provided in buildings of height more than 24 mtrs

21.12.00.

<u>к.</u>	Building Services	Electrical Services: -
Κ.	Bullaing Services	> Stand-by electric generator shall be installed to supply power to staircase and corridor lighting circuits, fire lifts, the stand-by fire pumps, pressurization fans and blowers, smoke extraction and damper system in case of failure of normal electric supply.
		> The staircase and corridor lighting shall be on separate service and shall be independently connected so as it could be operated by one switch installation on the ground floor, easily accessible to firefighting staff at any time irrespective of the position of the individuate control of the light points, if any.
		 Staircase and corridor lighting shall also be connected to alternate supply from parallel high-tension supply or to the supply from the stand-by generator. All wires and other accessories used for emergency light shall have fire retardant property. The electric distribution cables or wiring shall be laid in separate duct which shall be sealed at every floor with non-combustible materials having the same fire resistance as that of the duct. Low and medium voltage wiring running in shaft and in false ceiling shall run in separate conduits. Water mains, telephone cables, intercom cables, gas pipes or any other service line shall not be laid in the duct for electric cables.
		> Transformer shall be installed as per the National Building Code of India 2018, Indian Electricity Rule and required fire protection measures be taken for the
		Electrical M. V. Panels shall be provided with Co2/Inert Gas flooding system for all panel compartments.
n 8		Electrical Installations in the building stall comply 3.4.6 to 3.4.7.4 of part-4 NBCI-2016 and as per BDA(P&BS) Regulations, 2018. Provision for lightning protection shall be made in the proposed building as per IS/IEC 62305-4:2010.
		Air Conditioning: - If Central Air Conditioning system provided,
	X 1	Air Conditioning: - It Central Air Conditioning operations. Escape routes like staircases, common corridors, lift lobbies shall not be used as
	# # # # # # # # # # # # # # # # # # #	C VA PROPERTY OF THE PROPERTY
	* .	return air passage. Air ducts serving main floor areas, corridors, shall not pass through the staircase
		 enclosure. The air-handling units shall be separate 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. Wherever the ducts pass through fire walls or floors, the opening around the ducts wherever the ducts pass through fire walls or floors, the opening around the ducts shall be sealed with materials having fire resistance rating of the compartment. Shall be shall also be provided with fire dampers at all fire walls and floors unless
	[™] ∞	such duct shall also be provided with for fire safety operation. such ducts are required to perform for fire safety operation. The Air Conditioning shall also be coupled with fire detection and alarm system.
		> Metallic ducts shall be used even for the return all mistors of
6 2		> The materials used for insulating the duct system (inside of ourside)
		non-combustible material. Air Conditioning system in the building shall comply to the provisions given in Clause 3.4.8 to 3.4.8.4.2 of part-4 NBCI-2016 and as per BDA(P&BS) Regulations, 2018. Service Ducts and Shafts:
		Openings in walls or floors which are necessary to be provided and such shall building services like cables, electrical wirings, telephone cables, plumbing pipe all building services like cables, electrical wirings, telephone cables, plumbing pipe
•		etc. shall be protected by enclosure in the form of the resistance rating not less the and inspection doors fitted thereto shall have fire resistance rating not less the and inspection doors fitted thereto shall have fire resistance rating not less the
		fination installations are required to so finations
L	Fixed Fire Fighting	building as mentioned hereunder as per NBCI-2016 and BIS.
	Installation	. us to building
	Installatio	15 Addition tails 2

Student Activity Centre building

- i. <u>Fire Extinguisher:</u> Provision of fire extinguishers shall be made in entire building. (BIS:2190:2010)
- First-aid Hose Reel: First-aid hose reel shall be provided on all floor of each building. (BIS 884:1985 & BIS 3844:1989)
 WET RISED: The process of the little of the provided on all floor of each little of the process of the little of the provided on all floor of each litt
 - WET RISER: The proposed buildings are required to be provided wet riser with provision of hydrant outlet and hose reel on each floor landing connected to the fire pump. Fire Service inlets at ground level fitted with non-return valves shall also be provided to the rising main for charging it by Fire Service pump in case of failure of static fire pump. The riser should be fully charged and automatic in operation with adequate pressure at all times (BIS:3844:1989).

The internal diameter of the riser main should be not less than 100 mm. Each hydrant should be preferably of single outlet and comprise of 63 mm. Gun metal landing valve fitted with 63 mm instantaneous coupling conforming to IS:901:1988.

Sufficient length of rubber lined fire hoses subject to minimum two lengths of 15 mtrs length fitted with coupling together with branch pipe and nozzle conforming to IS:903:1984 should be provided and kept adjacent to the hydrant in hose boxes.

- iv. Manually Operated Electronic Fire Alarm System: Manually Operated Electronic fire alarm system at conspicuous places in all floor of each building shall be provided Manually operated electronic fire alarm system shall also include talk-back and Public Address System. (IS/ISO 7240-11:2011)
- v. <u>Automatic Detection & Alarm System</u>: Automatic Detection & Alarm system shall require to be provided both below and above the false ceiling (if void space exceeds 800 mm) in entire building including inside the electrical shafts & lift machine rooms etc. Electrical rooms, cabins & other areas in car parking shall have also provision of fire detection system. Installation of automatic fire detection and alarm system shall be in accordance with BIS 2189:2008.
- vi. <u>Under Ground Static Water Storage Tank:</u> Static underground storage tank of 1,00,000 ltrs. capacity shall be provided for each building. The tanks shall entirely be accessible to fire appliances of the local Fire Service. Provision of suitable manhole shall be made available for inspection, repair and insertion of suction hose etc. The covering slab shall be able to withstand the vehicular load of 45 tons. Static underground tank shall be constructed in accordance with Clause-5.1.2.1 of Part-4, NBCI-2016.
- vii. <u>Terrace Tank</u>: Terrace Tank of 5,000 ltrs. Capacity shall be provided at the top of each building for firefighting purpose. It should be ensured that water in the tank is not utilized for any other purpose other than firefighting.
- viii. Fire Pumps: Pump house should preferably be installed at ground level. It shall be situated so as to be directly accessible from the surrounding ground level. Required number of sets of pumps each consisting of one Electric & one Diesel pump (Stand by) of capacity 2280 lpm. & one electric pump of capacity 180 lpm shall be provided. Installation of pumps shall be made in accordance to Clause-5.1.2.2 of Part-IV, NBCI-2016 and relevant BIS specification.
- ix. <u>Terrace Pump</u>: Provision of terrace pump of 450 lpm. Capacity having connectivity to terrace tank shall be made in the building.

Central Research & Instrumentation Facility building, Central Workshop building,

- Fire Extinguisher: Provision of fire extinguishers shall be made in entire building. (BIS:2190:2010)
- ii. <u>First-aid Hose Reel</u>: First-aid hose reel shall be provided on each floor of the buildings. (BIS 884:1985 & BIS 3844:1989).
- iii. <u>Down Comer :-</u>

Down Comer shall be provided in each floor of the building. The distribution of down comer installation in the proposed building shall be so situated as not to be farther than 30 meters from any point in the area covered and shall not be more

W.

than 50 meters apart in horizontal. At each floor landing there shall be provision of hose box to accommodate 02 Nos. RRL Delivery Hoses of 15 meters length each of 63 mm dia and 01 Nos. branch pipe. (BIS 3844:1989)

- Manually Operated Electronic Fire Alarm System: Manually Operated Electronic fire alarm system at conspicuous places in each floor of the building shall be provided Manually operated electronic fire alarm system shall also include talk-back and Public Address System. (IS/ISO 7240-11:2011)
- Terrace Tank: Terrace Tank of 10,000 ltrs. capacity shall be provided at the top of C.R.I.F building and Terrace Tank of 20,000 ltrs. capacity shall be provided at the top of Central Workshop building for firefighting purpose. It should be ensured that water in the tank is not utilized for any other purpose other than
- Terrace Pump: Provision of terrace pump of 450 lpm. Capacity having vi. connectivity to terrace tank shall be made in the building

School of Earth Ocean and Climatic Sciences, School of Mineral & Material Sciences, School of Humanities, Social Science and Management,

Lecture theatre Block-1, Lecture Theatre Block-3

Fire Extinguisher: - Provision of fire extinguishers shall be made in entire building. (BIS:2190:2010)

First-aid Hose Reel: - First-aid hose reel shall be provided on each floor of the buildings. (BIS 884:1985 & BIS 3844:1989)

Terrace Tank: - Terrace Tank of 10,000 ltrs. Capacity shall be provided at the top of each building for firefighting purpose. It should be ensured that water in the tank is not utilized for any other purpose other than firefighting.

Terrace Pump: - Provision of terrace pump of 450 lpm. Capacity having iv. connectivity to terrace tank shall be made in the building.

<u>Lecture Theatre Block-2</u>

Fire Extinguisher: - Provision of fire extinguishers shall be made in entire i. building. (BIS:2190:2010)

First-aid Hose Reel: - First-aid hose reel shall be provided on each floor of the building. (BIS 884:1985 & BIS 3844:1989)

Down Comer shall be provided in each floor of the building. The distribution of Down Comer: down comer installation in the proposed building shall be so situated as not to be farther than 30 meters from any point in the area covered and shall not be more than 50 meters apart in horizontal. At each floor landing there shall be provision of hose box to accommodate 02 Nos. RRL Delivery Hoses of 15 meters length each of 63 mm dia and 01 Nos. branch pipe. (BIS 3844:1989)

Manually Operated Electronic Fire Alarm System: - Manually Operated Electronic fire alarm system at conspicuous places in each floor of the building shall be provided Manually operated electronic fire alarm system shall also include talk-back and Public Address System. (IS/ISO 7240-11:2011)

Terrace Tank: - Terrace Tank of 25,000 Itrs. Capacity shall be provided at the top of building for firefighting purpose. It should be ensured that water in the ٧. tank is not utilized for any other purpose other than firefighting.

Terrace Pump: - Provision of terrace pump of 900 lpm. Capacity having connectivity to terrace tank shall be made in the building.

Housing Type A staff quarter (2-Towers), Housing Type B staff quarter (4-Towers), Housing Type C staff quarter (4-Towers), Housing Type D staff quarter (2-Towers), 02 Nos. Boy's Hostel,

01 No. Girl's Hostel.

14.8		i. Fire Extinguisher: - Provision of fire extinguishers shall be made in entire
		building. (BIS:2190:2010) ii. First-aid Hose Reel: - First-aid hose reel shall be provided an all floor of a shall be provided as all flo
	1	- I was and hose reel shall be provided on all 1100r of each
	*	building. (BIS 884:1985 & BIS 3844:1989) iii. Down Comer: -
	x x a	
	n - 14	Down Comer shall be provided in each floor of the buildings. The distribution of
		down comer installation in the proposed buildings shall be so situated as not to
	1 41°	be farther than 30 meters from any point in the area covered and shall not be
		more than 50 meters apart in horizontal. At each floor landing there shall be
	para was	provision of hose box to accommodate 02 Nos. RRL Delivery Hoses of 15 meters
	a	length each of 63 mm dia and 01 Nos. branch pipe. (BIS 3844:1989) iv. Manually Operated Flectronic Fine Alanm System: Alanma System:
	(- Manually Operated
		Electronic fire alarm system at conspicuous places in all floors of each building
1 8		shall be provided Manually operated electronic fire alarm system shall also include talk-back and Public Address System. (IS/ISO 7240-11:2011)
		v. <u>Terrace Tank</u> : - Terrace Tank of 25,000 ltrs. Capacity shall be provided at the
	e e	top of each building for firefighting purpose. It should be arrowed at the
1		top of each building for firefighting purpose. It should be ensured that water in the tank is not utilized for any other purpose other than firefighting.
		vi. <u>Terrace Pump</u> : - Provision of terrace pump of 900 lpm. Capacity having
		connectivity to terrace tank shall be made in each building.
		To for dee fank shan be made in each building.
	÷	Dispensary Building (Considering occupancies as shown in the plan)
	,	i. Fire Extinguisher: - Provision of fire extinguishers shall be made in entire
- "		building. (BIS:2190:2010)
		ii. First-aid Hose Reel: - First-aid hose reel shall be provided on each floor of the
		building. (BIS 884:1985 & BIS 3844:1989
		iii. Manually Operated Electronic Fire Alarm System: - Manually Operated
		Electronic fire alarm system at conspicuous places in each floor of the building
		shall be provided Manually operated electronic fire alarm system shall also
		include talk-back and Public Address System. (IS/ISO 7240-11:2011)
	2 0	iv. <u>Terrace Tank</u> : - Terrace Tank of 10,000 ltrs. capacity shall be provided at the
	A 12.	top of the building for firefighting purpose. It should be ensured that water in
	* #2	the tank is not utilized for any other purpose other than firefighting.
	n ====	v. <u>Terrace Pump</u> : - Provision of terrace pump of 900 lpm. Capacity having
	_	connectivity to terrace tank shall be made in the building.
	1	vi. <u>Automatic Sprinkler System</u> : - Automatic water sprinkler system with sprinkler
		heads shall be provided in all floors of the building both below & above the false
	1	ceiling (Where void space exceeds 800 mm) at suitable intervals and height.
		Installation of Sprinklers shall be provided in accordance to BIS specification
	· ·	15105:2002 and 9972:2002.
		vii. Automatic Detection & Alarm System: - Automatic Detection & Alarm system
	*	shall require to be provided both below and above the false ceiling (if void space
		exceeds 800 mm) in entire building including inside the electrical shafts & lift
		machine rooms etc. Electrical rooms, cabins & other areas in car parking shall
		have also provision of fire detection system. Installation of automatic fire
		detection and alarm system shall be in accordance with BIS 2189:2008.
Μ.	Fire Command	> There shall be a Fire Command Centre on entrance floor of the building having
е .	Centre	direct access. The Fire Command Centre shall have the main fire alarm panel with
		communication system (suitable public-address system). All controls and monitoring
	=	of fire alarm systems, pressurization systems, smoke management systems shall
		happen from this room. Fire Command Centre shall have provisions in accordance
	2	with Clause-3.4.12 of Part-4, NBCI-2016.
	2	The owner/occupier shall provide any additional fire requirements in future if
		the recommendation is issued by this department.
N.	Provision for Gas	Construction and provision of fire safety measures and firefighting measures shall
	Bank	be of IS-6044 of 2000.
		nial

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O. Provision for fire safety measures of the Special nature of the	on premises where warm
area.	1. 1.1

After completion of the construction work including installation of fixed firefighting measures as suggested, the applicant shall be required to apply for Fire Safety Certificate as per Rule 13 (1) of Odisha Fire Prevention and Fire Safety Rules, 2017, along with following documents: -

- The applicant shall produce a certificate to be issued by the person concerned to the effect that all the provisions of Bye-Laws / Regulations of Bhubaneswar Development Authority and Recommendations issued from this Directorate General have been incorporated in the building.
- ii. The applicant shall produce a certificate of the Competent Authority concerned to the effect that electrical installations have been done as recommended and as per provisions given in Part-8 "Building Services, Section-2 Electrical and allied installations" of NBCI-2016 and Section-7 of National Electrical Code, 2011.

iii. The applicant shall produce a certificate of the agency concerned to the effect that installation of firefighting measures has been done as recommended and as per provisions given in Part-4 of National Building Code of India - 2016 and relevant BIS specifications. A(117070.

Central Range, Cuttack

Memo No. ______/CR-FPS

Copy to the Dy. General Manager (Engg.) NBCC India Ltd., Argul, Jatni, Dist-Khordha for information

and necessary action.

Central Range, Cuttack.

Memo No. 496 /CR-FPS

Copy to Planning Member, Bhubaneswar Development Authority, Bhubaneswar for information and

necessary action.

Central Range, Cuttack.

Memo No. 40 /CR-FPS

Copy submitted to the Chief Fire Officer, Fire Prevention Wing, Odisha, Cuttack for kind

information please.

Fire Officer,
Central Range, Cuttack.