

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

No. F.6/DFS/MS/Assembly/(UG)/SZ/2018/1468

Dated: 22/06/18

FIRE SAFETY CERTIFICATE

Certified that the **Bhikaji Cama Place Underground Metro Station of Line-7**, comprising of Four levels (Undercroft, Platform, Concourse & Ground Level) was inspected by the officer concerned of this department on 7/06/2018 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 22/06/18-2018 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..... 22/06/18at 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/doi_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."

INSPECTION REPORT

1. Name & address of the building : Bhikaji Cama Place Underground Metro Station of Line-7
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/Metro/2388 dated 09/10/2013
6. Date of inspection : 07/06/2018
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 : 2018 [Undercroft + Platform + Concourse + Ground Floor]
10. Applicant's letter No. : Form 'I' & outdoor diary no. 8005 dated 28/05/2018

S. No.	Minimum Standards on fire prevention and fire safety U/R 33	NFPA Requirement	Provided at site	Remarks
1.	Access to building			MR/NMR
	<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- 2 Nos 2. Platform to Concourse-5 Nos + 2 Escalator 3. Concourse to Ground-3 Nos + 2 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 	1.12m & 0.91m (maintenance staircase)	1. 1.37m & 1.37m 2. 3.64m, 3.58m, 1.25m, 1.25m & 1m + 1m x 2 Nos 3. 3.92m, 4.26 & 1.1m + 1m x 2 Nos	MR (Based on evacuation calculation submitted by DMRC as per NFPA)
	c. Protection of exits			
	<ul style="list-style-type: none"> • Fire check door • Pressurization 	Required	Provided	MR
	d. No. of continuous staircases to terrace	Required in Fireman Staircase & Emergency Staircase	Provided.	MR
	e. Width of Corridor	-NA-	-NA-	-NA-
	f. Door Size	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-	-NA-
4.	Smoke Management System	Required	Provided	MR

		-NA-	-NA-	-NA-
5.	Fire Extinguishers			
	<ul style="list-style-type: none"> Total numbers Types IS marking 	103 No's ABC/W.CO2/CO2 ISI marked	103 No's 29/06/68 Yes	MR MR MR
6.	First-Aid Hose Reels			
	<ul style="list-style-type: none"> Total numbers on each floor Length of hose reel hose Nozzle diameter 	3 No. in ancillary building, 13 Nos at Concourse & 6 Nos at each Platform 36m 6mm	Provided Provided Provided	MR MR 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 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	Provided	MR
	<ul style="list-style-type: none"> Basement Ground & Above Floor Sprinkler above false ceiling 	Required in following rooms:- mess, store, security, locker -NA- -NA-	Provided -NA- -NA-	MR -NA- -NA-
11.	Internal Hydrants			
	<ul style="list-style-type: none"> Size of riser/down-comer Number of hydrants per floor Hose Box 	150mm 3 No. in ancillary building, 13 Nos at Concourse & 6 Nos at each Platform 3 No. in ancillary building, 13 Nos at Concourse & 6 Nos at each Platform	Provided Provided Provided	MR MR MR
12.	Yard Hydrants			
	<ul style="list-style-type: none"> Total number of hydrants Hose Box 	1 Nos 1 Nos at ancillary building & 1 Nos at each tunnel portal	Provided Provided	MR 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 	2839 LPM 88m for Hydrant & 75m for Sprinkler Two 2 x 189 LPM 88m for Hydrant & 75m for Sprinkler 2 x 2839 LPM(electric) 88m for Hydrant & 75m for Sprinkler Required Required	Provided Provided Provided Provided Provided Provided Provided Provided	MR MR MR MR MR MR MR MR

	<ul style="list-style-type: none"> ➤ Discharge of pump ➤ Head of the pump ➤ Power Supply ➤ Auto Starting of pump 	-NA-	-NA-	-NA-
		-NA-	-NA-	-NA-
		-NA-	-NA-	-NA-
		-NA-	-NA-	-NA-
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 	-NA-	-NA-	-NA-
		Required	Provided	MR
		Required	Provided	MR
		Required	Provided	MR
		2 x 1,00,000 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 local application with 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 2010, Fire Safety Certificate is recommended under rule 35(3).

Accordingly form "H" in shape of DFA is put up for approval under rule 35(4).



Dy. CFO (SZ)

[Handwritten Signature]
7/6

cfo SZ

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

[Handwritten Signature]
7/6/18

There were some points for clarifications as per letter dt. 23.6.17 written by FPO