

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



No. F.6/DFS/MS/Assembly/ (UG)/SZ/2018/ 386

Dated: 9/3/18

**FIRE SAFETY CERTIFICATE**

Certified that the **Palam Underground Metro Station of Line-8**, comprising of four levels (Undercroft, Platform, Concourse & Ancillary Building at Ground Level) owned / occupied by Delhi Metro Rail Corporation was inspected by the officer concerned of this department on 28.02/2018 in the presence of Sh. Rajesh Jain, DGM (V & AE), Sh. Rajiv Saxena, DGM (E&M) & Sh. Balwant, DGM (Civil) and found that the said Metro Station building have 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 (Assembly building)**" with effect from 9/3/18 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.....9.3.18.....at New Delhi by.

  
O/C Chief Fire Officer  


Copy to:-

1. Sh. A.K. Singh, Executive Director/elect.-II, DMRC, Metro Bhawan, Fire Brigade Lane, Barakhamba Road, New Delhi-110001
2. The Director (Projects), DMRC, 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 [www.dfs.delhigovt.nic.in](http://www.dfs.delhigovt.nic.in)
5. This fire safety certificate may not in any way be treated as regularization of unauthorized construction, 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."

2	Type of Occupancy	Assembly, Group-D		
3	Type of case	New		
4	Details of previous NOC	N/A		
5	Fire safety directives letter No	NBC/ NFPA F6/DFS/MS/2013/2335 dated 27.9.2013		
6	Date of inspection	28.2.2018		
7	Name of the inspecting Officers :	M K Chattopadhyay DO (S/W) & Satpal Bhardwaj ADO (Dwarka)		
8	Name and designation of officers from the building side	Sh. Rajesh Jain DGM (V&AE) Rajiv Saxena DGM(E & M) & Balwant Singh DGM (Civil)		
9	Year of construction	2017		
10	Applicant's letter No.	DMRC/ED/EL-11/2J/Corrs. DFS dated 1.2.2018		
<b>Under croft, Platform, Concourse ground &amp; Ancillary building.</b>				
<b>S. NO.</b>	<b>Minimum Standards on fire prevention and fire safety U/R 33</b>	<b>NBC/NFPA Requirements</b>	<b>Provided at site</b>	<b>Remarks MR / NMR</b>
<b>1</b>	<b>Access to building</b>			
	1) Road width	Required	12 Mtrs.	MR
	2) Gate width	N/A	6 Mtrs.	N/A
	3) Width of internal road	N/A	6 Mtrs.	N/A
<b>2</b>	<b>Number, width Type &amp; arrangement of exits</b>			
	<b>a. Number of staircases</b>			
	1. Upper floors	N/A	N/A	N/A
	2. basements	2 Nos. Undercroft to Platform, 7 Nos. Platform to Concourse, 4 Nos. Concourse to ground.	Provided	MR
	<b>b. Width of staircase</b>			
	1. Upper floors	N/A	N/A	N/A
	2. basements	2 Nos. 1.25 M, Undercroft to Platform, 2 Nos. 4.2 M 2 Nos. 3 M, 3 Nos. 1.2 M, Platform to Concourse, 3 Nos. 3.1M, 1 No. 1.25 M Concourse to ground.	Provided	MR
	<b>c. Protection of exits</b>			
	1. Fire check door	Required	Provided	MR
	2. Pressurization	Required	Provided	MR
	<b>d. No. of continuous staircase to terrace</b>			
	e. Width of corridor	N/A	N/A	N/A
	f. Door size	1.4 Mtr.	Provided	MR
<b>3</b>	<b>Compartmentation.</b>			
	1. Fire check door	Required	Provided	MR
	2. Sealing of electrical shafts	Required	Provided	MR
	3. Fire Rating of shaft door	2 Hrs.	Provided	MR
	4. water curtain	N/A	N/A	N/A
	5. Fire dampers	Required	Provided	MR
<b>4</b>	<b>Smoke Management system.</b>			
	basement	Required in platform, Concourse & Tunnels	Provided	MR
	upper floors	N/A	N/A	N/A
<b>5</b>	<b>Fire Extinguishers</b>			
	total numbers	100 Nos.	Provided	MR
	Types	WCO2, CO2, ABC	WCO2, CO2, ABC	MR

6	total numbers on each floor	10 Nos. Concourse Level, 10 Nos. Platform Level 1 No. in Ancillary Building	Provided	MR
	Length of Hose reel hose	30 M	Provided	MR
	Nozzle Diameter	5 mm	Provided	MR
<b>7</b>	<b>Automatic fire detection and alarming system</b>			
	Type of detectors	Smoke / Heat	Provided	MR
	location of Main Panel	Station Control Room	Provided	MR
	location of Repeater panel	Required	Provided	MR
	Alternate source of power	Required	Provided	MR
	hooter's location	All areas	Provided	MR
<b>8</b>	<b>MOEFA</b>	Required	Provided	MR
<b>9</b>	<b>Public Address System.</b>	Required	Provided	MR
<b>10</b>	<b>Automatic Sprinkler System.</b>			
	basement	Required at platform	Provided	MR
	upper floors	N/A	N/A	N/A
	sprinkler above false ceiling	N/A	N/A	N/A
<b>11</b>	<b>Internal Hydrants</b>			
	Size of riser/down-corner	150 mm	Provided	MR
	Number of Hydrants per floor	10 Nos. Concourse Level, 10 Nos. Platform 1 No. in Ancillary Building	Provided	MR
	hose Box	10 Nos. Concourse Level, 10 Nos. Platform 1 No. in Ancillary Building	Provided	MR
<b>12</b>	<b>Yard Hydrants.</b>			
	total number of hydrants	Required	Provided	MR
	hose box	Required	Provided	MR
<b>13</b>	<b>Pumping arrangements</b>			
	<b>1. Ground level</b>			
	a. Discharge of main Pump	Hyd-2850 LPM, Spk-2850 LPM	Provided	MR
	b. Head of main pump	90 M	Provided	MR
	c. Number of main pumps	2 Nos.	Provided	MR
	d. jockey pump out put	Hyd. 180 LPM Spk. 180 LPM	Provided	MR
	e. jockey pump head	Hyd-56 M, Spk-56 M	Provided	MR
	f. Standby Pump output	2 X 2850 LPM	Provided	MR
	g. Stanby Pump head	70 M	Provided	MR
	h. Auto Starting/Manual stopping	Required	Provided	MR
	pump house access	Required	Provided	MR
	<b>2. Terrace level</b>			
	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
<b>14</b>	<b>Captive water storage for fire fighting</b>			
	1. Underground tank capacity	200000 Ltrs	Provided	MR
	a. Draw-off connection	Required	Provided	MR
	b. fire service inlet	Required	Provided	MR
	c. Access to tank	Required	Provided	MR
	Over head tank Capacity	20000 Ltrs.	20000 Ltrs.	MR
<b>15</b>	<b>Exit Signage.</b>	Required	Provided	MR
<b>16</b>	<b>Provision of lifts.</b>			
	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

18	Refuge Area.			
	total area	N/A	N/A	N/A
	location	N/A	N/A	N/A
19	<b>Fire control room</b>			
	a. Detector system Panel	Required in SCR	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	<b>Special Fire Protection System for Protection of special Risks, if any:</b> Required clean agent flooding system for electrical Panels & Transformer		provided NOVEC 1230	MR

The fire protection systems provided in the building were randomly tested, checked & found functional at the time of inspection. *Shortcomings vide letter No. DFS/MS/2018/SZ/1137 dated 11.1.2018 found rectified by*  
 Keeping in view of the above compliance compliance of the minimum standards for fire prevention and fire safety measures as requirements under the rule 35 of the Delhi Fire Service Rules 2010, Fire safety Certificate is recommended.

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

*[Signature]*  
 M K Chattopadhyay  
 I DO (South West)

*[Signature]*  
 S.P. Bhardwaj  
 ADO (Dwarka)

*116/DOGEO*  
*05/03/2018*

*DCFO (S2)*

*[Signature]*  
 6/3

*1668/CFOSL*  
*212/9/2/18*

*CFOSL*  
*DFS/MS/11/37*

The shortcomings communicated earlier have been complied & should be mentioned in note as I stopped FTM.

*[Signature]*  
 7/3



FT is put up for signature please.

*CFOSL*  
*[Signature]*  
*9/3/18*  
*[Signature]*

*[Signature]*  
 8/3/18