

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

No. F6/DFS/MS/DMRC/NDZ/2023/ 59

Dated: 06/02/2023

FIRE SAFETY CERTIFICATE

Certified that the **Lal Quila Underground Metro Station (Line-6)** located at **Lal Quila, Delhi** comprised of **Ground floor with two Basements/Platform/Concourse & Ancillary building**. The metro station was granted FSC by this department vide letter No.F6/DFS/MS/NDZ/2020/106 dated 13.02.2020. The premise was re-inspected by the officer concerned of this department on 31.01.2023 in the presence of Mr. Bhirgu Furkan (AM/Fire) of DMRC and found that the building has deemed complied with the prevention and fire safety requirements in accordance with Rule 33 of Delhi Fire Service Rules, 2010. Accordingly, the premises is fit for occupancy of class "**Assembly Building (D-7)**", with effect from 06/02/2023 for 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 Delhi Fire Service Rules 2010, printed below.

Issued on 06/02/2023 at New Delhi by.


02/02/23

(S. K. Dua)

Dy. Chief Fire Officer

Delhi Fire Service

Tel: 011-23414262

o/c
01/02

Copy to:-

1. Mr. Vivek Shrivastava, JGM/E&M, DMRC Ltd., Metro Bhawan, Fire Brigade Lane, Barakhamba Road, New Delhi-01.

Conditions for the validity of Fire Safety Certificate:-

1. All the fire safety arrangements provided therein shall be maintained in good working condition at all times.
2. Any loss of life or property due to non functional fire safety measures shall be at the responsibility of the management.
3. The trained fire fighting staff should be available round the clock.
4. Any deviation w.r.t. construction etc. shall be verified by the concerned building sanctioning authority.
5. This fire safety certificate may not be treated in any case for regularization of unauthorized construction, if any.
6. 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.
7. The means of escape shall be kept unobstructed / unlocked for unhindered evacuation in case of an emergency.
8. 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. Any change in the occupancy shall be intimated to this Deptt. and approval shall be obtained thereto before occupancy of the same.

- 2/9 -
INSPECTION REPORT

1	Name & address of the building	Lal Quila Underground Metro Station (Line-6), Delhi.
2	Type of occupancy with details of floors:	Assembly Building (D-7 as per NBC Part IV 2005)
3	Type of case	Renewal
4	Details of Previous FSC	16/DI S/MS/NDZ/2020/106 dated 13.02.2020
5	Fire Safety direction letter no.	DMRC/12/D.Y.CA/I-601/I Q/002 dated 26.11.2015
6	Date of inspection	31.01.2023
7	Name of the inspecting officers	Sh. Sumit Kumar ADO(SPM)
8	Name of the designation of officer from the building side	Mr. Bhirgu Fukan (AM/Fire)
9	Year of construction	2016-17
10	Applicant's letter no.	DMRC/O&M/Fire/NOC/I-6/2023/01/02 dated 05.01.2023

S.No	Minimum Standards on fire Prevention and fire safety requirements U/R 33	Requirements as per NFPA	Provided at Site	Remarks MR/NM/R
1	Access to building			
	A Road width	12 mtrs.	30 mtrs.	MR
	B Gate width	On road	On road	MR
	C Width of internal road	N/A	N/A	N/A
2	Number, Width, Type and Arrangement of Exits			
	A Number of staircases	N/A	N/A	N/A
	a Upper floor	04 nos.	Con. To Gr. 04	MR
	b Basement	Gr to Concourse, Concourse to platform, undercroft to platform	Plat. To Con 04 1 to platform - 02	
	B Width of staircases	N/A	N/A	N/A
	a Upper floor			
	b Basement	C.G. 2400 mm (min. each)	C.G. 2400 mm (min. each) P.C. 2400 mm (min. each)	MR
	C Protection of exits			
	a Fire check door	Required	Provided	MR
	b Pressurization	Required	Provided	MR
	D No. of continuous staircases to terrace	N/A	N/A	N/A
	E Width of corridor	2.5 m	2.5 m	MR
	F Door size	2.0 m	2.0 m	MR
3	Compartmentation			
	A Fire check door	Required	2 hrs. & 4 hrs.	MR
	B Sealing of electrical shafts	Required	Provided	MR
	C Fire rating of shaft door	Required	2 hrs	MR
	D Water curtain	N/A	N/A	N/A
	E Fire dampers	Required	Provided	MR
4	Smoke Management System.			
	A Basement	30 ACPH	As per Engg. Analysis	MR
	B Upper floor	12 ACPH	(Subway encroachment simulation) & computational fluid dynamics	MR




5.	Fire Extinguisher				
	A	Total numbers	83 nos.	54 + 23 + 04 + 02 = 83	MR
	B	Types	CO ₂ & ABC & water gas	45 kg Co ₂ + 6 kg ABC + 9 l water + 22.5 kg Co ₂	MR
	C	ISI marking	Required	Provided	MR
6	First-Aid-Hose Reels.				
	A	Total numbers of each floor	24 nos. (08 nos. on each floor)	08 no. on concourse 08 no. on platform 08 no. on undercroft	MR
	B	Length of hose reel hose	30 mtrs.	8x3 = 24 30 mtr.	MR
	C	Nozzle diameter	05 mm	05 mm	MR
7	Automatic Fire Detection And Alarming System.				
	A	Type of detectors (smoke type)	Required	Provided	MR
	B	Location of main panel	Concourse	Provided at Station (C.R) Concourse	MR
	C	Location of repeater panel	Required	FM staircase List (I.end)	MR
	D	Alternate source of power	Required	UPS Supply	MR
	E	Hooter's Location	Required	Concourse, platform, undercroft & Ancillary building	MR
8	MOEFA		N/A	Provided	N/A
9	Public Address System		Required	Provided	MR
10	Automatic Sprinkler System				
	A	Basement (under track Mov Nozzle)	Required	Provided	MR
	B	Upper floor	N/A	N/A	N/A
	C	Sprinkler above false ceiling	N/A	N/A	N/A
11	Internal Hydrants				
	A	size of riser/down-comer	150 mm	150 mm	MR
	B	Number of hydrants per floor	Required	06 + 11 + 1 = 18	MR
	C	Hose box	Required	06 + 11 + 1 = 18	MR
12	Yard Hydrants.				
	A	Total number of hydrants	01 nos	01 nos.	MR
	B	Hose box	01 nos.	01 nos.	MR
13	Pumping Arrangements.				
	A	Ground Level			
	a	Discharge of main Pump	2839 lpm	HYD 2839 lpm SPK 2839 lpm	MR
	b	Head of Main Pump	50 m	HYD 90 m, SPK 56 m	MR
	c	Number of main pumps	2 no.	HYD 01 nos. + standby 01 nos.	MR
	d	Jockey pump out put	2 no. 180 lpm each	HYD 189 lpm SPK 189 lpm	MR
	e	Jockey pump head	80 m	HYD 90 m SPK 56 m	MR
	f	Standby pump out put	2839 lpm each	HYD 2839 lpm SPK 2839 lpm	MR
	g	Standby pump Head	Required	HYD 90 m SPK 56 m	MR
	h	Auto Starting /Manual stopping	Required	Jockey auto start/stop main standby manual off	MR
	B	Terrace Level			
	a	Discharge of pump	N/A	N/A	N/A
	b	Head of the Pump	N/A	N/A	N/A
	c	Power supply	N/A	N/A	N/A
	d	Auto starting of pump	N/A	N/A	N/A

14	Captive Water Storage for Fire Fighting.			
	A Under pressure tank capacity	2,00,000 ltr As per clause 28 J 9.1.9	02 overhead tank 1,00,000 ltr. each	MR
	B Draw off connection	Required	Provided	MR
	C Fire service inlet	Required	Provided	MR
	D Access to tank	N/A	N/A	N/A
15	Exit Signage.	Required	Provided	MR
16	Provision of Lifts.			
	A Pressurization of lift shaft	N/A	N/A	N/A
	B Pressurization of lift lobby	N/A	N/A	N/A
	C Communication in lift car	Required	Provided	MR
	D Firemen's grounding switch	Required	Provided	MR
	E Lift signage	Required	Provided	MR
17	Standby Power Supply	Required	Provided	MR
18	Refuge Area.			
	A Total area	N/A	N/A	N/A
	B Location	N/A	N/A	N/A
19	Fire Control Room			
	A Detector system panel	Required	Provided	MR
	B Flow switch panel	Required	Provided	MR
	C PA system panel	Required	Provided	MR
	D Battery backup	Required	Provided	MR
	E Building floor plans	Required	Provided	MR
20	Special Fire Protection Systems For Protection Of Special Risks, If Any:	Agent (Novec) flooding system for transformer & L.T. panel	Provided	MR

The fire protection systems provided in the building were tested, checked at random and found functional at the time of inspection.

Keeping view of the deemed compliance of minimum standards of fire prevention and fire safety measures as required under the Rules, the FSC issued vide letter no. F-6/DFS/MS/NDZ/2020/106 dated 13.02.2020 is recommended to be renewed under Rule 35 of the Delhi Fire Service Rules 2010.

Sumit Kumar
31/01/2023

Signature of the Inspecting Officer
Name Sumit Kumar
Designation ADO (SPM)

DO (CD)

[Signature]
01/02/23

[Signature]
Dy. CFO (NDZ)

[Signature]
ADO (SPM)

F.T. please

[Signature]
01/02/23

F.T. letter is put up for signature, please.

[Signature]
Dy. CFO. (NDZ)

[Signature]
03/02/23

[Signature]
F.P. wing

[Signature]
04/02/2023