

**GOVERNMENT OF NATIONAL CAPITAL TERRITORY OF DELHI
HEAD QUARTERS : DELHI FIRE SERVICE : NEW DELHI - 110001**

No. F6/DFS/MS/2017/~~NDZ~~/592

Dated:- 25/04/17

FIRE SAFETY CERTIFICATE

Certified that the **Mandi House Underground Metro Station, New Delhi** was granted FSC by this department vide letter **F6/DFS/MS/2014/NDZ/351** dated **12/03/2014**. The premises was re-inspected by the officer concerned of this department on 22-03-2017 in the presence of Sh. Vikas Bhardwaj (AM/Fire) and found that the said Metro Station 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 **Assembly Building** with effect from ~~25/04/17~~ 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 25/04/17 at New Delhi by.


(Vipin Kental)
Chief Fire Officer
Delhi Fire Service

Copy to:-

1. Mr. Kumar Waibhav,
AM/Fire,
Metro Bhawan, Fire Brigade Lane, Barakhamba Road, New Delhi.



Condition for the validity of fire safety certificate

1. All the fire safety arrangements provided therein shall be maintained in good working conditions 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".

INSPECTION REPORT

1. Name & address of the building : Mandi House Underground Metro Station, New Delhi .
2. Type of Occupancy : Assembly building (D7as Per NBC Part IV 2005)
3. Type of Case : Renewal
4. Details of previous FSC : F6/DFS/MS/2014/NDZ/351 dated 12/03/2014
5. Fire Safety directives Letter No. : F6/DFS/MS/BP/2013/2602 Dated 28/11/2013
6. Date of inspection : 22/03/2017
7. Name of the Inspecting Officer : Sh. G. S. Chauhan DO/CD &
Sh. M/K Sharma ADO/CC
8. Name and designation of Officer
from the building side : Sh. Vikas Bhardwaj (AM/Fire)
9. Year of Construction : 2013-14
10. Applicant's letter No. : DMRC/O&M/Fire/NOC/L-6/2017/09 dated 15/02/17

S.No.	Minimum Standards on fire Prevention and fire safety U/R 33	Requirement as per NFPA	Provided at site	Remarks MR/NMR
1.	Access to Building			
	1) Road width	13.5 mtr.	13.5 mtr.	MR
	2) Gate width	N/A	N/A	N/A
	3) Width of internal road	N/A	N/A	N/A
2.	Number, Width Type & Arrangement of Exits			
	A. Number of staircases			
	1. Upper floors	N/A	N/A	N/A
	2. Basements	04 Nos. Gr. to Con. 06 Nos. Con. to P/F 02 Nos. P/F to U/croft	04 Nos. Gr. to Con. 06 Nos. Con. to P/F 02 Nos. P/F to U/croft	MR
	B. Width of staircase			
	1. Upper floors	N/A	N/A	N/A
	2. Basements	Gr. to Con. 4 s/c 2 x 2400 mm & 2 x 2650 mm, Con. to P/F 2 s/c – 3150 mm, 2 s/c – 2400 mm & 2 s/c 1950 mm, P/F to U/croft. 2 s/c – 1200 mm (Service)	Gr. to Con. 4 s/c 2 x 2400 mm & 2 x 2650 mm, Con. to P/F 2 s/c – 3150 mm, 2 s/c – 2400 mm & 2 s/c 1950 mm, P/F to U/croft. 2 s/c – 1200 mm (Service)	MR
	C. Protection of exits			
	1. Fire check door	Required	Provided in Fire man & Emg. s/c	MR
	2. Pressurization	N/A	N/A	N/A
	D. No. of continuous staircase to terrace	04	04	MR
	E. Width of corridor	N/A	N/A	N/A
	F. Door size	N/A	N/A	N/A
3.	Compartmentation			
	1) Fire check door	Required	2 hr. & 4hr. Provided	MR
	2) Sealing of electrical shafts	Required	Provided	MR

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	3) Fire rating of shaft door	Required	02 hrs. Provided	MR
	4) Fire curtain	N/A	N/A	N/A
	5) Fire Dampers	Required	Provided	MR
4.	Smoke Management System			
	1) Basements	30 ACPH	Provided in ECS	MR
	2) Upper floors	N/A	N/A	N/A
5.	Fire Extinguishers			
	1) Total numbers	70 Nos.	60+21+04=85	MR
	2) Types	CO2 & Water gas	6KG ABC+9L water+4.5 KG Co ₂	MR
	3) ISI marking	Required	Provided	MR
6.	First-Aid Hose Reel			
	1) Total number of each floor	13 on each floor	06 Nos. on concourse, 06 Nos. on platform 01 Nos. on Ancillary	MR
	2) Length of hose reel hose	30 mtr.	30.5 mtr.	MR
	3) Nozzle diameter	06 mm	06 mm	MR
7.	Automatic Fire Detection & Alarming System			
	1) Type of detectors	Smoke	Addressable multi sensor type and heat sensor	MR
	2) Location of main panel	Concourse	Station (C.R) Concourse	MR
	3) Location of repeater panel	Required	Provided	MR
	4) Alternate source of power	Required	Provided	MR
	5) Hooter's Location	Required	Floor wise	MR
8.	MOEFA	Required	Provided	N/A
9.	Public Address System	Required	Provided	MR
10.	Automatic Sprinkler System			
	1) Basement	Required	Provided	MR
	2) Upper floors	N/A	N/A	N/A
	3) Sprinkler above false ceiling	N/A	N/A	N/A
11.	Internal Hydrants			
	1) Size of riser/down-comer	150 mm.	150 mm	MR
	2) Number of hydrants per floor	13	06+1+06 = 13	MR
	3) Hose box per floor	13	06+1+06 = 13	MR
12.	Yard Hydrants			
	1) Total number of hydrants	01 no	01 no	MR
	2) Hose box	01 no	01 no	MR
13.	Pumping Arrangement			
	1) Ground level			
	a) Discharge of main pump	2 x 2850LPM	2 x 2850LPM	MR
	b) Head of main pump	90 mtr	90 mtr	MR
	c) Number of main pump	2 No.	2 No.	MR
	d) Jockey pump out put	2 x 180LPM	2 x 180LPM	MR
	e) Jockey pump head	90 m	90 m	MR
	f) Stand by pump output	2 x 2850LPM	2 x 2850LPM	MR
	g) Stand by pump head	Required	Provided	MR
	h) Auto starting/Manual stopping	Required	Provided	MR
	2) Terrace level			
	a) Discharge of pump	N/A	N/A	N/A
	b) Head of pump	N/A	N/A	N/A

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	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			
	1) Under ground tank capacity	N/A	N/A	N/A
	a) Draw-off connection	Required	Provided	MR
	b) Fire service inlet	Required	Provided	MR
	c) Access to tank	N/A	N/A	N/A
	d) Over head tank capacity	2,00,000 ltr.	2 x 1,00,000 ltr.	MR
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) Fireman's switch	Required	Provided	MR
	e) Lift signage	Required	Provided	MR
17.	Stand by Power Supply	Required	Provided	MR
18.	Refuge Area	N/A	N/A	N/A
	Total area 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 plan	Required	Provided	MR
20.	Special Fire Protection System for Protection of special Risk, if any: Clean. Agent flooding system for transformer & LT penal.			MR

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

In view of the deemed compliance of the minimum standards of fire prevention and fire safety measures as required under the rules the FSC issued vide letter no. F6/DFS/MS/2014/NDZ/351 dated 12/03/2014 renewal under rule 35 of the Delhi Fire Service rules 2010, is recommended.

Signature of the Inspecting Officer

Name :- Sh. G.S. Chauhan
Designation :- DO (CD)

Signature of the Inspecting Officer

Name :- M.K. Sharma
Designation :- ADO (CC)

278/CR/12
12/4/12/24/4.
Dy CRO (NDZ)

[Signature]
12/4

G.F.C.

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FT/10.

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F.T. letter is put up for sign. M