

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

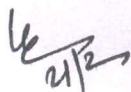
No. F.6/DFS/MS/Assembly/(UG)/SZ/2018/ 276

Dated: 21/02/2018

FIRE SAFETY CERTIFICATE

Certified that the **IGDA Underground Metro Station of Line-8**, comprising of Five levels (Undercroft, Platform, Concourse & Ground Level) was inspected by the officer concerned of this department on 16/02/2018 in the presence of Mr. Rajesh Jain (Dy. CEE) and found that the said Metro Station building 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 occupancy class "**Group D-7 Assembly building**" with effect from ~~16/02/2018~~ 21/02/2018 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.....21/02/2018...at New Delhi by.


(Vipin Kental)
Chief Fire Officer
Tel: 011-23412225

Copy to:-

1. The Sh. A. K. Garg, Executive Director/Electrical, Near Malviya Nagar Metro Station, Press Enclave Road, New Delhi-110017 .
2. Director Projects, Metro Bhawan, Fire Brigade Lane, Barakhamba Road, New Delhi-110001

Conditions for the validity of fire safety certificate:

1. All the means of escape/entry/exit shall be kept free from any obstruction.
2. All the fire safety arrangements provided therein shall be maintained in good working condition at all time as seen during inspection. Any loss of life or property due to non-functional fire safety measures shall be at the responsibility of the management.
3. All the staff members must know the correct method of operation of firefighting system.
4. The owner/ occupier shall submit a declaration **every year** in **Form 'K'** provided in the first schedule of Delhi Fire Service Rules 2010. The form is available on http://delhi.gov.in/wps/wcm/connect/doiit_fire/FIRE/Home/Forms
5. This fire safety certificate may not in any way be treated as regularization (Clause 2.8 of UBBL-2016) of unauthorized construction or Alteration (Clause 1.4.3 of UBBL-2016), if any.
6. "The owner/occupier shall apply for renewal of this Fire Safety Certificate to the Director in **Form 'J'** [sub rule (1) of rule 37] along with a copy of this Certificate, **six months** prior to its expiry."

1. Name of Occupancy : Assembly- Group-“D”
 2. Type of Occupancy : New
 3. Type of Case : NA
 4. Details of Previous NOC : NA
 5. Fire Safety directives letter No : F6/DFS/MS/2013/2314 dated 25/09/2013
 6. Date of inspection : 16/02/2018
 7. Name of Inspecting Officer : A. K. Malik
 8. Name and designation of officer from the building side : Mr. Rajesh Jain (Dy. CEE)
 9. Year of Construction : 2017 [Undercroft + Platform + Concourse + Ground Floor]
 10. Applicant's letter No. : Form 'I' & outdoor diary no. 1722 dated 02/02/2018

S. No.	Minimum Standards on fire prevention and fire safety U/R 33	NFPA Requirement	Provided at site	Remarks MR/NMR
1.	Access to building			
	<ul style="list-style-type: none"> Road width Gate width Width of internal road 	Required NA Approachable	10m 6m Abut on Road	MR NA MR
2.	Number, Width, Type & Arrangement of Exits			
	a. Number of staircases			
	<ul style="list-style-type: none"> Upper Floors 	NA	NA	NA
	<ul style="list-style-type: none"> Basements 	1. Undercroft to Platform- 3 Nos 2. Platform to Concourse-7 Nos + 8 Escalator 3. Concourse to Ground-6 Nos + 3 Escalator	Provided	MR (50% capacity of Escalators is counted for evacuation in NFPA)
	b. Width of staircases			
	<ul style="list-style-type: none"> Upper Floor 	NA	NA	NA
	<ul style="list-style-type: none"> Basements 	2.4m & 1.2m (maintenance staircase)	1. 1.25m x 3 Nos 2. 2.4m x 4 Nos, 2.85m x 1 Nos, 1.25m x 2 Nos + 1m x 2 Nos 3. 2.85m x 4 Nos, 1.5m x 1 Nos, 1.25m x 1 Nos + 1m x 3 Nos	MR
	c. Protection of exits			
	<ul style="list-style-type: none"> Fire check door 	Required	Provided	MR
	<ul style="list-style-type: none"> Pressurization 	Required in Fireman Staircase & Emergency Staircase	Provided.	MR
	d. No. of continuous staircases to terrace	Ancillary Building	Provided (1.25m)	MR
	e. Width of Corridor	0.91m	1m	MR
	f. Door Size	0.91m	1m	MR
3.	Compartmentation			
	<ul style="list-style-type: none"> Fire check door 	Required	Provided	MR
	<ul style="list-style-type: none"> Sealing of electrical shafts 	Required	Provided	MR
	<ul style="list-style-type: none"> Fire Rating of shaft door 	30minute & 3 Hours	Provided	MR

	• Fire Dampers	Required	Provided	MR
4.	Smoke Management System			
	• Basements	Required	Provided	MR
	• Upper floors	NA	NA	NA
5.	Fire Extinguishers			
	• Total numbers	115 No's	119 No's	MR
	• Types	ABC/W.CO2/CO2	38/11/70	MR
	• IS marking	ISI marked	Yes	MR
6.	First-Aid Hose Reels			
	• Total numbers on each floor	2 No. in ancillary building, 12 Nos at Concourse & 9 Nos at each Platform	Provided	MR
	• Length of hose reel hose	36m	Provided	MR
	• Nozzle diameter	6mm	Provided	MR
7.	Automatic fire detection and alarming system			
	• Type of detectors	Smoke & Heat	Provided	MR
	• Location of Main Panel	Station Control Room	Provided	MR
	• Location of Repeater Panel	Required	Fireman Staircase	MR
	• Alternate source of power	Required	Provided	MR
	• Hooters' Location	All Area	Provided	MR
8.	MOEFA	Required	Provided	MR
9.	Public Address System	Required	Provided	MR
10.	Automatic Sprinkler System			
	• Basement	Required in following rooms:- mess, store, security, locker	Provided	MR
	• Ground & Above Floor	NA	NA	NA
	• Sprinkler above false ceiling	NA	NA	NA
11.	Internal Hydrants			
	• Size of riser/down-comer	150mm	Provided	MR
	• Number of hydrants per floor	2 No. in ancillary building, 12 Nos at Concourse & 9 Nos at each Platform	Provided	MR
	• Hose Box	2 No. in ancillary building, 12 Nos at Concourse & 9 Nos at each Platform	Provided	MR
12.	Yard Hydrants			
	• Total number of hydrants	3 Nos	Provided	MR
	• Hose Box	2 Nos at ancillary building & 1 Nos at each tunnel portal	Provided	MR
13.	Pumping Arrangements			
	• Ground Level			
	➤ Discharge of main Pump	2839 LPM	Provided	MR
	➤ Head of Main pump	90m for Hydrant & 56m for Sprinkler	Provided	MR
	➤ Number of main pumps	Two	Provided	MR
	➤ Jockey Pump out put	2 x 189 LPM	Provided	MR
	➤ Jockey pump head	90m for Hydrant & 56m for Sprinkler	Provided	MR
	➤ Standby Pump out put	2 x 2839 LPM(electric)	Provided	MR

	<ul style="list-style-type: none"> ➤ Standby Pump Head ➤ Auto Starting/Manual Stopping ➤ Pump House Access 	90m for Hydrant & 56m for Sprinkler	Provided	MR
		Required	Provided	MR
		Required	Provided	MR
	• Terrace level	NA	NA	NA
	➤ Discharge of pump	NA	NA	NA
	➤ Head of the pump	NA	NA	NA
	➤ Power Supply	NA	NA	NA
	➤ Auto Starting of pump	NA	NA	NA
14.	Captive Water Storage for fire fighting			
	• Underground tank capacity	NA	NA	NA
	➤ Draw-off connection	Required	Provided	MR
	➤ Fire service inlet	Required	Provided	MR
	➤ Access to tank	Required	Provided	MR
	• Overhead Tank capacity	2 x 1,00,000 Lts	Provided	MR
15.	Exit Signage.	Required	Provided	MR
16.	Provision of Lifts.			
	• Pressurization of Lift Shaft	NA	NA	NA
	• Pressurization of Lift lobby	NA	NA	NA
	• Communication In lift Car	Required	Provided	MR
	• Fireman's Grounding Switch	Required	Provided	MR
	• Lift Signage	Required	Provided	MR
17.	Standby power supply	Required	Provided	MR
18.	Refuge Area.			
	➤ Total Area	NA	NA	NA
	➤ Location	NA	NA	NA
19.	Fire Control Room			
	• Detector System Panel	Required in SCR	Provided	MR
	• Flow Switch Panel	Required	Provided	MR
	• PA System Panel	Required	Provided	MR
	• Batter backup	Required	Provided	MR
	• Building Floor Plans	Required	Provided	MR
20.	Special Fire Protection System for Protection of special Risks, if any:	Clean Agent flooding system for Electrical Panels & Transformer	Provided local application with NOVEC 1230	MR

Some of the shortcomings communicated vide letter no. F6/DFS/MS/Assembly/SZ/2018/43 dated 03/01/2018 are duly complied and for other DMRC outdoor diary letter no. 1722 dated 02/02/2018, submitted the relevant provisions of NFPA and same may be accepted by the competent authority. The fire protection systems provided in the building were randomly tested, checked and found functional at the time of inspection.

Keeping in view of the above compliance of the minimum standards of fire prevention and fire safety measures as required under the rule 35 of the Delhi Fire Service Rules 2010, Fire Safety Certificate is recommended.

Accordingly form "H" in shape of DFA is put up for approval and signature.



Dy. CEO (SZ)

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19/2

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19/2/18
Signature of Inspecting Officer
Name: A. K. Malik
Designation: DO (SD)