

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

NO F 6/DFS/MS/NDZ/2017/ 362

Dated 14/3/17

FIRE SAFETY CERTIFICATE

Certified that **LAL Quila Under Ground Metro Station** Located at **Near Kashmiri Gate New Delhi**, comprised of **Ground floor with two Basements/Platform/Concourse & Ancillary building**, have complied with the fire prevention and fire safety requirements in accordance with rule 33 of the Delhi Fire Service rules, 2010 and verified by the offices concerned of fire service on **25-02-2017** in the presence of **Mr. Sanjeev kumar** DY Manager DMRC, and that the building/premises is fit for occupancy class **D-7'' Assembly building** with effect from 14/3/17 for a period of **three years** in accordance with rule 36 unless renewed under rule 37 or sooner cancelled under rule 40, subject to compliance of the conditions under rule 38 of the Delhi Fire service rule 2010.

14/3
(Vipin Kental)
Chief Fire Officer
Delhi Fire Service

Copy to :-

1. Sh. Sanjeev Kumar
DY. CEE - III / L-6,
Delhi Metro Rail Corporation Ltd, 8, Jantar Mantar Road, New Delhi- 11001.
2. Sh. A.K. Singh, Ex. Dir. E-II, 8, Jantar Mantar Road, New Delhi.

Following fire safety directives may be adhered to :-

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 measure shall be at the responsibility of the management.
3. The trained fire fighting staff should be available round the clock.
4. Any deviation with regard to construction etc. Shall be verified by the concerned building sanctioning authority.
5. Basement shall be used as per NBC / BBL 1983.
6. This Fire Safety Certificate may not be treated in any case for regularizations of unauthorized construction if any.
7. The owner / occupier shall submit a declaration every year in form 'K' provided in the first schedule of Delhi fire service 2010. The form is available on www.dfs.delhigovt.nic.in.
8. The access around the blocks as submitted in the plans submitted by Principal Architect Design Plus shall be kept clear of any obstruction for free movement of fire units in case of emergency.
9. The owner / occupier shall apply for renewal of this fire safety certificated to the director in Form 'the [sub rule (1) of rule 37] along with a copy of this certificate, six months prior to it expiry.

Issued on ----- at New Delhi by

INSPECTION REPORT

1. Name & address of the building : Lal Quila Underground Metro Station, New Delhi.
 2. Type of Occupancy : Assembly building (D7as Per NBC Part IV 2005)
 3. Type of Case : Fresh
 4. Details of previous FSC : N/A
 5. Fire Safety directives Letter No. : DMRC/12/D.Y.CA/L-601/LQ/002 Dated 26/11/2015
 6. Date of inspection : 25/02/2017
 7. Name of the Inspecting Officer : Sh. Sunil Chawdhary Dy.CFO/NDZ
 8. Name and designation of Officer
 from the building side : Sh. Sanjeev
 9. Year of Construction : 2016-17
 10. Applicant's letter No. : DMRC/ED/EL-II/2J/Corres DFS dated 03/02/17

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	12 mtr.	30 mtr.	MR
	2) Gate width	On road	On road	MR
	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 concourse concourse to platform, Undercroft to platform	Con. to Gr.- 4 Pal. to Con - 4 U to Con. - 2	MR
	B. Width of staircase			
	1. Upper floors	N/A	N/A	N/A
	2. Basements	C.G. 2400 mr (min.each)	C.G. 2400.mr(min.each) P.C. 2400.mr(min.each)	MR
	C. Protection of exits			
	1. Fire check door	Required	Provided	MR
	2. Pressurization	Required	Provided	MR
	D. No. of continuous staircase to terrace	N/A	N/A	N/A
	E. Width of corridor	2.5 mtr.	2.5 mtr.(min)	MR
	F. Door size	2 mtr.	2 mtr.	MR
3.	Compartmentation			
	1) Fire check door	Required	2 hr. & 4hr. Provided	MR
	2) Sealing of electrical shafts	Required	Provided	MR
	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	As Per Engg. analysis	MR
	2) Upper floors	12 ACPH	(Subway engronment simulation) & computational fluid dynamics	MR

M/4

5.	Fire Extinguishers			
	1) Total numbers	83 Nos.	54+23+04+02=83	MR
	2) Types	CO2 & Water gas	45 Kg. CO ₂ +6KG ABC+9L water+22.5 KG CO ₂	MR
	3) ISI marking	Required	Provided	MR
6.	First-Aid Hose Reel			
	1) Total number of each floor	24 No. 08 on each floor	08 Nos. on concourse, 08 Nos. on platform 08 Nos. on Undercroft 8 x 3 = 24	MR
	2) Length of hose reel hose	30 mtr.	30.5 mtr.	MR
	3) Nozzle diameter	05 mm	6.0 mm	MR
7.	Automatic Fire Detection & Alarming System			
	1) Type of detectors	Smoke	Provided	MR
	2) Location of main panel	Concourse	Station (C.R) Concourse	MR
	3) Location of repeater panel	Required	FM staircase. List (Lend)	MR
	4) Alternate source of power	Required	UPS Supply	MR
	5) Hooter's Location	Required	Concourse, platform & Undercroft & Ancillary Buiding	MR
8.	MOEFA	N/A	Provided	N/A
9.	Public Address System	Required	Provided	MR
10.	Automatic Sprinkler System			
	1) Basement(Under track Mov Nozzle)	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.	Riser 150 mm	MR
	2) Number of hydrants per floor	Required	06+11+01 = 18	MR
	3) Hose box per floor	Required	06+11+01 = 18	MR
12.	Yard Hydrants			
	1) Total number of hydrants	01 no	02 no	MR
	2) Hose box	01 no	02 no	MR
13.	Pumping Arrangement		As per NFPA	
	1) Ground level			
	a) Discharge of main pump	2800LPM	HYD2839LPM SPK 839LPM	MR
	b) Head of main pump	50 mtr	HYD 90 mm SPK56	MR
	c) Number of main pump	2 No.	HYD 01 no+ Standby 01 no	MR
	d) Jockey pump out put	2 no180LPMeach	HYD 189lpm SPK 189lp m	MR
	e) Jockey pump head	80 m	HYD 90m SPK 56	MR
	f) Stand by pump output	2800LPM each	D-2839LPM SPK- 2839LPM	MR
	g) Stand by pump head	Required 50 m	HYD-90m SPK-56	MR
	h) Auto starting/Manual stopping	Required	Jockey-Auto Start/Stop mainStandbyManualOff	MR
	2) Terrace level			
	a) Discharge of pump	N/A	N/A	N/A
	b) Head of pump	N/A	N/A	N/A

2/15

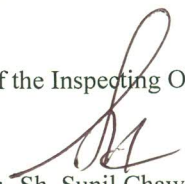
	c) Power supply	N/A	N/A	N/A
	d) Auto starting of pump	N/A	N/A	N/A
14.	Captive Water Storage for Fire Fighting			
	1) Under ground tank capacity	2,00,000 liter.	Overhead tank 2 no & 1,00,000 liter. each	MR
	a) Draw-off connection	Required	Provided	MR
	b) Fire service inlet	Required	Provided	MR
	c) Access to tank	N/A	N/A	N/A
	d) Over head tank capacity	1,00,000 liter.	2 x 1,00,000 liter.	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 (Novec) 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.

Keeping in view the substantial compliance of the minimum standards on fire prevention and fire safety required under the rules, grant of fire Safety Certificate under rule 35 of the Delhi Fire Service Rules 2010 / is recommended please.

Certificate for design installation testing for tunnel ventilation system, smoke extraction system & track extraction system, civil work, fire compartmentation, clean agent based tube flooding gas suppression system, fire fighting, fire alarm, detection system and fire doors certified have been received from D.M.R.C and the same have been placed in the file.

Signature of the Inspecting Officer



Name :- Sh. Sunil Chawdhary
Designation :- DCFO (NDZ)

C.F.O.

FT 10 - 16/3

F.I. letter is put up

246/CFD NDZ
14/3/17