

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

No. F.6/DFS/MS/Assembly/(UG)/SZ/2018/ 180

Dated: 29/1/18

FIRE SAFETY CERTIFICATE

Certified that the **Naraina Underground Metro Station of Line-7**, comprising of four levels (Undercroft, Platform, Concourse & Ground, Level) owned / occupied by Delhi Metro Rail Corporation was inspected by the officer concerned of this department on 18/01/2018 in the presence of Mr. Deepak Kumar Gupta (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 (Assembly building)**" with effect from 29/1/18 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.....29/1/18.....at New Delhi by.


(Vipin Kental)
Chief Fire Officer
Tel: 011-23412225

Copy to:-

1. Papiya Sarkar, Chief Architect, 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
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."

1. Name & address of the building : Naraina Underground Metro Station, Line-7
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 : F6/DFS/MS/2013/2 dated 23/07/2013.
6. Date of inspection : 18.01.2018
7. Name of the Inspecting Officers : M.K.Chattopadhyay, DO(SW)
8. Name and designation of officers from the building side : Mr. Deepak Kumar Gupta, Dy. C.E.E
9. Year of Construction : 2017[Undercroft + Platform + Concourse + Ground]
10. Applicant's letter No. : DMRC/12/CA/187-PH-III dated 29.12.2017

S. No.	Minimum Standards on fire prevention and fire safety U/R 33	NFPA Requirement	Provided at site	Remarks MR/NMR
1	Access to building			
	<ul style="list-style-type: none"> • Road width • Gate width • Width of internal road 	Required	12 mts	MR
		N/A	06 mts	N/A
		N/A	06 mts	MR
2	Number, Width, Type & Arrangement of Exits			
	a. Number of staircases	N/A	N/A	N/A
	<ul style="list-style-type: none"> • Upper Floors • Basements 	(1).Undercroft to Platform- 2 Nos (2).Platform to Concourse-6 Nos +2 Escalators (3). Concourse to Ground- 03 Nos + 02 Escalator.	Provided	MR (50% capacity of Escalators is counted for evacuation in NFPA)
	b. Width of staircases			
	<ul style="list-style-type: none"> • Upper Floors • Basements 	-	-	-
		N/A	N/A	N/A
	c. Protection of exits	2.8m & 1.2m (maintenance staircase)	(1). 1.40m x 2 Nos (2). 2.50 m x 2 Nos, 1.50 m x3 Nos& 1.42 m x 1 Nos + 1.13 m x 1 Nos (3). 4.50m x 2 Nos, 1.23 m x 1 Nos	MR
	<ul style="list-style-type: none"> • Fire check door • Pressurization 	Required	Provided	MR
		Required in Fireman Staircase & Emergency Staircase	Provided	MR
	e. No. of continuous staircases to terrace	NA	NA	NA
		NA	NA	NA
	g. Width of Corridor	01 mt.	Provided	MR
	h. Door Size			
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
		90 minute	Provided	MR
		NA	NA	NA
		Required	Provided	MR
4	Smoke Management System.			
	<ul style="list-style-type: none"> • Basements • Upper floors 	Required in platform, concourse and tunnels	Provided	MR
			NA	NA
5	Fire Extinguishers			
	<ul style="list-style-type: none"> • Total numbers • Types 	95 No's ABC/W.CO ₂ /CO ₂	Provided	MR
				MR

	<ul style="list-style-type: none"> Total numbers on each floor Length of hose reel hose Nozzle diameter 	1 No. in ancillary building, 7 Nos at Concourse & 6 Nos at Platform 30 & 45 m 6 mm	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	Provided	MR
		Station Control Room	Provided	MR
		Required	Provided	MR
		Required	Provided	MR
		All areas	Provided	MR
8	MOEFA	Required	Provided	MR
9	Public Address System.	N/A	Provided	N/A
10	Automatic Sprinkler System.			
	<ul style="list-style-type: none"> Basement Upper Floor Sprinkler above false ceiling 	Under track MVW nozzle, Store rooms at Concourse & platform	Provided	MR
		N/A	N/A	N/A
		N/A	N/A	N/A
11	Internal Hydrants			
	<ul style="list-style-type: none"> Size of riser/down-comer Number of hydrants per floor Hose Box 	150mm	Provided	MR
		3 No. in ancillary building, 7 Nos at Concourse & 6 Nos at Platform	Provided	MR
		3 No. in ancillary building, 7 Nos at Concourse & 6 Nos at Platform	Provided	MR
12	Yard Hydrants.			
	<ul style="list-style-type: none"> Total number of hydrants Hose Box 	2 Nos	Provided	MR
		02 Nos at ancillary building	Provided	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 <ul style="list-style-type: none"> Discharge of pump Head of the pump Power Supply 	-	-	-
		Hyd-2839 LPM, SPK- 2839 LPM	Provided	MR
		Hyd- 90 mts, SPK- 56 mts	Provided	MR
		02	Provided	MR
		Hyd-189 LPM, SPK- 189 LPM	Provided	MR
		Hyd- 90 mts, SPK- 56 mts	Provided	MR
		2839 LPM	Provided	MR
		56 mts.	Provided	MR
		Required	Provided	MR
		Required	Provided	MR
		-	-	-
		N/A	N/A	N/A
		N/A	N/A	N/A
		N/A	N/A	N/A

	➤ Auto Starting of pump	N/A	N/A	N/A
Captive Water Storage for fire fighting.				
	• Underground tank capacity	N/A	N/A	N/A
	➤ Draw-off connection	Required	Provided	MR
	➤ Fire service inlet	Required	Provided	MR
	➤ Access to tank	Required	Provided	MR
	• Overhead Tank capacity	2 x 1,00,000 Lts	Provided	MR
15	Exit Signage.	Required	Provided	MR
16 Provision of Lifts.				
	• Pressurization of Lift Shaft	N/A	N/A	N/A
	• Pressurization of Lift lobby	N/A	N/A	N/A
	• Communication In lift Car	Required	Provided	MR
	• Fireman's Grounding Switch	Required	Provided	MR
	• Lift Signage	Required	Provided	MR
17	Standby power supply	Required	D.G.Set Provided	MR
18 Refuge Area.				
	➤ Total Area	N/A	N/A	N/A
	➤ Location	N/A	N/A	N/A
19 Fire Control Room				
	• Detector System Panel	Required in SCR	Provided	MR
	• Flow Switch Panel	Required	Provided	MR
	• PA System Panel	Required	Provided	MR
	• Batter backup	Required	Provided	MR
	• Building Floor Plans	Required	Provided	MR
20	Special Fire Protection Systems for Protection of special Risks, if any:	Clean Agent flooding system for Electrical Panels & Transformer	Provided 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.

Accordingly DFA is put up for approval and signature.



10/DO/SW
23/1/2018

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23/1/2018

M.K.CHATTOPADHYAY
Div. Officer (SW)