

GOVERNMENT OF NATIONAL CAPITAL TERRITORY OF DELHI
HEADQUARTERS: DELHI FIRE SERVICE: NEW DELHI-110001

No.F.6/DFS/MS/Assembly/UG/2024/SZ/ 402

Dated: 26/06/2024

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) owner/occupied by Delhi Metro Rail Corporation Ltd was issued Fire Safety Certificate by this department vide letter no F6/DFS/MS/Assembly.(UG)/SZ/2021/140 dated 23/02/2021. The premise was re-inspected by the officer concerned of this department on 15/06/2024 in the presence of Mr. Bhirgu Fukan (AM/Fire) 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 "**Group D-7 Assembly Building**" as above with effect from 26/06/2024 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 26/06/2024 at New Delhi by


(ATUL GARG)
DIRECTOR
DELHI FIRE SERVICE

Copy to: -

1. Mr. Malay Saha (CGM/E&M) Delhi Metro Rail Corporation, Metro Bhawan, Fire Brigade Lane, New Delhi-110001.

Conditions for the validity of Fire Safety Certificate: -

1. All the fire safety arrangement provided therein shall be maintained in good working condition at all time as seen during inspection. Any loss of life property due to non-functional fire safety measures shall be at the responsibility of the management.
2. All the staff members must know the correct method of operation of fire fighting system.
3. The basement shall be used strictly as per the provision of Building Bye Laws.
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 (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 (I) of rule 37] along with a copy of this Certificate, six month 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 (D-7)		
3	Building Comprised of	(Undercroft, platform, Concourse, Ground & Elevated Concourse)		
4	Type of Case	Renewal		
5	Details of Previous NOC	F6/DFS/MS/Assembly.(UG)/SZ/2021/140 dated 23/02/2021		
6	Fire Safety Directives Letter No	F.6/DFS/MS/2013/2316 dated 25/09/2013		
7	Date of Inspection	15/06/2024		
8	Name of the Inspecting Officers	DO (South) & ADO (BCP)		
9	Name & Designation of Officers from the building side	Mr. Bhirgu Fukan (AM/Fire)		
10	Year of construction	2017		
11	Applicant letter No.	DMRC/O&M/Fire/NOC/L-8/2024/05/07 Dated 13/05/2024		
S. No.	Minimum standards on Fire Prevention and Fire Safety U/R 33	Old FSC Requirement	Provided at Site	Remarks MR/NMR
1	Access to Building.			
	• Road width	Required	12 mtr	MR
	• Gate width	NA	6 mtr	NA
	• Width of internal road	Approachable	6 mtr	MR
2	Number, width, type & arrangements of exits			
	a. Number of Staircase			
	➤ Upper floors	Ground to upper concourse - 1 Nos + 02 Escalator + 01 Horizontal exit	Provided	MR (50 % capacity of escalators is counted for evacuation in NFPA)
	➤ Basement floor	Undercroft to platform -2 No Platform to Lower C- 6 No's + 04 Escalator Lower C to Ground- 05 No's + 03 Escalator	Provided	MR (50 % capacity of escalators is counted for evacuation in NFPA)
	b. Width of Staircase			
	➤ Upper floors	2.8 m	2.8 m + 2 x 1 m + 6.3 mtr	MR
	➤ Basement floor	2.8 m & 1.2 m (maintenance Staircase)	1.25 m x 2 No's 3.3 m x 2 No's 4.3 m x 2 No's & 3.75 m x 1 No's + 1 m x 4 Nos 3.3 m x 2 no's 4.3 m x 1 No's & 3.75 m x 2 No's + 1 m x 4 Nos	MR
	c. Protection of exits			
	➤ Fire check door	Required	Provided	MR
	➤ Pressurization	Required in Fireman staircase & emergency staircase	Provided	MR
	d. No. of continuous staircase to terrace	N/A	N/A	N/A
	e. Width of corridor	0.91 m	1.2 mtr	MR
	f. Door size	0.91 m	1.2 mtr	MR
3	Compartmentation.			
	• Fire check door.	Required	Provided	MR
	• Sealing of electrical shafts.	Required	Provided	MR
	• Fire rating of shaft door.	30 minute & 3 hours	Provided	MR
	• Water curtain	N/A	N/A	N/A
	• Fire dampers.	Required	Provided	MR
4	Smoke Management system.			
	• Basement	Required	Provided	MR
	• Upper floors	Required	Provided	MR
5	Fire Extinguishers.			
	• Total numbers		104 Nos	MR
	• Types	ISI Marked	ABC, & W.CO ₂ , Co2	MR
	• ISI Marking		Provided	MR

6	First Aid Hose Reels			
	<ul style="list-style-type: none"> Total numbers on each floor. 	01 No in ancillary building, 02 Nos at Elevated Concourse, 03 Nos at GF, 09 Nos at concourse & 04 Nos at each platform	Provided	MR
	<ul style="list-style-type: none"> Length of hose-reel hose. Nozzle Diameter 	Required	Provided	MR
		Required	Provided	MR
7	Automatic fire detection & alarming system.			
	<ul style="list-style-type: none"> Type of detectors Location of Main Panel Location of Repeater Panel Alternate source of power Hooter's location 	Required	Smoke & Heat	MR
		Required	Station Control Room	MR
		Required	Concourse level	MR
		Required	Provided DG Set	MR
		Required	Provided at all levels	MR
8	MOEFA	Required	Provided	MR
9	Public Address System	NA	Provided	NA
10	Automatic Sprinkler System			
	<ul style="list-style-type: none"> Basement Upper floors Sprinkler above false ceiling 	N/A	N/A	N/A
		N/A	N/A	N/A
		N/A	N/A	N/A
11	Internal Hydrants.			
	<ul style="list-style-type: none"> Size of Riser/Down-comer 	Required	150 mm	MR
	<ul style="list-style-type: none"> Number of Hydrant per floor 	01 No in ancillary building, 02 Nos at Elevated Concourse, 03 Nos at GF, 09 Nos at concourse & 04 Nos at each platform	Provided	MR
	<ul style="list-style-type: none"> Hose box. 	01 No in ancillary building, 02 Nos at Elevated Concourse, 03 Nos at GF, 09 Nos at concourse & 04 Nos at each platform	Provided	MR
12	Yard Hydrants.			
	<ul style="list-style-type: none"> Total number of hydrants. Hose box. 	01 No's Required	Provided	MR
		01 No in ancillary building, 01 Nos at each tunnel portal	Provided	MR
13	Pumping arrangements.			
	a) Ground Level			
	➤ Discharge of main pump.	2839 LPM	Provided	MR
	➤ Head of main pump.	88m for hydrant & 56m for sprinkler	Provided	MR
	➤ Number of main pumps.	Two	Provided	MR
	➤ Jockey Pump output.	2 x189 LPM	Provided	MR
	➤ Jockey Pump head.	88m for hydrant & 56m for sprinkler	Provided	MR
	➤ Standby Pump output.	2 x2839 LPM (eclectic)	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
	b) Terrace Level			
	➤ Discharge of pump.	N/A	N/A	N/A
	➤ Head of pump.	N/A	N/A	N/A
	➤ Power supply.	N/A	N/A	N/A
	➤ Auto starting of pump.	N/A	N/A	N/A
14	Captive water storage for Fire Fighting.			
	<ul style="list-style-type: none"> Underground tank capacity. Draw-off connection. Fire Service Inlet. Access to tank. Overhead tank capacity. 	N/A	N/A	N/A
		Required	Provided	MR
		Required	Provided	MR
		Required	Provided	MR
		2,00,000 ltr	Provided	MR

15	Exit Signage.	Required	Provided	MR
16	Provision of Lifts.			
	• Pressurization of lift shaft.	N/A	N/A	N/A
	• Pressurization of lift lobby.	N/A	N/A	N/A
	• Communication in lift car.	Required	Provided	MR
	• Fireman's switch.	Required	Provided	MR
	• Lift signage.	Required	Provided	MR
17	Standby Power Supply	Required	Provided (DG Set)	MR
18	Refuge Area			
	• Total area	N/A	N/A	N/A
	• Location	N/A	N/A	N/A
19	Fire Control Room.			
	• Detector System Panel.	Required in SCR	Provided	MR
	• Flow Switch Panel.	Required	Provided	MR
	• PA system Panel.	Required	Provided	MR
	• Battery backup	Required	Provided	MR
	• Building floor plan	Required	Provided	MR
20	Special Fire Protection System for the Protection of Special Risk, if any :	Clean agent flooding system for electrical panels & Transformer	Provided	MR

The fire protection system provided in the building were randomly checked and found functional at the time of inspection.

Further, the party has complied all the observation / Shortcoming already issued & communicated by this department vide letter of even no 859 dated 03/05/2024.

Keeping in view of the deemed compliance of the minimum standard on fire prevention and fire safety measures as required under the rules, the FSC issued vide letter no F6/DFS/MS/Assembly.(UG)/SZ/2021/140 dated 23/02/2021, renewal under rule 37 of the Delhi Fire Service rules, 2010 is recommended.

Accordingly, DFA is put up for approval and signature please.

Signature of the Inspection Officer
Name: Sh. Manoj Kumar Sharma
Design: DO (South)

Signature of the Inspecting Officer
Name: Sh. Rajesh Kumar
Design: ADO (BCP)

CFO (HO)

[Handwritten signature]
20/06/2024
Director

[Handwritten signature]
20/06/2024
Director

As approved, F-1 letter is put up for your signature pl

[Handwritten signature]
20/06/2024

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