

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

No. F.6/DFS/MS/Assembly/(UG)/SZ/2018/ 1355

Dated: 11 16 115

## FIRE SAFETY CERTIFICATE

Certified that the Sarojini Nagar 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 01/06/2018 in the presence of Mr. Rajesh Jain (Dy. CEE) 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-7 Assembly building" with effect from -41--4-6/2018 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 11 16 12018 at 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 <a href="http://delhi.gov.in/wps/wcm/connect/doit\_fire/FIRE/Home/Forms">http://delhi.gov.in/wps/wcm/connect/doit\_fire/FIRE/Home/Forms</a>
- 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."

2. Type of Occupancy : New 3. Type of Case 4. Details of Previous NOC : NA : F6/DFS/MS/2013/1599 dated 14/06/2013 5. Fire Safety directives letter No : 01/06/2018 6. Date of inspection : A. K. Malik 7. Name of Inspecting Officer 8. Name and designation of officer : Mr. Rajesh Jain (Dy. CEE) [Undercroft + Platform + Concourse + Ground Floor] from the building side : 2018 9. Year of Construction : Form 'I' & outdoor diary no. 7568 dated 17/05/2018 Applicant's letter No. 10. Remarks Provided at site NFPA Minimum Standards on fire prevention MR/NMR S. No. Requirement and fire safety U/R 33 Access to building MR 1. 10m Required Road width NA 6m NA Gate width MR Abut on Road Approachable Width of internal road Number, Width, Type & Arrangement of Exits 2. a. Number of staircases -NA--NA--NA-• Upper Floors MR 1. Undercroft to (50% Platform-2 Nos capacity of 2. Platform Escalators is Concourse-5 Nos Provided counted for Basements + 2 Escalator evacuation in 3. Concourse to Ground-3 Nos + 2 NFPA) Escalator b. Width of staircases -NA--NA--NA-Upper Floor MR 1. 1.18m & 1m (Based on 2. 3.69m, 3.72m, evacuation 1.28m, 1.28m & 1.12m & 0.91m calculation  $1m + 1m \times 2$ (maintenance submitted by staircase) Nos DMRC as per Basements 3. 4.15m, 4.15 & NFPA)  $1.18m + 1m \times 2$ Nos c. Protection of exits MR Provided Required Fire check door Required in MR Provided. Fireman Staircase Pressurization & Emergency Staircase -NA--NA--NAd. No. of continuous staircases to terrace MR 1m0.91 me. Width of Corridor MR lm 0.91m f. Door Size Compartmentation MR 3. Provided Required Fire check door MR Provided Required Sealing of electrical shafts MR Provided 30minute & 3 Hours Fire Rating of shaft door -NA--NA--NA-Water Curtain MR Provided Required Fire Dampers Smoke Management System 4. -NA--NA--NA-Basements -NA-

Upper floors

-NA-

-NA-

• Types • 15 marking  6. First-Aid Hose Reels  • Total numbers on each floor  • Length of hose reel hose • Nozzle diameter • Nozzle diameter • Nozzle diameter  • Type of detectors • Location of Main Panel • Location of Main Panel • Location of Repeater Panel • Alternate source of power • Hooters' Location • Ald Area • Hooters' Location  8. MOEFA • Public Address System • Basement  • Basement  • Ground & Above Floor • Sprinkler System  • Ground & Above Floor • Sprinkler above falise ceiling • NA- • Size of riser/down-comer • Sprinkler show falise reiling • Number of hydrants per floor  • Hose Box  • Total number of hydrants		The Extinguishers		-	
* Types * 18 marking * 19 marking * 19 marking * 10 marki		• Total numbers	101 No's	101 No's	1.00
6. First-Aid Hose Reeds  • Total numbers on each floor  • Total numbers on each floor  • Length of hose reel lose • Nozzle diameter • Nozzle diameter • Nozzle diameter • Length of hose reel lose • Nozzle diameter • Nozzle diameter • Length of hose reel lose • Nozzle diameter • Length of hose reel lose • Nozzle diameter • Length of hose reel lose • Nozzle diameter • Type of detectors • Leadion of Main Panel • Length of Repeater Panel • Location of Repater Panel • Albernate source of power • Hooters' Location  8. MOEEA 9. Public Address System Required Provided MR P					The state of the s
First-Aid Hose Reels   3 No. in ancillary building. 11 Nos at cach Platform   36m   Provided   MR   Provided   Provided   MR			1	27,00,00	
Formulation	6.	First-Aid Hose Reels		Y es	MR
Formulation			3 No in ancillary		
at Concourse & 8 Nos at cach Platform  • Length of hose reel hose • Nozzle diameter  • Nozzle diameter  7. Automatic fire detection and alarming system  • Type of detectors • Location of Main Panel • Location of Main Panel • Location of Main Panel • Location of Repeater Panel • Alternate source of power • Hooters' Location  8. MOEFA  • Public Address System  • Basement  • Basement  • Ground & Abave Floor • Sprinkler above false ceiling • Number of hydrants per floor  • Hose Box   Dumping Arrangements  • Ground Level • Discharge of main Pump • Head of Main pump • Head of Main pump • Standby Pump Head • Acto Starting/Manual Stopping • Pump Hose Access  * Required Provided MR  * Provided		<ul> <li>Total numbers on each floor</li> </ul>			
Length of hose reel hose   Nozale diameter	1.				MR
Length of hose roel hose   Nozzie diameter   Nozie diameter   Nozzie diameter   Nozzie diameter   N					
Longth of hose reel hose   Nozzle dimeter		1 20 2	out out		
7. Automatic fire detection and alarming system  • Type of detectors • Location of Main Panel • Location of Repeater Panel • Alternate source of power • Hooters' Location  8. MOEFA 9. Public Address System • Basement  • Provided  • MR  • Number of hydrants per floor  • Sprinkler  • Hose Box  • Total number of hydrants  • To		<ul> <li>Length of hose reel hose</li> </ul>	The state of the s		v.
7. Automatic fire detection and alarming system  • Type of detectors • Location of Main Panel • Location of Main Panel • Location of Repeater Panel • Alternate source of power • Hooters' Location • Hooters' Location • Hooters' Location  8. MOEFA 9. Public Address System • Basement • Basement • Ground & Above Floor • Sprinkler sbove false ceiling • Number of hydrants per floor • Size of risen/down-comer • Ilose Box  1 Inos at Concourse & 8 Nos at each Platform • Ilose Box  1 Inos at mellitary • Ilose Box  2 Inos at mellitary • Ilose Box  1 Inos at mellitary • Ilose Box  2 Inos at mellitary • Ilose Box  3 Inos at mellitary • Ilose Box  4 Inos at mellitary • Ilose Box  1 Inos at mellitary • Ilose Box  2 Inos at mellitary • Ilose Box  3 Inos at mellitary • Ilose Box  4 Inos at mellitary • Ilose Box  5 Inos at mellitary • Ilose Box  1 Inos at mellitary • Ilose Box  2 Inos at mellitary • Ilose Box  3 Inos at mellitary • Ilose Box  4 Inos at mellitary • Ilose Box  5 Inos at mellitary • Ilose Box  1 Inos at mellitary • Ilose Box  2 Inos at mellitary • Ilose Box  3 Inos at mellitary • Ilose Box  4 Inos at mellitary • Ilose Box  5 Inos at mellitary • Ilose Box  1 Inos at mellitary • Ilose Box  2 Inos at mellitary • Ilose Box  4 Inos at mellitary • Ilose Box  5 Inos at mellitary • Provided • MR  A Inos at mellit		<ul> <li>Nozzle diameter</li> </ul>	95 10 1000	Provided	MR
Type of detectors   Location of Main Panel   Location of Main Panel   Location of Repeater Panel   Alternate source of power   Hooters' Location   Hooters' Location   Hooters' Location   Required   Required   Provided   MR   Provided   Provided   MR   Provided	7.	Automatic fire detection and al.		Provided	MR
Location of Main Panel     Location of Repater Panel     Alternate source of power     Hooters' Location     Alternate source of power     Hooters' Location     Required     All Area     Provided     MR Required     All Area     Provided     MR Provided     MR Required     Required     Provided     MR Required     Required     Provided     MR Required     Provided     MR Required     Required     Provided     MR Required     Required     Required     Required     Required     Required     Provided     MR Required		Type of date of			
Location of Repeater Panel   Alternate source of power   Hotors' Location				Provided	MR
Alternate source of power Hooters' Location  Alternate Source of power Hooters' Location  Required Hooters' Location  Required Horvided MR Provided MR Provided MR Required Provided MR Required Provided MR Required Horvided MR Required Provided MR Required Horvided MR Required Provided MR Required Provided MR Required Provided MR Required Provided MR Required MR Required Provided MR Required Provided MR Required Provided MR MR  Automatic Sprinkler System  Basement  Baseme				Provided	MR
## Hotters' Location   All Area   Provided   MR   ## MOEFA   Public Address System   Required   Provided   MR   ## Provided   MR   ## Provided   MR   ## Required   Provided   MR   ## Provided   MR   ## Required   Provided   MR   ## Provided   MR   ## Required   Provided   MR   ## Provided   MR   ## Required   Provided   Provided   MR   ## Required   Provided   Provided		Altowate and C		Fireman Staircase	MR
8. MOEFA 9. Public Address System 10. Automatic Sprinkler System  Basement		Hootore' Lagating		Provided	
9. Public Address System Required Provided MR  Required Provided MR  Required Provided MR  10. Automatic Sprinkler System  • Basement Required in following rooms: provided mess, store, security, locker Sprinkler above false ceiling NA-	8		All Area	Provided	
10. Automatic Sprinkler System  Basement  Base			Required	Provided	
Basement  Required in following rooms:- mess, store, security, locker  Ground & Above Floor Sprinkler above false ceiling  NA- NA- NA- NA- NA- NA- NA- NA- NA- NA			Required	The state of the s	
Basement  Glowing rooms:- mess, store, security, locker Sprinkler above false ceiling  Number of hydrants per floor  Ilose Box  Total number of hydrants  Total number of hyd	10.	Automatic Sprinkler System	The state of the s		1711
Basement  Glowing rooms:- mess, store, security, locker Sprinkler above false ceiling  Number of hydrants per floor  Ilose Box  Total number of hydrants  Total number of hyd			Required in		
Ground & Above Floor   Sprinkler above false ceiling   NA-		Basement		Provided	MD
Ctround & Above Floor Sprinkler above false ceiling Size of riser/down-comer  Size of riser/down-comer  Number of hydrants per floor  Ilose Box Ilose Box Ilose Box In the Box Ilose Box In the Box Ilose Box In the Box In				Torided	IVII
Ctround & Above Floor Sprinkler above false ceiling Size of riser/down-comer  Size of riser/down-comer  Number of hydrants per floor  Ilose Box Ilose Box Ilose Box In the Box Ilose Box In the Box Ilose Box In the Box In			security, locker		
11. Internal Hydrants  Size of riser/down-comer  Number of hydrants per floor  Itose Box  Itose Provided  Itose Box  Itose Box  Itose Box  Itose Box  Itose Provided  Itose Box  Itose Provided  Itose Box  Itose Box  Itose Provided  Itose Box			-NA-	-NA-	-N: A
Size of riser/down-comer  Size of riser/down-comer  Number of hydrants per floor  Hose Box  Total number of hydrants  Total number of hydrant each Provided  MR  Sam for Hydrant & Provided MR  Total number of hydr	4.4		-NA-		
Number of hydrants per floor  Number of hydrants publiding, 11 Nos at Concourse & 8 Nos at each Platform  Number of hydrants  Total number of hydrants  Nos at ancillary building, 11 Nos at Concourse & 8 Nos at each Platform  Nos at ancillary building & 1 Nos at ancillary building & 1 Nos at each tunnel portal  Nos at ancillary building & 1 Nos at each tunnel portal  Nos at ancillary building & 1 Nos at each tunnel portal  Nos at ancillary building & 1 Nos at each tunnel portal  Nos at ancillary building & 1 Nos at each tunnel portal  Nos at ancillary building & 1 Nos at each tunnel portal  Nos at ancillary building & 1 Nos at each tunnel portal  Nos at ancillary building & 1 Nos at each tunnel portal  Nos at ancillary building & 1 Nos at each tunnel portal  Nos at each Platform  Name Provided MR  Provided MR  Number of main pump  Number of main pumps  Number of main pump  Number of main pu	11.			11/1	-1//1-
Number of hydrants per floor  Number of hydrants publishing. 11 Nos at Concourse & 8 Nos at each Platform  Number of hydrants  Total number of hydrants  Nos at Concourse & 8 Nos at each Platform  Number of hydrants  Nos at Concourse & 8 Nos at each Platform  Number of hydrants  Number of hydrants  Number of hydrants  Number of main Pump  Number of main pumps  Number of main pump  Number of hydrant & Provided  Number of hydrant & Number of hydrant & Provided  Number of hydrant & Nu		<ul> <li>Size of riser/down-comer</li> </ul>	150mm	Provided	MD
Number of hydrants per floor     Number of hydrants per floor     Ilose Box     I			3 No. in ancillary	. Torrided	IVIIX
Ilose Box		<ul> <li>Number of hydrants per floor</li> </ul>	building, 11 Nos at	Provided	1.70
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building. 11 Nos at Concourse & 8 Nos at cach Platform  Total number of hydrants  Total number o		TV	Para transfer of the second of		
Concourse & 8 Nos at each Platform   Provided   MR		Hose Box	building. 11 Nos at		
Total number of hydrants  Total number of hydrants  Hose Box  Hose Box  Provided  MR  Nos at ancillary building & I Nos at acch tunnel portal  Provided  MR  Provided  MR  Provided  MR  Stand of Main pump  MR  Provided  Provided  MR  Provided  MR  Provided  MR  Provided  Provided  MR  Provided  MR  Provided  Provided  MR  Provided  Provided  MR			Concourse & 8 Nos at	Provided	MR
Total number of hydrants	12.	Yard Hydrants	each Platform		
• Hose Box    I Nos at ancillary building & 1 Nos at each tunnel portal   Provided   MR				4.	
• Hose Box    building & 1 Nos at cach tunnel portal   Provided   MR		rotal number of nydrants		Provided	MR
Provided   Provided   MR		Hose Boy		4	
Ground Level Discharge of main Pump Head of Main pump  Number of main pumps Jockey Pump out put Jockey pump head Standby Pump Head Auto Starting/Manual Stopping Pusicharge of main Pump  2839 LPM Provided MR		A COST DOA		Provided	MR
<ul> <li>Ground Level</li> <li>Discharge of main Pump</li> <li>Head of Main pump</li> <li>Number of main pumps</li> <li>Jockey Pump out put</li> <li>Jockey pump head</li> <li>Standby Pump Out put</li> <li>Standby Pump Head</li> <li>Auto Starting/Manual Stopping</li> <li>Pump House Access</li> <li>Discharge of main Pump</li> <li>R8m for Hydrant &amp; Provided</li> <li>Provided</li> <li>MR</li> </ul>	13.	Pumping Arrangements	eden tulmer portal		
Head of Main pump  88m for Hydrant & Provided MR  75m for Sprinkler  Two Provided MR  Jockey Pump out put  2 x 189 LPM Provided MR  88m for Hydrant & Provided MR  88m for Hydrant & Provided MR  88m for Hydrant & Provided MR  75m for Sprinkler  2 x 2839 Provided MR  LPM(electric)  88m for Hydrant & Provided MR  LPM(electric)  88m for Hydrant & Provided MR  75m for Sprinkler  Required Provided MR  Provided MR  Provided MR  Required Provided MR  Required Provided MR  Required Provided MR		<ul> <li>Ground Level</li> </ul>			And the second s
Head of Main pump  88m for Hydrant & Provided MR  75m for Sprinkler  Two Provided MR  Jockey Pump out put  2 x 189 LPM Provided MR  88m for Hydrant & Provided MR  88m for Hydrant & Provided MR  88m for Hydrant & Provided MR  75m for Sprinkler  2 x 2839 Provided MR  LPM(electric)  88m for Hydrant & Provided MR  LPM(electric)  88m for Hydrant & Provided MR  75m for Sprinkler  Required Provided MR  Provided MR  Provided MR  Required Provided MR  Required Provided MR  Required Provided MR		Discharge of main Pump	2830 I DM	D :11	
Number of main pumps  Number of main pumps  Jockey Pump out put  Jockey pump head  Standby Pump out put  Standby Pump Head  Auto Starting/Manual Stopping  Provided  75m for Sprinkler  2 x 189 LPM  Required  Provided  MR					
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  Two Provided MR		, samp		Provided	MR
Jockey Pump out put  Jockey pump head  Standby Pump out put  Standby Pump Head  Auto Starting/Manual Stopping  Pump House Access  2 x 189 LPM  88m for Hydrant & Provided MR  2 x 2839  LPM(electric)  88m for Hydrant & Provided MR		Number of main number		Drovid-1	140
Standby Pump out put   Standby Pump Head   Standby Pump Head   Standby Pump Head   Auto Starting/Manual Stopping   Pump House Access   Required   Provided   MR   Provided   Provided   Provided   Provided   MR   Provided   Prov					
75m for Sprinkler  2 x 2839 LPM(electric)  88m for Hydrant & Provided MR  75m for Sprinkler  Required Provided MR  Provided MR  Provided MR  Provided MR  Required Provided MR  Required Provided MR					
Standby Pump out put  2 x 2839 LPM(electric)  88m for Hydrant & Provided MR  75m for Sprinkler  Auto Starting/Manual Stopping Pump House Access  Required Provided MR  Provided MR  Provided MR  Provided MR  Provided MR  Provided MR		basicy paint head		Provided	MR
Standby Pump Head  Standby Pump Head  Auto Starting/Manual Stopping  Pump House Access  LPM(electric)  88m for Hydrant & Provided MR  75m for Sprinkler  Required Provided MR  Required Provided MR		Standby Dump and		Provided	MP
Standby Pump Head  Auto Starting/Manual Stopping  Pump House Access  88m for Hydrant & Provided MR  75m for Sprinkler  Required Provided MR  Required Provided MR		Standoy Fump out put		TIOVIGED	IVIK
Auto Starting/Manual Stopping Pump House Access  75m for Sprinkler Required Provided MR Required Provided MR		Ston-II- D	88m for Hydrant &	Provided	MR
Pump House Access Required Provided MR					IVII
Pump House Access Required Provided MR		Auto Starting/Manual Stopping	The state of the s	Provided	MR
Terrace level			Required	Provided	
		• Terrace level			

F	Sarojini Nagar Underground Metro Station of Line-7					
	Head of the pump	-NA-	-NA-	-NA-		
	Power Supply	-NA-	-NA-	-NA-		
	Auto Starting of pump	-NA-	-NA-	-NA-		
14.	Captive Water Storage for fire fighting					
	Underground tank capacity	-NA-	-NA-	-NA-		
	> Draw-off connection	Required	Provided	MR		
	Fire service inlet  Access to tank  Overhead Tank capacity	Required	Provided	MR		
		Required	Provided	MR		
		2 x 1,00,000 Lts	Provided	MR		
15.	Exit Signage.	Required	Provided	MR		
16.	Provision of Lifts.					
	Pressurization of Lift Shaft	-NA-	-NA-	-NA-		
	Pressurization of Lift lobby	-NA-	-NA-	-NA-		
	Communication In lift Car	Required	Provided	MR		
	<ul> <li>Fireman's Grounding Switch</li> </ul>	Required	Provided	MR		
	• Lift Signage	Required	Provided	MR		
17.	Standby power supply	Required	Provided	MR		
18.	Refuge Area.					
18.	Total Area  Location	-NA-	-ΝΛ-	-NA-		
			-NA-	-NA-		
10		-NA-	-11/1-	-1474		
19.	Fire Control Room	Required in SCR	Provided	MR		
	<ul><li>Detector System Panel</li><li>Flow Switch Panel</li></ul>	Required	Provided	MR		
	PA System Panel		Provided	MR		
	Batter backup	Required	Provided	MR		
	Building Floor Plans	Required				
		Required	Provided	MR		
20.		Clean Agent				
		flooding system	Provided local			
	Special Fire Protection System for Protection of special Risks, if any:	for Electrical	application with	MR		
		Panels &	NOVEC 1230			
		Transformer ·				

The fire protection systems provided in the building were randomly tested, checked and found

functional at the time of inspection.

1423/c/20152

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).

Signature of Inspecting Officer Name: A. K. Malik

Designation: DO (SD)

Dy. CFO (SZ)

The egress report submitted by DMRC doesn't have any signature