

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

No. F.6/DFS/MS/Assembly/(UG)/SZ/2017/ 858

Dated: 15/06/17

FIRE SAFETY CERTIFICATE

Certified that the **Kalkaji Mandir Underground Metro Station of Line-8**, comprising of Five levels (Undercroft, Platform, Concourse, Ground, & Elevated Concourse Level) was inspected by the officer concerned of this department on 07/06/2017 in the presence of Mr. Lovleen (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 Assembly building**" with effect from ~~15/06/~~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.....15/06/17.....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 www.dfs.delhigovt.nic.in
5. This fire safety certificate may not in any way be treated as regularization of unauthorized construction, 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."

INSPECTION REPORT

1. Name & address of the building : Kalkaji Mandir Underground Metro Station of Line-8
2. Type of Occupancy : Assembly- Group-“D”
3. Type of Case : New
4. Details of Previous NOC : NA
5. Fire Safety directives letter No : F6/DFS/MS/2013/2316 dated 25/09/2013
6. Date of inspection : 07/06/2017
7. Name of Inspecting Officer : A. K. Malik
8. Name and designation of officer from the building side : Mr. Lovleen (Dy. CEE)
9. Year of Construction : 2017 [Undercroft + Platform + Concourse + Ground + Elevated Concourse]
10. Applicant's letter No. : DMRC/Elect/ED-1/DFS dated 01/05/2017 outdoor diary no. _____ dated 05/06/2017

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	12m 6m 6m	MR NA MR
2.	Number, Width, Type & Arrangement of Exits			
	a. Number of staircases			
	<ul style="list-style-type: none"> • Upper Floors 	Ground to Upper Concourse- 1 Nos + 2 Escalator + One Horizontal Exit	Provided	MR (50% capacity of Escalators is counted for evacuation in NFPA)
	<ul style="list-style-type: none"> • Basements 	1. Undercroft to Platform- 2 Nos 2. Platform to Lower Concourse- 6 Nos + 4 Escalator 3. Lower Concourse to Ground-5 Nos + 4 Escator	Provided	MR (50% capacity of Escalators is counted for evacuation in NFPA)
	b. Width of staircases			
	<ul style="list-style-type: none"> • Upper Floor 	2.8m	2.8m + 2 x 1m + 6.3m	MR
	<ul style="list-style-type: none"> • Basements 	2.8m & 1.2m (maintenance staircase)	1. 1.25m x 2 Nos 2. 3.3m x 2 Nos, 4.3m x 2 Nos & 3.75m x 1 Nos + 1m x 4 Nos 3. 3.3m x 2 Nos, 4.3m x 1 Nos & 3.75m x 2 Nos + 1m x 4 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			
	e. Width of Corridor	NA	NA	NA
	f. Door Size	0.91m	1.2m	MR

		0.91m	1.2m	MR
3.	Compartmentation			
	<ul style="list-style-type: none"> • Fire check door • Sealing of electrical shafts • Fire Rating of shaft door • Water Curtain • Fire Dampers 	Required	Provided	MR
		Required	Provided	MR
		30minute & 3 Hours	Provided	MR
		NA	NA	NA
		Required	Provided	MR
4.	Smoke Management System			
	<ul style="list-style-type: none"> • Basements • Upper floors 	Required	Provided	MR
		Provided	MR	
5.	Fire Extinguishers			
	<ul style="list-style-type: none"> • Total numbers • Types • IS marking 	100 No's	104 No's	MR
		ABC/W.CO2/CO2	38/4/62	MR
		ISI marked	Yes	MR
6.	First-Aid Hose Reels			
	<ul style="list-style-type: none"> • Total numbers on each floor • Length of hose reel hose • Nozzle diameter 	1 No. in ancillary building, 2 Nos at Elevated Concourse, 3 Nos at Ground Floor, 9 Nos at Concourse & 4 Nos at each Platform	Provided	MR
		30m	Provided	MR
		6mm	Provided	MR
7.	Automatic fire detection and alarming system			
	<ul style="list-style-type: none"> • Type of detectors • Location of Main Panel • Location of Repeater Panel • Alternate source of power • Hooters' Location 	Smoke & Heat	Provided	MR
		Station Control Room	Provided	MR
		Required	Fireman Staircase	MR
		Required	Provided	MR
		All Area	Provided	MR
8.	MOEFA	Required	Provided	MR
9.	Public Address System	NA	Provided	NA
10.	Automatic Sprinkler System			
	<ul style="list-style-type: none"> • Basement • Ground & Above Floor • Sprinkler above false ceiling 	NA	NA	NA
		NA	NA	NA
		NA	NA	NA
11.	Internal Hydrants			
	<ul style="list-style-type: none"> • Size of riser/down-comer • Number of hydrants per floor • Hose Box 	150mm	Provided	MR
		1 No. in ancillary building, 2 Nos at Elevated Concourse, 3 Nos at Ground Floor, 9 Nos at Concourse & 4 Nos at each Platform	Provided	MR
		1 No. in ancillary building, 2 Nos at Elevated Concourse, 3 Nos at Ground Floor, 9 Nos at Concourse & 4 Nos at each Platform	Provided	MR
12.	Yard Hydrants			
	<ul style="list-style-type: none"> • Total number of hydrants • Hose Box 	1 Nos	Provided	MR
		1 Nos at ancillary building & 1 Nos at each tunnel portal	Provided	MR
13.	Pumping Arrangements			
	<ul style="list-style-type: none"> • Ground Level 			

	➤ Head of Main pump	88m 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	88m for Hydrant & 56m for Sprinkler	Provided	MR
	➤ Standby Pump out put	2 x 2839 LPM(electric)	Provided	MR
	➤ Standby Pump Head	88m for Hydrant & 56m for Sprinkler	Provided	MR
	➤ Auto Starting/Manual Stopping	Required	Provided	MR
	➤ Pump House Access	Required	Provided	MR
	• Terrace level			
	➤ 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 NOVEC 1230	MR

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

-2/8-

Kalkaji Mandir Underground Metro Station of Line-8
Accordingly DFA is put up for approval and signature.

Signature
9/6/17

Signature of Inspecting Officer
Name: A. K. Malik
Designation: DO (SD)

Dy. CFO (SZ)

Signature
9/6

CFO S/S

M. Seel

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12/6



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