

GOVERNMENT OF NATIONAL CAPITAL TERRITORY OF DELHI
HEADQUARTERS: DELHI FIRE SERVICE: NEW DELHI- 110 001

No. F6/DFS/MS/DMRC/2017/722

Dated: 18/05/17

FIRE SAFETY CERTIFICATE

Certified that M/s Metro Station at Delhi Aerocity, Near Mahipalpur, IGI Airport, New Delhi-110037, comprised of four levels (undercroft and platform below ground level, concourse at ground floor and 1st floor for services only), owned/occupied by Delhi Metro Rail Corporation, was granted Fire Safety Certificate by this department vide letter No. F6/DFS/MS/2014/DMRC/SZ/445, dated 03-04-14. The premises was re-inspected by the officer concerned of this department on 18-04-17 in the presence of Sh. Vikash Bhardwaj, AM/Fire and found that the said premises have deemed complied with the fire prevention and fire safety requirements in accordance with rule 33 of the Delhi Fire Service Rules, 2010 and that the premises is fit for Class-D (Assembly Occupancy), Metro Station with effect from ..19/05/..2017 for a period of three years in accordance with rule 36 unless renewed under rule 37 or sooner cancelled under Rule 40 and subject to compliance of the conditions under rule 38 of the Delhi Fire Service Rules, 2010.

Issued on...19/05/..2017 at New Delhi by.


(Vipin Kental)

Chief Fire Officer

T.No.011-23412225

Copy to:-1. Station In-Charge, Metro Station at Delhi Aerocity, Near Mahipalpur, IGI Air port, New Delhi-110037. c/c
h

2. Kumar Waibhav, AM/Fire, Metro Bhawan, DMRC, New Delhi-110001.

Conditions for the validity of fire safety certificate are under:-

1. All the means of escape shall be kept free of all type of obstruction all the time.
2. All the employees shall be acquainted with the use and maintenance of all fire equipments and method of smooth and speedy safe evacuation of occupants in case of emergency.
3. All the fire fighting equipments shall be maintained in perfect working condition all the time and any lapse rendering non-functional of fire safety measures, management shall be responsible.
4. Any deviation, with regards to construction, ventilation, occupancy, electric installation etc. may be got verified from the concerned authorities.
5. This Fire Safety Certificate may not be treated in any case for regularizations of unauthorized construction unauthorized use of land if any.
6. The owner / occupier shall submit a declaration every year in form 'K' provided in the first schedule of Delhi Fire Service Rule 2010. The form is available on www.dfs.delhigovt.nic.in.
7. The owner/occupier shall apply for renewal of this Fire Safety Certificate on form J, six month prior to its expiry.

INSPECTION REPORT

1	Name & address of the building	M/s Metro Station at Delhi Aerocity, Near Mahipalpur, IGI Air port, New Delhi-110037.
2	Type of Occupancy	Assembly Occupancy (Metro Station)
3	Building comprised of	Metro Station of four levels comprised of undercroft and platform below ground level and concourse at ground floor. First floor services only.
4	Type of case	Renewal
5	Details of previous NOC	No. F6/MS/DFS/2014/DMRC/SZ/445, Dated 03.04.2014
6	Fire safety directives letter No	No.F6/DFS/MS/BP/2009/3889, Dated 23.12.2009.
7	Date of inspection	18.04.2017.
8	Name of the inspecting Officers	ADO Vedpal
9	Name and designation of officers from the building side	Sh. Vikash Bhardwaj, AM/Fire DMRC.
10	Year of construction	2010
11	Applicant's letter No.	DMRC/O&M/Fire/NOC/L-6/2017/16, dated 23.03.2017.


S. NO.	Minimum Standards on fire prevention and fire safety U/R 33	Requirements as per NFPA	Provided at site	Remarks MR / NMR
1	Access to building			
	1) Road width	12m	12m	MR
	2) Gate width	On road	On road	MR
	3) Width of internal road	N/A	N/A	N/A
2	Number, width Type & arrangement of exits			
	a. Number of staircases			
	1. Upper floors	02nos.	02nos.	MR
	2. basements	Total=8nos (UC to PF=2nos, PF to Concourse=8nos	Total=8nos (UC to PF=2nos, PF to Concourse=8nos	MR
	b. Width of staircase			
	1. Upper floors	1.5m(each)	1.5m(each)	MR
	2. basements	C.G 2400mm (min each)	1.5m(each)	MR(old case)
	c. Protection of exits			
	1. Fire check door	Required	Provided	MR
	2. Pressurization	Required	Provided	MR
	d. No. of continuous staircase to terrace	N/A	N/A	N/A
	e. Width of corridor	2.5m	2.5m	MR
	f. Door size	2m	2m(final exit)	MR
3	Compartmentation.			
	1. Fire check door	Required	Provided	MR
	2. Sealing of electrical shafts	Required	Provided	MR
	3. Fire Rating of shaft door	Required	Provided	MR
	4. water curtain	N/A	N/A	N/A
	5. Fire dampers	Required	Provided	MR
4	Smoke Management system.			
	Basement	30 a/c per hour 12 a/c per hour	As per Engg analysis (Subway engronment simulation) & computational fluid dynames	MR
	Upper floors			MR
5	Fire Extinguishers			
	total numbers	120Nos	122 Nos.Provided	MR
	Types	ABC, CO2, WCO2, Foam, DCP	ABC, CO2, Water CO2, Foam, DCP	MR
	ISI marking	ISI	Provided	MR
6	First-Aid Hose Reels.			
	Total numbers on each floor	Concourse=05nos, Platform=08nos & 1stF=01no.	Concourse=05nos, Platform=08nos & 1stF=01no.	MR
	Length of Hose reel hose	30 Mtr	30 Mtr Provided	MR
	Nozzle Diameter	5mm	5 MM Provided	MR

7	Automatic fire detection and alarming system			
	Type of detectors	Smoke	Smoke	MR
	location of Main Panel	Required	Provided at concourse level at ground floor	MR
	location of Repeater panel	N/A	N/A	N/A
	Alternate source of power	Required	Provided	MR
	hooter's location	Required	All Areas	MR
8	MOEFA	N/A	Provided	N/A
9	Public Address System.	Required	Provided	MR
10	Automatic Sprinkler System.			
	basement	Required	Provided in unmanned area only	MR
	upper floors	N/A	N/A	N/A
	sprinkler above false ceiling	N/A	N/A	N/A
11	Internal Hydrants			
	Size of riser/down-corner	150 mm	150mm Provided	MR
	Number of Hydrants per floor	Concourse=05nos, Platform=08nos & 1stF=01no.	Concourse=05nos, Platform=08nos & 1stF=01no.	MR
	hose Box	Concourse=05nos, Platform=08nos & 1stF=01no.	Concourse=05nos, Platform=08nos & 1stF=01no.	MR
12	Yard Hydrants.			
	total number of hydrants	08 Nos	08 Nos. Provided	MR
	house box	08 Nos.	08 Nos. Provided	MR
13	Pumping arrangements			
		As per NFPA		
	1. At First Floor level			
	a. Discharge of main Pump	2800LPM	4500 LPM Provided	MR
	b. Head of main pump	50m	80m	MR
	c. Number of main pumps	02nos.	02nos.(1no for hydrant & 1no standby)	MR
	d. jockey pump out put	180LPM (02nos.)	180LPM(01no)	MR(old case)
	e. jockey pump head	50m	80m	MR
	f. Standby Pump output	2800LPM(Electric)	4500 LPM(Electric)	MR
	g. Stanby Pump head	50m	80m	MR
	h. Auto Starting/Manual stopping	Required	Provided	MR
	pump house access	Required	Provided	MR
	2. Terrace level			
	a. Discharge of pump	N/A	N.A.	N.A.
	b. head of the pump	N/A	N.A.	N.A.
	c. Power supply	N/A	N.A.	N.A.
	d. Auto starting of pump	N/A	N.A.	N.A.
14	Captive water storage for fire fighting			
	1. Underground tank capacity	Nil	Nil	N/A
	a. Draw-off connection	Required	Provided	MR
	b. fire service inlet	Required	Provided	MR
	c. Access to tank	Required	Provided	MR
	d. Over head tank Capacity	200000Liters	200000Liters at 1st Floor	MR(old case)
15	Exit Signage.	Required	Provided	MR
16	Provision of lifts.			
	a. Pressurization of lift shaft	Required	Provided	MR
	b. Pressurization of lift lobby	Required	Provided	MR
	c. Communication in lift car	Required	Provided	MR
	d. Fireman's grounding switch	Required	Provided	MR
	e. Lift signage	Required	Provided	MR
17	Standby power supply	Required	DG Set Provided	MR
18	Refuge Area.			
	total area	N/A	N/A	N/A
	location	N/A	N/A	N/A
19	Fire control room			
	a. Detector system Panel	Required	Provided	MR
	b. Flow switch Panel	Required	Provided	MR
	c. PA system Panel	Required	Provided	MR
	d. Batter backup	Required	Provided	MR
	e. Building floor plans	Required	Provided	MR

N/13

20	Special Fire Protection systems for protection of special risks, if any:
	CO2 & ABC Type Fire Extinguishers and Inert Gas flooding system Provided for Electric Panels=MR

The fire protection systems provided in the building were test checked at random and found functional at the time of inspection. In view of the deemed compliance of the minimum standards on fire prevention and fire safety required under the rules the FSC issued vide letter No.F.6/MS/DFS/2014/DMRC/SZ/445, dated 03.04.2014, renewal under rule 37 of the Delhi Fire Service Rule 2010 is recommended.
Certificates of design, installation and testing for fire fighting system, fire alarm and detection system and smoke extraction system have been received from DMRC and the same have been placed in file.
Accordingly DFA is put up for kind consideration please

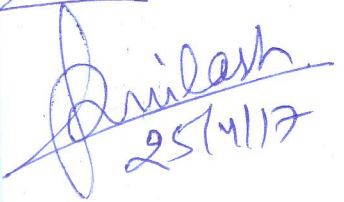

24/4/17

Signature of the inspecting officer

Name Vedpal

Designation : Assistant Divisional Officer (S)

~~S.O. (S.O.)~~


25/4/17