

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

No.F.6/DFS/MS/Assembly/UG/2024/SZ/ 389

Dated: 24/06/2024

FIRE SAFETY CERTIFICATE

Certified that the **Hauz Khas Underground Metro Station of Line -8**, comprising of Eight Level (Undercroft, Platform, Three Intermediate (IM-1, 2 & 3) Level, Concourse, Fan Room & Ground 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/2021/SZ/166 dated 11/03/2021. 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 24/06/2024 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 24/06/2024 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 : Hauz Khas Underground Metro Station of Line-8
 2. Type of Occupancy : Assembly- Group-"D"
 3. Type of Case : Renewal
 4. Comprised of : [Undercroft + Platform + 3 Intermediate (IM-1, 2 & 3) level+ Concourse + Ground Floor]
 5. Details of Previous NOC : F6/DFS/MS/Assembly/UG/2021/SZ/166 dated 11/03/2021
 6. Fire Safety directives letter No : F6/DFS/MS/2013/2318 dated 25/09/2013
 7. Date of inspection : 15/06/2024
 8. Name of Inspecting Officer : DO (South) & ADO (BCP)
 9. Name and designation of officer from the building side : Mr. Bhirgu Fukan (AM/Fire)
 10. Year of Construction : 2018
 11. Applicant's letter No. : DMRC/O&M/Fire/NOC/L-B/2024/05/01 Dated 13/05/2024

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	13m NA 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:2 Nos 2.Platform to IM-3: 08 Nos 3.IM-1 to IM-2: 07 Nos 4.Platform to IM-2 04 Nos + 06 Escalator 5.IM-2 to IM-3: 06 Nos 6. IM-1 to IM-3: 01 Nos 7. IM-2 to Concourse: 4 No + 06 Escalator 8. IM-3 to Concourse :-07 Nos 9. Concourse to Fan rooms: 02 Nos 10. fan room to GF: 01 No 11. Concourse to GF:- 03 Nos + 05 Escalator 12. Concourse of old Station (line-2) to concourse of New Station (Line-8) 01 nos + 02 Escalators (Connecting corridor with level difference)	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 	2.8m & 1.2m (maintenance staircase)	1. Undercroft to platform 1.2m & 1.2m		MR
		2. Platform to IM-1: 1.2m, 1.98m, 2m, 1.97m, 1.98m, 1.2m, 1.2m & 1.2m		
		3. IM-1 to IM-2: 1.2m, 1.98m, 2m, 1.97m, 1.98m, 1.2m, & 1.2m		
		4. Platform to IM-2: 1.44m, 1.45m, 2.25m, & 2.25m + 1m, x 6 Nos		
		5. 4.2m x 2 Nos, 3m x 2 Nos, 1.25m x 2 Nos + 1m x 2 Nos		
		6. IM-1 to IM-3: 1.2m		
		7. IM-2 to Concourse : 2.23m, 2.24m, 1.4m, 1.24m, + 1m x 6 Nos		
		8. IM-3 to Concourse: 1.98m, 2m, 1.97m, 1.98m, 1.2m, 1.2m, & 1.2m		
		9. Concourse to Fan Rooms: 1.2m, 1.2m		
		10. Fan Room to GF: 1.2 m		
11. Concourse to GF:- 1.2m, 2.3m & 1.13m + 1 m x 5 Nos				
12. Concourse of old station (Line -2 to Concourse of New Station (Line-8) 2.36m + 1m x 2 Nos				
c. Protection of exits <ul style="list-style-type: none"> Fire check door Pressurization d. No. of continuous staircases to terrace e. Width of Corridor f. Door Size		Required	Provided.	MR
		Required in Fireman Staircase & Emergency Staircase	Provided.	MR
		Ancillary Building	Provided (1.25m)	MR
		0.91m	1m	MR
		0.91m	1m	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	MR
		Required	Provided	MR
4.	Smoke Management System			
	<ul style="list-style-type: none"> Basements Upper floors 	Required	Provided	MR
		NA	NA	MR
5.	Fire Extinguishers			
	<ul style="list-style-type: none"> Total numbers Types IS marking 	149 No's	Provided	MR
		ABC/W.CO2/CO2	58/1/90	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 	2 No. in ancillary building, 16 Nos at Concourse, 4 Nos at IM-3, 6 Nos at IM-2, 4 Nos at IM-1 & 8 Nos at Platform 30m 6mm	Provided Provided Provided	MR MR MR
Automatic fire detection and alarming system				
7.	<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 Station Control Room Required Required All Area	Provided Provided Fireman Staircase Provided Provided	MR MR MR MR MR
8.	MOEFA	Required	Provided	MR
9.	Public Address System	Required	Provided	MR
10.	Automatic Sprinkler System	Required in following rooms:- mess, store, security, locker	Provided	MR
	<ul style="list-style-type: none"> Basement Ground & Above Floor Sprinkler above false ceiling 	NA NA	NA NA	NA NA
11.	Internal Hydrants	150mm	Provided	MR
	<ul style="list-style-type: none"> Size of riser/down-comer Number of hydrants per floor Hose Box 	2 No. in ancillary building, 16 Nos at Concourse, 4 Nos at IM-3, 6 Nos at IM-2, 4 Nos at IM-1 & 8 Nos at Platform 2 No. in ancillary building, 16 Nos at Concourse, 4 Nos at IM-3, 6 Nos at IM-2, 4 Nos at IM-1 & 8 Nos at Platform	Provided Provided	MR MR
12.	Yard Hydrants	1 Nos	Provided	MR
	<ul style="list-style-type: none"> Total number of hydrants Hose Box 	1 Nos at ancillary building & 1 Nos at each tunnel portal	Provided	MR
13.	Pumping Arrangements			
	<ul style="list-style-type: none"> Ground Level <ul style="list-style-type: none"> Discharge of main Pump Head of Main pump Number of main pumps Jockey Pump out put Jockey pump head Standby Pump out put Standby Pump Head Auto Starting/Manual Stopping Pump House Access Terrace level <ul style="list-style-type: none"> Discharge of pump Head of the pump Power Supply Auto Starting of pump 	2839 LPM 75m for Hydrant & 56m for Sprinkler Two 2 x 189 LPM 75m for Hydrant & 56m for Sprinkler 2 x 2839 LPM(electric) 75m for Hydrant & 56m for Sprinkler Required Required NA NA NA NA	Provided Provided Provided Provided Provided Provided Provided Provided Provided NA NA NA NA	MR MR MR MR MR MR MR MR MR NA NA NA NA
14.	Captive Water Storage for fire fighting			
	<ul style="list-style-type: none"> Underground tank capacity 	NA	NA	NA

	<ul style="list-style-type: none"> ➤ Draw-off connection ➤ Fire service inlet ➤ Access to tank • Overhead Tank capacity 	Required	Provided	MR
		Required	Provided	MR
		Required	Provided	MR
		2,00,000 Lts	Provided	MR
15.	Exit Signage.	Required	Provided	MR
16.	Provision of Lifts.			
	<ul style="list-style-type: none"> • Pressurization of Lift Shaft • Pressurization of Lift lobby • Communication In lift Car • Fireman's Grounding Switch • Lift Signage 	NA	NA	NA
		NA	NA	NA
		Required	Provided	MR
		Required	Provided	MR
		Required	Provided	MR
17.	Standby power supply	Required	Provided	MR
18.	Refuge Area.			
	<ul style="list-style-type: none"> ➤ Total Area ➤ Location 	NA	NA	NA
		NA	NA	NA
19.	Fire Control Room			
	<ul style="list-style-type: none"> • Detector System Panel • Flow Switch Panel • PA System Panel • Batter backup • Building Floor Plans 	Required in SCR	Provided	MR
		Required	Provided	MR
		Required	Provided	MR
		Required	Provided	MR
		Required	Provided	MR
20.	Special Fire Protection System for Protection of special Risks, 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 786 dated 25/04/2024.

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/2021/SZ/166 dated 11/03/2021, 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 (HQ)

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20/6/2024
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20/6/24

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20/6/24

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As approved, F-7 letter
is put up for your signature
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20/6